Chei

Tehnologia speciala de fabricatie a cheii combinate marimea 24

1. **Debitarea:**
   Pe presa de debitare platbanda de otel este debitata in forma dorita, acuratetea operatiei asigurand un consum optim al platbandei de otel.

2. **Forjarea:**
   In timpul procesului de forjare realizat pe utilaje modernizate ca de exemplu ciocane matritoare performante, forma cheilor combinate este realizata cu precizie. Prin utilizarea tehnologiilor moderne de forjare putem obține o orientare optima a fibrajului (la fel ca si in cazul laminarii), lucrul acesta fiind de maxima importanta in productia noastra , cantitatile de piese forjate fiind importante si intr-o continua dinamica, la un inalt standard de calitate.

3. **Debavurarea:**
   Îndepărtarea bavurii de pe piesa (bavura rezultata in urma forjarii in matrita pe ciocane matritoare) este realizata pe prese speciale, greutatea bavurii ce va eliminata este minima pentru a putea obtine forma de piesa forjata dorita.

4. **Perforarea:**
   Urmarind fazele de forjare si debavurare, perforarea este facuta in piesa prin perforare sau taiere. Acest procedeu poate fi executat pe piese atat la cald cat si la rece.

5. **Calibrare si slefuire:**
   Cu ajutorul procedeelor mecanice si chimice piesa forjata este prelucrata pe masini de calibrat si slefuit, piesele fiind prelucrate pe masini automate de slefuit. In acest fel muchiile ascutite ale cheii sunt netezite si rotunjite.

6. **Marcarea si indoirea capului:**
   In conformitate cu tehnologia standard, fiecare produs este marcat corespunzator; apoi, partea inelara a cheii este indoita in conformitate cu prevederile standardului.

7. **Brosarea:**
   Prin procedeul de brosare, materialul este inlaturat printr-o singura trecere, prin actiunea succesiva a dintilor incorporati in brosa. In productia cheilor Unior, profilul pentru partea inelara este realizat prin utilizarea masinilor de brosat tip MAE.

8. **Tratament termic:**
   Tratamentul termic are ca obiectiv imbunatatirea marimii grauntilor otelului si, astfel in acest fel duritatea cheii creste in zonele de lucru. Procesul de tratament termic garanteaza cheilor Unior o durata de intrebuintare lunga si rezistenta la eforturi si incarcari mari.

9. **Sablare si polizare:**
   Diversele substante abrazive actioneaza pe suprafata cheilor antrenate de aerul comprimat. Abrazivele curata suprafetele si, in acelasi timp, indeparteaza asperitatile ramase, operatie extrem de importanta pentru pregatirea operatiilor ulterioare de acoperiri de suprafata (galvanica). In anumite variante, capetele cheilor sunt lustruite luciu oglinda pentru o prezentare placuta a cheii.

10. **Cromare:**
    Cheile sunt acoperite cu un strat subtire, un strat de crom dioxid care le protejeaza impotriva coroziunii, cromul fiind un element de aliere pentru otel si, de asemenea, utilizat la acoperiri de suprafata, dand cheilor un aspect placut, stralucitor.

10 pasi principali din 24:



Durata mare de exploatare

Cheile sunt facute din otel cromvanadiu de inalta calitate, cu o mare rezistenta in punctele cu presiune crescuta, o astfel de dimensionare si fabricare le confera forta si durabilitatea.

Lucrul in siguranta

Prin geometria partilor active, cheile previn lovirea colturilor si a muchiei suruburilor si piulitelor, prin distribuirea fortei în mod egal asupra suprafetei, departe de conturul exterior al piulitei sau al capului surubului, in loc de actiune directa asupra muchiei.

Design inovativ

Performantele tehnice si designul permit cheilor fixe Unior să garanteze un transfer precis si eficient de forţa pentru a insuruba capul suruburilor si al piulitelor.


Chei fixe 24 - 30


Chei combinate 30 - 37

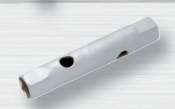

Chei inelare 38 - 41


Chei cu clichet 42


Chei de soc 43 - 44


Cheie cu gheara 45


Cap cheie tubulare 46 - 50


Chei tubulare 50 - 52


Chei locas hexagonal 52 - 61

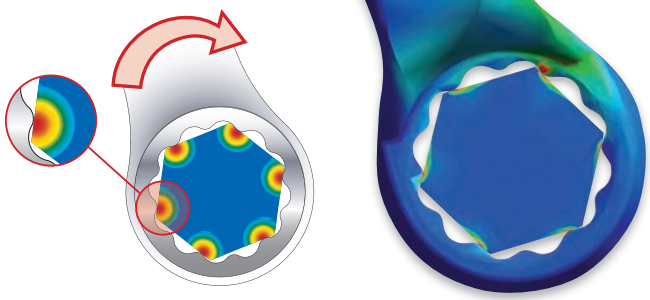

Chei pentru atelierele de service auto 61 - 63



"LIFE profile"

Principalele avantaje ale profilului LIFE:

- o actionare mai rapida pe piulita
- protectia surubului si a varfurilor acestiua
- pozitionarea rapida si operare confortabila
- utiliyare chiar si pentru suruburi si piulite deformate





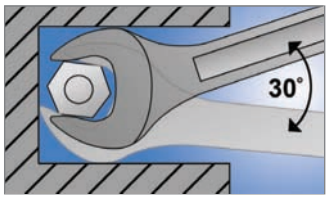
UNIOR

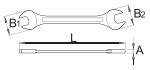
110/1

Cheie fixa dubla

- *material: crom vanadiu*
- *finisarea suprafetei: acoperire cromare conform EN 12540*
- *capete polizate*
- *forjare, calire si intarire totala*
- *conform standardului ISO 10102 (nimau pentru dimensiunile in mm)*







		L	B1	B2	A			
603316	4 x 4.5	100	13.6	13.6	3.4	10	A	13,90
603317	4 x 5	100	13.6	13.6	3.4	10	A	13,90
603318	5 x 5.5	100	13.6	13.6	3.4	10	A	13,90
600059	5 x 7	121	14.4	16.4	3.4	15	A	15,93
600060	5.5 x 7	121	14.4	16.4	3.4	15	A	15,93
600061	6 x 7	121	14.4	16.4	3.4	15	A	11,31
600062	7 x 8	140	18.4	22.9	3.7	24	A	13,16
600063	7 x 9	140	18.4	22.9	3.7	25	A	13,16
600064	8 x 9	140	18.4	22.9	3.7	24	A	11,66
600065	8 x 10	140	18.4	22.9	3.7	23	A	14,39
600066	9 x 10	159	22.7	24.2	4.5	43	A	14,61
600067	9 x 11	159	22.7	24.2	4.5	40	A	15,93
600068	10 x 11	159	22.7	24.2	4.5	40	A	14,39
600069	10 x 12	172	26.2	29.2	4.5	58	A	17,03
600070	10 x 13	172	26.2	29.2	4.9	59	A	17,95
600071	10 x 14	172	26.2	29.2	4.9	59	A	18,08
600072	11 x 13	172	26.2	29.2	4.9	58	A	17,95
600074	12 x 13	172	26.2	29.2	4.9	58	A	16,28
600075	12 x 14	172	26.2	29.2	4.9	58	A	17,95
600076	13 x 14	192	31.2	33.2	5.4	81	A	18,08
600077	13 x 15	192	31.2	33.2	5.4	84	A	18,52
603846	13 x 16	192	31.2	33.2	5.4	83	A	19,54
600078	13 x 17	200	31.2	37.7	5.7	101	A	19,54
600079	14 x 15	192	31.2	33.2	5.4	83	A	17,42
600080	14 x 17	200	31.2	37.7	5.7	101	A	19,54
600081	15 x 17	206	35.7	37.7	5.7	108	A	21,82
600082	16 x 17	206	35.7	41.5	5.7	108	A	19,80
603121	16 x 18	213	35.7	41.5	6.2	133	A	22,13
600083	17 x 19	223	39.5	41.5	6.2	143	A	22,35
600084	17 x 22	223	39.5	41.5	6.2	193	A	27,24
600085	18 x 19	223	39.5	41.5	6.2	148	A	22,13
603847	18 x 21	223	39.5	46	6.2	141	A	27,72
600086	19 x 22	232	43.5	46	6.7	183	A	26,14
600087	19 x 24	232	43.5	46	6.7	243	A	29,88
600088	20 x 22	232	43.5	46	6.7	180	A	25,48
600089	21 x 23	249	46	52	7.2	235	A	26,66
600090	22 x 24	249	46	52	7.2	237	A	28,95
600091	22 x 27	249	46	52	7.2	301	A	39,42
600092	24 x 26	265	51.8	55.3	7.7	289	A	32,47
600093	24 x 27	265	53.8	55.3	7.7	289	A	36,87
600094	24 x 30	279	53.8	58.8	8.2	341	A	46,60
600095	25 x 28	279	62.8	58.8	8.2	344	A	35,68
600096	27 x 29	309	62.8	67.3	9.2	535	A	50,73
600097	27 x 30	309	62.8	67.3	9.2	527	A	51,79
600098	27 x 32	309	62.8	67.3	9.2	541	A	44,66
600099	30 x 32	309	62.8	67.3	9.2	532	A	48,36
603848	30 x 34	315	62.8	68.8	9.6	568	C	55,40
602593	30 x 36	319	62.8	78.8	9.6	591	C	86,64
600100	32 x 36	327	68.8	78.8	9.6	653	C	86,90
600101	34 x 36	327	68.8	78.8	9.6	628	C	104,59
600102	36 x 41	360	78.8	86.8	9.6	823	C	113,21
605549	38 x 42	360	78.8	86.8	9.6	822	C	132,00
602594	41 x 46	410	86.8	94.8	14.6	1735	C	164,96
602595	46 x 50	460	94.8	103.9	15.6	2365	C	219,65
605348	1/4" x 5/16"	121	14.4	16.4	3.4	15	A	12,23
618658	1/4" x 9/32"	121	14.4	16.4	3.4	15	A	11,70
605349	5/16" x 3/8"	140	18.4	22.9	3.7	24	A	12,72
618656	11/32" x 13/32"	159	22.7	24.2	4.5	43	A	14,39
605350	3/8" x 7/16"	159	22.7	24.2	4.5	40	A	15,58
605351	7/16" x 1/2"	172	26.3	29.2	4.9	58	A	18,83
605352	1/2" x 9/16"	192	31.2	33.2	5.4	81	A	18,83
605353	9/16" x 5/8"	192	31.2	33.2	5.4	83	A	18,83
605354	5/8" x 11/16"	206	35.7	37.7	5.7	108	A	21,34
605355	11/16" x 3/4"	223	39.5	41.5	6.2	143	A	23,89
618657	3/4" x 13/16"	232	43.5	46	6.7	183	A	28,73
605356	13/16" x 7/8"	249	46	52	7.2	237	A	27,50
605357	15/16" x 1"	265	51.8	55.3	7.7	301	A	35,42
605358	1" x 1.1/8	279	53.8	58.8	8.2	344	A	38,63
605359	1.1/16" x 1.1/4"	309	62.8	67.3	9.6	527	A	47,96

110/1CB

Set de chei fixe in cutie de carton



	№				
600105	110/1CB	6 - 22 / 8	724	F	138.47
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				
600106	110/1CB	6 - 32 / 12	2140	F	277.99
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)				
600107	110/1CB	6 - 41 / 13	3982	F	391.16
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32, 36 x 41)				
611018	110/1CB	6 - 27 / 10	1250	F	202.00
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27)				
605530	110/1CB	1/4" - 3/4" / 8	610	F	142.30
	110/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4")				
605531	110/1CB	1/4" - 1.1/4" / 12	2005	F	291.76
	110/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8, 1.1/16" x 1.1/4")				
623189	110/1CB	1/4" - 1.1/4" / 10		F	249.83
	110/1 (1/4" x 9/32", 5/16" x 3/8", 11/32" x 13/32", 7/16" x 1/2", 9/16" x 5/8", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8, 1.1/16" x 1.1/4")				

110/1CS

Set de chei fixe in cutie de carton



№				
602844	110/1CS	6 - 22 / 8	800	G	138.47
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/1CT

Set de chei fixe in husa



№				
615465	110/1CT	6 - 22 / 8	788	E	200.29
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **CT110** (430 x 275)				

CT110

Husa goala

- *Dimensiune 430 x 275 mm; pentru articolul 110 in 125*
- *fixarea velcro este folosita pentru incheierea si deschiderea usoara*
- *cureaua de inchidere nu este necesara*



A	B			
615480	430	275	117	E	72.86

110/1PB

Set de chei fixe in husa de plastic



№				
600108	110/1PB	6 - 17 / 6	378	E	90.86
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17)				
600109	110/1PB	6 - 22 / 8	747	E	138.47
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/1PH

Set de chei fixe in suport de plastic



№				
610835	110/1PH	6 - 22 / 8	885	F	145.33
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/1MS

Set de chei fixe in suport metalic



№				
605528	110/1MS	6 - 32 / 12	2740	F	327.58
	110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **977/1** (6 - 32/12)				
605532	110/1MS	1/4" - 1.1/4" / 12	2642	F	341.40
	110/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8, 1.1/16" x 1.1/4"), **977/1** (6 - 32/12)				

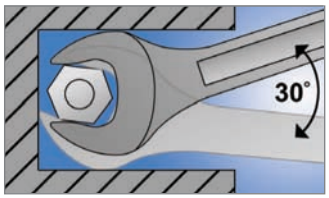


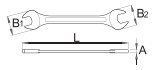
110/2

Cheie fixa dubla

- *material: crom vanadiu*
- *finisarea suprafetei: acoperire cromare conform EN 12540*
- *forjare, calire si revenire totala*
- *conform standardului ISO 10102 (numai pentru dimensiunile in mm)*







			L	B1	B2	A			
603319		4 x 4.5	100	13.6	13.6	3.4	10	A	**13,33**
600110		4 x 5	100	13.6	13.6	3.4	10	A	**13,33**
603320		5 x 5.5	100	13.6	13.6	3.4	10	A	**13,33**
600111		5 x 7	121	14.4	16.4	3.4	15	A	**15,22**
600112		5.5 x 7	121	14.4	16.4	3.4	15	A	**15,22**
600113		6 x 7	121	14.4	16.4	3.4	15	A	**10,96**
600114		7 x 8	140	18.4	22.9	3.7	24	A	**12,72**
600115		7 x 9	140	18.4	22.9	3.7	25	A	**12,72**
600116		8 x 9	140	18.4	22.9	3.7	24	A	**11,44**
600117		8 x 10	140	18.4	22.9	3.7	23	A	**13,51**
600118		9 x 10	159	22.7	24.2	4.5	43	A	**13,82**
600119		9 x 11	159	22.7	24.2	4.5	40	A	**15,22**
600120		10 x 11	159	22.7	24.2	4.5	40	A	**13,60**
600121		10 x 12	172	26.2	29.2	4.5	58	A	**16,46**
600122		10 x 13	172	26.2	29.2	4.9	59	A	**17,25**
600123		10 x 14	172	26.2	29.2	4.9	59	A	**17,42**
600124		11 x 13	172	26.2	29.2	4.9	58	A	**17,25**
600126		12 x 13	172	26.2	29.2	4.9	58	A	**15,53**
600127		12 x 14	172	26.2	29.2	4.9	58	A	**17,25**
600128		13 x 14	192	31.2	33.2	5.4	81	A	**17,42**
600129		13 x 15	192	31.2	33.2	5.4	84	A	**17,86**
603849		13 x 16	192	31.2	33.2	5.4	83	A	**18,66**
600130		13 x 17	200	31.2	37.7	5.7	101	A	**18,66**
600131		14 x 15	192	31.2	33.2	5.4	83	A	**16,72**
600132		14 x 17	200	31.2	37.7	5.7	101	A	**18,66**
600133		15 x 17	206	35.7	37.7	5.7	108	A	**20,94**
600134		16 x 17	206	35.7	41.5	5.7	108	A	**18,88**
603122		16 x 18	213	35.7	41.5	6.2	133	A	**21,30**
600135		17 x 19	223	39.5	41.5	6.2	143	A	**21,56**
600136		17 x 22	223	39.5	41.5	6.2	193	A	**25,52**
600137		18 x 19	223	39.5	41.5	6.2	148	A	**21,34**
603850		18 x 21	223	39.5	46	6.2	141	A	**26,49**
600138		19 x 22	232	43.5	46	6.7	183	A	**25,39**
600139		19 x 24	232	43.5	46	6.7	243	A	**28,73**
600140		20 x 22	232	43.5	46	6.7	180	A	**24,46**
600141		21 x 23	249	46	52	7.2	235	A	**25,56**
600142		22 x 24	249	46	52	7.2	237	A	**26,84**
600143		22 x 27	249	46	52	7.2	301	A	**37,97**
600144		24 x 26	265	51.8	55.3	7.7	289	A	**31,02**
600145		24 x 27	265	53.8	55.3	7.7	289	A	**35,11**
600146		24 x 30	279	53.8	58.8	8.2	341	A	**44,57**
600147		25 x 28	279	62.8	58.8	8.2	344	A	**33,92**
600148		27 x 29	309	62.8	67.3	9.2	535	A	**48,62**
600149		27 x 30	309	62.8	67.3	9.2	527	A	**49,72**
600150		27 x 32	309	62.8	67.3	9.2	541	A	**42,33**
600151		30 x 32	309	62.8	67.3	9.2	532	A	**46,60**
603851		30 x 34	315	62.8	68.8	9.6	551	C	**52,93**
602596		30 x 36	319	62.8	78.8	9.6	604	C	**82,85**
600152		32 x 36	327	68.8	78.8	9.6	635	C	**83,12**
600153		34 x 36	327	68.8	78.8	9.6	629	C	**100,06**
600154		36 x 41	360	78.8	86.8	9.6	801	C	**108,06**
605550		38 x 42	360	78.8	86.8	9.6	826	C	**126,24**
602597		41 x 46	410	86.8	94.8	14.6	1720	C	**150,04**
602598		46 x 50	460	94.8	103.89	15.6	2510	C	**209,97**
605458		1/4" x 5/16"	121	14.4	16.4	3.4	15	A	**11,70**
605459		5/16" x 3/8"	140	18.4	22.9	3.7	24	A	**11,70**
605460		3/8" x 7/16"	159	22.7	24.2	4.5	40	A	**15,09**
605461		7/16" x 1/2"	172	26.3	29.2	4.9	58	A	**18,17**
605462		1/2" x 9/16"	192	31.2	33.2	5.4	81	A	**18,17**
605463		9/16" x 5/8"	192	31.2	33.2	5.4	83	A	**19,71**
605464		5/8" x 11/16"	206	35.7	37.7	5.7	108	A	**20,55**
605465		11/16" x 3/4"	223	39.5	41.5	6.2	143	A	**22,84**
605466		13/16" x 7/8"	249	46	52	7.2	237	A	**26,22**
605467		15/16" x 1"	265	51.8	55.3	7.7	301	A	**33,66**
605468		1" x 1.1/8"	279	53.8	58.8	8.2	344	A	**37,09**
605469		1.1/16" x 1.1/4"	309	62.8	67.3	9.6	527	A	**45,80**

110/2CB

Set de chei fixe in cutie de carton



	№					
600155	**110/2CB**		6 - 22 / 8	725	F	**132.92**
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)					
600156	**110/2CB**		6 - 32 / 12	2165	F	**265.76**
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)					
600158	**110/2CB**		6 - 41 / 13	3005	F	**373.82**
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32, 36 x 41)					
603345	**110/2CB**		6 - 27 / 10	1265	F	**193.60**
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27)					
605533	**110/2CB**		1/4" - 3/4" / 8	600	F	**137.94**
	110/2 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4")					
605534	**110/2CB**		1/4" - 1.1/4" / 12	1995	F	**280.68**
	110/2 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4")					

110/2CS

Set de chei fixe in cutie de carton



№					
602846	110/2CS	6 - 22 / 8	790	G	132.92
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/2CT

Set de chei fixe in husa



№					
615466	110/2CT	6 - 22 / 8	791	E	197.30
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **CT110** (430 x 275)				



110/2PB

Set de chei fixe in husa de plastic



№					
600159	110/2PB	6 - 17 / 6	391	E	87.12
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17)				
600160	110/2PB	6 - 22 / 8	728	E	132.92
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/2PH

Set de chei fixe in suport de plastic



№					
610836	110/2PH	6 - 22 / 8	890	F	140.10
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

110/2MS

Set de chei fixe cu suport metalic



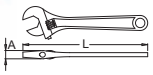
№					
605529	110/2MS	6 - 32 / 12	2750	F	317.33
	110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **977/1** (6 - 32/12)				
605535	110/2MS	1/4" - 1.1/4" / 12	2650	F	332.29
	110/2 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4"), **977/1** (6 - 32/12)				

250/1

Cheie reglabila

- *material: crom vanadiu*
- *acoperire: cromare conform EN 12540*
- *capete polizate*
- *cu scala*
- *forjata, calire si revenire totala*
- *in conformitate cu standardul ISO 6787*





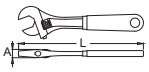
		L	A				
611917	100	110	9.8	17	61	A	**71.98**
611918	150	155.5	11.7	23	133	A	**77.22**
601016	200	205	14.4	28	243	A	**87.69**
601017	250	254	16.9	32	439	A	**108.68**
601018	300	303.5	19.1	38	702	C	**146.96**
601019	380	375	23.8	50	1315	C	**263.03**
605113	450	458.5	26.3	60	1730	C	**414.70**
615148	600	608	29.7	70	3240	C	**885.46**

250/1ADP

Cheie reglabila

- *material: crom vanadiu*
- *acoperire: cromare conform EN 12540*
- *capete polizate*
- *cu scala*
- *manere din doua straturi de plastic*
- *in conformitate cu standardul ISO 6787*

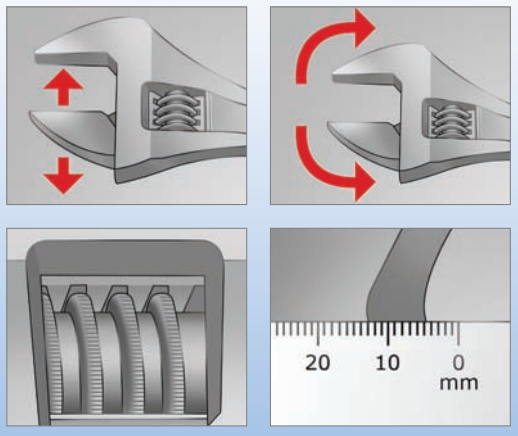


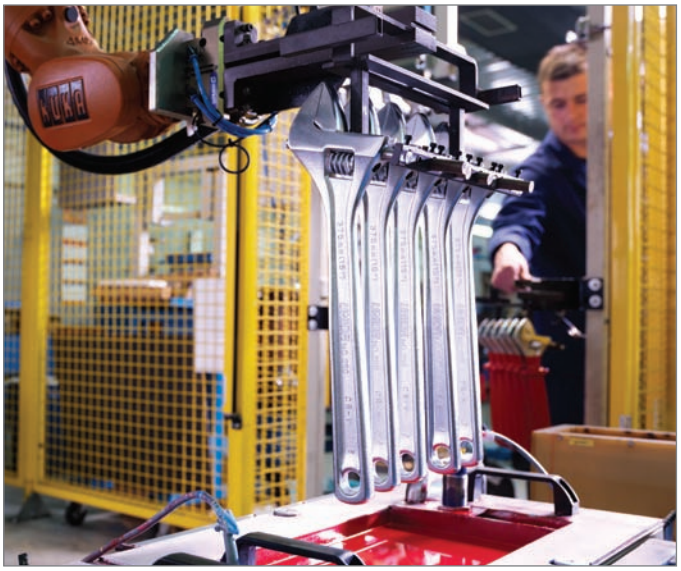


		L	A				
617246	200	205	14.8	28	280	A	**101.82**
617247	250	254	17	32	490	A	**118.62**
617248	300	304	20	38	785	C	**154.48**
617249	380	381	25.5	50	1395	C	**281.60**

CARACTERISTICI ALE:

250/1, 250/1ADP, 251/4





250.1/1

Parti de schimb pentru cheile reglabile 250, 250 A



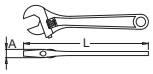
611978	100	16	E	**13.90**
611979	150	30	E	**14.87**
602070	200	55	E	**16.50**
602071	250	95		**20.37**
602072	300	123	E	**24.55**
602073	380	224	E	**30.54**
602069	450	320	E	**51.30**
615149	600	511	E	**92.80**

251/4

Cheie reglabila

- *material: crom vanadiu*
- *acoperire: cromare conform EN 12540*
- *rotire stanga*
- *cu scala*
- *forjata, calire si revenire totala*
- *in conformitate cu standardul ISO 6787*





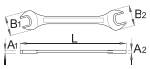
		L	A				
612870	150	155.7	11.7	20	137	A	**74.80**
612871	200	204.3	14.4	25	257	A	**84.79**
612872	250	254	16.9	30	447	A	**105.07**
612873	300	303.5	19.1	36	700	C	**142.03**

112/2

Cheie fixa dubla

- *material: otel carbon de scule*
- *acoperire: cromare conform EN 12540*
- *executie in concordata cu standardul DIN 895*
- *forjata, calire si revenire totala*





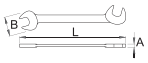
		L	B1	B2	A1	A2			
602081	6 x 7	97	15	17	3	3.2	11	A	**6,42**
602082	8 x 10	115	18	22	4.2	4.2	20	A	**6,60**
613222	10 x 11	122	23	24.5	5	5	35	A	**7,26**
605045	10 x 12	128	22	28	5	5	37	A	**7,26**
603611	10 x 13	137	26	28.5	5.2	5.2	43	A	**7,26**
602083	11 x 13	132	26	28.5	5	5.4	41	A	**7,26**
602084	12 x 14	146	28	32	5.5	5.5	52	A	**7,83**
612773	13 x 14	146	28	32	5.5	5.5	43	A	**8,58**
602085	13 x 15	152	28	32	6	6	63	A	**8,62**
603134	13 x 17	158	30	35	6.5	6.5	65	A	**8,80**
612774	14 x 15	137	26	28.5	5.4	5.4	51	A	**9,02**
602086	14 x 17	158	30	35	6.5	6.5	62	A	**9,15**
602087	17 x 19	170	35	40	7	7	94	A	**11,84**
602088	19 x 22	197	42	48	8	8	138	A	**14,30**
605921	21 x 23	217	46	51	9	9	187	A	**17,42**

114/2

Chei fixe duble mici pentru electric

- *material: otel carbon de scule*
- *acoperire: cromare conform EN 12540*
- *capul cheii este tratat in intregime*





		L	B	A			
618623	3.2	75	10	2	2	A	**11,31**
618624	3.5	75	10	2	2	A	**11,31**
618625	4	75	10.5	2	2	A	**11,31**
618626	4.5	75	10.5	2	2	A	**11,31**
618627	5	85	12	2	4	A	**12,41**
618628	5.5	85	12.2	2	4	A	**12,41**
618629	6	85	12.5	2	4	A	**12,41**
618630	7	95	14.5	2	6	A	**13,46**
618631	8	95	16.5	2	7	A	**13,46**
618632	9	110	19	3	17	A	**15,36**
618633	10	110	21	3	18	A	**15,36**
618634	11	110	23.5	3	20	A	**15,36**
618635	12	125	24	3	30	A	**18,61**
618636	13	125	27.5	3	33	A	**18,61**
618637	14	125	28	3	33	A	**18,61**
618638	15	135	30	3	38	A	**21,60**
618639	16	135	32	3	39	A	**21,60**
618640	17	135	34	3	41	A	**21,60**
618641	7/32"	85	12.2	2	4	A	**12,41**
618643	9/32"	95	14.5	2	6	A	**13,46**
618642	11/32"	110	19	3	17	A	**15,36**

114/2PB

Set chei fixe mici pentru ELECTRICIENI



	№				
619287	**114/2PB**	3.2 - 14 / 15	292	E	**211.51**
	114/2 (3.2, 3.5, 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14)				

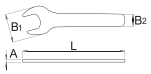
135/2

Cheie fixa simpla pentru gaz

- *acoperire: cromare conform EN 12540*
- *confectionat din tabla*







		L	B1	B2	A			
600262	27	187	52	22	4	149	A	**16.32**



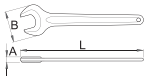
117/4

Cheie fixa simpla

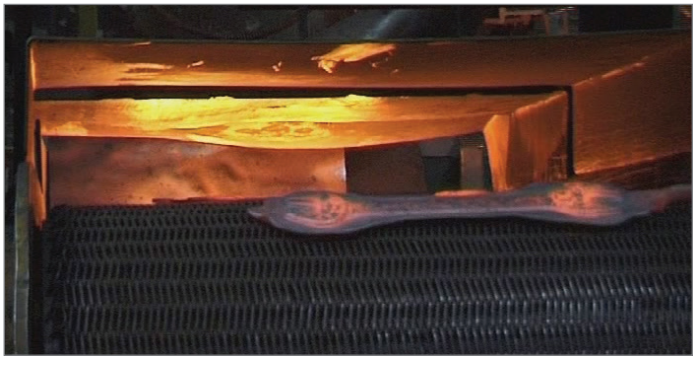
- *material: crom vanadiu*
- *acoperire: prin brunare conform cu standardul DIN 12476*
- *aplicatii: in industrie pentru lucrari la utilaje, motoare si alte echipamente*
- *dimensiunile mari sunt utile in industria navala, industria petroliera si alte sectoare grele unde se utilizeaza echipamente mari*
- *cheia este special destinata pentru lucrari ce necesita momente de torsiune mari si parghii mai lungi pentru actionare*
- *forjata, calire si revenire totala*
- *executie in conformitate cu standardul DIN 894*







		L	A	B			
615262	10	104	4.5	22	21	A	6,95
620207	12	123	5	26	29	A	6,95
615263	13	132	5.4	28	35	A	8,23
615264	17	157	5.9	36	68	A	8,54
615265	19	170	6.9	40	78	A	10,52
615266	21	195	7.9	46	98	A	10,52
615267	22	195	7.9	46	106	A	12,45
615268	24	218	8.7	50	147	A	16,68
615269	27	240	9.7	56	192	A	19,62
615270	30	265	10.7	62	297	A	23,58
615271	32	275	11.7	66	297	A	26,22
615272	34	275	11.7	70	399	C	32,91
615273	36	295	12.5	74	438	C	36,08
615274	38	295	12.5	74	390	C	40,35
615275	41	335	13.5	84	537	C	43,52
615276	46	365	14.5	94	747	C	53,11
615277	50	400	15.5	102	890	C	62,52
615278	55	475	16	110	1170	C	128,35
615279	60	475	17	120	1365	C	157,39
615280	65	550	18	130	1665	C	219,78
615281	70	550	19	140	1995	C	265,89
615282	75	620	20	150	2995	C	306,20
615283	80	620	21	160	3895	C	368,28
615284	85	665	22	170	3845	C	462,40
615285	90	740	23	190	4795	C	565,71
615286	95	740	23	190	5565	C	718,52
615287	100	800	24	200	6995	C	818,22

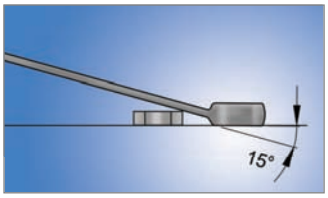


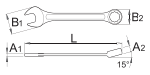
120/1

Chei combinate, varianta lunga

- *material: crom vanadiu*
- *acoperire: cromare conform EN 12540*
- *capete polizate*
- *partea inelara cu profil de protectie*
- *forjata, calire si revenire totala*
- *in concordanta cu standardul ISO 7738 (numai dimensiunile in mm)*







		L	B2	B1	A2	A1			
600357	6	119	10.4	14.5	5	3.5	14	A	16,24
600358	7	129	11.5	16.5	5.8	3.9	15	A	16,32
600359	8	141	13.2	18.5	6.9	3.9	23	A	16,76
600360	9	152	14.3	21	7.3	4	27	A	19,01
600361	10	163	15.9	23	7.5	4.2	37	A	20,46
600362	11	176	17.8	24.5	8	4.5	45	A	21,52
600363	12	186	19.4	26.5	8.5	4.7	55	A	22,79
600364	13	199	20.4	29.5	8.5	5.2	68	A	24,33
600365	14	210	22	31.5	9	5.2	82	A	24,95
600366	15	222	23.2	33.5	9.5	5.7	96	A	26,84
600367	16	234	24.8	36	10.5	6.2	121	A	27,24
600368	17	245	26.1	38	10.5	6.7	144	A	29,13
600369	18	257	27.7	40	11	7.2	165	A	30,98
600370	19	268	29.3	42	12	7.2	186	A	33,13
600371	20	280	31	44	12.5	7.7	225	A	35,33
600372	21	291	32.6	45.5	13	8.2	251	A	37,71
600373	22	303	34.1	46.5	13	8.2	266	A	40,74
600374	23	314	35.7	50.5	13	8.2	300	A	46,11
600375	24	330	37.3	52.5	14	8.5	382	A	47,56
600376	25	337	39	54.5	14.5	8.5	377	A	52,98
600377	26	349	40.1	56	15	8.5	422	A	54,69
600378	27	360	41.6	57.5	15	9	453	A	60,28
600379	28	373	43.2	59.5	15.5	9	532	A	65,30
600380	29	383	44.9	61.5	16	9.5	567	A	70,44
600381	30	395	46.5	63.5	16	10	632	A	74,58
600382	32	416	49	68	16.5	10.5	719	A	80,48
607019	35	500	53.5	78.8	20	13.6	1405	C	124,74
602601	36	500	53.5	78.8	20	13.6	1415	C	131,96
605838	38	515	58	82.8	20.5	14.1	1310	C	142,60
602602	41	540	62	86.8	21	14.6	2025	C	168,26
618514	46	560	69	94	23	16	2445	C	290,40
618517	50	580	75	103	24	17	1955	C	335,46
618491	1/4"	119	10.4	14.5	5	3.5	14	A	16,24
618492	5/16"	142	13.2	18.5	6.9	3.9	23	A	16,76
618493	3/8"	153	14.3	21	7.3	4	27	A	20,46
618494	7/16"	176	17.8	24.5	8	4.5	45	A	21,52
618495	1/2"	199	20.4	29.5	8.5	5.2	68	A	24,33
618496	9/16"	211	22	31.5	9	5.2	82	A	24,95
618497	5/8"	234	24.8	36	10.5	6.2	121	A	27,24
618498	11/16"	245	26.1	38	10.5	6.7	144	A	30,98
618499	3/4"	268	29.3	42	12	7.2	186	A	33,13
618500	13/16"	291	32.6	45.5	13	8.2	251	A	37,71

		L	B2	B1	A2	A1			
618501	7/8"	303	34.1	46.5	13	8.2	266	A	**40,74**
618502	15/16"	330	37.3	52.5	14	8.5	382	A	**47,56**
618503	1"	337	39	54.5	14.5	8.5	377	A	**52,98**
618504	1.1/16"	360	41.6	57.5	15	9	453	A	**60,28**
618505	1.1/8"	372	43.2	59.5	15.5	9	532	A	**65,30**
618506	1.1/4"	417	49	68	16.5	10.5	719	A	**74,58**
618507	1.5/16"	417	49	68	16.5	10.5	732	C	**80,48**
618508	1.3/8"	500	53.5	78.8	20	13.6	1425	C	**171,20**
618509	1.7/16"	500	53.5	78.8	20	13.6	1395	C	**171,20**
618510	1.1/2"	500	53.5	78.8	20	13.6	1335	C	**171,20**
618511	1.5/8"	540	62	86.8	21	14.6	1975	C	**215,20**
618512	1.11/16"	540	62	86.8	21	14.6	1995	C	**215,20**
618513	1.3/4"	560	69	94	23	16	2435	C	**301,62**
618515	1.13/16"	560	69	94	23	16	2495	C	**301,62**
618516	1.7/8"	560	69	94	23	16	2445	C	**301,62**
618518	2"	580	75	103	24	17	2985	C	**339,33**

120/1CB

Set chei combinate lungi in cutie de carton



	№				
600383	**120/1CB**	6 - 22 / 17	1930	F	**443.43**
	120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)				
600384	**120/1CB**	6 - 32 / 26	6200	F	**995.81**
	120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32)				
611019	**120/1CB**	8 - 22 / 10	1105	F	**260.66**
	120/1 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)				
611020	**120/1CB**	10 - 30 / 12	2611	F	**426.32**
	120/1 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)				
619397	**120/1CB**	1/4" - 3/4" / 9	777	F	**215.64**
	120/1 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")				
619398	**120/1CB**	1/4" - 1.1/4" / 16	3720	F	**594.79**
	120/1 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")				

120/1CS

Set de chei combinate lungi in cutie de carton



	№				
603709	**120/1CS**	8 - 19 / 8	770	G	**190.56**
	120/1 (8, 9, 10, 12, 13, 14, 17, 19)				

120/1CT

Set de chei combinate lungi in husa



	№				
615475	**120/1CT**	8 - 22 / 8	1050	E	**287.54**
	120/1 (8, 10, 11, 13, 15, 17, 19, 22), **CT129** (470 x 330)				

120/1MS

Set de chei combinate lungi cu suport metalic



	№				
605537	**120/1MS**	6 - 22 / 17	2765	F	**493.02**
	120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **977/2** (6 - 22/17)				



120/1PH

Set de chei combinate lungi in suport de plastic



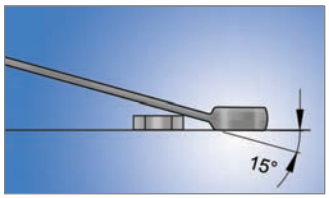
	№				
610837	120/1PH	8 - 19 / 8	865	F	197,43
	120/1 (8, 9, 10, 12, 13, 14, 17, 19)				
610838	120/1PH	8 - 18 / 8	827	F	193,42
	120/1 (8, 9, 10, 12, 13, 14, 16, 18)				

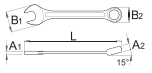
120/2

Chei combinate, varianta lunga

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *partea inelara cu profil de protectie*
- *forjata, calire si revenire totala*
- *in concordanta cu standardul ISO 7738 (numai dimensiunile in mm)*







		mm	L	B2	B1	A2	A1			
616745		3.2	105	8	14	4	3.2	11	A	19,45
616746		4	105	8	14	4	3.2	11	A	19,45
616747		4.5	105	8	14	4	3.2	7	A	19,45
616748		5	119	10.4	14.5	5	3.5	7	A	19,45
616749		5.5	119	10.4	14.5	5	3.5	15	A	19,45
600386		6	119	10.4	14.5	5	3.5	14	A	15,44
600387		7	129	11.5	16.5	5.8	3.9	15	A	15,62
600388		8	141	13.2	18.5	6.9	3.9	23	A	16,10
600389		9	152	14.3	21	7.3	4	27	A	18,08
600390		10	163	15.9	23	7.5	4.2	37	A	19,58
600391		11	176	17.8	24.5	8	4.5	45	A	20,55
600392		12	186	19.4	26.5	8.5	4.7	55	A	21,56
600393		13	199	20.4	29.5	8.5	5.2	68	A	23,10
600394		14	210	22	31.5	9	5.2	82	A	23,89
600395		15	222	23.2	33.5	9.5	5.7	96	A	25,74
600396		16	234	24.8	36	10.5	6.2	121	A	26,14
600397		17	245	26.1	38	10.5	6.7	144	A	27,98
600398		18	257	27.7	40	11	7.2	165	A	29,88
600399		19	268	29.3	42	12	7.2	186	A	31,55
600400		20	280	31	44	12.5	7.7	225	A	33,66

		mm	L	B2	B1	A2	A1			
600401		21	291	32.6	45.5	13	8.2	251	A	36,12
600402		22	303	34.1	46.5	13	8.2	266	A	38,98
600403		23	314	35.7	50.5	13	8.2	300	A	44,09
600404		24	330	37.3	52.5	14	8.5	382	A	45,45
600405		25	337	39	54.5	14.5	8.5	377	A	50,51
600406		26	349	40.1	56	15	8.5	422	A	52,18
600407		27	360	41.6	57.5	15	9	453	A	57,82
600408		28	373	43.2	59.5	15.5	9	532	A	62,44
600409		29	383	44.9	61.5	16	9.5	567	A	67,28
600410		30	395	46.5	63.5	16	10	632	A	71,37
600411		32	416	49	68	16.5	10.5	719	A	77,00
607020		35	500	53.5	78.8	20	13.6	1370	C	119,24
602689		36	500	53.5	78.8	20	13.6	1385	C	126,24
605839		38	515	58	82.8	20.5	14.1	1330	C	136,36
602690		41	540	62	86.8	21	14.6	1955	C	160,78
616750		46	560	69	94	23	16	2480	C	282,26
616751		50	580	75	103	24	17	2855	C	338,01
616752		55	600	83	112	26	18	3395	C	397,85
616753		60	620	91	120	28	20	4120	C	445,98
616754		65	640	100	130	30	21	5205	C	879,21
616755		70	660	108	140	32	23	5995	C	970,77
616756		75	680	116	150	34	24	6995	C	1.102,51
616757		80	700	124	160	36	26	8595	C	1.288,58
618519		1/4"	119	10.4	14.5	5	3.5	14	A	15,44
618520		5/16"	142	13.2	18.5	6.9	3.9	23	A	16,10
618521		3/8"	153	14.3	21	7.3	4	27	A	18,08
618522		7/16"	176	17.8	24.5	8	4.5	45	A	20,55
618523		1/2"	199	20.4	29.5	8.5	5.2	68	A	21,56
618524		9/16"	211	22	31.5	9	5.2	82	A	23,89
618525		5/8"	234	24.8	36	10.5	6.2	121	A	26,14
618526		11/16"	245	26.1	38	10.5	6.7	144	A	29,88
618527		3/4"	268	29.3	42	12	7.2	186	A	33,66
618528		13/16"	291	32.6	45.5	13	8.2	251	A	36,12
618529		7/8"	303	34.1	46.5	13	8.2	266	A	38,98
618530		15/16"	330	37.3	52.5	14	8.5	382	A	45,45
618531		1"	337	39	54.5	14.5	8.5	377	A	50,51
618532		1.1/16"	360	41.6	57.5	15	9	453	A	52,18
618533		1.1/8"	372	43.2	59.5	15.5	9	532	A	57,82
618534		1.1/4"	417	49	68	16.5	10.5	719	A	71,37
618535		1.5/16"	417	49	68	16.5	10.5	745	C	77,00
618536		1.3/8"	500	53.5	78.8	20	13.6	1380	C	142,96
618537		1.7/16"	500	53.5	78.8	20	13.6	1375	C	142,96
618538		1.1/2"	500	53.5	78.8	20	13.6	1355	C	142,96
618539		1.5/8"	540	62	86.8	21	14.6	2005	C	185,33
618540		1.11/16"	540	62	86.8	21	14.6	2005	C	185,33
618541		1.3/4"	560	69	94	23	16	2465	C	265,50
618542		1.13/16"	560	69	94	23	16	2470	C	265,50
618543		1.7/8"	560	69	94	23	16	2445	C	265,50
618544		2"	580	75	103	24	17	2995	C	307,78



120/2CB

Set chei combinate lungi in cutie de carton



	№					
600412	120/2CB		6 - 22 / 17	1950	F	423,94
	120/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)					
600413	120/2CB		6 - 32 / 26	6385	F	952,12
	120/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32)					
603670	120/2CB		8 - 22 / 10	1100	F	249,04
	120/2 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)					
603671	120/2CB		10 - 30 / 12	2565	F	407,62
	120/2 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)					
619399	120/2CB		1/4" - 3/4" / 9	777	F	205,26
	120/2 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")					
619400	120/2CB		1/4" - 1.1/4" / 16	3795	F	557,74
	120/2 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")					

120/2CS

Set de chei combinate lungi in cutie de carton



	№					
603710	120/2CS		8 - 19 / 8	775	G	181,85
	120/2 (8, 9, 10, 12, 13, 14, 17, 19)					

120/2CT

Set de chei combinate lungi in husa



	№					
615476	120/2CT		8 - 22 / 8	1110	E	281,29
	120/2 (8, 10, 11, 13, 15, 17, 19, 22), **CT129** (470 x 330)					

120/2MS

Set de chei combinate lungi cu suport metalic



	№					
605538	120/2MS		6 - 22 / 17	2780	F	475,55
	120/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **977/2** (6 - 22/17)					

120/2PH

Set de chei combinate lungi in suport de plastic



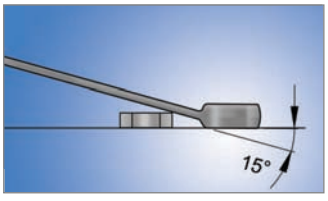
	№					
610839	120/2PH		8 - 19 / 8	862	F	189,02
	120/2 (8, 9, 10, 12, 13, 14, 17, 19)					
610840	120/2PH		8 - 18 / 8	835	F	185,46
	120/2 (8, 9, 10, 12, 13, 14, 16, 18)					

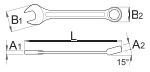
125/1

Chei combinate, varianta scurta

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *partea inelara cu profil de protectie*
- *forjata, calire si revenire totala*
- *in concordanta cu standardul ISO 7738 (numai dimensiunile in mm)*







	mm	L	B2	B1	A2	A1			
600414	6	100	10.4	14.5	5	3.5	11	A	15,00
600415	7	109	11.5	16.5	5.8	3.9	15	A	15,14

		L	B2	B1	A2	A1			
600416	8	119	13.2	18.5	6.9	3.9	20	A	15,75
600417	9	123	14.3	21	7.3	4	25	A	17,25
600418	10	128	15.9	23	7.5	4.2	29	A	19,01
600419	11	135	17.8	24.5	8	4.5	35	A	19,98
600420	12	139	19.4	26.5	8.5	4.7	45	A	20,99
600421	13	150	20.4	29.5	8.5	5.2	54	A	21,91
600422	14	160	22	31.5	9	5.2	63	A	22,79
600423	15	170	23.2	33.5	9.5	5.7	78	A	24,33
600424	16	180	24.8	36	10.5	6.2	95	A	25,12
600425	17	190	26.1	38	10.5	6.7	121	A	26,84
600426	18	200	27.7	40	11	7.2	135	A	28,73
600427	19	210	29.3	42	12	7.2	157	A	30,49
600428	20	220	31	44	12.5	7.7	186	A	32,38
600429	21	230	32.6	45.5	13	8.2	198	A	34,76
600430	22	247	34.1	46.5	13	8.2	230	A	37,49
602089	23	250	35.7	50.5	13	8.2	254	A	42,24
602090	24	266	37.3	52.5	14	8.5	300	A	43,56
602091	25	270	39	54.5	14.5	8.5	330	A	48,22
602092	26	275	40.1	56	15	8.5	342	A	50,16
602093	27	292	41.6	57.5	15	9	365	A	55,57
602094	28	296	43.2	59.5	15.5	9	432	A	59,88
602095	29	300	44.9	61.5	16	9.5	455	A	64,90
602096	30	323	46.5	63.5	16	10	522	A	68,46
602097	32	343	49	68	16.5	10.5	602	A	74,18
618562	35	400	54	78.8	20	13.6	1165	C	151,36
603332	36	400	54.5	79.5	20	13.5	1115	C	121,40
618564	38	400	54	78.8	20	14.6	1130	C	151,36
618566	41	420	62	86.8	21	14.6	1575	C	201,34
618570	46	440	69	94	23	16	1985	C	249,88
618573	50	480	75	103	24	17	2455	C	288,60
605360	1/4"	100	10.4	14.5	5	3.5	11	A	15,88
618655	9/32"	109	16.5	11.5	3.9	5.8	15	A	15,14
605361	5/16"	119	13.2	18.5	6.9	3.9	20	A	16,46
618654	11/32"	123	21	14.3	4	7.3	25	A	17,25
605362	3/8"	128	14.3	21	7.3	4	25	A	18,08
605363	7/16"	135	17.8	24.5	8	4.5	35	A	21,21
605364	1/2"	150	20.4	29.5	8.5	5.2	54	A	23,50
605365	9/16"	160	22	31.5	9	5.2	63	A	24,46
605366	5/8"	180	24.8	36	10.5	6.2	95	A	26,66
605367	11/16"	190	26.1	38	10.5	6.7	121	A	28,34
605368	3/4"	210	29.3	42	12	7.2	157	A	32,08
607857	13/16"	230	32.6	45.5	13	8.2	198	A	34,76
605369	7/8"	247	34.1	46.5	13	8.2	230	A	39,42
605370	15/16"	266	37.3	52.5	14	8.5	300	A	46,11
605371	1"	270	39	54.5	14.5	8.5	330	A	51,08
605372	1.1/16"	292	41.6	57.5	15	9	365	A	58,08
605373	1.1/8"	296	43.2	59.5	15.5	9	432	A	62,66
605374	1.1/4"	343	49	68	16.5	10.5	602	A	76,69
618560	1.5/16"	343	49	68	16.5	10.5	595	C	59,09
618561	1.3/8"	400	53.5	78.8	20	13.6	1155	C	153,34
618563	1.7/16"	400	53.5	78.8	20	13.6	1155	C	153,34
618565	1.1/2"	400	53.5	78.8	20	13.6	1145	C	153,34
618567	1.5/8"	420	62	86.8	21	14.6	1665	C	203,94
618568	1.11/16"	420	62	86.8	21	14.6	1615	C	203,94
618569	1.3/4"	440	69	94	23	16	2055	C	203,94
618571	1.13/16"	440	69	94	23	16	2070	C	253,09
618572	1.7/8"	440	69	94	23	16	1960	C	253,09
618574	2"	460	75	103	24	17	2425	C	292,34

125/1CB

Set de chei combinate scurte in cutie de carton



	№				
600431	125/1CB	6 - 22 / 17	1590	F	407,88
	125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)				
602098	125/1CB	6 - 32 / 26	5240	F	915,11
	125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32)				
605541	125/1CB	3/8" - 1" / 8	1025	F	236,54
	125/1 (3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1")				
605542	125/1CB	1/4" - 1.1/4" / 15	2930	F	540,80
	125/1 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")				
611021	125/1CB	8 - 22 / 10	893	F	239,58
	125/1 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)				
611022	125/1CB	10 - 30 / 12	2100	F	391,42
	125/1 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)				

125/1CS

Set de chei combinate scurte in cutie de carton



	№				
603711	125/1CS	8 - 19 / 8	650	G	174,99
	125/1 (8, 9, 10, 12, 13, 14, 17, 19)				

125/1CT

Set de chei combinate scurte in husa



	№				
615478	125/1CT	8 - 22 / 8	851	E	257,62
	125/1 (8, 10, 11, 13, 15, 17, 19, 22), CT110 (430 x 275)				
619504	125/1CT	3/8" - 3/4" / 7	653	E	208,56
	125/1 (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")				

	№				
619505	125/1CT	3/8" - 7/8" / 9	1107	E	254,36
	125/1 (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8")				
619506	125/1CT	3/8" - 1" / 11	1810	E	352,97
	125/1 (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1")				
619507	125/1CT	3/8" - 1.1/4" / 14	3296	E	553,34
	125/1 (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")				

125/1MS

Set de chei combinate scurte cu suport metalic



	№				
605539	125/1MS	6 - 22 / 17	2200	F	457,47
	125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **977/3** (6 - 22/17)				

125/1PH

Set de chei combinate scurte in suport de plastic



	№				
610841	125/1PH	8 - 19 / 8	745	F	181,81
	125/1 (8, 9, 10, 12, 13, 14, 17, 19)				
610842	125/1PH	8 - 18 / 8	689	F	178,38
	125/1 (8, 9, 10, 12, 13, 14, 16, 18)				

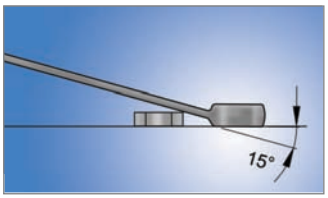


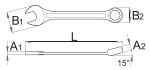
125/2

Chei combinate, varianta scurta

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *partea inelara cu profil de protectie*
- *forjata, calire si revenire totala*
- *in concordanta cu standardul ISO 7738 (numai dimensiunile in mm)*







		L	B2	B1	A2	A1			
618649	3.2	77	4.2	9.6	3	3	7	A	20,64
618650	4	77	4.2	9.6	3	3	7	A	20,64
618651	5	84	5.8	12	3	3	9	A	22,13
618652	5.5	84	5.8	12	3	3	9	A	22,13
602099	6	100	10.4	14.5	5	3.5	11	A	14,26
602100	7	109	11.5	16.5	5.8	3.9	15	A	14,70
602101	8	119	13.2	18.5	6.9	3.9	20	A	15,00
602102	9	123	14.3	21	7.3	4	25	A	16,54
602103	10	128	15.9	23	7.5	4.2	29	A	18,08
602104	11	135	17.8	24.5	8	4.5	35	A	19,10
602105	12	139	19.4	26.5	8.5	4.7	45	A	20,20
602106	13	150	20.4	29.5	8.5	5.2	54	A	20,99
602107	14	160	22	31.5	9	5.2	63	A	21,56
602108	15	170	23.2	33.5	9.5	5.7	78	A	23,10
602109	16	180	24.8	36	10.5	6.2	95	A	24,02
602110	17	190	26.1	38	10.5	6.7	121	A	25,74
602111	18	200	27.7	40	11	7.2	135	A	27,54
602112	19	210	29.3	42	12	7.2	157	A	29,22
602113	20	220	31	44	12.5	7.7	186	A	30,89
602114	21	230	32.6	45.5	13	8.2	198	A	32,91
602115	22	247	34.1	46.5	13	8.2	230	A	35,99
602116	23	250	35.7	50.5	13	8.2	254	A	40,48
602117	24	266	37.3	52.5	14	8.5	300	A	41,58
602118	25	270	39	54.5	14.5	8.5	330	A	46,38
602119	26	275	40.1	56	15	8.5	342	A	48,09
602120	27	292	41.6	57.5	15	9	365	A	52,93
602121	28	296	43.2	59.5	15.5	9	432	A	57,82
602122	29	300	44.9	61.5	16	9.5	455	A	61,95
602123	30	323	46.5	63.5	16	10	522	A	65,30
602124	32	343	49	68	16.5	10.5	602	A	70,84
603333	36	400	54.5	79.5	20	13.5	1145	C	115,94
618653	7/32"	84	5.8	12	3	3	9	A	15,62
605470	1/4"	100	10.4	14.5	5	3.5	11	A	14,92
605471	5/16"	119	13.2	18.5	6.9	3.9	20	A	15,62
605472	3/8"	128	14.3	21	7.3	4	25	A	17,12
605473	7/16"	135	17.8	24.5	8	4.5	35	A	19,76
605474	1/2"	150	20.4	29.5	8.5	5.2	54	A	22,09
605475	9/16"	160	22	31.5	9	5.2	63	A	22,79
605476	5/8"	180	24.8	36	10.5	6.2	95	A	25,17
605477	11/16"	190	26.1	38	10.5	6.7	121	A	26,80
605478	3/4"	210	29.3	42	12	7.2	157	A	30,10
607858	13/16"	230	32.6	45.5	13	8.2	198	A	32,91
605479	7/8"	247	34.1	46.5	13	8.2	230	A	37,22
605480	15/16"	266	37.3	52.5	14	8.5	300	A	43,47
605481	1"	270	39	54.5	14.5	8.5	330	A	49,24

			L	B2	B1	A2	A1			
605482		1.1/16"	292	41.6	57.5	15	9	365	A	56,32
605483		1.1/8"	296	43.2	59.5	15.5	9	432	A	60,41
605484		1.1/4"	343	49	68	16.5	10.5	602	A	74,54

125/2CB

Set de chei combinate scurte in cutie de carton



	№					
602125	125/2CB		6 - 22 / 17	1610	F	389,88
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)					
602126	125/2CB		6 - 32 / 26	5265	F	875,20
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32)					
605543	125/2CB		3/8" - 1" / 8	1040	F	223,48
	125/2 (3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1")					
605544	125/2CB		1/4" - 1.1/4" / 15	2930	F	515,59
	125/2 (1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4")					
603347	125/2CB		8 - 22 / 10	905	F	228,98
	125/2 (8, 10, 11, 12, 13, 14, 15, 17, 19, 22)					
603348	125/2CB		10 - 30 / 12	2120	F	373,74
	125/2 (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30)					

125/2CS

Set de chei combinate scurte in cutie de carton



	№				
603712	125/2CS	8 - 19 / 8	655	G	167,29
	125/2 (8, 9, 10, 12, 13, 14, 17, 19)				

125/2CT

Set de chei combinate scurte in husa



	№				
615479	125/2CT	8 - 22 / 8	862	E	251,50
	125/2 (8, 10, 11, 13, 15, 17, 19, 22), **CT110** (430 x 275)				

125/2MS

Set de chei combinate scurte cu suport metalic



	№				
605540	125/2MS	6 - 22 / 17	2160	F	441,45
	125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **977/3** (6 - 22/17)				

125/2PH

Set de chei combinate scurte in suport de plastic



	№				
610843	125/2PH	8 - 19 / 8	735	F	174,46
	125/2 (8, 9, 10, 12, 13, 14, 17, 19)				
610844	125/2PH	8 - 18 / 8	723	F	171,07
	125/2 (8, 9, 10, 12, 13, 14, 16, 18)				

129/1

Chei combinate IBEX

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *partea inelara cu profil de protectie*
- *Forta actioneaza pe flanc pentru a nu deforma interiorul unghiului*
- *3 suprafete conducatoare pentru o mai mare forta*
- *pozitionare 100% a cheii*
- *rotirea cheii fara scoaterea acesteia*

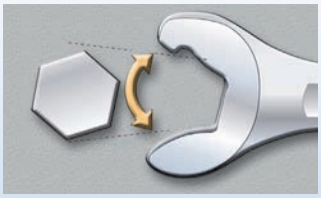


		L	B2	B1	A2	A1			
611762	8	140	13.2	18.5	6.9	3.9	22	A	18,00
611763	10	160	15.9	23	7.5	4.2	37	A	22,04
611764	11	174	17.8	24.5	8	4.5	43	A	23,10
611765	12	183	19.4	26.5	8.5	4.7	54	A	24,55
611766	13	196	20.4	29.5	8.5	5.2	63	A	26,14

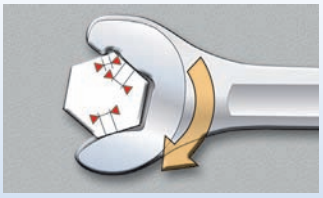
		L	B2	B1	A2	A1			
611767	14	206	22	31.5	9	5.2	75	A	**26,93**
611768	15	217	23.2	33.5	9.5	5.7	93	A	**28,82**
611769	16	227	24.8	36	10.5	6.2	114	A	**29,30**
611770	17	238	26.1	38	10.5	6.7	131	A	**31,28**
611930	18	250	28	40	11	7.2	155	A	**33,31**
611771	19	261	29.3	42	12	7.2	173	A	**36,17**
611772	22	296	34.1	46.5	13	8.2	258	A	**43,78**
611773	24	321	37.3	52.5	14	8.5	321	A	**51,13**

129/1 UTILIZARE

IBEX



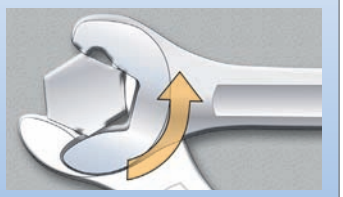
Strangerea este efectuata pe flancurile piulitei protejand varfurile acesteia



3 suprafete de contact pentru o mai mare forta de actionare



100 % pozitionare a cheii pe elementul de strans



Cheia nu se scoate de pe elementul de strans in momentul actionarii si schimbarii pozitiei acesteia

129/1CB

Set de chei combinate IBEX in cutie de carton



	№				
611776	**129/1CB**	8 - 24 / 12	1480	F	**361,20**
	129/1 (8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24)				

129/1CS

Set de chei combinate IBEX in cutie de carton



	№				
611775	**129/1CS**	8 - 19 / 8	793	G	**213,88**
	129/1 (8, 10, 12, 13, 14, 15, 17, 19)				

129/1CT

Set de chei combinate IBEX in cutie de carton



	№				
615474	**129/1CT**	8 - 22 / 8	989	E	**312,49**
	129/1 (8, 10, 11, 13, 15, 17, 19, 22), **CT129** (470 x 330)				

CT129

Husa goala

- *Dimensiune 470 x 330, pentru articolele 129,120,130,180,202*
- *fixarea velcro este pentru deschiderea si inchiderea usoara*
- *cureaua de inchidere nu este necesara*



	A	B			
615464	470	330	150	E	**86,50**

129/1PH

Set de chei combinate IBEX in suport de plastic



	№				
611774	**129/1PH**	8 - 19 / 8	890	F	**220,75**
	129/1 (8, 10, 12, 13, 14, 15, 17, 19)				
611967	**129/1PH**	8 - 18 / 8	872	F	**215,91**
	129/1 (8, 10, 12, 13, 14, 15, 16, 18)				

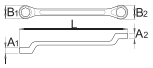
179/2

Chei inelare dublu cotite

- *material:crome vanadium*
- *acoperire cromare conform EN12540*
- *acoperire prin cromare*







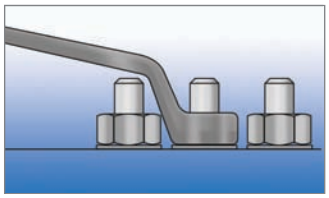
		L	B1	B2	A1	A2			
605042	21 x 22	316	34	35	17	17	657	A	70,31

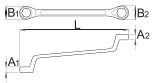
180/1

Chei inelare dublu cotite

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *partea inelara cu profil de protectie*
- *conform standardului ISO 10104 (numai pentru dimensiunile in mm)*
- *forjata, calire si revenire totala*







		L	B1	B2	A1	A2			
600509	5 x 7	145	9.5	11.8	5.5	6	31	A	20,68
600510	5.5 x 7	145	9.5	11.8	5.5	6	47	A	20,68
600511	6 x 7	178	10.3	11.8	5.5	6.1	48	A	20,15
600512	8 x 9	190	13.3	14.8	6.7	7.3	60	A	20,59
600513	8 x 10	166	13.3	16	6	8	50	A	22,31
602663	9 x 11	182	14.1	16.7	7	9	65	A	24,95
600514	10 x 11	205	16.3	17.8	7.9	8.4	81	A	22,79
602997	10 x 12	210	16.3	19.3	7.9	9	86	A	25,26
600515	11 x 12	205	16.7	17.7	9	9	87	A	25,26
600516	12 x 13	220	19.3	20.9	9	9.5	108	A	24,24
600517	12 x 14	205	17.7	20.3	9	10	95	A	26,00
600518	13 x 15	235	20.8	23.3	9.5	10.5	144	A	27,10
600519	13 x 17	258	20.8	26.3	9.5	11.5	172	A	27,94
600520	14 x 15	235	22.3	23.3	10	10.5	140	A	26,58
600521	14 x 17	257	20.5	24.3	10	12	173	A	29,57
600522	16 x 17	258	25.3	26.3	11	11.5	187	A	28,12
603123	16 x 18	259	23.6	26.5	11	12	205	A	32,65
600523	17 x 19	270	26.3	29.2	11.4	12.4	233	A	35,77
600524	18 x 19	270	28.2	29.2	11.9	12.4	230	A	32,74
600525	19 x 22	293	29.2	34.2	12.4	13.7	308	A	39,51
600526	20 x 22	295	31.2	34.2	12.8	13.7	320	A	38,41
600527	21 x 23	305	32.2	36.2	13.3	13.3	336	A	42,33
600528	22 x 24	315	34.2	37.2	13.7	13.7	368	A	47,78
600529	24 x 26	325	37.2	40.2	14.6	14.6	459	A	49,19
600530	24 x 27	325	37.2	41.2	14.6	14.6	453	A	52,80
600531	25 x 28	335	39.2	43.2	15	15	522	A	53,72
600532	27 x 29	335	41.2	44.2	15.8	15.8	589	A	67,72
600533	27 x 30	360	39.2	43.4	15	15	647	A	71,06
600534	27 x 32	360	41.2	48.2	15.8	15.8	672	A	65,21
600535	30 x 32	370	45.2	48.2	17	17	680	A	63,98
603845	30 x 34	366	43.5	48	15	15	645	C	73,04
603124	30 x 36	395	43.5	48.8	15	18	845	C	98,25
600536	32 x 36	410	48.2	54.2	17.8	19.4	915	C	98,25
600537	36 x 41	450	49	57	19	21	945	C	119,77
602664	41 x 46	472	57	62	21	23	1430	C	169,31
618659	7/32" x 15/64"	145	9.5	11.8	5.5	6.0	31	A	20,68
605375	1/4" x 5/16"	178	10.3	11.8	5.5	6.1	48	A	21,30
605376	5/16" x 3/8"	190	13.3	14.8	6.7	7.3	50	A	22,09
618660	11/32" x 13/32"	182	14.1	16.7	7.9	8.4	81	A	22,31
605377	3/8" x 7/16"	205	16.3	17.8	7.9	8.4	81	A	24,82
605378	7/16" x 1/2"	205	16.7	17.7	9	9	87	A	26,75
605379	1/2" x 9/16"	205	17.7	20.3	9	10	95	A	27,63
605380	9/16" x 5/8"	235	22.3	23.3	10	10.5	140	A	28,51
605381	5/8" x 11/16"	258	25.3	26.3	11	11.5	187	A	30,32
605382	11/16" x 3/4"	270	26.3	29.3	11.4	12.4	233	A	37,75
605383	13/16" x 7/8"	295	31.2	34.2	12.8	13.7	320	A	41,76
605384	15/16" x 1"	325	37.2	40.2	14.6	15.4	453	A	53,20
605385	1" x 1.1/8"	335	39.2	43.2	15	16.2	589	A	57,86
605386	1.1/16" x 1.1/4"	360	41.2	48.2	15.8	17.8	672	A	69,08

180/1CB

Set de chei inelare duble cotite in cutie de carton



	№				
600541	180/1CB	6 - 22 / 8	1230	F	213,66
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				
603674	180/1CB	6 - 27 / 10	2020	F	308,79
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27)				
600542	180/1CB	6 - 32 / 12	3275	F	424,12
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)				
600543	180/1CB	6 - 41 / 13	4465	F	543,88
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32, 36 x 41)				
605546	180/1CB	1/4" - 3/4" / 8	1041	F	219,21
	180/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4")				
605547	180/1CB	1/4" - 1.1/4" / 12	3100	F	441,10
	180/1 (1/4" x 5/16", 5/16" x 3/8", 3/8" x 7/16", 7/16" x 1/2", 1/2" x 9/16", 9/16" x 5/8", 5/8" x 11/16", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4")				
623191	180/1CB	7/32" - 1.1/4" / 11		F	401,32
	180/1 (7/32" x 15/64", 1/4" x 5/16", 5/16" x 3/8", 11/32" x 13/32", 7/16" x 1/2", 9/16" x 5/8", 11/16" x 3/4", 13/16" x 7/8", 15/16" x 1", 1" x 1.1/8", 1.1/16" x 1.1/4")				

180/1CS

Set de chei inelare dublu cotite in cutie de carton



	№				
602845	180/1CS	6 - 22 / 8	1320	C	213,66
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

180/1CT

Set de chei inelare dublu cotite in husa



	№				
615473	180/1CT	6 - 22 / 8	1319	E	292,69
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **CT129** (470 x 330)				



180/1PB

Set de chei inelare dublu cotite in husa de plastic



	№				
600540	180/1PB	6 - 17 / 6	668	E	142,52
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17)				
600544	180/1PB	6 - 22 / 8	1240	E	213,66
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

180/1PH

Set de chei inelare dublu cotite in husa de plastic



	№				
610845	180/1PH	6 - 22 / 8	1390	F	218,06
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				

180/1MS

Set de chei inelare dublu cotite cu suport metalic



	№				
605545	180/1MS	6 - 32 / 12	4171	F	479,03
	180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **977/4** (6 - 32/12)				

182/2A

Cheie inelara dubla dreapta cu capete drepte

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *partea inelara cu profil de protectie*
- *in concordanta cu standardul DIN 837(numai pentru dimensiunile in mm)*
- *forjata, calire si revenire totala*





		L	B1	B2	A			
612004	6 x 7	97	10	11.3	4.6	11	A	**18,22**
612005	8 x 9	112	12.7	14	5.6	19	A	**18,66**
612006	10 x 11	132	15.6	16.5	6.6	29	A	**20,55**
612007	12 x 13	147	18	19	7.6	44	A	**21,87**
613223	13 x 17	167	20.5	21.5	7.6	73	A	**23,72**
612008	14 x 15	162	20.5	21.5	7.6	59	A	**23,98**
612009	16 x 17	172	23.2	24.2	8.6	90	A	**25,39**
612010	18 x 19	186	25.9	27.4	9.6	112	A	**29,61**
612011	20 x 22	206	28.9	31.8	11	161	A	**34,67**
617634	22 x 24	231	29.9	32.9	11.2	182	A	**40,04**
612013	24 x 26	258	34.8	37.3	11.5	289	A	**44,40**
617670	24 x 27	258	34.8	37.3	11.5	256	A	**42,90**
612014	25 x 28	286	36	40.3	12.5	346	A	**48,44**
612015	27 x 29	298	38.8	41.8	13	378	A	**59,97**
617635	27 x 30	298	38.8	41.8	13	372	A	**57,95**
612016	30 x 32	318	42.7	45.2	13.5	467	A	**57,73**
617636	36 x 41	350	50	58	15	720	C	**121,62**

182/2ACB

Set de chei inelare duble drepte in cutie de carton



	№				
612567	**182/2ACB**	6 - 22 / 8	576	F	**192,94**
	182/2A (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				
612568	**182/2ACB**	6 - 32 / 12	2275	F	**441,76**
	182/2A (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 24 x 26, 25 x 28, 27 x 29, 30 x 32)				



182/2BTX

Chei inelare duble drepte cu profil TX

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *15° unghiul de inclinare al capului inelar asigura o insurubare a piulitei in locurile cu acces dificil*
- *forjata, calire si revenire totala*







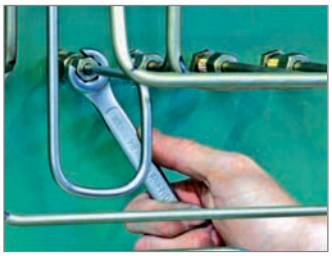
		L	B1	B2	A			
612892	6 x 8	97	10	11.3	4.6	13	A	**23,41**
612893	10 x 12	112	12.7	14	5.6	20	A	**25,08**
612894	14 x 18	137	16.5	21	6.6	38	A	**29,44**
612895	20 x 24	174	23	27.3	8.6	100	A	**37,66**

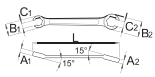
183/2

Cheie inelara dublu decupata

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *profilul pana la dimensiunea de 12x14 este in 6 puncte, de la 17x19 pana la 30x32 este in 12 puncte*
- *Aplicatii:in industrie si atelire de reparatii specializate in instalatii hidraulice si pneumatice.*
- *Cheia permite lucrul in zone dificile articulate unde utilizarea folosirea cheilor clasice nu este posibila prin natura muncii (ex:imbinarea cablurilor de otel, conducte hidraulice si de apa, valve etc)*
- *forjata, calire si revenire totala*







		L	A1	A2	B1	B2	C1	C2			
612701	8 x 10	145	7	8.5	18	20	6	7	48	A	**20,77**
612702	10 x 11	152	8.5	9	20	22	7	8.5	64	A	**23,14**
612703	11 x 13	165	9	11	22	26	8.5	10	88	A	**23,76**
612704	12 x 14	178	10	12	24	28	9	11	125	A	**25,17**
615147	16 x 18	196	12	12.5	30.5	33.5	13	14	203	A	**26,97**
612705	17 x 19	210	13	14	32	35	14	15	204	A	**28,20**
612706	19 x 22	233	14	16	35	41	15	17	242	A	**32,43**
612707	22 x 24	252	16	17	41	45	17	18	297	A	**42,33**
612708	24 x 27	265	17	17	45	48	18	20	367	A	**44,57**
612709	30 x 32	285	21	23	50	52	22	24	552	A	**58,04**

183/2CB

Set de chei inelare dublu decupate in cutie de carton



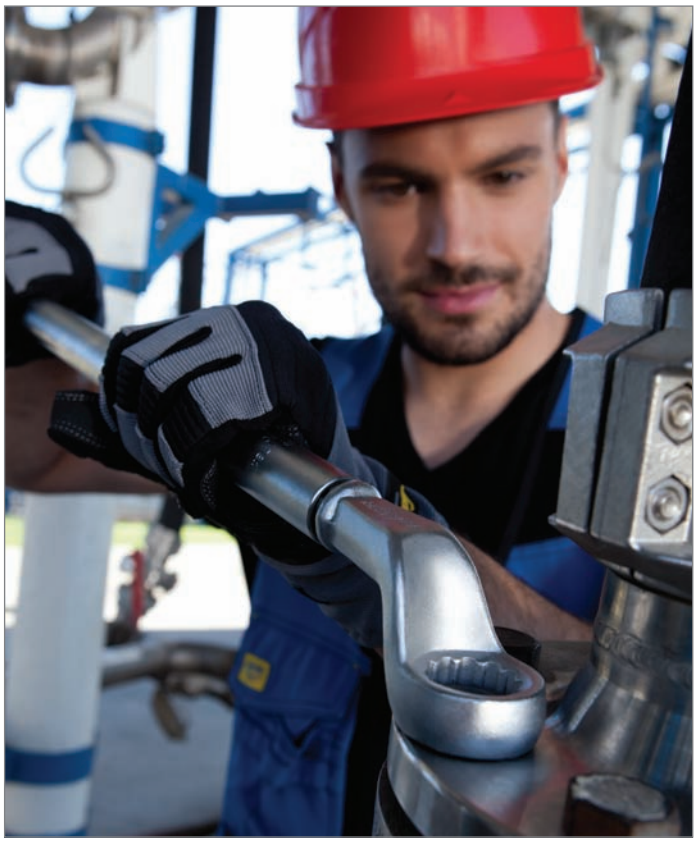
	№				
612985	183/2CB	8 - 22 / 6	824	F	153,52
	183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22)				
612986	183/2CB	8 - 32 / 9	2085	F	298,50
	183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22, 22 x 24, 24 x 27, 30 x 32)				

183/2CT

Set de chei inelare dublu decupate in husa



	№				
615467	183/2CT	8 - 24 / 6	1065	E	231,22
	183/2 (8 x 10, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 22 x 24), **CT252** (360 x 290)				



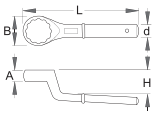
178/2

Cheie inelara simpla cotita

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*











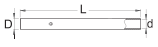
		mm	A	B	d	H	L			
620821		24	17	42	18.5	30	180	481	F	87,43
620822		27	17	42	18.5	30	180	456	F	96,54
620823		30	17	42	18.5	30	180	454	F	103,66
620824		32	18	50	20.5	35	235	733	F	115,15
620825		36	18	50	20.5	35	235	686	F	142,34
620826		41	18	55	20.5	35	235	712	F	158,84
620827		46	22	70	23.5	40	265	1208	F	178,16
620828		50	22	70	23.5	40	265	1218	F	209,44
620829		55	22	75	23.5	40	265	1156	F	232,72
620830		60	30	94	29.5	50	345	2512	F	324,94
620831		65	30	94	29.5	50	345	2582	F	458,48
620832		70	35	107	29.5	55	365	2909	F	534,64
620833		75	35	107	29.5	55	365	2850	F	512,16
620834		80	40	125	29.5	59	385	3900	F	601,04
620835		85	40	125	29.5	59	385	3741	F	801,94
620836		90	45	140	29.5	63	410	3941	F	1.029,25
620837		95	45	140	29.5	63	410	4141	F	1.219,55

178.1/2

Ax de roata pentru 178/2

- *material:crom molibden*
- *acoperire cromare conform EN12540*





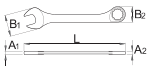
			D	d	L			
620840		24 - 30	25	19	460	744	F	91,65
620841		32 - 41	27	21	610	1049	F	128,83
620842		46 - 55	30	24	760	1509	F	167,38
620843		60 - 95	37	30	860	2476	F	226,03

160/2

Cheie combinata cu clichet

- *material: crom vanadiu*
- *tratament termic complet*
- *72-dinti, 5° unghi de lucru*
- *Clichet: lucrează in ambele sensuri, sensul de rotație se*
- *schimba din buton*





	mm	L	B2	B1	A2	A1			
622818	8	134	17,1	16,7	8,4	4,7	40	A	**45.32**
622819	9	158	21	21	8,4	5,5	55	A	**46.33**
622820	10	158	21	21	8,4	5,5	60	A	**46.33**
622821	11	164	22,6	23	9,7	6	70	A	**47.96**
622822	12	167	23,8	25	9,7	6,2	80	A	**51.48**
622823	13	177	24,9	27,5	9,7	6,0	96	A	**54.12**
622824	14	189	27	29	10,1	7	125	A	**57.77**
622825	15	198	28,1	31,5	11,7	7,2	150	A	**62.13**
622826	16	204	29,9	33	11,7	7,5	165	A	**65.78**
622827	17	224	31,9	34,9	11,7	8	183	A	**70.18**
622828	18	245	34,4	38,9	12	8,8	210	A	**77.48**
622829	19	245	34,4	38,9	19	12	230	A	**81.14**
622831	21	280	45,7	42,6	14,2	9,5	358	A	**106.74**
622832	22	280	45,7	42,6	14,2	9,5	378	A	**102.78**
622834	24	310	51,7	46,5	14,7	10	480	A	**121.84**

160/2CB

Set de chei combinate forjate cu clichet in cutie de carton



	№				
623080	**160/2CB**	8 - 24 / 9	2000	F	**643.68**
	160/2 (8, 10, 13, 16, 17, 18, 19, 22, 24)				

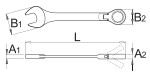


161/2

Cheie combinata cu clichet articulata

- *material: crom vanadiu*
- *tratament termic complet*
- *72-dinti, 5° unghi de lucru*
- *Clichet: lucrează in ambele sensuri, sensul de rotație se*
- *schimba din buton*





	mm	L	B2	B1	A2	A1			
622839	8	136	17,4	16,9	8,4	4,9	50	A	**62.88**
622841	10	160	20,9	20,8	8,4	3,8	72	A	**66.53**
622842	11	177,5	23,4	25,1	9,7	6,2	95	A	**66.53**
622843	12	177,5	23,4	25,1	9,7	6,2	95	A	**72.38**
622844	13	187,3	24,9	27,2	9,7	6,4	124	A	**75.28**
622845	14	194,7	27,4	29,3	10,1	7	144	A	**77.48**
622846	15	218	30,4	33	11,7	7,4	207	A	**85.54**
622848	17	234,8	31,9	35,2	11,7	8,2	236	A	**94.29**
622850	19	251,3	34,5	39,4	12	9	280	A	**101.64**

161/2CB

Set de chei combinate forjate cu clichet in cutie de carton



	№				
623081	**161/2CB**	8 - 19 / 5	1360	F	**400.02**
	161/2 (8, 10, 13, 17, 19)				

CT252

Husa goala

- *pentru articol 160, 161, 170, 171, 183*



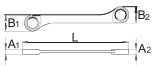
	A	B			
615155	360	290	98	E	**63.98**

170/2

Chei combinate forjate cu clichet

- *material: crom vanadiu*
- *tratament termic complet*
- *72-dinti, 5° unghi de lucru*
- *Clichet: lucrează în ambele sensuri, sensul de rotație se*
- *schimba din buton*





	mm	L	B2	B1	A2	A1			
622851	6 x 8	114,2	17,4	17,4	8,4	8,4	40	A	**77.48**
622852	8 x 9	130,4	20,9	17,4	8,4	8,4	55	A	**77.48**
622853	8 x 10	130,4	20,9	17,4	8,4	8,4	55	A	**77.48**
622854	10 x 11	144,4	22,9	20,9	9,7	8,4	72	A	**78.23**
622856	12 x 13	166	24,9	23,4	9,7	9,7	97	A	**84.08**
622857	14 x 15	181,4	30,4	27,4	11,7	10,1	142	A	**95.79**
622858	16 x 18	205,9	33,9	30,4	12	11,7	198	A	**107.45**
622859	17 x 19	224,4	34,4	31,9	12	11,7	211	A	**110.40**

170/2CB

Set de chei combinate forjate cu clichet in cutie de carton



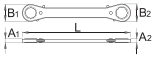
	№				
623082	**170/2CB**	6 - 19 / 6	800	F	**525.40**
	170/2 (6 x 8, 10 x 11, 12 x 13, 14 x 15, 16 x 18, 17 x 19)				

165

Chei inelare duble drepte cu clichet

- *matrial: clichet: crom vanadiu*
- *corp: din tabla, acoperire prin cromare*
- *carcasa exterioara executata din plastic*
- *capul cheii este tratat in intregime*
- *inclinarea minima a unghiului pentru 20°*





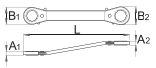
	mm	L	B1	B2	A1	A2			
611633	6 x 7	116.2	20.1	20.1	11.2	11.2	60	A	**36.39**
611634	7 x 8	136.3	20.8	23.3	11	11	77	A	**38.10**
611635	8 x 9	136.3	20.8	23.3	11	11	70	A	**38.10**
611636	8 x 10	136.3	20.8	23.3	11	11	68	A	**38.94**
611637	10 x 11	143.8	23.5	26.5	11.1	11.1	77	A	**39.82**
611638	12 x 13	175	30.1	32.1	13	13.4	156	A	**58.43**
611639	12 x 14	175	30.1	32.1	13	13.4	156	A	**58.43**
618769	1/4" x 5/16"	116	20.1	20.1	11.2	11.2	60	A	**36.39**
618770	3/8" x 7/16"	144	23.5	26.5	11.4	11.1	77	A	**39.82**
618771	1/2" x 9/16"	175	30.1	32.1	12.8	12.9	156	A	**58.43**

166

Chei inelare dublu cotite cu clichet

- *matrial: clichet: crom vanadiu*
- *corp: din tabla, acoperire prin cromare*
- *carcasa exterioara executata din plastic*
- *capul cheii este tratat in intregime*
- *inclinarea minima a unghiului pentru 20°*





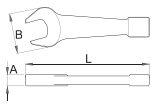
	mm	L	B1	B2	A1	A2			
611640	6 x 7	111	20	20	11.2	11	60	A	**37.22**
611641	7 x 8	130	20.6	23	11	11.2	77	A	**38.94**
611642	8 x 9	130	20.6	23	11	11.2	69	A	**38.94**
611643	8 x 10	130	20.6	23	11	11.2	67	A	**39.82**
611644	10 x 11	136	23.4	26.4	11	11	77	A	**40.70**
611645	12 x 13	167	30.1	32	13	13.1	153	A	**59.27**
611646	12 x 14	167	30.1	32	13	13.1	153	A	**59.27**

118/7

Chei fixe de soc

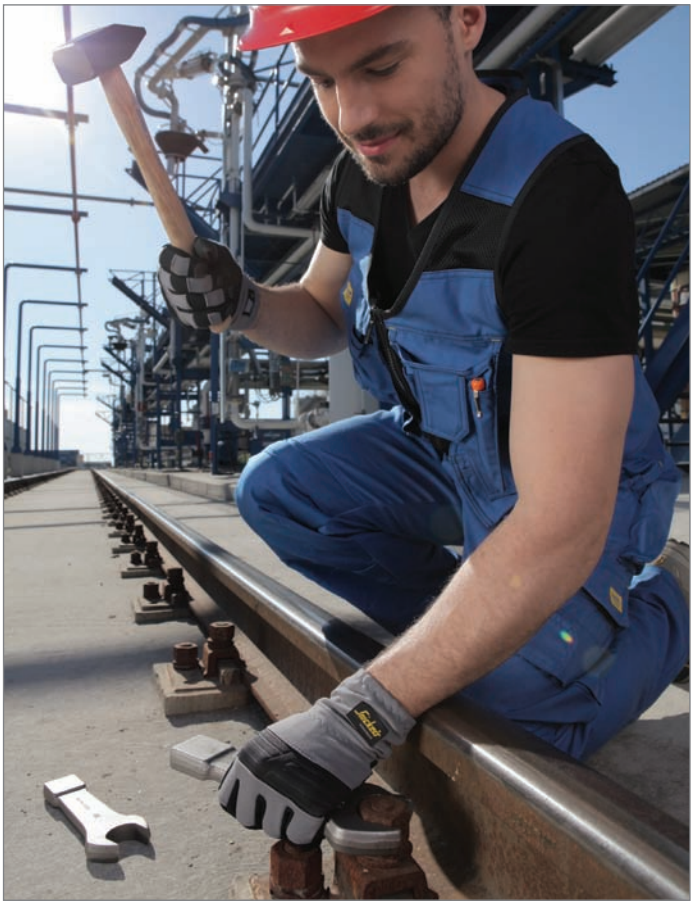
- *material: otel carbon de scule*
- *Acoperire: uleiere anticoroziva*
- *forjata, calire si revenire totala*
- *in concordanta cu standardul DIN 133*





	mm	L	B	A			
620466	24	170	56	15	489	F	**60.76**
620467	27	170	56	15	477	F	**60.76**
620468	30	200	70	18	863	F	**79.55**
620469	32	200	70	18	863	F	**83.91**
620470	36	200	70	18	834	F	**108.94**
620471	41	240	88	20	1490	F	**133.41**
620472	46	240	88	20	1450	F	**182.03**
620473	50	265	102	20	1790	F	**205.52**
620474	55	305	112	24	2700	F	**239.62**
620475	60	305	112	24	2615	F	**267.08**
620476	65	335	123	27	3645	F	**342.67**
620477	70	370	154	30	2200	F	**419.45**
620478	75	370	154	30	4865	F	**459.84**
620479	80	400	170	33	6450	F	**560.60**

620480		85	400	170	33	5775	F	624.40
620481		90	450	192	38	7620	F	824.96
620482		95	450	192	38	9400	F	910.67
620483		100	485	225	45	10800	F	1,059.78
620484		105	485	225	45	10400	F	1,644.28
620485		110	515	236	48	12400	F	1,758.72
620486		115	515	236	52	15800	F	2,218.48
620487		120	535	253	53	20000	F	2,426.03
620488		125	535	253	53	19200	F	2,603.17
620489		130	565	273	53	23200	F	3,359,14
620490		135	565	273	53	23400	F	3.461.57
620491		140	635	300	58	28800	F	3,624.32
620492		145	635	300	58	28800	F	4,935,52
620493		150	635	300	58	28200	F	5,333.37

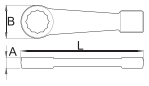


184/7

Chei inelare de soc

- *material: otel carbon de scule*
- *Acoperire: uleiere anticoroziva*
- *in concordanta cu standardul DIN 7444 (numai dimensiunile in mm)*
- *forjata, calire si revenire totala*





620494	24	180	48.6	16	534	F	71.41
620495	27	180	48.6	16	514	F	80.04

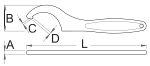
620496		30	180	48.6	16	488	F	94.82
620497		32	190	58.4	18	739	F	101.07
620498		36	190	58.4	18	694	F	127.64
620499		41	235	74	22	1425	F	166.10
620500		46	235	74	22	1360	F	184.71
620501		50	235	74	22	1335	F	207.42
620502		55	275	97.6	27	2800	F	232.85
620503		60	275	97.6	27	2710	F	251.33
620504		65	275	97.6	27	2580	F	325.38
620505		70	330	108	33	4685	F	370.96
620506		75	330	108	33	4570	F	390.19
620507		80	360	124	36	4305	F	535.13
620508		85	360	124	36	4220	F	652.21
620509		90	390	142	39	5335	F	788.96
620510		95	390	142	39	5090	F	880.97
620511		100	425	153	44	6800	F	961.86
620512		105	425	153	45	5930	F	1,775.49
620513		110	450	168	47	8200	F	1,808.62
620514		115	450	168	47	8400	F	2,383.83
620515		120	495	190	53	11400	F	2,508.79
620516		125	495	190	53	10800	F	2,659.45
620517		130	520	200	58	13400	F	3.382.72
620518		135	520	200	60	13800	F	3,676.11
620519		140	575	220	61	17000	F	3,780.30
620520		145	575	220	61	16600	F	5,083.28
620521		150	575	220	61	17000	F	5,379.48
620522		1.1/16"	180	49	16	512	F	84.08
620523		1.1/8"	180	49	16	511	F	84.08
620524		1.3/16"	180	49	16	502	F	99.57
620525		1.1/4"	190	58	18	740	F	106.13
620526		1.5/16"	190	58	18	708	F	134.02
620527		1.3/8"	190	58	18	700	F	134.02
620528		1.7/16"	190	58	18	687	F	134.02
620529		1.1/2"	235	74	22	1470	F	174.42
620530		1.5/8"	235	74	22	1425	F	174.42
620531		1.11/16"	235	74	22	1440	F	174.42
620532		1.3/4"	235	74	22	1410	F	193.91
620533		1.13/16"	235	74	22	1360	F	193.91
620534		1.7/8"	235	74	22	1350	F	217.80
620535		2"	235	74	22	1335	F	217.80
620536		2.1/16"	275	98	27	1860	F	244.42
620537		2.1/8"	275	98	27	2840	F	244.42
620538		2.3/16"	275	98	27	2800	F	244.42
620539		2.1/4"	275	98	27	2730	F	263.96
620540		2.5/16"	275	98	27	2670	F	263.96
620541		2.3/8"	275	98	27	2710	F	263.96
620542		2.1/2"	300	102	28.5	2580	F	315.74
620543		2.9/16"	300	102	28.5	2580	F	326.22
620544		2.5/8"	300	102	28.5	4685	F	384.78
620545		2.3/4"	330	108	33	4685	F	406.52
620546		2.15/16"	330	108	33	4520	F	469.66
620547		3"	330	108	33	4570	F	484.31
620548		3.1/8"	360	124	36	4305	F	675.22
620549		3.3/8"	360	124	36	4220	F	993.08
620550		3.1/2"	390	142	39	5335	F	1,228.08
620551		3.3/4"	390	142	39	5090	F	1,228.08
620552		3.7/8"	425	153	44	6910	F	1,675.70
620553		4"	425	153	44	6800	F	1,688.37
620554		4.1/8"	425	153	45	6800	F	1,738.53
620555		4.1/2"	450	168	47	8400	F	1,862.74

255/2

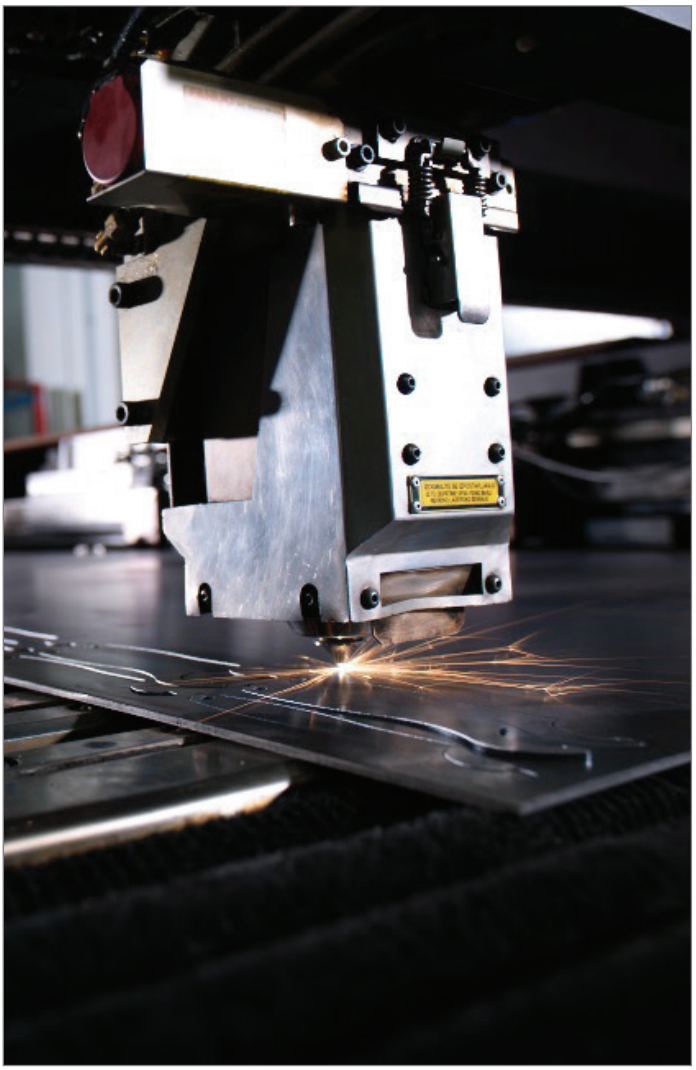
Chei cu ghiara

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*
- *conform cu standardul DIN 1810*





		L	C	D	A	B			
613050	12 - 14	109	1.2	1.5	3	12	27	A	**17.78**
613051	16 - 20	109	1.5	2	3	12	28	A	**17.78**
613052	25 - 28	136	2	2.5	4	21	56	A	**18.30**
613053	30 - 32	136	2	2.5	4	21	55	A	**18.30**
613054	34 - 36	171	2.5	3	5	28.5	114	A	**24.46**
613055	40 - 42	171	2.5	3	5	28.5	111	A	**24.46**
613056	45 - 50	207	3	3.5	6	37	206	A	**29.00**
613057	52 - 55	207	3	3.5	6	37	209	A	**29.00**
613058	58 - 62	242	3.5	4	7	46	320	A	**39.42**
613059	68 - 75	242	3.5	4	7	46	303	A	**39.42**
613060	80 - 90	281	4	5	8	61	472	A	**53.33**
613061	95 - 100	281	4	5	8	61	436	A	**53.33**
613062	110 - 115	334	4	5	10	81	805	E	**88.70**
613063	120 - 130	334	4	5	10	81	829	E	**88.70**



255/2CT

Set de chei cu ghiara in husa



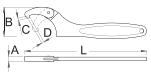
	№				
615156	**255/2CT**	9	3116	E	**452.23**
	255/2 (30 - 32, 40 - 42, 45 - 50, 52 - 55, 58 - 62, 68 - 75, 80 - 90, 95 - 100, 110 - 115)				

255/2F

Chei cu gheara flexibile

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*





		L	C	D	A	B			
615027	15 - 35	140	3	3.5	7	25	83	A	**53.50**
615028	35 - 50	201	4	4	10	41.5	196	A	**72.07**
615029	50 - 80	262	5	5	12	68	455	A	**100.76**
615030	80 - 120	320	5.5	5.5	14	86	829	A	**144.89**
615031	120 - 180	420	7.5	9	16	134	1768	E	**200.16**

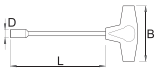


193N

Chei cu maner de plastic in T

- *material: tija - crom vanadiu tratata complet*
- *maner-polipropilena*
- *placat cu invelis de crom conform EN 12540*





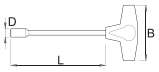
		D	L	B			
621649	5	8.2	230	88	89	B	**35.07**
608283	5.5	8.8	230	88	106	B	**35.07**
608284	6	9	230	88	107	B	**35.07**
608285	7	11	230	88	112	B	**36.30**
608286	8	12	230	88	135	B	**36.61**
608287	9	13	230	88	160	B	**37.49**
608288	10	14	230	88	161	B	**38.75**
608289	11	16	230	88	169	B	**48.71**
608290	12	17.5	230	88	196	B	**49.72**
608291	13	18	230	88	199	B	**50.64**
608292	14	20	230	88	208	B	**52.36**
608293	15	22	230	88	212	B	**55.70**
608294	16	22	230	88	214	B	**57.24**
608295	17	23	230	88	223	B	**58.21**

193NTX

Chei tubulare cu profil TX cu maner in T

- *material: tija - crom vanadiu tratata complet*
- *maner-polipropilena*
- *placat cu invelis de crom conform EN 12540*





		D	L	B			
621376	E10	13	230	89	157	B	**116.42**

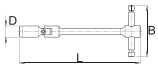


194/1A1

Chei tubulare articulate cu maner in T

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*





			D	B	L			
607992		6	10.5	165	400	204	A	**79.73**
607993		7	11.5	165	400	204	A	**79.73**
607994		8	12.5	165	400	204	A	**79.73**
607995		9	13.8	175	450	229	A	**79.73**
607996		10	15	175	450	414	A	**88.84**
607997		11	16.5	175	450	414	A	**88.84**
607998		12	17.5	175	450	418	A	**88.84**
607999		13	19	175	450	415	A	**88.84**
608101		14	20.5	180	500	454	A	**94.47**
608102		15	21.7	180	500	457	A	**94.47**
608103		16	23	180	500	457	A	**100.58**
608104		17	24	180	500	464	A	**100.58**
608105		18	25.4	180	500	825	A	**109.08**
608106		19	26.6	220	500	898	A	**112.33**
608107		20	27.7	220	500	877	A	**118.01**
608108		21	29	220	500	885	A	**118.01**
608109		22	30.5	220	500	893	A	**131.78**
608110		24	33	220	500	902	A	**142.12**

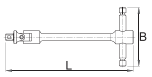
194/2B1

Chei in T articulate cu patrat exterior 3/8"

3/8"

- *material: crom vanadium*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*





			B	L			
608113		3/8"	200	450	360	A	**157.30**

194/1B2

Chei in T articulate cu patrat exterior 1/2"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*

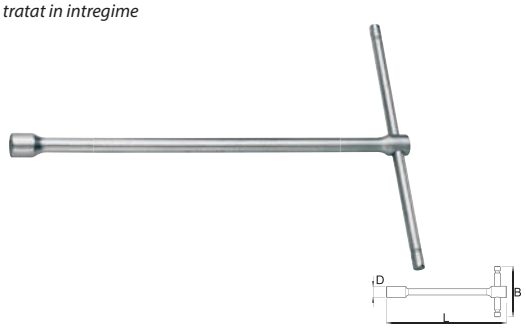


			B	L			
608114		1/2"	250	500	894	A	**187.00**

196/2

Chei cu maner in T

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*



		D	B	L			
602075	8	12.5	165	235	149	A	**41.40**
602076	10	15	180	260	239	A	**44.13**
605000	11	16	180	260	233	A	**47.12**
605001	12	18	180	260	303	A	**48.53**
602077	13	19.2	180	260	307	A	**55.88**
605002	14	20.2	180	260	311	A	**59.22**
602078	17	24	220	285	499	A	**78.85**

196/1A1

Chei cu maner in T

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*



		D	B	L			
608122	6	9.4	165	300	160	A	**43.69**
608123	7	11	165	300	165	A	**43.69**
608124	8	12.2	165	300	174	A	**43.69**
608125	9	13	175	300	175	A	**43,69**
608126	10	14.6	175	300	298	A	**43,69**
608127	11	16	175	300	309	A	**48,75**
608128	12	17.2	175	300	315	A	**48,75**
608129	13	18	175	300	311	A	**54,08**
608130	14	19.7	180	300	362	A	**54,08**
608131	15	22	180	300	383	A	**54,08**
608132	16	23	180	300	389	A	**55,75**
608133	17	24	180	300	402	A	**55,75**
608134	18	25.5	180	300	608	A	**60,24**
608135	19	26.6	220	300	643	A	**65,60**
608136	20	28	220	300	666	A	**68,29**
608137	21	29	220	300	671	A	**68,29**
608138	22	30	220	300	672	A	**69,87**
608139	24	33	220	300	698	A	**75,50**

202/1

Chei tubulare articulate

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*



		L	D1	D2			
609132	8 x 9	198	12	13	96	A	**44,40**
609133	8 x 10	200.5	12	14.6	82	A	**47,30**
609134	10 x 11	214	14.6	16	95	A	**49,19**
609135	12 x 13	227	17	18	148	A	**52,27**
609136	13 x 17	242	18	23	213	A	**59,14**
609137	14 x 15	241	19.5	20.5	211	A	**57,29**
609138	16 x 17	255	22	24	295	A	**60,68**
609139	18 x 19	273	24.5	26	391	A	**70,66**
609140	19 x 22	291.5	26	30	492	A	**83,56**
609141	20 x 22	295	27.5	30	518	A	**82,94**
609142	21 x 23	298	29	31	511	A	**91,30**
609143	24 x 27	323	32	36	756	A	**111,76**
609144	30 x 32	363	40	42	1062	A	**137,98**

202/1CB

Set de chei tubulare dublu articulate in cutie de carton



	№				
609145	**202/1CB**	8 - 22 / 7	1880	F	**417.43**
	202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)				
609146	**202/1CB**	8 - 32 / 10	4220	F	**758.52**
	202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 30 x 32)				

202/1CT

Set de chei tubulare dublu articulate in husa



	№				
615472	202/1CT	8 - 22 / 8	2122	E	555.37

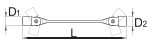
202/1 (8 x 9, 10 x 11, 12 x 13, 13 x 17, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **CT129** (470 x 330)

202/1TX

Cap cheie tubulara cu cardan si profil TX interior

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





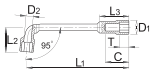
		L	D1	D2			
619861	E6 x E8	182	13	13	77	A	44.40
619862	E10 x E12	198	15	15	108	A	49.19
619863	E14 x E18	226	19	22	197	A	57.29
619864	E20 x E24	226	22	26	328	A	70.66

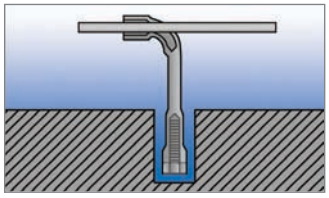
176

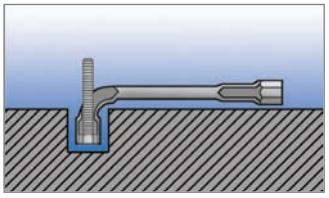
Chei tubulare pipa cu 6 laturi

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*









L1	L2	C	D1	T	L3	D2			
609102	6	100	22	21	10	7	27	6	44	A	43,30
609103	7	100	22	21	11	8	27	6	47	A	43,30
609104	8	120	25	24	12	9	30	7	76	A	44,92
609105	9	120	25	25	13	9	30	7	78	A	46,11
609106	10	127	30	30	15	12	36	8	123	A	49,54
609107	11	127	30	30	16	13	36	8	125	A	53,02
609108	12	143	34	34	17	13	43.5	8	161	A	56,72
609109	13	150	34	34	20	13	43.5	12	186	A	58,08
609110	14	170	40	40	21	14	48	12	226	A	71,32
609111	15	171	40	40	22	15	48	14	236	A	71,32
609112	16	197	45	46	24	17	57	15	340	A	71,32
609113	17	197	45	46	25.3	18	57	15	360	A	83,56
609114	18	209	52	49	28.5	18	61	15	411	A	83,56
609115	19	209	52	49	28.5	19	61	15	445	A	85,01
609116	20	220	54	55	29.5	21	63.5	15	495	A	109,47
609117	21	220	54	55	30	22	63.5	15	487	A	109,47
609118	22	241	60	61	32	22	68	16	590	A	135,04
609119	23	241	60	61	33	24	74	20	640	A	135,04
609120	24	242	63	65	34.5	25	77.5	20	713	A	147,58
609121	25	242	63	65	35	26	77.5	20	703	C	151,40
609122	26	278	67	70	36	27	81	22	876	C	176,22
609123	27	278	67	70	36.5	28	81	22	867	C	184,32
609124	28	294	71	70	38.5	29	84	23	1045	C	192,63
609125	29	300	73	85	40	30	90	24	1140	C	204,69
609126	30	316	75	85	42	31	96.5	25	1257	C	213,75
609127	32	305	79	85	44	32	97.5	25	1434	C	241,12
609128	35	385	93	88	48.5	35	100	27	2200	C	292,42
609129	36	395	94	88	49.5	36	101	27	2235	C	300,52

176CB

Trusa de chei tubulare pipa material plin in cutie de carton



	№				
609130	176CB	8 - 24 / 16	5230	F	1,301.70
	176 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24)				
609131	176CB	8 - 32 / 22	11800	F	2514.42
	176 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24, 26, 27, 28, 29, 30, 32)				

176CS6

Set de chei pipa in cutie de carton



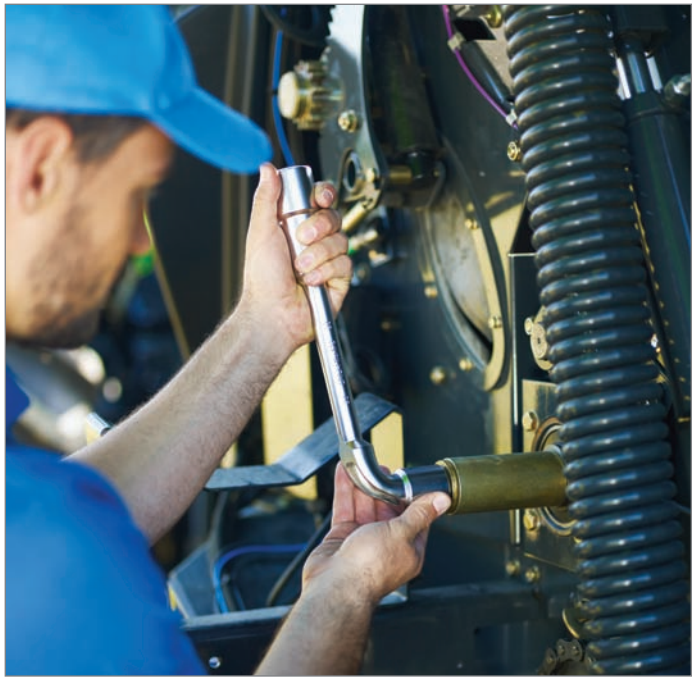
	№				
620581	176CS6	8 - 19 / 6	1365	G	374.18
	176 (8, 10, 11, 13, 17, 19)				

176CS11

Set de chei pipa in cutie de carton



	№				
620582	176CS11	8 - 24 / 11	3650	G	868.43
	176 (8, 10, 11, 12, 13, 16, 17, 18, 19, 22, 24)				

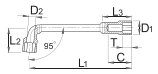


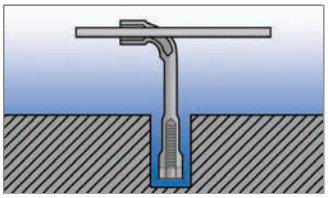
177

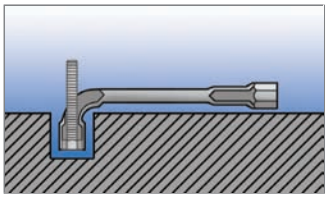
Chei tubulare pipa

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*









	mm	L1	L2	C	D1	T	L3	D2			
609083	8	120	25	24	12	9	30	7	76	A	44,92
609084	9	120	25	25	13	9	30	7	78	A	46,11
609085	10	127	30	30	15	12	36	8	123	A	49,54
609086	11	127	30	30	16	13	36	8	125	A	53,02
609087	12	143	34	34	17	13	43.5	8	161	A	56,72
609088	13	150	34	34	20	13	43.5	12	186	A	58,08
609089	14	170	40	40	21	14	48	12	226	A	71,32
609090	15	171	40	40	22	15	48	14	236	A	71,32
609091	16	197	45	46	24	17	57	15	340	A	71,32
609092	17	197	45	46	25.3	18	57	15	360	A	83,56
609093	18	209	52	49	28.5	18	61	15	411	A	83,56
609094	19	209	52	49	28.5	19	61	15	445	A	85,01
609095	20	220	54	55	29.5	21	63.5	15	495	A	109,47
609096	21	220	54	55	30	22	63.5	15	487	A	109,47
609097	22	241	60	61	32	22	68	16	590	A	135,04
609098	23	241	60	61	33	24	74	20	640	A	135,04
609099	24	242	63	65	34.5	25	77.5	20	713	A	147,58

177CB

Trusa de chei tubulare pipa material plin in cutie de carton



	№				
609100	177CB	8 - 24 / 16	5230	F	1,301.70
	177 (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24)				

177CS6

Set de chei pipa in cutie de carton



	№				
620583	177CS6	8 - 19 / 6	1365	G	374.18

177 (8, 10, 11, 13, 17, 19)

177CS11

Set de chei pipa in cutie de carton



	№				
620584	177CS11	8 - 24 / 11	3650	G	868.43

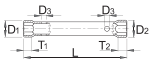
177 (8, 10, 11, 12, 13, 16, 17, 18, 19, 22, 24)

215/2

Chei tubulare teava

- *material: crom molibden*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*
- *in conformitate cu standardul DIN 896 (numai dimensiuni in mm)*





		L	D1	D2	D3	T1	T2			
600696	6 x 7	105	10	11.2	6.3	8	8	28	A	16,19
600697	8 x 9	105	12.7	14	6.3	9	9	39	A	17,86
600698	8 x 10	120	12.8	15	6.3	8	8	64	A	18,52
600699	10 x 11	120	15.5	16.7	6.3	10	10	64	A	20,86
600700	12 x 13	140	18.2	19.5	8.5	12	12	104	A	22,48
600717	13 x 17	150	20	24.6	10.5	13	13	144	A	26,31
600701	14 x 15	140	21.2	22.3	8.5	14	14	134	A	24,38
600718	14 x 17	150	21.2	24.6	10.5	13	13	142	A	26,31
600702	16 x 17	150	23.5	24.6	10.5	15	15	158	A	26,31
607957	16 x 18	100	23.5	25.8	10.5	14	14	118	A	31,46
600719	17 x 19	160	24.6	27	12.5	16	16	183	A	31,46
607958	17 x 21	165	24.6	29.3	12.5	16	16	199	A	31,46
600703	18 x 19	155	25.8	27	12.5	16	16	184	A	31,46

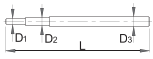
		L	D1	D2	D3	T1	T2			
605043	18 x 21	160	25.8	29.3	12.5	16	16	165	A	33,62
605044	19 x 22	170	27	31.4	12.5	18	18	266	A	35,51
607960	19 x 24	160	27	33.7	14.5	20	20	230	A	39,82
600705	20 x 22	165	29	31.4	12.5	18	18	269	A	35,51
600706	21 x 23	165	30.3	32.5	14.5	20	20	282	A	39,82
607962	22 x 24	160	31.4	33.7	14.5	20	20	299	A	43,08
600707	24 x 26	180	33.7	36	14.5	22	22	356	A	43,08
600723	24 x 27	190	33.7	37.2	14.5	22	22	374	A	43,08
600708	25 x 28	200	34.8	38.3	16.5	24	24	432	E	54,25
607964	27 x 29	200	38.1	40.5	16.5	25	25	521	E	59,75
617633	27 x 30	200	38.1	41.6	16.5	25	25	528	E	57,68
600709	27 x 32	200	38.1	44	16.5	27	27	536	E	59,75
602557	30 x 32	200	41.6	44	16.5	27	27	585	E	59,75
603128	30 x 36	215	42.6	49.6	18.5	28	28	730	E	73,88
603129	36 x 41	215	51.6	57.4	18.5	31	31	1070	E	91,52
618575	41 x 46	235	52	57	22	34	34	1555	E	170,46
618576	46 x 50	235	59	63	22	68	68	2030	E	204,86
618577	50 x 55	235	63	68	22	75	75	2030	E	220,40

215.1/2

Tija de antrenare chei tubulare teava

- *material: otel carbon de scule*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*





		L	D1	D2	D3			
600745	6 - 17	230	6	8	10	137	E	11.09
600747	18 - 41	330	12	14	16	493	E	33.53



215/2CB

Trusa de chei tubulare in cutie de carton



	№				
600710	215/2CB	6 - 32 / 14	3241	F	435.47

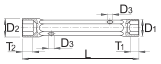
215/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32),
215.1/2 (6 - 17, 18 - 41)

216/1

Chei tubulare forjate

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *capul cheii este tratat in intregime*
- *in conformitate cu standardul DIN 896 (numai dimensiuni in mm)*





		L	D1	D2	T1	T2	D Ø			
615229	6 x 7	105	10	11	5	6	4	39	A	33,70
615230	8 x 9	110	12.5	13.5	6	7	5	54	A	33,04
615231	10 x 11	120	15	16	7.5	8	7	66	A	35,95
615232	12 x 13	140	17.5	19	8	9.5	8	128	A	40,04
615233	14 x 15	145	20	21.5	10	11	8	144	A	52,36
615234	16 x 17	155	22.5	24	11	12	10	195	A	59,05
615235	18 x 19	165	25.5	26	13	15	12	275	A	67,50
615236	20 x 22	175	28	30	15	16	14	289	A	72,91
615237	21 x 23	185	29	31	16	17	14	366	A	80,52
617640	22 x 24	185	30	32.5	16	19	14	360	A	106,92
615238	24 x 26	195	32.5	36.5	19	21	18	446	A	121,04
615239	24 x 27	195	32.5	36.5	19	21	18	429	A	121,04

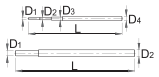
		L	D1	D2	T1	T2	D Ø			
615240	25 x 28	205	34	37	19	21	18	518	E	141,06
615241	27 x 29	205	36	39	21	22	18	579	E	151,93
617641	27 x 30	205	36	42	21	22	22	624	E	160,29
615242	30 x 32	210	40	42.5	22	26	22	834	E	166,28
617642	32 x 36	230	44	50	26	30	22	947	E	169,53

216.1

Tija de antrenare chei tubulare forjate

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*





		D1	D2	D3	D4	L			
615243	6 - 19	3.5	4.5	5.5	7.5	165	52	E	13.55
615244	20 - 32	9.5	11.8			210	178	E	18.00

216/1CB

Trusa de chei tubulare forjate in cutie de carton



	№				
615252	216/1CB	6 - 22 / 9	1050	F	408.01
	216/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **216.1** (6 - 19)				
615253	216/1CB	6 - 32 / 14	3600	F	934.96
	216/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **216.1** (6 - 19, 20 - 32)				

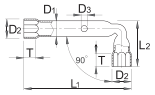


217/2

Chei tubulare pipa din teava

- *material: crom molibden*
- *acoperire cromare conform EN12540*
- *Aplicatii: in industrie si ateliere de reparatii pentru lucrul in locuri greu accesibile. Datorita formei locasului se asigura imbracarea etansa a elementelor de ansamblare cu filete lungi*
- *capul cheii este tratat in intregime*





		L1	L2	D1	D2	D3	T			
617051	4	102	25	7	7	4.3	7	18	A	14,78
617052	5	99	25	7	8	4.3	7	17	A	14,78
617053	5.5	98	25	7	8,5	4.3	7	18	A	15,58
617054	6	103	26	9	10	5,3	8	35	A	15,80
617055	7	106	26	9	11,2	5,3	8	36	A	15,84
617056	8	112	34	11	12,5	6.3	9	48	A	18,39
617057	9	110	34	11	13,5	6.3	9	54	A	18,48
617058	10	121	41	13	15.5	6.3	10	82	A	20,28
617059	11	120	40	13	16,7	6.3	10	81	A	20,28
617060	12	135	46	16	18,2	8.5	12	123	A	24,60
617061	13	133	46	16	19,5	8.5	12	126	A	25,04
617062	14	138	50	18	21	8.5	14	163	A	28,91
617063	15	135	51	18	22,3	8.5	14	163	A	28,91
617064	16	143	57	20	23,2	10.5	15	197	A	32,69
617065	17	140	56	20	24,6	10.5	15	197	A	32,69
617066	18	149	65	22	25,8	12.5	16	234	A	36,61
617067	19	150	64	22	27	12.5	16	237	A	36,61
617068	20	161	68	25	29	12.5	18	334	A	38,10
617069	21	158	67	25	30,3	12.5	18	332	A	38,28
617070	22	159	71	25	31,4	12.5	20	353	A	44,57
617071	23	167	76	27	32,5	14.5	20	391	A	47,65
617072	24	170	83	30	33,7	14.5	22	467	E	56,94
617073	27	175	87	30	37,2	14.5	25	797	E	59,62
617074	30	178	93	34	41,6	16.5	27	691	E	70,53
617075	32	190	98	34	44	16.5	27	745	E	73,61

217/2CB

Set de chei tubulare teava in cutie de carton



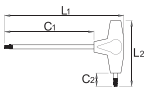
	№				
617123	217/2CB	6 - 22 / 11	1540	F	283.01
	217/2 (6, 7, 8, 10, 11, 12, 13, 14, 17, 19, 22)				
617124	217/2CB	6 - 22 / 17	2930	F	476.08
	217/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)				

193HX

Chei hexagonale cu maner in T

- *material: tija- crom vanadium tratata complet*
- *maner: polipropilena*
- *lama cromata, varful brunat*





		L1	C1	C2	L2			
607161	2.5	155	125	15	61	13	B	14,21
607162	3	155	125	15	61	16	B	14,74
607163	3.5	155	125	15	61	20	B	15,05
607164	4	155	125	15	61	24	B	18,79
607165	4.5	188	150	20	88	57	B	19,10
607166	5	188	150	20	88	56	B	21,12
607167	6	188	150	20	88	74	B	23,01
607168	7	223	175	25	113	128	B	31,06
607169	8	223	175	25	113	155	B	32,56
607170	10	248	200	25	113	233	B	42,42

193HXCB

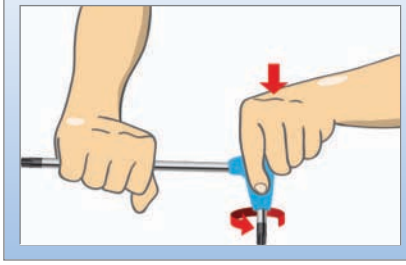
Set de surubelnite cu cap hexagonal in cutie de carton

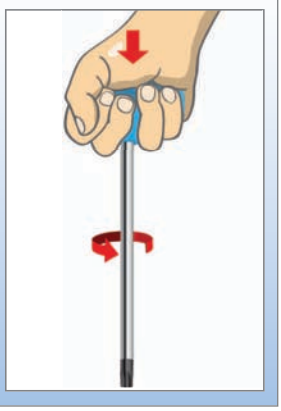


	№				
608879	193HXCB	2.5 - 10 / 10	884	F	232.01
	193HX (2.5, 3, 3.5, 4, 4.5, 5, 6, 7, 8, 10)				

CARACTERISTICI ALE:

193





193HXCS

Set de surubelnite cu cap hexagonal in cutie de carton



	№				
607890	193HXCS	2.5 - 10 / 7	743	G	166.85
	193HX (2.5, 3, 4, 5, 6, 8, 10)				

193HXSCS

Set de surubelnite cu cap hexagonal sferic in cutie de carton



	№				
609337	193HXSCS	2,5 - 10 / 7	739	G	174.15
	193HXS (2.5, 3, 4, 5, 6, 8, 10)				

193HXS

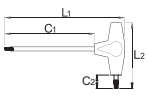
Chei hexagonale cu cap sferic si cu maner

- *material: tija - crom vanadiu tratata complet*
- *maner: polipropilena*
- *lama cromata, varful brunat*









		L1	C1	C2	L2			
608276	2.5	155	125	15	61	13	B	14,87
608277	3	155	125	15	61	16	B	15,49
608278	4	155	125	15	61	25	B	19,32
608279	5	188	150	20	88	56	B	21,78
608280	6	188	150	20	88	72	B	23,98
608281	8	223	175	25	113	153	B	34,01
608282	10	248	200	25	113	234	B	44,66

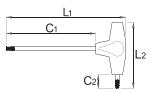
193TX

Chei cu maner in T cu profil TX

- *material: tija - crom vanadium tratata complet*
- *maner: polipropilena*
- *lama cromata, varful brunat*







		L1	C1	C2	L2			
607171	TX 6	155	125	15	61	15	B	25,92
607172	TX 7	155	125	15	61	15	B	25,92
607173	TX 8	155	125	15	61	15	B	26,05
607174	TX 9	155	125	15	61	15	B	26,05
607175	TX 10	155	125	15	61	15	B	26,14
607176	TX 15	155	125	15	61	19	B	29,96
607177	TX 20	155	125	15	61	22	B	32,56
607178	TX 25	188	150	20	88	46	B	34,28
607179	TX 27	188	150	20	88	58	B	36,48
607180	TX 30	188	150	20	88	67	B	42,06
607181	TX 40	223	175	25	113	118	B	43,56
607182	TX 45	223	175	25	113	142	B	51,79

193TXCB

Set de surubelnite profil TX cu maner in T in cutie de carton



	№				
608880	193TXCB	TX 6 - TX 45 / 10	631	F	348,79

193TX (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45)

193TXCS

Set de surubelnite profil TX cu maner in T in cutie de carton



	№				
607888	193TXCS	TX 10 - TX 45 / 7	605	G	260,35

193TX (TX 10, TX 15, TX 20, TX 25, TX 30, TX 40, TX 45)

193TXMS

Set de surubelnite profil TX cu maner in T pe suport metalic



	№				
607889	193TXMS	TX 6 - TX 45 / 10	1890	F	367,09

193TX (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45)

194/2C1

Chei tubulare articulate hexagonale cu maner in T

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*



		B	L			
608117	3	200	400	379	A	119,86
608118	4	200	400	380	A	119,86
608119	5	200	400	384	A	119,86
608120	6	200	400	389	A	128,00
608121	8	200	400	382	A	128,00

202/2AHX

Cap cheie tubulara cu cardan si profil locas hexagonal

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*



		L	D1	D2			
619870	3 x 4	207.5	15	15	110	A	48,09
619871	5 x 6	226	18	18	157	A	58,87
619872	8 x 10	242	20	20	220	A	69,43
619873	12 x 14	248	22	22	260	A	74,80
619874	17 x 19	285	24	30	550	A	108,33
619875	1/8" x 5/32"	207.5	15	15	109	A	48,09
619876	3/16" x 7/32"	223	18	18	157	A	48,31
619877	1/4" x 5/16"	225	18	20	174	A	58,87
619878	3/8" x 1/2"	240	20	22	242	A	71,98
619879	9/16" x 5/8"	255	22	24	331	A	81,40

202/2ATX

Cap cheie tubulara cu cardan si profil TX

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*



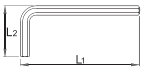
		L	D1	D2			
619865	TX15 x TX20	208	15	15	102	A	48,31
619866	TX25 x TX27	208	15	15	108	A	48,31
619867	TX30 x TX40	208	15	15	113	A	48,31
619868	TX45 x TX50	226	18	18	160	A	59,58
619869	TX55 x TX60	240	20	20	231	A	59,58

220/3

Chei locas hexagonal

- *material: crom vanadiu*
- *tratate*
- *acoperire prin nichelare*
- *conform cu standardul ISO 2936 (doar pentru dimensiunile in mm)*





		L1	L2			
607823	1.5	46.5	15.5	5	B	**0,57**
607824	2	52	18	6	B	**0,57**
607825	2.5	58.5	20.5	7	B	**0,57**
601036	3	66	23	10	B	**0,88**
601037	4	74	29	15	B	**1,19**
601038	5	85	33	23	B	**1,76**
601040	6	96	38	35	B	**2,55**
601041	7	102	41	47	B	**3,70**
601042	8	108	44	65	B	**5,06**
601044	10	122	50	108	B	**8,10**
601045	12	137	57	163	B	**12,32**
601046	14	154	70	258	B	**19,32**
601047	17	177	80	433	C	**29,26**
601048	19	199	89	603	C	**41,76**
616967	3/64"	41	13	5	B	**0,44**
616966	1/20"	41	13	5	B	**0,40**
611905	1/16"	47	16	5	B	**0,62**
611906	5/64"	52	18	6	B	**0,62**
611907	3/32"	58	20	7	B	**1,01**
616968	7/64"	66	23	10	B	**1,14**
611908	1/8"	66	23	10	B	**1,36**
616969	9/64"	72	26	15	B	**1,45**
611909	5/32"	74	29	15	B	**1,72**
611910	3/16"	85	33	23	B	**2,07**
611911	7/32"	91	36	35	B	**2,86**
611912	1/4"	96	38	35	B	**4,14**
611913	5/16"	108	44	65	B	**5,50**
611914	3/8"	122	50	108	B	**8,93**
611915	7/16"	130	53	163	B	**13,64**
611916	1/2"	145	63	163	B	**21,21**
616970	9/16"	154	69	258	B	**31,02**
616971	5/8"	176	76	433	C	**37,58**
616972	3/4"	199	89	603	C	**44,18**
616973	7/8"	222	102	950	C	**63,40**
616974	1"	275	125	1535	C	**99,66**



220FH

Set chei locas hexagonal cu maner tip briceag



	№				
617146	**220FH**	2.5 - 10 / 7	300	E	**90,99**
	220/3 (2.5, 3, 4, 5, 6, 8, 10)				
617148	**220FH**	3/32" - 5/16" / 6	191	E	**79,64**
	220/3 (3/32", 1/8", 5/32", 3/16", 1/4", 5/16")				
617149	**220FH**	3/32" - 3/8" / 7	300	E	**90,99**
	220/3 (3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")				

220/3PB

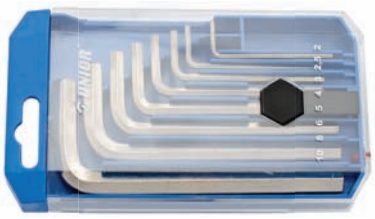
Set de chei locas hexagonal in suport de plastic



	№				
601057	**220/3PB**	3 - 10 / 6	237	T	**27,59**
	220/3 (3, 4, 5, 6, 8, 10)				
601059	**220/3PB**	3 - 14 / 8	660	T	**58,56**
	220/3 (3, 4, 5, 6, 8, 10, 12, 14)				
601061	**220/3PB**	3 - 19 / 10	1715	T	**129,58**
	220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)				

220/3PB1

Set de chei locas hexagonal in cutie de plastic



	№				
610914	**220/3PB1**	2 - 10 / 8	310	T	**41,62**
	220/3 (2, 2.5, 3, 4, 5, 6, 8, 10)				
612161	**220/3PB1**	5/64" - 3/8" / 8	300	T	**41,62**
	220/3 (5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")				

220/3PH

Set chei locas hexagonal in suport de plastic



	№				
607852	220/3PH	1.5 - 10 / 9	250	T	33,84
	220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)				
617079	220/3PH	1.5 - 12 / 10	416	T	46,16
	220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)				
617081	220/3PH	1/16" - 3/8" / 9	240	T	43,56
	220/3 (1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")				

220/3MH

Set de chei locas hexagonal tip briceag metalic



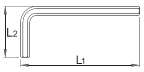
	№				
610986	220/3MH	2.5 - 10 / 7	349	E	59,05
	220/3 (2.5, 3, 4, 5, 6, 8, 10)				

220/4

Cheie locas hexagonal

- *material: crom vanadiu*
- *tratate*
- *acoperire prin brunare*
- *conform cu standardul ISO 2936 (doar pentru dimensiunile in mm)*





		L1	L2			
618817	1.5	46.5	15.5	5	B	0,48
618818	2	52	18	6	B	0,48
618819	2.5	58.5	20.5	7	B	0,57
618820	3	66	23	10	B	0,79
618821	4	74	29	15	B	0,88
618822	5	85	33	23	B	1,67
618823	6	96	38	35	B	2,02
618824	7	102	41	47	B	2,55

		L1	L2			
618825	8	108	44	65	B	3,70
618826	10	122	50	108	B	7,22
618829	12	137	57	163	B	11,48
618831	14	154	70	258	B	19,32
618833	17	177	80	433	C	27,50
618835	19	199	89	603	C	41,76
618839	3/64"	41	13	5	B	0,44
618816	1/20"	41	13	5	B	0,48
618828	1/16"	47	16	5	B	0,62
618843	5/64"	52	18	6	B	0,62
618837	3/32"	58	20	7	B	1,01
618847	7/64"	66	23	10	B	1,14
618834	1/8"	66	23	10	B	1,36
618850	9/64"	72	26	15	B	1,45
618842	5/32"	74	29	15	B	1,72
618836	3/16"	85	33	23	B	2,07
618846	7/32"	91	36	35	B	2,86
618832	1/4"	96	38	35	B	4,14
618841	5/16"	108	44	65	B	5,50
618840	3/8"	122	50	108	B	8,93
618845	7/16"	130	53	163	B	16,24
618830	1/2"	145	63	163	B	21,21
618849	9/16"	154	69	258	B	31,02
618844	5/8"	176	76	433	C	37,58
618838	3/4"	199	89	603	C	44,18
618848	7/8"	222	102	950	C	63,40
618827	1"	275	125	1535	C	99,66

220/4PH

Set de chei locas hexagonal in suport de plastic



	№				
619404	220/4PH	1.5 - 10 / 9	250	T	21,03
	220/4 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)				
619405	220/4PH	1.5 - 12 / 10	410	T	36,61
	220/4 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)				
619406	220/4PH	1/16" - 3/8" / 9	235	T	31,37
	220/4 (1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")				

220/3L

Chei locas hexagonal varianta lunga

- *material: crom vanadiu*
- *tratate*
- *acoperire prin nichelare*
- *conform cu standardul ISO 2936 (doar pentru dimensiunile in mm)*



		L1	L2			
608510	1.5	91.5	15.5	6	B	2,24

		L1	L2			
608511	2	102	18	7	B	2,24
608512	2.5	114.5	20.5	10	B	2,68
608513	3	129	23	14	B	2,95
608514	4	144	29	22	B	4,31
608515	5	165	33	35	B	6,38
608516	6	186	38	55	B	6,38
608517	7	197	41	78	B	10,25
608518	8	208	44	105	B	10,25
608519	10	234	50	105	B	15,71
608520	12	262	57	105	B	23,94
608521	14	294	70	437	B	40,52
608522	17	337	80	753	C	68,68
608523	19	379	89	1026	C	89,45
616975	1/16"	92	16	6	B	2,07
616976	5/64"	102	18	7	B	2,07
616977	3/32"	114	20	10	B	2,55
616978	1/8"	129	23	14	B	2,77
616979	9/64"	140	26	22	B	3,34
616980	5/32"	144	29	22	B	3,92
616981	3/16"	165	33	35	B	4,71
616982	7/32"	176	36	55	B	5,19
616983	1/4"	186	38	55	B	5,81
616984	5/16"	208	44	105	B	9,50
616985	3/8"	234	50	105	B	14,52
616986	7/16"	261	53	105	B	22,18
616987	1/2"	293	63	105	B	22,18
616988	9/16"	294	69	437	B	36,26
616989	5/8"	336	76	753	C	56,58
616990	3/4"	379	89	1026	C	83,12

220/3LPB2

Set de chei locas hexagonal lungi in suport de plastic



	№				
610915	220/3LPB2	2 - 10 / 8	536	T	78,89
	220/3L (2, 2.5, 3, 4, 5, 6, 8, 10)				

220/4L

Chei locas hexagonal varianta lunga

- *material: crom vanadiu*
- *tratate*
- *acoperire prin brunare*
- *conform cu standardul ISO 2936 (doar pentru dimensiunile in mm)*



		L1	L2			
618786		1.5	91.5	15.5	6	B	2,24
618787		2	102	18	7	B	2,24
618788		2.5	114.5	20.5	10	B	2,68
618789		3	129	23	14	B	2,95
618790		4	144	29	22	B	4,31
618791		5	165	33	35	B	6,38
618792		6	186	38	55	B	6,38
618793		7	197	41	78	B	8,76
618794		8	208	44	105	B	10,25
618795		10	234	50	105	B	15,71
618797		12	262	57	105	B	23,94
618799		14	294	70	437	B	40,52
618801		17	337	80	753	C	68,68
618803		19	379	89	1026	C	89,45
618796		1/16"	92	16	6	B	2,07
618810		5/64"	102	18	7	B	2,07
618805		3/32"	114	20	10	B	2,55
618802		1/8"	129	23	14	B	2,77
618815		9/64"	140	26	22	B	3,34
618809		5/32"	144	29	22	B	3,92
618804		3/16"	165	33	35	B	4,71
618813		7/32"	176	36	55	B	5,19
618800		1/4"	186	38	55	B	5,81
618808		5/16"	208	44	105	B	9,50
618807		3/8"	234	50	105	B	14,52
618812		7/16"	261	53	105	B	24,51
618798		1/2"	293	63	105	B	24,51
618814		9/16"	294	69	437	B	39,07
618811		5/8"	336	76	753	C	56,58
618806		3/4"	379	89	1026	C	89,45

220/3LPH

Set de chei locas hexagonal, varianta lunga in suport de plastic



	№				
608533	220/3LPH	1.5 - 10 / 9	416	T	63,45
	220/3L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)				
617080	220/3LPH	1.5 - 12 / 10	700	T	83,86
	220/3L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)				
617082	220/3LPH	1/16" - 3/8" / 9	400	T	80,61
	220/3L (1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")				

220/4LPH

Set de chei locas hexagonal, varianta lunga in suport de plastic



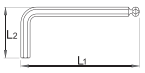
	№				
619407	220/4LPH	1.5 - 10 / 9	423	T	56,41
	220/4L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)				
619408	220/4LPH	1.5 - 12 / 10	711	T	85,27
	220/4L (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10, 12)				
619409	220/4LPH	1/16" - 3/8" / 9	410	T	53,37
	220/4L (1/16", 5/64", 3/32", 1/8", 5/32", 3/16", 1/4", 5/16", 3/8")				

220/3S

Chei locas hexagonal cu cap sferic

- *material: crom vanadiu*
- *tratate*
- *acoperire prin nichelare*





		L1	L2			
607826	1.5	46.5	15.5	5	B	2,42
607827	2	52	18	6	B	2,42
607828	2.5	58.5	20.5	7	B	2,68
607829	3	66	23	10	B	3,04
607830	4	74	29	15	B	4,66
607831	5	85	33	23	B	5,19
607832	6	96	38	35	B	8,01
607834	8	108	44	65	B	13,82
607835	10	122	50	108	B	24,24

220/3SFH

Set de chei locas hexagonal cu cap sferic cu maner tip briceag

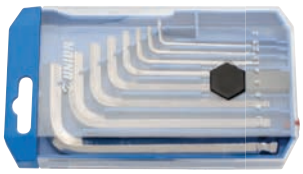


№				
617147	220/3SFH	2.5 - 10 / 7	298	E	120,56

220/3S (2.5, 3, 4, 5, 6, 8, 10)

220/3SPB1

Set de chei locas hexagonal in husa de plastic



№				
610916	220/3SPB1	2 - 10 / 8	316	T	79,24

220/3S (2, 2.5, 3, 4, 5, 6, 8, 10)

220/3SPH

Set de chei locas hexagonal lungi in suport de plastic



№				
607853	220/3SPH	1.5 - 10 / 9	252	T	76,60

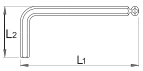
220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

220/3SL

Chei locas hexagonal cu cap sferic, varianta lunga

- *material: crom vanadiu*
- *tratate*
- *acoperire prin nichelare*

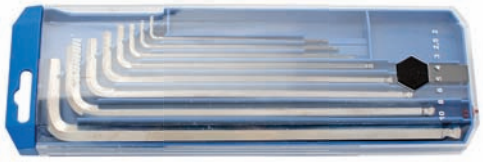




		L1	L2			
608524	1.5	91.5	15.5	6	B	2,68
608525	2	102	18	7	B	2,95
608526	2.5	114.5	20.5	10	B	3,39
608527	3	129	23	14	B	3,83
608528	4	144	29	22	B	5,59
608529	5	165	33	35	B	6,64
608530	6	186	38	55	B	9,81
608531	8	208	44	105	B	17,25
608532	10	234	50	105	B	30,98

220/3SLPB2

Set de chei locas hexagonal in cutie de plastic



№				
610917	220/3SLPB2	2 - 10 / 8	544	T	108,46

220/3SL (2, 2.5, 3, 4, 5, 6, 8, 10)

220/3SLPH

Set de chei locas hexagonal in suport de plastic



№				
608534	220/3SLPH	1.5 - 10 / 9	425	T	93,24

220/3SL (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)



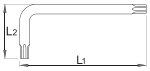
220/7TX

Chei locas cu profil TX

- *material: crom vanadiu*
- *Acoperire prin brunare conform DIN 50938*
- *capul cheii este tratat in intregime*







		L1	L2			
616296	TR 9	59	19	9	B	**19,76**
609173	TR 10	65	20	9	B	**19,76**
609174	TR 15	75.5	20.5	12	B	**19,76**
609175	TR 20	87	22	15	B	**20,24**
609176	TR 25	97.5	22.5	18	B	**20,68**
609177	TR 27	105.5	25.5	25	B	**22,44**
609178	TR 30	111	30	32	B	**22,84**
609179	TR 40	119	33	45	B	**25,56**

220/7TXMH

Set de chei locas hexagonal cu profil TX tip briceag metalic



№					
610987	**220/7TXMH**	TR 9 - TR 40 / 8	269	E	**155,58**

220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)

220/7TXPH

Set de chei locas hexagonal cu profil TX in suport de plastic



№					
613089	**220/7TXPH**	TR 9 - TR 40 / 8	130	T	**170,72**

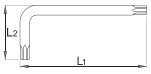
220/7TX (TR 9, TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)

220/7TXN

Chei locas cu profil TX

- *material: crom vanadiu*
- *capul cheii este tratat in intregime*
- *Acoperire prin brunare conform DIN 50938*





		L1	L2			
616991	TX 6	44.5	18.5	7	B	**13,24**
616992	TX 7	50.5	18.5	7	B	**13,24**
616993	TX 8	51	19	8	B	**13,24**
616994	TX 9	51	19	8	B	**11,88**
616995	TX 10	54	20	8	B	**12,19**
616996	TX 15	57.5	21.5	10	B	**12,19**
616997	TX 20	61	23	13	B	**12,28**
616998	TX 25	64.5	24.5	15	B	**12,63**
616999	TX 27	69.5	26.5	21	B	**13,46**
617000	TX 30	76	30	25	B	**13,51**
617001	TX 40	83	33	35	B	**15,22**
617002	TX 45	91	37	50	B	**18,13**
617003	TX 50	104	41	67	B	**20,15**
617004	TX 55	120	47	126	B	**28,91**
617005	TX 60	134	52	188	B	**39,07**

220/7TXNFH

Set de chei cu profil TX cu maner tip briceag



№					
617150	**220/7TXNFH**	TX 9 - TX 40 / 8	225	E	**125,09**

220/7TXN (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

220/7TXNPH

Set de chei locas cu profil TX in suport de plastic



№					
617077	**220/7TXNPH**	TX 9 - TX 40 / 8	130	T	**107,27**

220/7TXN (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

220/7TXP

Chei locas cu profil TXP

- *material: crom vanadiu*
- *Acoperire prin brunare conform DIN 50938*
- *capul cheii este tratat in intregime*



		L1	L2			
617006	TX 9	59	19	9	B	**18,96**
617007	TX 10	65	20	9	B	**19,54**
617008	TX 15	75.5	20.5	12	B	**19,54**
617009	TX 20	87	22	15	B	**19,67**
617010	TX 25	94.5	22.5	18	B	**24,55**
617011	TX 27	105.5	25.5	25	B	**26,88**
617012	TX 30	111	30	32	B	**29,26**
617013	TX 40	119	33	45	B	**32,56**

220/7TXPPH

Set de chei locas cu profil TXP in suport de plastic



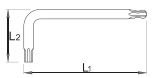
	№				
617078	**220/7TXPPH**	TX 9 - TX 40 / 8	162	T	**194,92**
	220/7TXP (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)				

220/7TXS

Chei locas cu cap sferic si profil TX

- *material: crom vanadiu*
- *Acoperire prin brunare conform DIN 50938*
- *capul cheii este tratat in intregime*

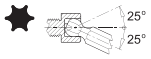




		L1	L2			
617083	TX 9	67	19	9	B	**22,66**
609180	TX 10	76	20	9	B	**22,66**
609181	TX 15	86.5	20.5	12	B	**22,66**
609182	TX 20	98	22	15	B	**22,88**
609183	TX 25	100.5	22.5	18	B	**23,41**
609184	TX 27	111.5	25.5	28	B	**24,99**
609185	TX 30	125	30	35	B	**25,12**
609186	TX 40	139	33	40	B	**28,25**
609187	TX 45	145	37	67	B	**33,62**
609188	TX 50	149	41	88	B	**37,40**
609189	TX 55	157	47	158	B	**49,24**

220/7TXSPH

Set de chei cu profil TXS in suport de plastic





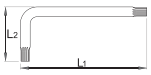
	№				
613090	**220/7TXSPH**	TX 9 - TX 40 / 8	173	T	**196,55**
	220/7TXS (TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)				

220/7ZX

Chei locas cu profil ZX

- *material: crom vanadiu*
- *tratate*
- *Acoperire: uleiere anticoroziva*





		L1	L2			
610918	M 5	75	30	18	B	**17,82**
610919	M 6	86	34	28	B	**20,86**
610920	M 8	98	40	55	B	**26,88**
610921	M 10	110	46	88	B	**34,76**
610922	M 12	124	52	137	B	**43,78**
610923	M 14	139	59	207	B	**56,32**
610924	M 16	156	72	309	B	**83,38**

220/7ZXMH

Set de chei locas hexagonal cu profil ZX tip briceag metalic



	№				
610988	**220/7ZXMH**	M 5 - M 12 / 5	425	E	**181,94**
	220/7ZX (M 5, M 6, M 8, M 10, M 12)				

221AHXPB3

Set de chei locas hexagonal cu maner in cutie de plastic



618902	HX 1.5, 2, 2.5, 3, HXS 1.5, 2, 2.5, 3	225	T		134,51

221HXPB3

Set de chei locas hexagonal cu maner in cutie de plastic



618898	HX 1.5, 2, 2.5, 3, HXS 1.5, 2, 2.5, 3	210	T		130,99

221ATXPB3

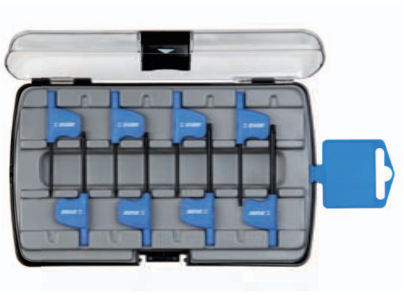
Set de chei locas hexagonal cu profil TX cu maner in cutie de plastic



618899	TX 5, 6, 7, 8, 9, 10, 15, 20	230	T		141,94

221TXPB3

Set de chei locas hexagonal cu profil TX cu maner in cutie de plastic



618895	TX 5, 6, 7, 8, 9, 10, 15, 20	215	T		138,42

221ATXPPB3

Set de chei locas hexagonal cu profil TXP cu maner in cutie de plastic



618901	TXP 5, 6, 7, 8, 9, 10 ,15, 20	230	T		198,92

221ATXRPB3

Set de chei locas hexagonal cu profil TXR cu maner in cutie de plastic



618900	TXR 5, 6, 7, 8, 9, 10, 15, 20	230	T		173,62

210/2

Cheie pentru roti

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*



600782	17	255	27	476	A	50,78
600783	19	285	29.5	541	A	58,48

212/2

Chei in T pentru roti

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *in concordanta cu ISO DIN 3112*



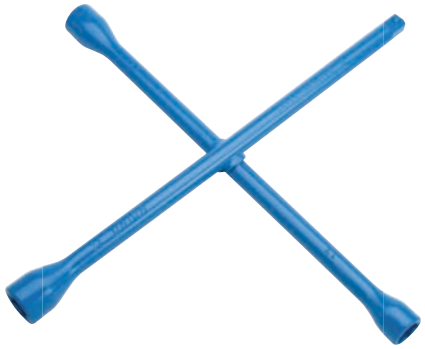
600785	17	260	26	300	12	720	C	85,14

		L1	D1	L2	D2			
600786	19	280	28.5	300	12	800	C	**89,01**
600787	22	300	32	300	12	815	C	**112,86**
600788	24	315	33.5	400	14	1280	C	**119,50**
600789	27	355	38.5	400	20	2220	C	**133,76**
600790	30	425	42.5	400	20	2450	C	**147,18**
600791	32	430	48	400	20	2815	C	**174,28**
609815	33	430	48	400	20	2875	C	**188,36**

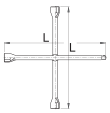
213/6

Cheie cruce pentru roti

- *material: crom vanadiu*
- *vopsite*
- *forjata, calire si revenire totala*
- *in conformitate cu standardul ISO 6788 (numai dimensiuni in mm)*







					L			
600810	17	19	11/16"	1/2"	370	1355	F	**149,95**
600811	17	19	22	1/2"	370	1430	F	**149,95**
600809	17	19	21	23	370	1511	F	**133,54**
600812	17	19	22	24	370	1500	F	**133,54**
600813	24	27	30	3/4"	700	4400	F	**302,98**
600814	24	27	30	32	700	4600	F	**302,98**

194/2D1

Chei in T articulate pentru bujii

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*



			D	B	L			
608111		16	21	250	300	336	A	**162,23**
608112		20.8	27	250	300	382	A	**162,23**

194/2D1L

Chei in T articulate pentru bujii lungi

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*



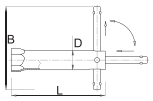
			D	B	L			
608115		16	21	250	500	468	A	**181,81**
608116		20.8	27	250	500	504	A	**181,81**

185/2

Cheie de bujii

- *material:otel carbon de scule*
- *acoperire cromare conform EN12540*





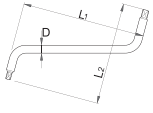
		D	L	B			
600771	16	19	145	120	182	E	**19,27**
607956	19	22	115	120	199	E	**19,84**
600772	21	24	115	120	177	E	**20,15**
600773	21	24	180	120	248	E	**21,25**

175/2

Cheie shimbat ulei la cutia de viteze

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*





		L1	L2	D			
605112	8 x 10	203	169	10	305	A	**29,66**

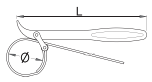
205/2

Cheie filtru de ulei

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *banda din invelis de cauciuc*







	L	Ø⇩	Ø⇧			
601024	220	60	140	225	E	**59,80**

205.1

Banda pentru 205/2

- *banda din invelis de cauciuc*



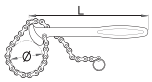
602841	62	E	**38,59**

206/2

Cheie cu lant

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





	L	Ø⇩	Ø⇧			
601025	220	60	140	330	E	**115,24**

206.1

lant pentru art. 206



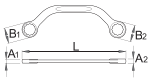
	L			
620938	500	150	E	**22,53**

200/2

Chei inelare semiluna

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





		L	B1	B2	A1	A2			
600671	11 x 13	150	16.5	19	7	8.5	54	A	**34,23**
600672	13 x 17	185	19.2	24.2	8.7	10.3	99	A	**38,59**
600673	14 x 17	185	20.5	24.2	8.7	10.3	104	A	**38,59**
600674	15 x 16	185	21.6	23.6	8.7	10.3	104	A	**38,59**
600675	15 x 17	185	21.6	24.2	8.7	10.3	101	A	**38,59**
600676	19 x 22	230	27.2	31.8	10	11.5	178	A	**49,46**

200/2CB

Set de chei inelare semiluna in cutie de carton



	№				
600677	**200/2CB**	11 - 22 / 5	605	F	**199,41**
	200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)				



Capete chei tubulare si accesorii

O procedura speciala pentru fabricarea capetelor cheilor tubulare

CLICHET

1. **Debitare:** otelul plat se debiteaza in forma corecta intrebuintand o presa de debitat; precizia taierii asigura un minim de material de calitate consumat.

2. **Forjarea:** piesele forjate sunt realizate prin forjare la cald. Forjarea la cald permite obtinerea diferitelor forme complexe si ergonomice. Prin procedeele de forjare corespunzatoare, se mentine sensul fibrajului, pe care zonele laminate le-au avut anterior.

3. **Debavurarea:** Eliminarea excesului de material





CARCASA CLICHETULUI

4. **Prelucrarea CNC:** se realizeaza pe o masina CNC folosind dispozitive speciale de prindere care asigura exactitatea dimensiunilor si functionalitatea in ceea ce priveste miscarea controlata a tuturor elementelor.



5. **Tratamentul termic (calire si revenire):** tratamentul termic prin calire si revenire este destinat imbunatatirii structurii de otel, pentru a oferi o mai mare duritate si tenacitate produsului, precum si celelalte proprietati fizico-mecanice necesare lucrului in conditii de solicitari prescrise.

6. **Sablarea:** curatarea suprafetei inainte de cromare este importanta din motive de calitate si de protectie durabila a suprafetei.



7. **Carcasa clichetului** este placata cu un strat subtire, solid de oxid de crom, care protejeaza impotriva coroziunii si uzurii, precum si a altor deteriorari mecanice. In acelasi timp acest placaj da intregului produs - clichetul Unior - un aspect stralucitor si profesional.



PINION

8. **Prelucrarea CNC** se executa pe masini CNC care asigura precizia necesara. Pinionul este unul din elementele esentiale ale clichetului si dimensiunile individuale trebuiesc executate cu marje de toleranta foarte inguste.

9. **Brosarea dintelor** este o operatiune pentru modelarea dintilor pe pinion. Geometria celor 72 de dinti garanteaza deplasarea pe ambele fete a clichetului Unior.



10. **Tratament termic (calire si revenire):** tratamentul termic prin calire si revenire este destinat imbunatatirii structurii otelului pentru a oferi o mai mare duritate si tenacitate produsului, precum si celelalte proprietati necesare depasirii sarcinilor solicitate de munca cu acest produs.

11. **Sablarea:** curatarea suprafetei dupa tratamentul termic



12. **Corpul clichetului**

13. **Element pentru blocare**

14. **Butonul de actionare**

15. **Capac**



16. **Ejector**

17. **Montaj**

18. **Asamblare finala:** muncitorii instruiti, calificati si meticulosi care executa asamblarea finala, monteaza produsul intr-un ansamblu care asigura functionalitatea si calitatea ridicata a produslui.



Intrebuintare usoara

Operatia mecanismului de a adapta antrenorul cu clichet, este bazata pe mecanismul de insurubat cu 75 de dinti, ce imparte un cerc complet de 360^0 in sectiuni de unghiuri de 4.8 grade, garantând astfel o utilizare mai simpla, chiar si in locuri inaccesibile. Prin utilizarea unor mecanisme cu clichet suplimentare, puteti obtine mai putine rotiri cu mai putin efort, dar si o mai mare fiabilitate si inalta precizie.

Acuratete

Alaturi de mecanismul cu clichet indispensabil, antrenorul cu clichet Unior permite atât strângerea cât si desfacerea anticipata si precisa a suruburilor si a piulitelor - lucrul cu mecanismele Unior este mai sigur si mai precis.

Siguranta

Sistemul de retinere special al antrenorului cu clichet, cu un buton declansator, asigura o mai mare siguranta a lucrului si o viteza mai mare de blocare a capului de cheie tubulara sau a elementelor de antrenare.




Capete chei tubulare 1/4" 66 - 72


Capete chei tubulare 3/8" 72 - 80


Capete chei tubulare 1/2" 80 - 92


Capete chei tubulare 3/4" 92 - 95


Capete chei tubulare 1" 95 - 96


Capete chei tubulare de impact 3/8" 96 - 97


Capete chei tubulare de impact 1/2" 97 - 102


Capete chei tubulare de impact 3/4" 102 - 103


Capete chei tubulare de impact 1" 103 - 105


Capete chei tubulare de impact 1.1/2" 105

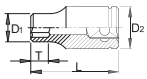


188/2 6p

Capat cheie tubulara 1/4"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





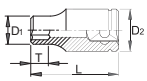
		L	D1	D2	T			
618682	3.2	25	6	12	4	15	B	6,07
600815	4	25	6.7	12	4	15	B	6,07
600816	4.5	25	7.3	12	4	15	B	6,07
600817	5	25	8	12	5	15	B	6,07
600818	5.5	25	8.6	12	5.5	15	B	6,07
600819	6	25	9.2	12	6	15	B	6,07
600820	7	25	11	12	6	15	B	6,07
600821	8	25	12	12	7.5	15	B	6,29
600822	9	25	13	13	7.5	15	B	6,29
600823	10	25	14.5	14.5	9	39	B	6,78
600824	11	25	16	15.5	10.5	39	B	6,86
603130	12	25	17	17	10.5	39	B	7,13
600825	13	25	18	18	10.5	39	B	7,26
603131	14	25	19.5	19.5	13	39	B	7,26
618683	3/16"	25	8	11.9	5	15	B	6,07
618684	7/32"	25	8.8	11.9	5	15	B	6,07
618685	1/4"	25	9.3	11.9	5	15	B	6,07
618686	9/32"	25	10.5	11.9	5	15	B	6,07
618687	5/16"	25	10.5	11.9	5	15	B	6,64
618688	11/32"	25	10.5	13.1	5	15	B	7,22
618689	3/8"	25	10.5	14.6	8	39	B	7,48
618690	13/32"	25	10.5	14.6	8	39	B	6,95
618691	7/16"	25	10.5	15.9	8	39	B	6,82
618692	1/2"	25	10.5	17.9	10	39	B	8,40
618693	9/16"	25	10.5	19.7	10	39	B	8,40

188/2 12p

Capete chei tubulare 1/4", cu 12 laturi

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





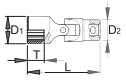
		L	D1	D2	T			
616857	4	25	6.8	11.9	5	15	B	6,07
616858	4.5	25	7.1	11.9	5	15	B	6,07
616859	5	25	8	11.9	5	15	B	6,07
616860	5.5	25	8.3	11.9	5	15	B	6,07
616861	6	25	9.3	11.9	5	15	B	6,07
616862	7	25	10.5	11.9	5	15	B	6,07
616863	8	25	10.5	11.9	5	15	B	6,29
616864	9	25	10.5	13.1	8	15	B	6,29
616865	10	25	10.5	14.5	8	39	B	6,78
616866	11	25	10.5	15.8	8	39	B	6,86
616867	12	25	10.5	16.8	8	39	B	7,13
616868	13	25	10.5	17.8	10	39	B	7,26
616869	14	25	10.5	19.6	10	39	B	7,26
616870	3/16"	25	8	11.9	5	15	B	6,07
616871	7/32"	25	8.3	11.9	5	15	B	6,07
616872	1/4"	25	9.3	11.9	5	15	B	6,07
616873	9/32"	25	10.5	11.9	5	15	B	6,07
616874	5/16"	25	10.5	11.9	5	15	B	6,64
616875	11/32"	25	10.5	12.9	5	15	B	7,22
616876	3/8"	25	10.5	13.9	8	39	B	7,48
616877	13/32"	25	10.5	14	8	39	B	6,95
616878	7/16"	25	10.5	15.8	8	39	B	6,82
616879	1/2"	25	10.5	17.8	10	39	B	8,40
616880	9/16"	25	10.5	19.6	10	39	B	8,40

188/2F6p

Capete chei tubulare cu cardan varianta lunga 1/4"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





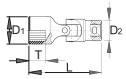
		L	D1	D2	T			
620790	6	35.4	9.2	13.8	5	26	B	40,70
620791	7	37.4	10.5	13.8	5	29	B	40,70
620792	8	37.4	12.2	13.8	5	29	B	43,25
620793	9	37.4	12.2	13.8	5	29	B	43,25
620794	10	39.9	14.7	13.8	6	29	B	43,25
620795	11	39.9	15.9	13.8	6	29	B	44,53
620796	12	39.9	16.9	13.8	6	29	B	44,53
620797	13	39.9	17.9	13.8	7	29	B	44,53

188/2F12p

Capete chei tubulare cu cardan 1/4"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





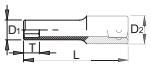
		L	D1	D2	T			
620798	3/16"	35.4	7.7	13.8	4	26	B	40,70
620799	7/32"	35.4	8.6	13.8	4	26	B	40,70
620800	1/4"	35.4	9.5	13.8	4	26	B	40,70
620801	9/32"	37.4	10.7	13.8	5	29	B	43,25
620802	5/16"	37.4	12.2	13.8	5	29	B	43,25
620803	11/32"	37.4	13.1	13.8	5	29	B	43,25
620804	3/8"	39.9	14.7	13.8	5	29	B	43,25
620805	7/16"	39.9	15.9	13.8	6	29	B	44,53
620806	1/2"	39.9	17.9	13.8	7	29	B	44,53

188/2L6p

Capete chei tubulare 1/4", varianta lunga

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





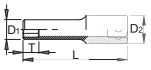
		L	D1	D2	T			
618697	3.2	50	6	12	8	20	B	**10,65**
616881	4	50	6.8	11.9	5	20	B	**7,92**
616882	4.5	50	7.1	11.9	5	20	B	**7,92**
616883	5	50	8	11.9	5	20	B	**7,92**
616884	5.5	50	8.3	11.9	5	20	B	**7,92**
616885	6	50	9.3	11.9	8	20	B	**7,92**
616886	7	50	10.5	11.9	8	71	B	**7,92**
616887	8	50	10.5	11.9	8	71	B	**7,92**
616888	9	50	10.5	13.1	11	71	B	**8,67**
616889	10	50	10.5	14.5	11	71	B	**9,28**
616890	11	50	10.5	15.8	11	71	B	**10,38**
616891	12	50	10.5	16.8	13	71	B	**10,38**
616892	13	50	10.5	17.8	13	71	B	**11,84**
616893	14	50	10.5	19.6	16	71	B	**13,16**
616894	3/16"	50	8	11.9	5	20	B	**7,92**
616895	7/32"	50	8.3	11.9	5	20	B	**7,92**
616896	1/4"	50	9.3	11.9	5	71	B	**7,92**
616897	9/32"	50	10.5	11.9	5	71	B	**7,92**
616898	5/16"	50	10.5	11.9	5	71	B	**7,92**
616899	11/32"	50	10.5	12.9	5	71	B	**8,67**
616900	3/8"	50	10.5	13.9	8	71	B	**9,28**
616901	13/32"	50	10.5	14	8	71	B	**10,38**
616902	7/16"	50	10.5	15.8	8	71	B	**10,38**
616903	1/2"	50	10.5	17.8	10	71	B	**11,84**
616904	9/16"	50	10.5	19.6	10	71	B	**13,16**

188/2L12p

Capete chei tubulare 1/4",varianta lunga,12 laturi

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





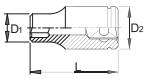
		L	D1	D2	T			
618698	3.2	50	6	12	8	20	B	**11,62**
618694	7/32"	50	8.8	11.9	5	20	B	**7,92**
618695	9/32"	50	10.5	11.9	8	71	B	**7,92**
618696	11/32"	50	10.5	11.9	11	71	B	**8,67**

189/2

Capete chei tubulare cu profil TX interior 1/4"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





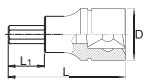
		L	D2	D1			
607911	E 4	25	12	5.4	15	B	**11,22**
607912	E 5	25	12	6.7	15	B	**11,22**
607913	E 6	25	12	7.7	15	B	**11,35**
607914	E 7	25	12	8.3	15	B	**11,35**
607915	E 8	25	12	10.1	15	B	**11,48**
607916	E 10	25	12	11.3	15	B	**11,48**
607917	E 11	25	12	12.9	15	B	**11,79**

187/2HX

Capete chei tubulare cu hexagon exterior 1/4"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *in conformitate cu standardul DIN 7422 (doar pentru dimensiunile in mm)*
- *capul cheii este tratat in intregime*





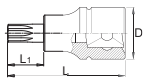
		L	L1	D			
607898	3	32	13	12	18	B	**8,58**
607899	4	32	13	12	18	B	**8,58**
607900	5	32	13	12	18	B	**8,58**
607901	6	32	13	12	18	B	**8,58**
607902	7	32	13	12	18	B	**8,58**

187/2TX

capete chei tubulare cu cap profil TX exterior 1/4"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





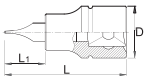
		L	L1	D			
607903	TX 8	32	13	12	15	B	**8,58**
607904	TX 10	32	13	12	15	B	**8,58**
607905	TX 15	32	13	12	15	B	**8,58**
607906	TX 20	32	13	12	15	B	**8,58**
607907	TX 25	32	13	12	15	B	**8,58**
607908	TX 27	32	13	12	15	B	**8,58**
607909	TX 30	32	13	12	15	B	**8,58**
607910	TX 40	32	13	12	17	B	**8,58**

187/2SL

capete chei tubulare cu cap surubelnita exterior 1/4"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit:otel special de scule*
- *capul cheii este tratat in intregime*





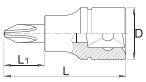
	a	b	L	L1	D			
607895	0.8	4	32	13	12	15	B	**9,02**
607896	1	5.5	32	13	12	15	B	**9,02**
607897	1.2	7	32	13	12	17	B	**9,02**

187/2PH

Capete chei tubulare cu cap profil PH exterior 1/4"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit:otel special de scule*
- *capul cheii este tratat in intregime*





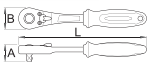
	+	L	L1	D			
607892	PH 1	32	13	12	14	B	**9,02**
607893	PH 2	32	13	12	14	B	**9,02**
607894	PH 3	32	13	12	15	B	**9,02**

188.1/1ABI

Antrenor cu clichet reversibil 1/4"

- *material: compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *cu 40 de dinti*
- *corp forjat*
- *tratament termic total*
- *suprafata:cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*





	■	L	A	B			
611901	1/4"	157	24.5	25	111	B	**115,59**

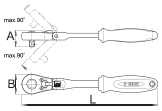


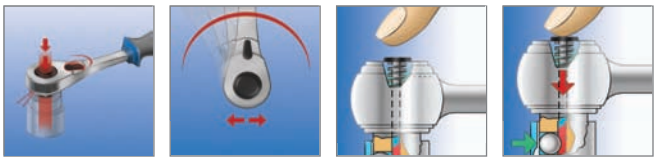
188.1/1FBI

Antrenor cu clichet reversibil articulat 1/4"

- *material: compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *cu 40 de dinti*
- *antrenorul articulat permite lucrul cu o inclinare a mainii pana la max*
- *90° cu un unghi de inclinare de 22,5°*
- *corp forjat*
- *tratament termic total*
- *suprafata:cromata in concordanta cu standardul EN 12540*







	■	L	A	B			
618367	1/4"	180	22	25	127	B	**157,43**

188.11

Parti componente pentru 188.1/1ABI si 188.1/1FBI



612503	11	30	E	**57,24**

188.2/2BI

Antrenor articulat cu maner

- *material:crom vanadiu*
- *maner ergonomic rezistent bimaterial*
- *corp forjat*
- *suprafata:cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*
- *tratament termic total*



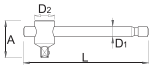
	■	L			
611902	1/4"	150	81	B	**50,69**

188.3/2

Antrenor cu parghie glisanta 1/4"

- *material: crom vanadiu*
- *suprafata:cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*
- *tratament termic total*





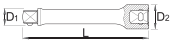
	L	A	D1	D2			
600830	1/4"	120	24	7	14	47	A	23,10

188.4/2

Prelungitor 1/4"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *produs in conformitate cu standardul ISO 3316*





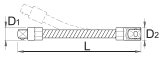
	L	D1	D2			
600826	1/4"	55	8	12	18	B	18,04
600827	1/4"	150	8	12	50	B	19,01

188.4/2F

Prelungitor flexibil 1/4"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*



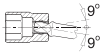


	L	D1	D2			
612868	1/4"	150	8.3	12	56	B	22,57

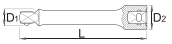
188.4/2S

Prelungitor lung cu sfera 1/4"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*







	L	D1	D2			
610910	1/4"	150	8	12	51	B	22,00
610911	1/4"	55	8	12	18	B	19,76

188.6/2

Intermediar cardanic 1/4"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *produs in conformitate cu standardul ISO 3316*





	L	D			
607821	1/4"	41	14	35	B	24,64

188.7/2

Adaptor 1/4"-3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *produs in conformitate cu standardul ISO 3316*





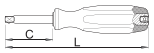
		L	D			
607976	1/4" - 3/8"	35	12	23	B	11,26

188.8

Surubelnita cu patrat de 1/4"

- *material: tija - crom vanadiu tratata complet*
- *maner - polipropilena*
- *executie in concordanta cu standardul ISO 3315*





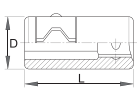
	L	C			
607349	1/4"	150	50	97	B	35,24

188.9

Adaptor pentru bit

- *pentru bituri E6, 3 C6, 3*
- *material: otel carbon de scule*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





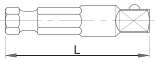
		L	D			
612867	1/4" - 1/4"	25	12	18	B	11,26

188.10

Adaptor pentru bituri

- *material: crom vanadiu*
- *capul cheii este tratat in intregime*
- *conform cu standardul DIN 7428*





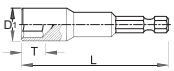
		L			
604531	1/4" (6.3) - 1/4"	50	15	A	14,08
616808	1/4" (6.3) - 3/8"	50	20	A	35,16
616809	1/4" (6.3) - 1/2"	50	33	A	39,91

188.10A

Capete chei tubulare, cu magnet si prindere hexagonala 1/4" pentru masina

- *material: crom vanadiu*
- *capul cheii este tratat in intregime*
- *executie in concordanta cu standardul DIN 7424*





			D1	L	T			
619448	6.3(1/4")	8	12.5	65	3.9	27	A	14,21
618701	6.3(1/4")	10	14.5	65	5	33	A	15,14
618702	6.3(1/4")	13	18	65	6	47	A	16,15
618703	6.3(1/4")	17	23.3	65	9.5	74	A	20,99

188.13

Adaptor pentru biti cu prindere hexagonala de 10mm

- *material: crom vanadiu*
- *capul cheii este tratat in intregime*



620858	10	1/4"	20	E	10,56
620859	10	5/16"	22	E	11,88

188H

Suport metalic pentru capete chei tubulare 1/4"

- *dimensiune 165 - pentru set de 10 piese 4-13, numarul maxim de cleme 13*
- *dimensiunea 205 - 10 piese in set aceiasi dimensiune (14), | numarul maxim de cleme 17*



	L			
619088	165	43	E	5,19
619235	205	53	E	5,41

188H1

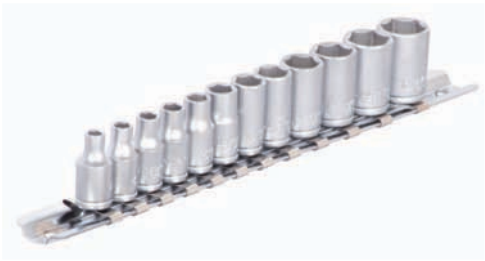
Set de 10 cleme pentru 188 H



619410	11	E	4,22

188H6P12

Set de capete chei tubulare 1/4" pe sina



	№				
622628	188H6P12	4 - 13 / 12	250	E	82,41

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), **188H** (205)

188H6LP9

Set de capete chei tubulare varianta lunga 1/4", pe sina



	№				
622629	188H6LP9	4 - 13 / 9	300	E	85,10

188/2L6p (4, 5, 6, 7, 8, 9, 10, 12, 13), **188H** (205)

188BI

Trusa capete chei tubulare 1/4" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
611996	188BI	4 - 13 / 16	897	G	332,51

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150)

188BI12P16

Set capete chei tubulare si accesorii 1/4" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
617118	188BI12P16	4 - 13 / 16	871	G	332,51

188/2 12p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), **188.4/2** (1/4" x 55, 1/4" x 150), **188.3/2** (1/4"), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4")

188BI6P16INCH

Trusa capete chei tubulare 1/4" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
619413	188BI6P16INCH	3/16" - 9/16" / 16	920	G	332,51

188.1/1ABI (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188/2 6p** (3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 1/2", 9/16")

188BI12P16INCH

Trusa capete chei tubulare 1/4" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
619414	188BI12P16INCH	3/16" - 9/16" / 16	861	G	332,51

188.1/1ABI (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188/2 12p** (3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 13/32", 7/16", 1/2", 9/16")



188BI6P36

Set de capete chei tubulare si biti 1/4"

- *Dimensiunea cutiei: 244 x 207 x 59*



	№				
621407	188BI6P36	36	813	G	464,33

188/2 6p (5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), **6469C6,3** (3, 4, 5, 6), **6466C6,3** (PZ 1, PZ 2, PZ 3), **6463C6,3** (PH 1, PH 2, PH 3), **6460C6,3** (0.6 x 4.5, 1.2 x 6.5, 1.2 x 8.0), **6472C6,3** (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **188.1/1ABI** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **188.9** (1/4" - 1/4"), **188.8** (1/4")

188B

Trusa capete chei tubulare 1/4" in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54*



	№				
615150	188B	44	1990	G	655,29

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), **188.1/1ABI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **187/2PH** (PH 1, PH 2, PH 3), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11)

188C

Trusa capete chei tubulare 1/4" in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54*



	№				
615151	188C	33	1850	C	539,79

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14), **188.1/1ABI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **187/2PH** (PH 1, PH 2, PH 3), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 25, TX 27, TX 30, TX 40)

188D

Trusa capete chei tubulare 1/4" si bituri in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
613074	188D	19	722	C	264,40

6472C6,3 (TX 6, TX 7, TX 8, TX 9, TX 10, TX 15, TX 20, TX 25), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **188.8** (1/4"), **188.3/2** (1/4"), **188.4/2F** (1/4" x 150), **188.9** (1/4" - 1/4")

188E

Trusa capete chei tubulare 1/4" si bituri in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
613075	188E	26	791	C	259,16

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10), **6460C6,3** (0.5 x 3.0, 0.6 x 4.5, 0.8 x 5.5, 1.0 x 5.5, 1.2 x 6.5), **6463C6,3** (PH 0, PH 1, PH 2, PH 3), **6469C6,3** (3, 4, 5, 6), **188.8** (1/4"), **188.3/2** (1/4"), **188.4/2F** (1/4" x 150), **188.9** (1/4" - 1/4")

186BI

Set de capete si accesorii pentru bujii 3/8"



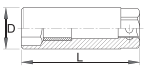
	№				
619401	186BI	4	627	F	304,66
	238.1/1FBI (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **186.4/2** (21)				
619402	186BI	4	615	F	293,17
	238.1/1FBI (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **186.4/2** (19)				
619403	186BI	4	560	F	290,44
	238.1/1FBI (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **186.4/2** (16)				

186.4/2

Cheie de bujii cu patrat de 3/8"

- *material:crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





		D	L				
620819	13	17.9	63		68	B	15,58
603193	16	22	63	19	68	B	16,63
620820	18	24.7	63	22	68	B	17,91
603192	19	26	63	22	68	B	19,32
600776	21	27	66	19	68	B	30,80

186.4/2A

Cheie de bujii 3/8"

- *material: crom molibden*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*



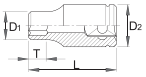
		D	L				
622513	14	18	63	17	58	B	33,44

238/1 6p

Capete chei tubulare 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





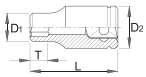
		L	D1	D2	T			
605322	6	28	9.9	16.9	4	28	B	9,50
605323	7	28	10.6	16.9	4	28	B	9,50
605324	8	28	11.8	16.9	5	28	B	9,50
605325	9	28	13.2	16.9	5	29	B	9,50
605326	10	28	14.5	16.9	6	29	B	9,50
605327	11	28	15.7	16.9	7	30	B	9,50
605328	12	28	16.9	16.9	8	31	B	9,50
605329	13	28	17.9	17.9	8	35	B	9,50
605330	14	28	19.6	19.6	10	41	B	10,25
605331	15	28	21	21	10	44	B	11,92
605332	16	30	21.8	21.8	10	52	B	12,19
605333	17	30	23.4	23.4	10	57	B	13,51
605334	18	30	24.7	21	12	57	B	13,51
605335	19	30	25.8	23	12	59	B	13,51
605336	20	32	27.1	24	12	73	B	15,31
605337	21	32	27.8	25	12	73	B	15,71
605338	22	32	29.5	26	14	88	B	16,94
612051	3/8"	28	14.5	16.7	8	30	B	7,83
612052	7/16"	28	15.7	16.7	8	30	B	7,83
612053	1/2"	28	17.75	17.7	8	32	B	7,83
612054	9/16"	28	19.55	19.5	12	39	B	8,76
612055	5/8"	30	21.75	21.7	12	48	B	9,68
612056	11/16"	30	23.3	23.3	12	59	B	10,91
612057	3/4"	30	25.7	23	14	73	B	14,74
612058	13/16"	32	27.7	25	14	88	B	19,40
612059	7/8"	32	29.5	26	14	102	B	21,30

238/1 12p

Capete chei tubulare 3/8" cu 12 laturi

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





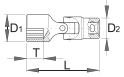
		L	D1	D2	T			
617122	6	28	10.6	16.9	4	28	B	9,50
616905	7	28	10.6	16.9	4	28	B	9,50
616906	8	28	11.8	16.9	5	29	B	9,50
616907	9	28	13.2	16.9	5	29	B	9,50
616908	10	28	14.5	16.9	6	30	B	9,50
616909	11	28	15.7	16.9	7	29	B	9,50
616910	12	28	16.9	16.9	8	28	B	9,50
616911	13	28	17.9	17.9	8	32	B	9,50
616912	14	28	19.6	19.6	10	39	B	10,25
616913	15	28	21	21	10	46	B	11,92
616914	16	30	21.8	21.8	10	48	B	12,19
616915	17	30	23.4	23.4	10	49	B	13,51
616916	18	30	24.7	21	12	65	B	13,51
616917	19	30	25.8	23	12	73	B	13,51
616918	20	32	27.1	24	12	86	B	15,31
616919	21	32	27.8	25	12	88	B	15,71
616920	22	32	29.5	26	14	105	B	16,94
616921	23	32	31.5	27	14	120	B	18,35
616922	24	32	31.8	28	14	112	B	24,86
616923	1/4"	28	10.2	16.7	8	28	B	7,83
616924	5/16"	28	11.8	16.7	8	29	B	7,83
616925	3/8"	28	14.5	16.7	8	30	B	7,83
616926	7/16"	28	15.7	16.7	8	29	B	7,83
616927	1/2"	28	15.7	17.7	8	32	B	7,83
616928	9/16"	28	15.7	19.5	12	39	B	8,76
616929	5/8"	30	15.7	21.7	12	48	B	9,68
616930	11/16"	30	15.7	23.3	12	59	B	10,91
616931	3/4"	30	25.7	23	14	73	B	14,74
616932	13/16"	32	27.7	25	14	88	B	19,40
616933	7/8"	32	29.5	26	14	105	B	21,30
616934	15/16"	32	31.7	28	14	112	B	22,53
616935	1"	32	33.7	30	14	132	B	29,39

238/1F12p

Capete chei tubulare cu cardan 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *polizate*
- *forjata, calire si revenire totala*





		L	D1	D2	T			
619793	10	51	14.2	18.8	6	57	B	32,12
619794	11	52	15.5	18.8	7	57	B	32,12
619795	12	52	16.7	18.8	8	61	B	32,12
619796	13	53	18	18.8	8	65	B	32,12
619797	14	53	19	18.8	10	65	B	32,60
619798	15	54	20.5	18.8	10	70	B	33,09
619799	16	54	21.7	18.8	10	70	B	33,09
619800	17	56	23	18.8	10	68	B	33,09
619801	18	56	24.2	18.8	12	75	B	34,76
619802	19	57	25.5	18.8	12	75	B	34,76

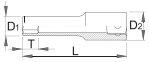


238/1L6p

Capete chei tubulare 3/8", varianta lunga

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





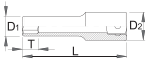
		L	D1	D2	T			
612036	8	63	11.8	16.8	9	55	B	19,10
612037	9	63	13.2	16.8	9	58	B	19,10
612038	10	63	14.5	16.8	9	61	B	19,45
612039	11	63	15.7	16.8	12	67	B	19,45
612040	12	63	16.8	16	12	75	B	19,45
612041	13	63	17.8	16.5	12	81	B	19,45
612042	14	63	19.55	17	15	91	B	19,45
612043	15	63	20.75	18	15	117	B	19,76
612044	16	63	21.75	19	15	107	B	20,33
612045	17	63	23.3	20	15	128	B	21,25
612046	18	63	24.5	21	18	112	B	24,29
612047	19	63	25.7	23	18	147	B	25,21
612048	20	63	27	24	18	157	B	25,83
612049	21	63	27.7	25	18	165	B	26,66
612050	22	63	29.5	26	21	200	B	29,08

238/1L12p

Capete chei tubulare varianta lunga 3/8" cu 12 laturi

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*



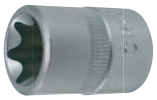


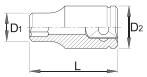
			L	D1	D2	T			
616936		7	63	10.6	16.9	6	55	B	19,10
616937		8	63	11.8	16.9	9	56	B	19,10
616938		9	63	13.2	16.9	9	58	B	19,45
616939		10	63	14.5	16.9	9	61	B	19,45
616940		11	63	15.7	16.9	12	67	B	19,45
616941		12	63	16.8	16.9	12	75	B	19,45
616942		13	63	17.8	17.9	12	81	B	19,45
616943		14	63	19.6	19.6	15	91	B	19,45
616944		15	63	21	21	15	117	B	19,76
616945		16	63	21.8	21.8	15	107	B	20,33
616946		17	63	23.4	23.4	15	128	B	21,25
616947		18	63	24.7	21	18	158	B	24,29
616948		19	63	25.8	23	18	147	B	25,21
616949		20	63	27.1	24	18	167	B	25,83
616950		21	63	27.8	25	18	165	B	26,66
616951		22	63	29.5	26	21	200	B	29,08
616952		23	63	31.5	27	21	215	B	39,16
616953		24	63	31.8	28	21	215	B	40,39
616954		1/4"	63	9.9	16.8	6	55	B	18,52
616955		5/16"	63	11.8	16.8	9	56	B	18,52
616956		3/8"	63	14.5	16.8	9	61	B	18,52
616957		7/16"	63	15.7	16.8	12	67	B	18,52
616958		1/2"	63	17.8	16.5	12	81	B	18,52
616959		9/16"	63	19.5	17	15	91	B	18,52
616960		5/8"	63	21.7	19	15	107	B	19,40
616961		11/16"	63	23.3	20	15	128	B	20,28
616962		3/4"	63	25.7	23	18	147	B	24,02
616963		13/16"	63	27.7	25	18	165	B	25,56
616964		7/8"	63	29.5	26	21	200	B	28,03
616965		15/16"	63	31.7	28	21	215	B	39,78

237/1

Capete chei tubulare cu profil TX interior 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





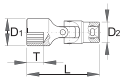
		L	L1	D2	D1			
612121	E 8	28	11	16.8	12	30	B	18,57
612122	E 10	28	11	16.8	13.5	32	B	18,57
612123	E 11	28	11	16.8	14	30	B	18,57
612124	E 12	28	11	16.8	15	32	B	18,57
612125	E 14	28	11	17.8	17	37	B	18,57
612126	E 16	28	11	19.8	19	45	B	18,57

237/1F

Capete chei tubulare cu cardan si profil TX interior 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





		L	D1	D2	T			
620811	E8	51.4	18.8	11.2	5.9	67	B	57,64
620812	E10	51.4	18.8	13.2	6.6	67	B	60,32
620813	E12	51.4	18.8	14.8	8.2	67	B	63,89
620814	E14	51.4	18.8	16.8	9.5	67	B	63,89

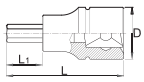
Producator European din 1919

236/2HX

Capete chei tubulare cu profil hexagonal exterior 3/8"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *conform cu standardul DIN 7422 (doarm pentru dimensiunile in mm)*
- *capul cheii este tratat in intregime*





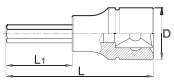
		L	L1	D			
612082	4	48	22	18	39	B	22,92
612083	5	48	22	18	39	B	22,92
612084	6	48	22	18	41	B	22,92
612085	8	48	22	18	45	B	22,92
612086	10	48	22	18	56	B	24,02
617662	1/8"	48	22	18	39	B	22,13
617663	9/64"	48	22	18	39	B	22,13
617664	5/32"	48	22	18	39	B	22,13
617665	3/16"	48	22	18	39	B	22,13
617666	7/32"	48	22	18	41	B	22,13
617667	1/4"	48	22	18	41	B	22,13
617668	5/16"	48	22	18	45	B	22,13
617669	3/8"	48	22	18	56	B	23,23

236/2HXL

Capete chei tubulare cu profil hexagonal exterior lungi 3/8"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *conform cu standardul DIN 7422 (doar pentru dimensiunile in mm)*
- *capul cheii este tratat in intregime*





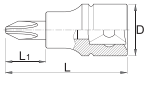
		L	L1	D			
612087	4	92	66	18	65	B	27,06
612088	5	92	66	18	65	B	27,06
612089	6	92	66	18	65	B	27,06
612090	8	92	66	18	65	B	27,06
612091	10	92	66	18	65	B	28,38

236/2PH

Capete chei tubulare cu profil PH exterior 3/8"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





		D	L	L1			
612092	PH 1	18	48	22	39	B	30,98
612093	PH 2	18	48	22	39	B	30,98
612094	PH 3	18	48	22	39	B	30,98

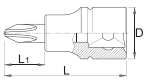


236/2PZ

Capete chei tubulare cu profil PZ exterior 3/8"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit :otel special de scule*
- *capul cheii este tratat in intregime*





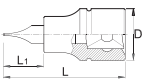
		D	L	L1			
612095	PZ 1	18	48	22	39	B	35,46
612096	PZ 2	18	48	22	39	B	35,46
612097	PZ 3	18	48	22	39	B	35,46

236/2SL

Capete chei tubulare cu profil de surubelnita exterior 3/8"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





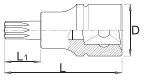
		D	L	L1			
612098	5.5	18	48	22	42	B	35,46
612099	8	18	48	22	45	B	35,46
612100	10	18	48	22	55	B	35,46

236/2TR

Capete chei tubulare cu profil TX si gaura 3/8"

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





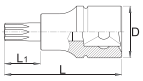
		D	L	L1			
619829	20	18	92	66	50	B	31,99
619830	25	18	92	66	51	B	31,99
619831	27	18	92	66	52	B	31,99
619832	30	18	92	66	53	B	31,94
619833	40	18	92	66	54	B	31,94
619834	45	18	92	66	55	B	31,94
619835	50	18	92	66	62	B	31,94

236/2TX

Capete chei tubulare cu profil TX exterior 3/8"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





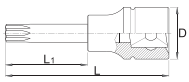
		D	L	L1			
612101	TX 15	18	48	22	39	B	**30,45**
612102	TX 20	18	48	22	39	B	**30,45**
612103	TX 25	18	48	22	39	B	**30,45**
612104	TX 27	18	48	22	39	B	**31,86**
612105	TX 30	18	48	22	39	B	**31,86**
612106	TX 40	18	48	22	40	B	**33,35**

236/2TXL

Capete chei tubulare cu profil TX exterior lungi 3/8"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





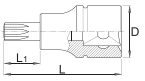
		L	L1	D			
612107	TX 15	92	66	18	50	B	**33,79**
612108	TX 20	92	66	18	50	B	**33,79**
612109	TX 25	92	66	18	50	B	**33,79**
612110	TX 27	92	66	18	50	B	**33,79**
612111	TX 30	92	66	18	50	B	**33,79**
612112	TX 40	92	66	18	51	B	**33,79**

236/2ZX

Capete chei tubulare cu profil ZX exterior 3/8"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*
- *in conformitate cu standardul DIN 2324*





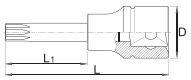
		L	L1	D			
612113	M5	48	22	18	37	B	**35,46**
612114	M6	48	22	18	39	B	**35,46**
612115	M8	48	22	18	46	B	**35,46**
612116	M10	48	22	18	54	B	**40,22**

236/2ZXL

Capete chei tubulare cu profil ZX exterior lungi 3/8"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*
- *in conformitate cu standardul DIN 2324*





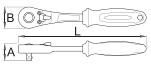
		L	L1	D			
612117	M6	92	66	18	51	B	**38,68**
612118	M8	92	66	18	61	B	**38,68**
612119	M10	92	66	18	65	B	**43,47**

238.1/1ABI

Antrenor cu clichet reversibil 3/8"

- *material: compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *75 de dinti*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*





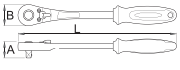
		L	A	B			
612501	3/8"	200	30	35	239	B	**141,90**

238.1/1ALBI

Antrenor cu clichet reversibil 3/8" varianta lunga

- *material: compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *75 de dinti*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*





		L	A	B			
617631	3/8"	260	30	35	274	B	**140,71**

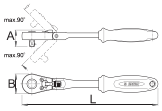
238.1/1FBI

Antrenor cu clichet reversibil articulat 3/8"

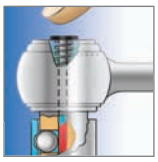
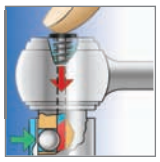
3/8"

- *material: compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *75 de dinti*
- *antrenorul articulat permite lucrul cu o inclinare a mainii pana la maximum 90° cu un unghi de inclinare de 22,5°*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*







	■	L	A	B			
618368	3/8"	260	30	35	322	B	**207,81**

238.11

Parti componente pentru 238.1A BI



612505	8	66	E	**58,30**

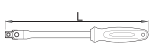
238.2/1BI

Antrenor articulat cu maner bimaterial 3/8"

3/8"

- *material: crom molibden*
- *maner ergonomic rezistent bimaterial*
- *corp forjat*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*
- *tratament termic total*





	■	L			
612502	3/8"	210	188	B	**57,42**

238.3/1

Antrenor cu parghie glisanta 3/8"

3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *executie in concordanta cu standardul ISO 3315*
- *tratament termic total*



	■	L	A	D1	D2			
605341	3/8"	165	34	10.4	19	149	A	**32,60**

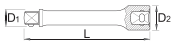
238.4/2

Prelungitor 3/8"

3/8" 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *condorm cu standardul ISO 3316*





	■	L	D1	D2			
600777	3/8"	45	12.5	18	48	B	**18,48**
600778	3/8"	75	12.5	18	76	B	**27,85**

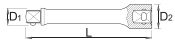
238.4/1

Prelungitor lung 3/8"

3/8" 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *forjata, calire si revenire totala*
- *condorm cu standardul ISO 3316*





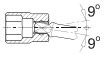
	■	L	D1	D2			
605343	3/8"	125	12.5	18	121	B	**33,48**
605342	3/8"	250	12.5	18	233	B	**38,15**

238.4/1S

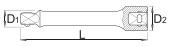
Prelungitor lung cu cap sferic 3/8"

3/8" 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *forjata, calire si revenire totala*







	■	L	D1	D2			
610913	3/8"	125	12.5	18	120	B	**26,05**

238.5/2

Antrenor cotit 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *executie in concordanta cu standardul ISO 3315*
- *forjat, tratat complet*



		L1	L2	D			
611962	3/8"	200	45	10	145	A	29,04

238.6/1

Intermediar cardanic 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *condorm cu standardul ISO 3316*



		L	D			
605344	3/8"	54	19	72	B	29,57

238.7/1

Adaptor 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *forjata, calire si revenire totala*
- *condorm cu standardul ISO 3316*



		D	L			
607977	3/8" - 1/4"	18	32	38	B	9,37

238.7/2

Adaptor 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *condorm cu standardul ISO 3316*



		D	L			
605345	3/8" - 1/2"	17	38	38	B	11,70

238.12

Adaptor de biti cu schimbare rapida 3/8"

- *material: otel carbon de scule*
- *acoperire prin brunare*
- *forjata, calire si revenire totala*



		L	D			
620855	3/8" - 1/4"	33	19	56	E	64,37

238H

Suport pentru capete chei tubulare 3/8"

- *dimensiunea 260 - pentru set de 10 piese de la 6-22,numarul maxim de cleme 15*
- *dimensiunea 345 - 10 piese de aceiasi dimensiune (22), numarul maxim de cleme 20*



	L			
619089	260	69	E	6,64
619236	345	84	E	6,86

238H1

Set de 10 piese pentru 238H



619411	16	E	4,84

239A

Trusa capete chei tubulare 3/8" in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54*



	№				
612509	239A	6 - 22 / 24	2935	G	649,57

238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238.3/1** (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125), **238.6/1** (3/8"), **238.1/1ABI** (3/8"), **238.2/1BI** (3/8"), **238.7/2** (3/8" - 1/2")

239A12P24

Set capete chei tubulare si accesorii 3/8" in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54*



	№				
617117	239A12P24	6 - 22 / 24	2920	G	649,57

238/1 12p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238.3/1** (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125), **238.6/1** (3/8"), **238.1/1ABI** (3/8"), **238.2/1BI** (3/8"), **238.7/2** (3/8" - 1/2")

239B

Trusa capete chei tubulare 3/8" in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54*



	№				
612510	239B	3/8" - 7/8" / 16	3670	G	558,71

238.3/1 (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125), **238.6/1** (3/8"), **238/1 6p** (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8"), **238.1/1ABI** (3/8"), **238.2/1BI** (3/8"), **238.7/2** (3/8" - 1/2")

239C

Trusa capete chei tubulare 3/8" in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54*



	№				
613072	239C	30	2930	G	805,02

238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238.3/1** (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125), **238.6/1** (3/8"), **236/2HX** (4, 5, 6, 8), **236/2PH** (PH 2, PH 3), **236/2SL** (5.5, 8), **238.1/1ABI** (3/8")

239D

Trusa capete chei tubulare 3/8" in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54*



	№				
613073	239D	30	3190	G	813,91

238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19), **238.3/1** (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125), **238.6/1** (3/8"), **238.5/2** (3/8"), **236/2HX** (4, 5, 6, 8, 10), **236/2HXL** (4, 5, 6, 8, 10), **238.1/1ABI** (3/8")

238H6P16

Set de capete chei tubulare 3/8", pe sina



	№				
622630	238H6P16	7 - 22 / 16	700	E	196,42

238/1 6p (7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238H** (345)

238H6LP7

Set de capete chei tubulare varianta lunga, 3/8" pe sina



	№				
622631	238H6LP7	10 - 19 / 7	600	E	150,79

238/1L6p (10, 12, 13, 14, 15, 17, 19), **238H** (345)

238HHXP5

Set de capete chei tubulare 3/8" cu locas hexagonal exterior, pe sina



	№				
622632	238HHXP5	4 - 10 / 5	300	E	122,67

236/2HX (4, 5, 6, 8, 10), **238H** (345)

238HTXP6

Set de capete chei tubulare 3/8" cu locas TX , pe sina



	№				
622633	238HTXP6	TX 15 - TX 40 / 6	250	E	195,32

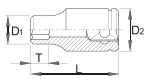
236/2TX (TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **238H** (345)

190/1 6p

Capete chei tubulare 1/2"

- *material: crom molibden*
- *acoperire cromare conform EN12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





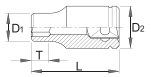
		L	D1	D2	T			
605307	8	38	13.2	22.9	12	55	B	14,12
610155	9	38	13.9	22.9	12	55	B	14,12
600851	10	38	15	22.9	12	55	B	14,12
600852	11	38	16.3	22.9	12	55	B	14,12
600853	12	38	17.9	22.9	12	65	B	14,12
600854	13	38	18.8	22.9	12	65	B	14,12
600855	14	38	19.7	22.9	12	65	B	14,12
600856	15	38	20.4	22.9	12	65	B	14,12
600857	16	38	22.9	21.5	12	85	B	14,12
600858	17	38	24.3	22	12	95	B	18,17
600859	18	38	25.5	23	12	100	B	18,17
600860	19	38	26.8	24	14	105	B	18,17
600861	20	38	28.1	24	14	115	B	18,92
600862	21	38	29.3	25	14	128	B	18,92
600863	22	38	30.4	25	14	142	B	19,23
600864	23	40	31.7	26	14	147	B	21,43
600865	24	42	33.1	28	16	165	B	21,43
600866	25	42	34.2	29	16	126	B	21,43
600867	26	42	35.3	30	16	126	B	21,74
600868	27	43	37	30	18	180	B	23,58
600869	28	43	38	31	20	185	B	23,58
610156	29	43	39	32	20	185	B	25,56
600871	30	46	40.7	34	22	195	B	25,56
600872	32	46	43.2	36	22	237	B	25,56
610105	5/16"	38	13.2	22.9	12	55	B	14,83
610106	3/8"	38	15	22.9	12	55	B	14,83
610107	7/16"	38	16.3	22.9	12	55	B	14,83
610108	1/2"	38	18.8	22.9	12	65	B	14,83
610109	9/16"	38	20.4	22.9	12	65	B	14,83
610110	5/8"	38	22.9	21.5	12	85	B	14,83
610111	11/16"	38	25.5	23	12	95	B	19,05
610112	3/4"	38	26.8	24	14	105	B	19,05
610113	13/16"	38	29.3	25	14	128	B	19,89
610114	7/8"	40	31.7	26	14	142	B	19,89
610115	15/16"	42	33.1	28	16	165	B	22,53
610116	1"	42	35.3	30	16	126	B	22,88
610117	1.1/16"	43	37	30	18	180	B	24,73
610118	1.1/8"	43	39	32	20	185	B	24,73
610119	1.3/16"	46	40.7	34	22	237	B	26,75
610120	1.1/4"	46	43.2	36	22	55	B	26,75

190/1 12p

Capete chei tubulare 1/2" cu 12 laturi

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





		D1	D2	L	T			
603812	10	15	22.9	38	12	55	B	14,12
603813	11	16.3	22.9	38	12	55	B	14,12
603814	12	17.9	22.9	38	12	65	B	14,12
603815	13	18.8	22.9	38	12	65	B	14,12
603816	14	19.7	22.9	38	12	65	B	14,12
603817	15	20.4	22.9	38	12	65	B	14,12
603818	16	22.9	21.5	38	12	65	B	14,12
603819	17	24.3	22	38	12	65	B	18,17
603820	18	25.5	23	38	12	100	B	18,17
603821	19	26.8	24	38	14	105	B	18,17
603822	20	28.1	24	38	14	115	B	18,92
603823	21	29.3	25	38	14	128	B	18,92
603824	22	30.4	25	38	14	142	B	19,23
603825	23	31.7	26	40	14	147	B	21,43
603826	24	33.1	28	42	16	165	B	21,43
603827	27	37	30	43	18	180	B	23,58
603828	30	40.7	34	46	22	195	B	25,56
603829	32	43.2	36	46	22	237	B	25,56
621722	36	48	42	46	22	245	B	38,32
609366	3/8"	15	22.9	38	12	55	B	15,66
609367	7/16"	16.3	22.9	38	12	55	B	15,66
609368	1/2"	18.8	22.9	38	12	65	B	16,90
609369	9/16"	20.4	22.9	38	12	65	B	16,90
609370	19/32"	20.4	20.7	38	12	65	B	17,38
609371	5/8"	22.9	21.5	38	12	65	B	17,38
609372	11/16"	25.5	23	38	12	65	B	17,38

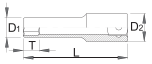
		D1	D2	L	T			
609373	3/4"	26.8	24	38	14	105	B	**19,54**
609374	25/32"	27.9	24	38	14	115	B	**23,28**
609375	13/16"	29.3	25	38	14	128	B	**23,28**
609376	7/8"	31.7	26	40	14	142	B	**20,99**
609377	15/16"	33.1	28	42	16	165	B	**22,53**
609378	1"	35.3	30	42	16	170	B	**23,58**
609379	1.1/16"	37	30	43	18	180	B	**25,70**
609380	1.1/8"	39	32	43	20	190	B	**28,38**
609381	1.3/16"	40.7	34	46	22	195	B	**30,32**
609382	1.1/4"	43.2	36	46	22	237	B	**31,64**

190/1L12p

Capete chei tubulare varianta lunga 1/2" cu 12 laturi

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





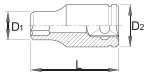
		D1	D2	L	T			
610762	10	15	22	77	12	85	B	**30,10**
610763	11	16.3	22	77	12	110	B	**30,10**
610764	12	17.6	22	77	12	100	B	**30,10**
610765	13	18.8	22	77	12	107	B	**30,10**
610766	14	20.4	22	77	15	112	B	**30,10**
610767	15	21.6	20.7	77	15	107	B	**30,10**
610768	16	22.9	21.5	77	15	121	B	**30,10**
610769	17	24	22	77	15	130	B	**31,02**
610770	18	25.4	23	77	18	150	B	**31,02**
610771	19	26	21	77	18	140	B	**31,02**
610772	20	27.9	24	77	18	176	B	**32,30**
610773	21	28	25	77	18	166	B	**32,30**
610774	22	30	26	77	21	197	B	**32,87**
610775	23	31.6	27	77	21	226	B	**36,56**
610776	24	32	28	77	24	223	B	**36,56**
610777	27	36	30	77	27	277	B	**49,24**
610778	30	40	34	77	30	317	B	**53,11**
610779	32	42	36	77	33	335	B	**53,11**
610780	3/8"	15	22	77	12	85	B	**33,53**
610781	7/16"	16.3	22	77	12	110	B	**33,53**
610782	1/2"	18.8	22	77	15	100	B	**36,08**
610783	9/16"	20.4	22	77	15	112	B	**36,08**
610784	19/32"	21.6	20.7	77	15	107	B	**37,05**
610785	5/8"	22.9	21.5	77	15	121	B	**37,05**
610786	11/16"	24	22	77	15	130	B	**37,05**
610787	3/4"	26	23	77	18	140	B	**41,67**
610788	25/32"	27.9	24	77	18	176	B	**49,63**
610789	13/16"	28	25	77	18	166	B	**49,63**
610790	7/8"	30	26	77	21	197	B	**44,66**
610791	15/16"	32	28	77	24	223	B	**48,00**
610792	1"	34	30	77	24	245	B	**50,34**
610793	1.1/16"	36	30	77	27	277	B	**54,65**
610794	1.1/8"	38	32	77	27	295	B	**60,59**
610795	1.3/16"	40	34	77	30	317	B	**64,64**
610796	1.1/4"	42	36	77	33	335	B	**67,58**

191/1

Capete chei tubulare cu profil TX interior 1/2"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *polizate*
- *forjata, calire si revenire totala*





		D2	D1	L			
607141	E 10	22	14	38	58	B	**22,18**
607142	E 11	22	15	38	52	B	**22,18**
607143	E 12	22	15	38	55	B	**22,18**
607144	E 14	22	17	38	57	B	**22,18**
607145	E 16	22	19	38	62	B	**22,18**
607146	E 18	22	21	38	78	B	**23,67**
607147	E 20	26	23	40	95	B	**25,04**
607148	E 22	26	25.3	40	105	B	**26,40**
607149	E 24	28	27.3	40	119	B	**28,69**

191MB1

Trusa capete chei tubulare cu profil TX interior 1/2" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
607314	**191MB1**	9	1000	F	**249,44**

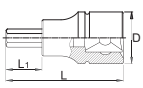
191/1 (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24)

192/2HX

Capete chei tubulare cu profil hexagonal exterior 1/2"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *produs conform standardului DIN 7422 (doar pentru dimensiunile in mm)*
- *capul cheii este tratat in intregimedimensiunile 17,19,22, 24 sunt utilizate pentru schimbarea și montarea roților fata*





		D	L	L1			
600978	4	23	60	24	60	B	**19,14**
603420	5	23	60	24	60	B	**19,14**
603421	6	23	60	24	60	B	**19,14**
603422	7	23	60	24	75	B	**19,62**
603423	8	23	60	24	81	B	**19,62**
605923	9	23	60	24	85	B	**20,37**

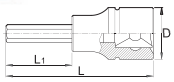
		D	L	L1			
603424	10	23	60	24	95	B	20,37
603425	12	23	60	24	116	B	21,03
603426	14	23	60	24	168	B	27,28
603427	17	24	60	20	187	B	29,83
603428	19	26.5	60	20	195	B	31,77
619894	3/16"	22.9	40	24	60	B	19,14
619895	7/32"	22.9	40	24	60	B	19,14
619896	1/4"	22.9	40	24	60	B	19,14
619898	5/16"	22.9	40	24	81	B	19,62
619899	3/8"	22.9	40	24	95	B	20,37
619900	1/2"	22.9	40	24	116	B	20,37
619901	9/16"	22.9	40	24	168	B	21,03
619902	5/8"	22.9	40	24	187	B	27,28
619904	3/4"	26.8	40	21	195	B	31,77

192/2HXL

Capete chei tubulare cu profil hexagonal exterior lungi 1/2"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *produs conform standardului DIN 7422 (doar pentru dimensiunile in mm)*
- *capul cheii este tratat in intregime*





		D	L	L1			
603380	5	22.9	100	64	67	B	22,75
619803	5	22.9	203	167	85	B	24,24
603381	6	22.9	100	64	67	B	22,75
619804	6	22.9	163	127	91	B	23,98
619805	6	22.9	183	147	95	B	24,24
603383	7	22.9	100	64	67	B	23,41
603384	8	22.9	100	64	67	B	23,41
619806	8	22.9	143	107	115	B	25,26
603386	10	22.9	100	64	117	B	24,29
619807	10	22.9	163	127	163	B	28,47
603455	12	22.9	100	64	139	B	24,29
619808	12	22.9	163	127	205	B	31,28
619415	14	22.9	100	64	165	B	24,51
619809	14	22.9	163	127	255	B	34,80

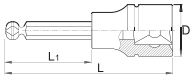
192/2HXSL

Capete chei tubulare 1/2" cu cap sferic extra-lungi

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*







		L	D	L1			
618704	5	203	22.9	180	83	B	29,96
619810	6	163	22.9	127	113	B	26,88
618705	6	243	22.9	220	107	B	31,42
619811	7	163	22.9	127	103	B	27,76

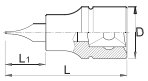
		L	D	L1			
619812	8	163	22.9	127	121	B	28,95
618706	8	243	22.9	220	163	B	34,23
619813	10	163	22.9	127	159	B	32,52
618707	10	243	22.9	220	213	B	37,80

192/2SL

Capete chei tubulare cu profil de surubelnita exterior 1/2"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





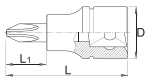
	a	b	D	L	L1			
605551	1.2	8	22.9	63	27	77	B	25,26
605552	1.6	10	22.9	63	27	77	B	26,58
605553	2	12	22.9	63	27	77	B	27,28
605554	2.5	14	22.9	63	27	77	B	34,32
605555	2.5	16	22.9	63	27	77	B	43,38

192/2PH

Capete chei tubulare cu profil PH exterior 1/2"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





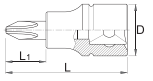
		D	L	L1			
605556	PH 2	22.9	54	18	72	B	27,85
605557	PH 3	22.9	54	18	75	B	27,85
605558	PH 4	22.9	57	21	86	B	32,82

192/2PZ

Capete chei tubulare cu profil PZ exterior 1/2"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





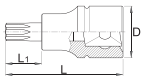
		D	L	L1			
605559	PZ 2	22.9	54	18	72	B	30,27
605560	PZ 3	22.9	54	18	75	B	30,27
605561	PZ 4	22.9	57	21	86	B	35,90

192/2R

Capete chei tubulare 1/2" cu profil exterior RIBE

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





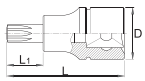
		D	L	L1			
619891	M 5	22.9	43	17	82	B	27,59
619892	M 6	22.9	43	17	83	B	27,59
619893	M 7	22.9	43	17	83	B	27,59
619814	M 8	22.9	43	17	83	B	27,59
619815	M 9	22.9	43	17	84	B	27,59
619816	M 10	22.9	43	17	86	B	27,59
619817	M 12	22.9	43	17	92	B	29,35
619818	M 13	22.9	43	17	99	B	31,46
619819	M 14	22.9	43	17	99	B	31,46

192/2TR

Cap cheie tubulara cu profil exterior TX si gaura 1/2"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule, capul cheii este tratat in intregime*





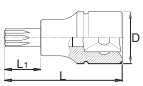
		D	L	L1			
619820	20	22.9	58	22	71	B	29,04
619821	25	22.9	58	22	72	B	29,04
619822	27	22.9	58	22	72	B	29,04
619823	30	22.9	58	22	74	B	29,04
619824	40	22.9	58	22	75	B	28,82
619825	45	22.9	58	22	86	B	30,49
619826	50	22.9	58	22	89	B	30,49
619827	55	22.9	58	22	102	B	34,54
619828	60	22.9	58	22	95	B	37,53

192/2TX

Capete chei tubulare cu profil TX exterior 1/2"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule, capul cheii este tratat in intregime*





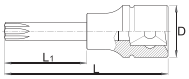
		D	L	L1			
605562	TX 20	22.9	52	16	71	B	26,27
605563	TX 25	22.9	52	16	73	B	26,27
605564	TX 27	22.9	52	16	73	B	26,27
605565	TX 30	22.9	52	16	75	B	26,75
605566	TX 40	22.9	52	16	77	B	28,38
605567	TX 45	22.9	52	16	78	B	28,38
605568	TX 50	22.9	52	16	80	B	29,52
605569	TX 55	22.9	57	21	85	B	35,33
605570	TX 60	22.9	57	21	96	B	35,33

192/2TXL

Capete chei tubulare cu profil TX exterior lungi 1/2"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





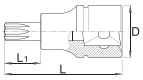
		D	L	L1			
619857	TX 70	24.3	105	65	253	B	41,98
619858	TX 80	24.3	105	65	261	B	50,25
619859	TX 90	26,8	105	65	363	B	57,38
619860	TX 100	26.8	105	65	325	B	62,96
612422	TX 20	22.9	100	64	76	B	32,47
612423	TX 25	22.9	100	64	86	B	32,47
612424	TX 27	22.9	100	64	86	B	32,47
612425	TX 30	22.9	100	64	86	B	32,60
612426	TX 40	22.9	100	64	90	B	35,11
612427	TX 45	22.9	100	64	92	B	35,11
612428	TX 50	22.9	100	64	94	B	36,56
612429	TX 55	22.9	100	64	100	B	43,74
612430	TX 60	22.9	100	64	110	B	43,74

192/2ZX

Capete chei tubulare cu profil ZX exterior 1/2"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





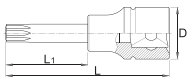
		D	L	L1			
612165	M 5	22.9	52	16	72	B	26,44
612166	M 6	22.9	52	16	70	B	26,44
612167	M 8	22.9	52	16	80	B	26,44
612168	M 10	22.9	57	21	84	B	29,00
612169	M 12	22.9	57	21	90	B	29,00
612170	M 14	22.9	57	21	97	B	31,64
620257	M 16	22.9	57	21	155	B	34,45

192/2ZXL

Capete chei tubulare cu profil ZX exterior lungi 1/2"

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





		D	L	L1			
612171	M 6	22.9	100	64	85	B	**30,27**
612172	M 8	22.9	100	64	91	B	**30,27**
612173	M 10	22.9	100	64	110	B	**32,21**
612174	M 12	22.9	100	64	123	B	**33,97**
619845	M 14	22.9	100	64	143	B	**34,28**
620258	M 16	22.9	100	64	235	B	**37,27**

192/12

Trusa capete chei tubulare cu profil TX 1/2" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
603657	**192/12**	9	1010	G	**290,14**

192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)

192/10

Trusa capete chei tubulare cu profil surubelnita 1/2" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
603655	**192/10**	9	981	G	**280,76**

192/2PH (PH 2, PH 3, PH 4), **192/2TX** (TX 25, TX 27, TX 30, TX 40, TX 45, TX 50)

192/13

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
603658	**192/13**	9	1080	G	**258,32**

192/2HX (8, 10, 12), **192/2PH** (PH 2, PH 3, PH 4), **192/2TX** (TX 27, TX 30, TX 45)

192/11

Trusa capete chei tubulare cu profil surubelnita 1/2" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
603656	**192/11**	9	1050	G	**248,03**

192/2HX (6, 8, 10, 12), **192/2TX** (TX 25, TX 27, TX 30, TX 40, TX 45)

192/14

Trusa capete chei tubulare cu profil hexagonal 1/2" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
607064	**192/14**	9	1170	G	**225,24**

192/2HX (5, 6, 7, 8, 9, 10, 12, 14, 17)

192/14INCH

Trusa capete chei tubulare cu profil hexagonal 1/2" in cutie metalica

- *Dimensiunea cutiei: 197 x 105 x 38*



	№				
621759	192/14INCH	3/16" - 3/4" / 9	1250	G	225,24

192/2HX (3/16", 7/32", 1/4", 5/16", 3/8", 1/2", 9/16", 5/8", 3/4")

192/15

Set de capete chei tubulare cu profil ZX 1/2" in cutie de plastic

- *Dimensiunea cutiei: 197 x 167 x 35*



	№				
617125	192/15	10	1030	G	295,99

192/2ZX (M 5, M 6, M 8, M 10, M 12, M 14),
192/2ZXL (M 6, M 8, M 10, M 12)

192/16

Set de capete chei tubulare cu profil hexagonal lungi 1/2" in cutie de plastic

- *Dimensiunea cutiei: 197 x 167 x 35*



	№				
619416	192/16	5 - 14 / 7	893	G	239,01

192/2HXL (5, 6, 7, 8, 10, 12, 14)

192/17

Set de capete chei tubulare cu profil TX 1/2" in cutie de plastic

- *Dimensiunea cutiei: 197 x 167 x 35*



	№				
619417	192/17	TX 20 - TX 50 / 7	752	G	310,46

192/2TXL (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50)



192/18

Set de adaptoare in cutie metalica

1/4" 1/4" 3/8" 3/8" 1/2" 1/2" 3/4" 3/4"

- *Dimensiunea cutiei: 197 x 105 x 38 mm*



№				
619418	192/18	1/4" - 3/4" / 6	888	209.57

188.7/2 (1/4" - 3/8"), **238.7/1** (3/8" - 1/4"), **238.7/2** (3/8" - 1/2"), **190.7/2** (1/2" x 3/8", 1/2" x 3/4"), **197.7/1** (3/4" - 1/2")

192/19

Set de capete chei tubulare cu profil Ribe exterior in cutie de tabla

1/2"

- *Dimensiunea cutiei: 197 x 105 x 38 mm*



№				
622624	192/19	M 5 - M 14 / 9	1000	321.64

192/2R (M 5, M 6, M 7, M 8, M 9, M 10, M 12, M 13, M 14)

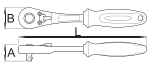
190.1/1ABI

Antrenor cu clichet reversibil 1/2"

1/2"

- *material: compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *75 de dinti*
- *corp forjat*
- *tartament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*





611782	1/2"	260	36	45	423	155.01

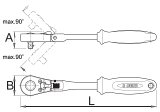
190.1/1FBI

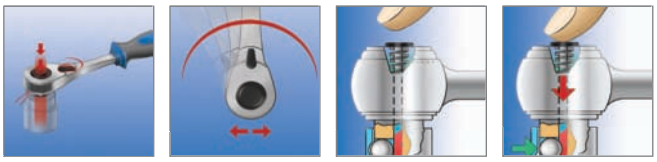
Antrenor cu clichet reversibil articulat 1/2"

1/2"

- *material: compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *75 de dinti*
- *antrenorul articulat permite lucrul cu o inclinare a mainii pana la max*
- *90° cu un unghi de inclinare de 22.5°*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*







618369	1/2"	320	36	40	598	254.80

190.11

Parti componente pentru 190.1ABI



612504	12	106		60.94

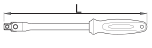
190.2/1BI

Antrenor articulat cu maner 1/2"

1/2"

- *material: crom vanadiu*
- *maner ergonomic rezistent bimaterial*
- *corp forjat*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*
- *tratament termic total*





611899	1/2"	380	572		106.52
611900	1/2"	450	671		114.14



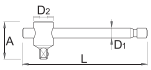
190.3/1

Antrenor cu parghie glisanta 1/2"

1/2"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *executie in concordanta cu standardul ISO 3315*
- *tratament termic total*





	■	L	A	D1	D2			
600876	1/2"	300	45	14	25.5	340	A	**43.38**

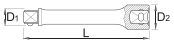
190.4/2

Bara extensie 1/2"

1/2" 1/2"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *forjata, calire si revenire totala*





	■	L	D1	D2			
612565	1/2"	600	16.8	24	732	A	**92.05**

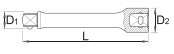
190.4/1

Prelungitor lung 1/2"

1/2" 1/2"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *capete polizate*
- *forjata, calire si revenire totala*
- *produs conform standardului ISO 3316*





	■	L	D1	D2			
607955	1/2"	75	16.8	24	114	B	**26.14**
600874	1/2"	125	16.8	24	178	B	**35.11**
600875	1/2"	250	16.8	24	326	B	**45.32**

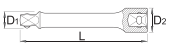
190.4/1S

Prelungitor lung cu cap sferic 1/2"

1/2" 1/2"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *capete polizate*
- *forjata, calire si revenire totala*
- *produs conform standardului ISO 3316*





	■	L	D1	D2			
610909	1/2"	75	16.8	24	110	B	**35.77**
610908	1/2"	125	16.8	24	180	B	**46.07**
610907	1/2"	250	16.4	24	340	B	**60.32**

190.5/2

Antrenor cotit 1/2"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *executie in concordanta cu standardul ISO 3315*
- *forjat, tratat complet*



	L1	L2	D			
610933	1/2"	250	59	16.8	342	A	42.68

190.6/2

Intermediar cardanic 1/2"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *forjata, calire si revenire totala*
- *produs conform standardului ISO 3316*





	D	L			
600873	1/2"	23	75.5	158	B	60.24

190.7/2

Adaptor 1/2"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *forjata, calire si revenire totala*
- *produs conform standardului ISO 3316*





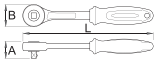
		D	L			
603334	1/2"	3/8"	23	38	67	B	15.14
607975	1/2"	3/4"	22	35	168	B	35.42

190.9/2BI

Antrenor cu clichet 1/2"

- *material: compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*





	A	B	L			
600909	1/2"	38	43.5	252	498	B	109.65

190.10

Patrat de schimb 1/2"

- *antrenor cu clichet 1/2"*
- *capul cheii este tratat in intregime*
- *material: carbon de scule*
- *executie in concordanta cu standardul ISO 3315*



	L			
603378	1/2"	40	50	E	12.94

190.12

Adaptor de biti cu schimbare rapida 1/2"

- *material: otel carbon de scule*
- *suprafata: acoperire prin brunare conform standardului DIN 12476*
- *forjata, calire si revenire totala*





		L	D			
620856	1/2" - 1/4"	41	25	95	B	64.37

190H

Clema pentru capete chei tubulare 1/2"

- *dimensiunea 330 - pentru set de 10 piese de la 8-32 numarul maxim de cleme 14*
- *dimensiunea 450 - 10 piese de aceiasi dimensiune (22) numarul maxim de cleme 19*



	L			
619090	330	95	E	7.26
619237	450	120	E	8.93



190H1

Set de 10 piese suport de capete chei tubulare 1/2" pentru 190 H

1/2"



619412	27	E	5.54

190H12P15IN

Set de capete chei tubulare 1/2", pe sina



№					
622634	190H12P15IN	3/8" - 1.1/4" / 15	1550	E	334.80

190/1 12p (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.3/16", 1.1/4"), **190H** (450)

190H12P15

Set de capete chei tubulare 1/2", pe sina



№					
622635	190H12P15	10 - 32 / 15	1400	E	282.48

190/1 12p (10, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 24, 27, 30, 32), **190H** (450)

190H12LP7

Set de capete chei tubulare 1/2" varianta lunga, pe sina



№					
622636	190H12LP7	13 - 24 / 7	1100	E	231.97

190/1L12p (13, 14, 15, 17, 21, 22, 24), **190H** (450)

190BI6P14

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54 mm*



№					
611940	190BI6P14	10 - 24 / 14	3010	G	515.72

190/1 6p (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 125)

190BI6P23

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei: 448 x 198 x 54 mm*



№					
612779	190BI6P23	10 - 32 / 23	4780	G	776.16

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.6/2** (1/2")

190BI6P24

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei: 448 x 198 x 54 mm*



№					
611939	190BI6P24	10 - 32 / 24	6160	G	882.73

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.6/2** (1/2")

190BI12P14

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54 mm*



	№				
611942	190BI12P14	10 - 24 / 14	4020	G	515.72

190/1 12p (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 125)

190BI12P23

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei: 448 x 198 x 54 mm*



	№				
615327	190BI12P23	10 - 32 / 23	4780	G	776.16

190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2")

190BI12P24

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei: 448 x 198 x 54 mm*



	№				
611941	190BI12P24	10 - 32 / 24	6160	G	878.64

190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.6/2** (1/2")

190BI12P23IN

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei: 448 x 198 x 54 mm*



	№				
611943	190BI12P23IN	3/8" - 1.1/4" / 23	5545	G	921.18

190.6/2 (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.3/1** (1/2"), **190/1 12p** (3/8", 7/16", 1/2", 9/16", 19/32", 5/8", 11/16", 3/4", 25/32", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.3/16", 1.1/4"), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2")

190BI6P22IN

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunea cutiei: 448 x 198 x 54 mm*



	№				
615180	190BI6P22IN	5/16" - 1.1/4" / 22	5565	G	865.79

190.6/2 (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.3/1** (1/2"), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2"), **190/1 6p** (5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1.1/16", 1.1/8", 1.3/16", 1.1/4")

190BITX1P22

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunile cutiei: 448 x 198 x 54 mm*



	№				
611945	190BITX1P22	22	3875	G	877.84

190.6/2 (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **192/2TX** (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **191/1** (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24), **190.1/1ABI** (1/2")

190BI6P43

Trusa capete chei tubulare 1/2" si 1/4" in cutie metalica

- *Dimensiunile cutiei: 346 x 292 x 83 mm*



	№				
611944	190BI6P43	4 - 32 / 43	4600	G	1,122.13

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13, 12, 14), **188.4/2** (1/4" x 55, 1/4" x 150), **188.3/2** (1/4"), **190/1 6p** (10, 11, 12, 13, 14, 15, 17, 19, 22, 24, 27, 30, 32), **190.6/2** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.3/1** (1/2"), **192/2HX** (6, 7, 8, 10, 12, 14, 17), **188.6/2** (1/4"), **190.1/1ABI** (1/2"), **188.1/1ABI** (1/4")

190BIHX1P20

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunile cutiei: 448 x 198 x 54 mm*



	№				
611946	190BIHX1P20	20	4080	G	728.64

192/2HXL (5, 6, 7, 8, 10, 12), **192/2HX** (4, 5, 6, 7, 8, 9, 10, 12, 14, 17, 19), **190.1/1ABI** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250)

190BI6P28

Trusa capete chei tubulare 1/2" in cutie metalica

- *Dimensiunile cutiei: 346 x 292 x 83 mm*



	№				
612162	190BI6P28	10 - 32 / 28	5285	G	1,057.67

190/1 6p (10, 13, 14, 15, 16, 17, 18, 19, 22, 24, 27, 30, 32), **190.6/2** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.3/1** (1/2"), **190/1L12p** (12, 13, 14, 17, 19, 21, 22, 24, 27, 30), **190.1/1ABI** (1/2")

190-6P17

Trusa capete chei tubulare 1/2" in cutie de plastic

- *Dimensiunile cutiei: 307 x 260 x 70 mm*



	№				
622022	190-6P17	10 - 32 / 17	2995	F	551.14

190/1 6p (10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 27, 30, 32), **190.9/2BI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 75)



190BI6P17

Trusa capete chei tubulare 1/2" in cutie de plastic

- *Dimensiunile cutiei: 307 x 260 x 70 mm*



	№				
622023	190BI6P17	10 - 32 / 17	2945	F	596.51

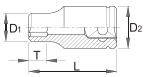
190/1 6p (10, 11, 12, 13, 14, 17, 19, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 75)

197/1 6p

Capete chei tubulare 3/4"

- *material: crom vanadiu*
- *suprafata: cromare conform EN 12540*
- *polizate*
- *momentul de torsiune: conform DIN 899 clasa E*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunile in mm)*





		D1	D2	L	T			
619698	19	29.2	32.9	50	14.5	175	E	37.05
602723	22	32.2	36	50	14	220	E	37.88
602724	23	33.2	36	50	14	221	E	37.88
602725	24	34.2	36	51	16	230	E	39.95
602726	26	37	36	52	16	230	E	41.23
602727	27	38	36	52	22	239	E	43.08
602728	28	39	36	52	22	242	E	44.04
619702	29	38	40.6	51.8	24.1	270	E	45.32
602729	30	42	38	54	24	273	E	45.63
602730	32	44	38	56	26	295	E	48.22
602731	34	47	38	56	26	347	E	50.49
619701	35	42.1	48.2	58	30.3	401	E	51.96
602732	36	50	42	58	28	400	E	54.25
602733	38	52	45	60	28	488	E	59.62
602734	41	56	45	64	30	502	E	65.21
602735	46	62	48	68	34	621	E	79.64
602736	50	68	48	72	36	708	E	100.58
617527	55	48	74	76	32	914	E	108.86
603135	60	80	48	78	42	1105	E	123.64
609383	7/8"	32.2	36	50	14	220	E	41.05
609384	15/16"	34.2	36	51	16	231	E	41.89
609385	1"	37	36	52	16	234	E	48.40
609386	1.1/16"	38	36	52	22	224	E	44.75
609387	1.1/8"	40	38	52	22	265	E	48.93

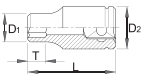
		D1	D2	L	T			
609388	1.1/4"	44	38	56	24	313	E	50.07
609389	1.5/16"	46	38	56	26	336	E	54.25
609390	1.3/8"	48	42	58	26	406	E	56.14
609391	1.7/16"	50	42	58	28	415	E	57.64
609392	1.1/2"	52	45	60	28	414	E	66.57
609393	1.5/8"	56	45	64	30	572	E	70.71
609394	1.11/16"	58	45	65	32	595	E	78.76
609395	1.13/16"	62	48	68	34	698	E	88.62
609396	1.7/8"	64	48	70	34	741	E	90.82
609397	2"	68	48	72	36	842	E	98.69
609398	2.1/16"	70	48	72	36	879	E	122.41

197/1 12p

Capete chei tubulare 3/4" cu 12 laturi

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunile in mm)*





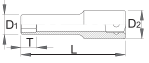
		D1	D2	L	T			
618666	22	32.2	36	50	14	215	E	37.88
618667	23	33.2	36	50	14	216	E	37.88
618668	24	34.2	36	51	16	224	E	39.95
618669	26	37	36	52	16	220	E	41.23
618670	27	38	36	52	22	224	E	43.08
618671	28	39.5	36	52	22	234	E	44.00
619703	29	38	40.4	52.2	24.5	258	E	45.36
618672	30	42	38	54	24	254	E	45.63
618673	32	44	38	56	26	282	E	48.22
618674	34	47	38	56	26	329	E	50.69
618675	36	50	42	58	28	372	E	54.25
618676	38	52	45	60	28	473	E	59.62
618677	41	56	45	64	30	487	E	65.21
618678	46	62	47	68	34	566	E	79.64
618679	50	68	48	72	36	683	E	100.58
618680	55	74	48	76	40	828	E	108.86
618681	60	80	48	78	42	993	E	123.64

197/1L6p

Capete de chei tubulare lungi 3/4"

- *material: crom vanadiu*
- *suprafata: cromare conform EN 12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





		D1	D2	L	T			
610797	22	32.2	36	90	26	346	E	95.61
610798	23	33.2	36	90	26	390	E	95.61
610799	24	34.2	36	90	26	387	E	98.91
610800	26	37	36	90	28	431	E	101.86
610801	27	38	36	90	28	423	E	106.70
610802	28	39	38	90	28	434	E	108.99

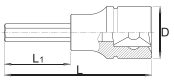
			D1	D2	L	T			
610803		30	42	40	90	28	503	E	112.95
610804		32	44	42	90	28	573	E	119.59
610805		34	47	44	90	28	635	E	130.46
610806		36	50	44	90	30	707	E	134.24
610807		38	52	44	90	34	705	E	147.44
610808		41	56	44	90	34	776	E	161.52
610809		46	62	44	90	34	900	E	197.16
610810		50	68	44	90	36	1085	E	249.04
618700		55	74	54	90	38	1359	E	242.44
610811		60	80	54	90	40	1569	E	330.53
610812		7/8"	32.2	36	90	26	363	E	101.55
610813		15/16"	34.2	36	90	26	383	E	103.80
610814		1"	37	36	90	26	416	E	119.94
610815		1.1/16"	38	36	90	28	413	E	110.70
610816		1.1/8"	40	38	90	28	459	E	121.00
610817		1.1/4"	44	42	90	28	559	E	123.90
610818		1.5/16"	46	44	90	30	615	E	134.24
610819		1.3/8"	48	44	90	30	654	E	139.04
610820		1.7/16"	50	44	90	30	683	E	142.74
610821		1.1/2"	52	44	90	34	700	E	164.82
610822		1.5/8"	56	44	90	34	782	E	175.12
610823		1.11/16"	60	44	90	34	814	E	195.01
610824		1.13/16"	62	44	90	34	903	E	219.21
610825		1.7/8"	64	44	90	34	987	E	224.80
610826		2"	68	44	90	36	1111	E	244.29
610827		2.1/16"	70	54	90	36	1228	E	303.12

197/2AHX

Capete chei tubulare 3/4" cu profil hexagonal

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *produs conform cu standardul DIN 7422 (doar pentru dimensiunile in mm)*
- *capul cheii este tratat in intregime*





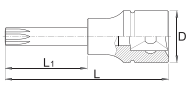
		D	L	L1			
619836	14	33.85	80	30	267	E	60.10
619837	17	33.85	80	30	275	E	60.10
619838	19	33.85	80	30	364	E	72.69
619839	22	33.85	80	30	381	E	72.69

197/2ATX

Capete chei tubulare 3/4" cu profil TX

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





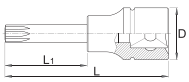
			D	L	L1			
619840		60	33.85	80	30	257	E	60.10
619841		70	33.85	80	30	262	E	60.10
619842		80	33.85	80	30	267	E	70.93
619843		90	33.85	80	30	351	E	85.54
619844		100	33.85	80	30	363	E	87.52

197/2AZX

Capete chei tubulare 3/4" profil ZX

- *material: capete chei tubulare: crom vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *capul cheii este tratat in intregime*





		D	L	L1			
620816	M14	33.9	80	30	259	E	60.10
620817	M16	33.9	80	30	264	E	60.10
620818	M18	33.9	80	30	371	E	72.69

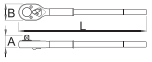
197.1/1

Antrenor cu clichet reversibil 3/4"

- *material: compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *executie in concordanta cu standardul ISO 3315*







		A	B	L			
602737	3/4"	58	63.5	500	2590	C	501.20

197.11

Piese de schimb pentru 197.1/1



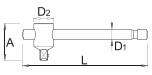
616806	11	495	E	135.43

197.3/1

Antrenor cu parghie glisanta 3/4"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *capete polizate*
- *executie in concordanta cu standardul ISO 3315*
- *tratament termic total*





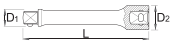
		A	D1	D2	L			
602738	3/4"	60	20	37	455	1400	C	141.46

197.4/1

Prelungitor lung 3/4"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *capete polizate*
- *forjat, calire si revenire totala*
- *conform cu standardul ISO 3316*





	■	L	D1	D2			
602740	3/4"	200	25.3	36	635	C	84.57
602739	3/4"	400	25.3	36	1160	C	143.84

197.6/1

Intermediar cardanic 3/4"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *forjata, calire si revenire totala*
- *conform cu standardul ISO 3316*





	■	D	L			
617657	3/4"	40	107	597	E	169.84

197.7/1

Adaptor 3/4"

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *capete polizate*
- *forjata, calire si revenire totala*
- *conform cu standardul ISO 3316*





		L	D			
602741	3/4" - 1/2"	54	34	181	E	65.30
610695	3/4" - 1"	62	38	364	E	88.22

Producator European din 1919

197MB1

Trusa capete chei tubulare 3/4", in cutie metalica

- *Dimensiunile cutiei: 505 x 215 x 78 mm*



	Nº				
602742	197MB1	22 - 46 / 14	12600	F	1,688.90

197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46), **197.1/1** (3/4" x 500), **197.3/1** (3/4"), **197.4/1** (3/4" x 400, 3/4" x 200), **197.7/1** (3/4" - 1/2")

197MB2

Trusa capete chei tubulare 3/4", in cutie metalica

- *Dimensiunile cutiei: 505 x 215 x 78 mm*



	Nº				
600954	197MB2	22 - 50 / 14	13000	F	1.722.64

197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46, 50), **197.1/1** (3/4" x 500), **197.3/1** (3/4"), **197.4/1** (3/4" x 400, 3/4" x 200)

197MB3

Set capete chei tubulare in inch 3/4" in cutie metalica

- *Dimensiunile cutiei: 505 x 215 x 78 mm*



	Nº				
617119	197MB3	7/8" - 1.7/8" / 14	12600	F	1,709.44

197/1 6p (7/8", 15/16", 1", 1.1/16", 1.1/8", 1.1/4", 1.3/8", 1.1/2", 1.5/8", 1.7/8"), **197.1/1** (3/4" x 500), **197.3/1** (3/4"), **197.4/1** (3/4" x 400, 3/4" x 200)

197MB4

Trusa capete chei tubulare 3/4", in cutie metalica

- *Dimensiunile cutiei: 505 x 215 x 78 mm*



	№				
619927	197MB4	22 - 55 / 15	13600	F	1,907.97

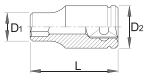
197/1 6p (22, 24, 27, 30, 32, 36, 41, 46, 55), **197.1/1** (3/4" x 500), **197.3/1** (3/4"), **197.4/1** (3/4" x 400, 3/4" x 200), **197.6/1** (3/4"), **197.7/1** (3/4" - 1/2")

199/1 6p

Capete chei tubulare 1"

- *material: crom vanadiu*
- *suprafata: acoperire cromare EN 12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





		D1	D2	L	T			
603096	46	65	50	75	34	849	C	109.91
603097	50	70	55	75	34	1039	C	116.25
603098	55	76	57	80	40	1222	C	142.96
603099	60	82	57	84	42	1383	C	162.62
603100	65	88	57	87	44	1607	C	207.33
603101	70	94	68	93	48	2039	C	325.81
603102	75	100	68	97	52	2243	C	266.77
603103	80	105	68	103	54	2479	C	301.75



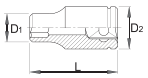


199/1 12p

Capete chei tubulare 1", cu 12 laturi

- *material: crom vanadiu*
- *suprafata: acoperire cromare conform EN 12540*
- *polizate*
- *forjata, calire si revenire totala*
- *executie in concordanta cu standardul ISO 2725-1 (numai pentru dimensiunea in mm)*





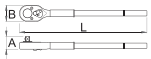
		D1	D2	L	T			
618699	65	82	56.9	84	42	1444	C	286.04

199.1/1

Antrenor cu clichet reversibil 1"

- *material: compozitie speciala pentru calire revenire*
- *corp forjat*
- *tratament termic total*
- *suprafata: acoperire cromare conform EN 12540*
- *executie in concordanta cu standardul ISO 3315*





		A	B	L			
603104	1"	71	71.5	665	4655	C	698.15

199.11

Piese de schimb pentru 199.1/1



616807	11	835	E	162.80

199.3/1

Antrenor cu parghie glisanta 1"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *executie in concordanta cu standardul ISO 3315*
- *tratament termic total*



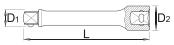
		A	D1	D2	L			
603105	1"	80	28	49	560	3330	C	316,10

199.4/1

Prelungitor lung 1"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *forjata, calire si revenire totala*
- *conform cu standardul ISO 3316*





		L	D1	D2			
603107	1"	200	33.6	48	1125	C	190,34
603106	1"	400	33.6	48	1900	C	303,82

199.6/1

Intermediar cardanic 1"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *forjata, calire si revenire totala*
- *conform cu standardul ISO 3316*





		D	L			
617658	1"	49	141	1120	E	266,11

199.7/1

Adaptor 1"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capete polizate*
- *forjata, calire si revenire totala*
- *conform cu standardul ISO 3316*





		D	L			
619905	1" - 3/4"	48	65	427	E	106,79

199MB1

Trusa capete chei tubulare 1" in cutie metalica

- *Dimensiunea cutiei: 670 x 220 x 100*



603095	199MB1	46 - 80 / 12	29800	F	3.349,94

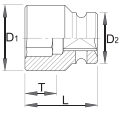
199/1 6p (46, 50, 55, 60, 65, 70, 75, 80), **199.1/1** (1"), **199.3/1** (1"), **199.4/1** (1" x 400, 1" x 200)

230/4 6p

Capete chei tubulare de IMPACT 3/8"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*
- *in conformitate cu standardul ISO 2725-2 (numai dimensiunile in mm)*





		D2	D1	L	T			
612060	8	19	13.8	30	8	45	B	21,74
612061	9	19	15	30	8	45	B	21,74
612062	10	19	16.3	30	8	45	B	21,74
612063	11	19	17.5	30	9	45	B	21,74
612064	12	19	19	30	9	45	B	21,74
612065	13	22	20	30	10	61	B	23,23
612066	14	22	21.3	30	11	55	B	23,23
612067	15	22	22	30	11	58	B	23,23

Producator European din 1919

		D2	D1	L	T			
612068	16	22	24	30	12	65	B	**23,23**
612069	17	22	25	30	12	65	B	**23,23**
612070	18	22	26	30	12	69	B	**24,20**
612071	19	22	27.5	30	19	66	B	**24,20**
612072	20	22	28	30	13	66	B	**26,31**
612073	21	22	30	30	13	73	B	**26,31**
612074	22	23	32	30	13	86	B	**29,22**

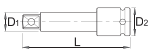
230.4/4

Prelungitor de IMPACT 3/8"

3/8" 3/8"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





		L	D1	D2			
612075	3/8"	75	12.5	19	83	E	**44,57**
612076	3/8"	125	12.5	19	127	E	**49,50**

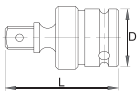
230.6/4

Intermediar cardanic de IMPACT 3/8"

3/8" 3/8"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





		D	L			
612077	3/8"	23.9	51	98	E	**97,42**

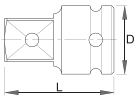
230.7/4

Adaptor de IMPACT 3/8"-1/2"

3/8" 1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





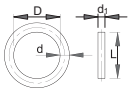
		D	L			
612078	3/8" - 1/2"	22	36	67	E	**36,48**

230.8/4

Accesorii pentru capete chei tubulare de IMPACT 3/8"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*





		D	d	L	d1			
612079	6 - 12	16	2.4	15	2.5	7	E	**3,34**
612080	13 - 21	19	2.4	18	2.5	7	E	**3,34**
612081	22 - 22	20	2.4	18	2.5	7	E	**3,34**

CARACTERISTICI ALE:

230.8/4 , 231.8/4, 232.8/4, 233.8/4, 234.8/4



230/4MB1

Trusa capete chei tubulare de impact 3/8 in cutie metalica

3/8"

- *Dimensiunea cutiei: 197 x 105 x 38*



	Nº				
612590	**230/4MB1**	8 - 22 / 16	1125	G	**390,41**

230/4 6p (8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 22),
230.4/4 (3/8" x 75), **230.8/4** (6 - 12, 13 - 21, 22 - 22)

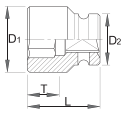
231/4 6p

Capete chei tubulare de IMPACT 1/2"

1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*
- *in conformitate cu standardul ISO 2725-2 (numai dimensiunile in mm)*





		D1	D2	L	T			
603962	10	17.5	25	38	12	94	B	**21,08**
603963	11	18.7	25	38	12	95	B	**21,08**

		D1	D2	L	T			
603964	12	20	25	38	12	95	B	21,08
603965	13	21.3	25	38	12	96	B	21,08
603966	14	22.5	25	38	12	95	B	21,74
603967	15	23.7	30	38	12	140	B	24,02
603968	16	25	30	38	12	143	B	24,51
603969	17	26.2	30	38	13	140	B	24,51
609399	18	27.5	30	38	13	135	B	27,63
603970	19	28.7	30	38	13	126	B	27,63
603971	21	30	30	38	13	139	B	31,64
603972	22	32	30	38	13	133	B	31,64
603973	23	32	30	38	13	183	B	32,69
603974	24	35	30	45	20	235	B	34,10
603975	27	38.7	30	50	24	235	B	42,28
609400	28	40	30	50	24	255	B	46,29
603976	30	42	30	50	24	259	B	47,92
605548	32	42	30	50	24	72	B	51,83

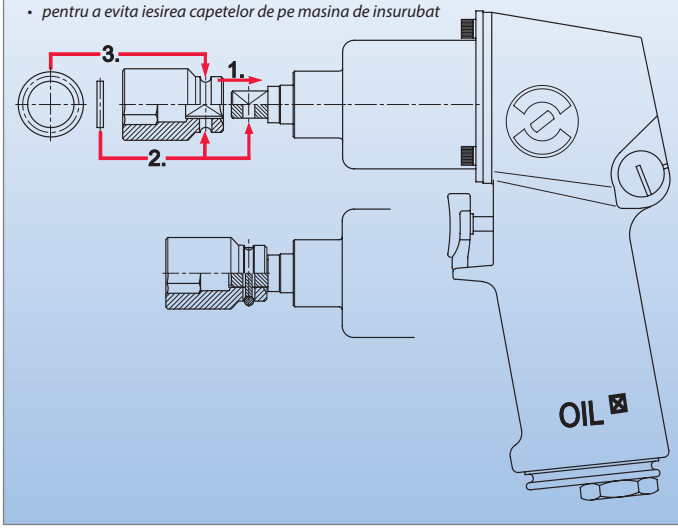
231/4

Utilizarea inelului si a stiftului pentru capetele de IMPACT

Capetele chei tubulare de impact sunt in principal utilizate pe masini de insurubat

Datorita sarcinilor la care sunt supuse aceste scule in timpul insurubarii pe masini, urma- toarele conditii au fost luate in considerare la executia acestora pentru o utilizare lunga

- *Otel special de scule cu compozitie garantata*
- *Tratament termic de inalta acuratete pentru obtinerea de valori inalte ale momentelor de strangere*
- *Constructie robusta a capetelor de impact*
- *Sistem de blocare si protectie a capetelor de impact cu inel si bolt de blocare pe masina*
- *pentru a evita iesirea capetelor de pe masina de insurubat*

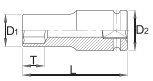


231/4L6p

Capete chei tubulare de IMPACT lungi 1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





		D1	D2	L	T			
607918	10	17.5	25	78	14	144	B	35,20
607919	11	18.7	25	78	14	166	B	35,20
607920	12	20	25	78	14	160	B	35,20
607921	13	21.3	25	78	14	168	B	35,20
607922	14	22.5	25	78	17	174	B	35,20
607923	15	23.7	30	78	17	226	B	42,06

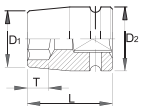
		D1	D2	L	T			
607924	16	25	30	78	17	259	B	42,06
607925	17	26.2	30	78	17	244	B	42,06
609401	18	27.5	30	78	17	257	B	42,06
607926	19	28.7	30	78	19	265	B	42,06
607927	21	30	30	78	24	280	B	42,06
607928	22	32	30	78	24	292	B	43,87
607929	23	32	30	78	24	275	B	44,62
607930	24	35	30	78	24	337	B	51,17
607931	27	38.7	30	78	24	395	B	56,58
609402	28	40	30	78	24	395	B	60,02
607932	30	42	30	78	24	432	B	59,00
607933	32	44	30	78	24	421	B	62,22

231/4NS

Capete chei tubulare de impact 1/2" cu profil special de protectie

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*
- *in conformitate cu standardul ISO 2725-2(numai dimensiunile in mm)*





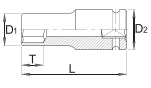
			D1	D2	L	T			
618925		10	15.6	22.6	38.1	7.5	70	B	35,38
619144		11	17.8	22.6	38.1	8.5	72	B	36,12
619145		12	18.2	24.3	38.1	10	85	B	36,12
618926		13	19.3	24.3	38.1	10	85	B	36,12
618927		14	22	24.3	38.1	10.5	87	B	36,12
618928		15	23.2	26.6	38.1	10.5	108	B	36,12
618929		16	24.3	26.6	38.1	12	108	B	37,88
618930		17	25.4	26.6	38.1	12.5	108	B	37,88
618931		18	26.6	26.6	38.1	12.5	108	B	37,88
618932		19	28.3	28.3	38.1	12.5	118	B	41,27
618933		21	31.5	31.5	38.1	14	150	B	46,73
618934		22	33.1	33.1	38.1	14	167	B	49,24
618935		23	33.8	33.8	44.5	16	207	B	51,00
618936		24	34.8	34.8	44.5	16	208	B	54,74
618937		25	36.4	36.4	44.5	19.5	222	B	58,30
618938		26	37.8	37.8	50.8	19.5	276	B	63,45
618939		27	39.4	39.4	50.8	20	287	B	63,45

231/4LNS

Capete chei tubulare de impact 1/2" cu profil special de protectie, varianta lunga

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





			D1	D2	L	T			
618940		10	17.5	24.8	80	13	145	B	52,10
619146		11	19	24.8	80	13	148	B	54,74

		D1	D2	L	T			
619147	12	20	24.8	80	14	158	B	54,74
618941	13	21	24.8	80	15	160	B	54,74
618942	14	23	24.8	80	15	187	B	54,74
618943	15	24	24.8	80	16	195	B	55,48
618944	16	25	24.8	80	16	196	B	55,48
618945	17	26.5	29.8	80	17	249	B	56,50
618946	18	28	29.8	80	18	265	B	56,50
618947	19	29	29.8	80	19	265	B	56,50
618948	21	31.8	30	80	21	305	B	65,21
618949	22	33	30	80	22	315	B	65,21
618950	23	33.8	30	80	23	298	B	69,74
618951	24	34.8	30	80	24	328	B	113,34
618952	25	36.3	30	80	25	350	B	113,34
618953	26	37.8	30	80	26	377	B	113,34
618954	27	39	30	80	27	397	B	113,34

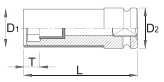
231/4P

Capete de IMPACT 1/2" pentru roti din aliaj

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *cu protectie din plastic*
- *forjata, calire si revenire totala*







		D1	D2	L	T			
616762	15	24	30	80	14	190	B	65,21
616763	17	27	30	85	14	225	B	68,02
616764	19	29	30	85	15	237	B	68,02
616765	21	31	30	85	17	262	B	69,04

231/4P.1

Protectie de plastic pentru 231P



616766	15	11	E	3,70
616767	17	12	E	3,70
616768	19	13	E	3,70
616769	21	13	E	3,70

231/4PCB

Set de capete chei tubulare 1/2" pentru roti din aliaj



	№				
616770	231/4PCB	17 - 21 / 3	730	K	205,08
	231/4P (17, 19, 21)				

231/4PPB

Trusa capete chei tubulare 1/2" de impact pentru genti de aliaj in cutie de plastic

- *Dimensiunea cutiei: 197 x 167 x 47*



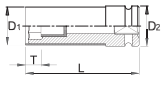
	№				
619965	231/4PPB	17 - 21 / 3	920	G	252,69
	231/4P (17, 19, 21), 981PBM1 (197 x 167 x 47)				

231/4PL

Capete chei tubulare de impact 1/2" pentru genti din aliaj, varianta lunga

- *material:crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *cu protectie din plastic*
- *forjata, calire si revenire totala*





		D1	D2	L	T			
619015	17	27	25	130	24	305	B	108,33
619016	19	29	30	130	24	360	B	114,14
619017	21	31	30	130	24	405	B	121,13



231/4PLPB

Trusa capete chei tubulare 1/2" de impact varianta lunga pentru genti de aliaj in cutie de plastic

- *Dimensiunea cutiei: 197 x 167 x 47*



	№				
619966	231/4PLPB	17 - 21 / 3	1245	G	391,25

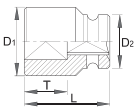
231/4PL (17, 19, 21), **981PBM1** (197 x 167 x 47)

231/4SQ

Capete de IMPACT 1/2" cu patru laturi

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





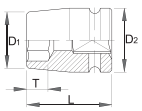
	L	D1	D2	T			
616625	17	40	32	30	20	161	B	39,69
616626	19	45	36	30	20	222	B	46,46
616627	22	45	42	30	20	278	B	66,92
616628	24	50	44	30	22	335	B	74,45
616629	30	50	53	30	22	457	E	86,90
616655	32	50	56	30	22	474	E	107,49

231/4TX

Adaptor de IMPACT cu profil TX interior 1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





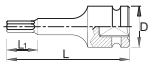
		D1	D2	L	T			
612880	E 10	15	25	38	7.5	90	B	33,53
612881	E 12	16	25	38	8.5	90	B	34,10
612882	E 14	18.5	25	38	10	95	B	34,10
612883	E 16	20	25	38	11	95	B	34,10
612884	E 18	22	25	38	12	95	B	35,86
612885	E 20	25	30	38	13.5	145	B	35,86
612886	E 24	28.5	30	45	21	170	B	36,78

231/4AHX

Capete chei tubulare de IMPACT cu profil hexagonal exterior 1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





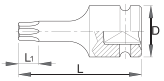
		D	L	L1			
615218	5	25	75	15	85	B	37,62
615219	6	25	75	15	93	B	37,62
615220	8	25	75	25	95	B	37,62
615221	10	25	75	25	114	B	37,62
615222	12	25	75	25	130	B	37,62
615223	14	25	75	25	148	B	37,62
615224	17	25	75	25	183	B	42,50
615225	19	25	75	25	207	B	48,22
618749	3/16"	25	75	11	85	B	37,62
618750	7/32"	25	75	15	90	B	37,62
618751	1/4"	25	75	15	95	B	37,62
618752	9/32"	25	75	20	97	B	37,62
618753	5/16"	25	75	25	100	B	37,62
618754	3/8"	25	75	25	115	B	37,62
618755	7/16"	25	75	25	125	B	37,62
618756	1/2"	25	75	25	139	B	37,62
618757	9/16"	25	75	25	152	B	37,62
618758	5/8"	25	75	25	170	B	37,62
618759	11/16"	25	75	25	189	B	37,62
618760	3/4"	25	75	25	205	B	37,62

231/4ATX

Adaptor de IMPACT cu profil TX exterior 1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





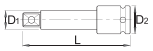
		D	L	L1			
612874	TX 30	25	55	3.3	86	B	**41,84**
612875	TX 40	25	55	3.3	86	B	**44,88**
612876	TX 45	25	55	3.6	86	B	**45,32**
612877	TX 50	25	55	4.5	92	B	**45,32**
612878	TX 55	25	55	5	95	B	**55,31**
612879	TX 60	25	55	7.2	105	B	**60,81**
618761	TX 70	25	55	8.6	111	B	**63,40**

231.4/4

Prelungitor lung de IMPACT 1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





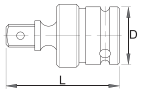
		L	D1	D2			
603978	1/2"	75	16.9	25	148	E	**43,43**
603977	1/2"	125	16.9	25	230	E	**52,40**

231.6/4

Intermediar cardanic de IMPACT 1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





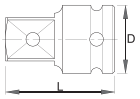
		D	L			
609460	1/2"	32	60	209	E	**101,82**

231.7/4

Adaptor de IMPACT 1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





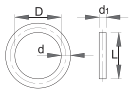
		D	L			
603979	1/2" - 3/4"	30	48	169	E	**55,75**
612120	1/2" - 3/8"	25	38	70	E	**50,64**

231.8/4

Acessorii de IMPACT 1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*





		D	d	L	d1			
603997	10 - 14	20	4	20	3	8	E	**16,59**
603998	15 - 32	25	4	25	3	9	E	**24,51**

231/4PB1

Trusa capete chei tubulare de impact 1/2 in cutie metalica

- *Dimensiunea cutiei: 244 x 207 x 59*



	Nº				
612506	**231/4PB1**	15 - 30 / 12	1915	G	**440,88**

231/4 6p (15, 17, 18, 19, 21, 22, 24, 27, 30), **231.4/4** (1/2" x 75), **231.8/4** (10 - 14, 15 - 32)

231/4PB2

Trusa capete chei tubulare de impact 1/2 in cutie metalica

- *Dimensiunea cutiei: 244 x 207 x 59*



	№				
612507	**231/4PB2**	15 - 30 / 12	3508	G	**570,46**

231.4/4 (1/2" x 75), **231.8/4** (10 - 14, 15 - 32), **231/4L6p** (15, 17, 19, 21, 22, 24, 27, 30, 18)

231/4PB3

Trusa capete chei tubulare de impact 1/2 in cutie metalica

- *Dimensiunea cutiei: 244 x 207 x 59*



	№				
612508	**231/4PB3**	17 - 24 / 12	2810	G	**505,52**

231/4 6p (17, 18, 19, 21, 22, 24), **231/4L6p** (17, 18, 19, 21, 22, 24)

231/4PB4

Trusa capete chei tubulare de impact 1/2 cu profil TX interior si exterior in cutie metalica

- *Dimensiunea cutiei: 244 x 207 x 44*



	№				
615227	**231/4PB4**	13	1551	G	**603,33**

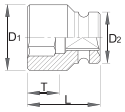
231/4TX (E 10, E 12, E 14, E 16, E 18, E 20, E 24), **231/4ATX** (TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)

232/4 6p

Capete chei tubulare de IMPACT 3/4"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*
- *in conformitate cu standardul ISO 2725-2 (numai dimensiunile in mm)*





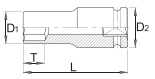
		D1	D2	L	T			
603980	17	31	44	50	12	374	E	**73,08**
603981	19	33	44	50	14	387	E	**73,08**
603982	21	35	44	50	14	381	E	**75,02**
603983	22	37	44	50	14	400	E	**75,02**
603984	24	39	44	50	16	401	E	**75,02**
603985	27	43	44	54	23	410	E	**75,15**
609403	28	44	44	54	23	403	E	**75,15**
603986	30	47	44	54	23	438	E	**75,15**
603987	32	50	44	56	23	481	E	**75,64**
603988	33	51	44	56	23	497	E	**78,63**
603989	36	54	44	56	23	535	E	**80,48**
603990	41	60	44	58	24	634	E	**100,28**
603991	46	67	44	63	27	813	E	**128,57**

232/4L6p

Capete chei tubulare de IMPACT lungi 3/4"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





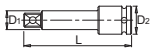
		D1	D2	L	T			
607934	17	31	44	95	17	587	E	**110,66**
607935	19	33	44	95	19	580	E	**110,66**
607936	21	35	44	95	21	589	E	**110,66**
607937	22	37	44	95	22	643	E	**110,66**
607938	24	39	44	95	24	656	E	**110,66**
607939	27	43	44	95	27	731	E	**110,66**
609404	28	44	44	95	28	708	E	**110,66**
607940	30	47	44	95	30	802	E	**110,66**
607941	32	49	44	95	32	821	E	**110,66**
607942	33	51	44	95	33	906	E	**115,59**
607943	36	54	44	95	36	944	E	**126,72**
607944	41	60	44	95	38	1078	E	**146,12**
607945	46	67	44	95	38	1298	E	**181,63**

232.4/4

Prelungitor lung de IMPACT 3/4"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





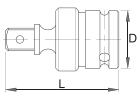
		L	D1	D2			
603993	3/4"	175	25.5	44	882	E	**146,30**
603992	3/4"	250	25.5	44	1245	E	**173,40**

232.6/4

Intermediar cardanic de IMPACT 3/4"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





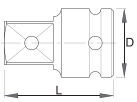
		D	L			
603994	3/4"	44	90	539	E	**222,95**

232.7/4

Adaptor de IMPACT 3/4"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





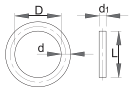
		D	L			
603995	3/4" - 1/2"	44	56	323	E	**90,73**
618708	3/4" - 1"	44	63	443	E	**94,47**

232.8/4

Accesorii de IMPACT 3/4"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*





			D	d	L	d1			
603996	3/4"	17 - 46	35	4.5	35	4	11	E	**30,18**

232PB1

Trusa capete chei tubulare varianta lunga 3/4"

- *Dimensiunea cutiei: 307 x 260 x 70*



	Nº				
621459	**232PB1**	24 - 36 / 7	5340	G	**824,34**

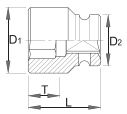
232/4L6p (24, 27, 30, 32, 33, 36), **232.8/4** (3/4"), **981PBM2** (307 x 260 x 74)

233/4 6p

Capete chei tubulare de IMPACT 1"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*
- *in conformitate cu standardul ISO 2725-2 (numai dimensiunile in mm)*





		D1	D2	L	T			
615195	22	40	54	58	17	677	C	**105,64**
615196	24	42	54	58	17	679	C	**105,64**
615197	27	46	54	58	17	694	C	**105,64**
615198	30	50	54	60	21	726	C	**105,64**
615199	32	52	54	60	21	704	C	**105,64**
615200	33	53	54	60	21	703	C	**117,44**
615201	34	55	54	62	21	688	C	**117,44**
615202	36	56	54	65	30.5	785	C	**117,44**
615203	38	59	54	65	30	844	C	**139,04**

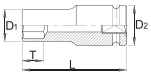
		D1	D2	L	T			
615204	41	63	54	67	31	933	C	**139,04**
615205	42	64	54	74	38	1055	C	**152,15**
615206	46	69	54	74	38	1174	C	**152,15**
615207	50	74	54	80	42	1367	C	**175,25**
615208	55	80	54	84	44.5	1632	C	**183,92**
615209	60	86	54	87	44.5	1715	C	**206,89**
615210	65	92	54	90	46.5	1962	C	**315,00**
615211	70	99	54	96	51	2370	C	**373,03**
615212	75	104	86	98	52	3364	C	**423,28**
615213	80	109	86	100	53	3656	C	**455,40**

233/4L6p

Capete de IMPACT varianta lunga

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





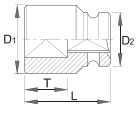
		D1	D2	L	T			
616771	22	40	54	100	21	879	C	**153,78**
616772	24	42	54	100	21	921	C	**153,78**
616773	27	46	54	100	24	1012	C	**153,78**
616774	30	50	54	100	24	1075	C	**153,78**
616775	32	52	54	100	24	1090	C	**153,78**
616776	33	53	54	100	24	1109	C	**153,78**
616777	34	55	54	100	40	1162	C	**153,78**
616778	36	56	54	100	65	1207	C	**153,78**
616779	38	59	54	100	65	1222	C	**153,78**
616780	41	63	54	100	64	1367	C	**165,31**
616781	42	64	54	100	64	1380	C	**169,80**
616782	46	69	54	100	63	1613	C	**187,92**
616783	50	74	54	100	62	1793	C	**208,87**
616784	55	80	54	100	60	1976	C	**269,54**
616785	60	86	54	120	78	2726	C	**369,16**
616786	65	92	54	125	80	3192	C	**408,14**
616787	70	99	54	125	80	3595	C	**459,45**
616788	75	104	86	135	85	4512	C	**629,07**
616789	80	109	86	135	85	5532	C	**652,96**

233/4SQ

Capete chei tubulare de impact 1" cu 4 laturi

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





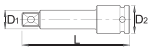
		D1	D2	L	T			
618763	18	42	52	57	24	572	C	**103,93**
618764	23	48	54	60	27	672	C	**126,46**
618762	1"	52	54	60	27	698	C	**126,46**

233.4/4

Prelungitor de IMPACT 1"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





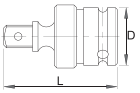
		L	D1	D2			
615214	1"	175	34	54	1505	C	**182,20**
615215	1"	250	34	54	2019	C	**219,08**

233.6/4

Intermediar cardanic de IMPACT 1"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





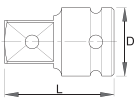
		D	L			
615216	1"	54	110	1051	C	**451,40**

233.7/4

Adaptor de IMPACT 1"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





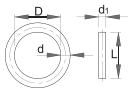
		D	L			
615217	1" - 3/4"	54	75	661	C	**97,15**
617303	1" - 1.1/2"	54	90.5	1107	C	**178,86**

233.8/4

Accesorii de IMPACT 1"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*





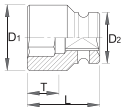
		D	d	L	d1			
615254	22 - 70	46	3.5	43	5	21	E	**30,18**
615255	75 - 80	75	5.7	75	6	38	E	**30,18**

234/4 6p

Capete de IMPACT 1.1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*
- *in conformitate cu standardul ISO 2725-2 (numai dimensiunile in mm)*





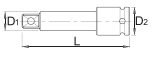
		D1	D2	L	T			
616790	80	116	86	110	54	5224	C	**953,83**
616791	85	125	86	118	52	5688	C	**1.011,52**
616793	90	130	86	118	52	6395	C	**1.090,36**
616794	95	138	86	118	52	6995	C	**1.204,81**
616795	100	140	86	125	59	7995	C	**1.406,50**
616796	105	150	95	125	59	8995	C	**1.524,60**
616797	110	156	95	125	59	8995	C	**1.576,83**
616798	115	160	95	135	67	9035	C	**1.796,70**
616799	120	168	95	135	67	10195	C	**1.951,40**

234.4/4

Prelungitor de IMPACT 1,1/2

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





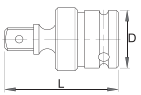
		L	D1	D2			
617708	1.1/2"	125	49	86	3365	C	**1.043,50**
617709	1.1/2"	250	49	86	5652	C	**1.799,42**
617710	1.1/2"	500	49	86	9195	C	**2.990,81**

234.6/4

intermediar cardanic de IMPACT 1,1/2

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





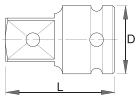
		L	D			
617689	1.1/2"	182	86	4098	C	**1.760,13**

234.7/4

Adaptor de IMPACT 1.1/2"

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*
- *forjata, calire si revenire totala*





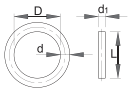
		D	L			
616800	1.1/2" - 1"	86	100	2203	C	**660,84**
617711	1.1/2" - 2.1/2"	86	120	3986	C	**891,75**
617712	1.1/2 - 5S	86	125	2509	C	**911,06**

234.8/4

1.1/2" accesorii de IMPACT

- *material: crom molibden*
- *acoperire prin brunare dupa standardul DIN 12476*





		D	d	L	d1			
617126	80 - 90	75	5.7	75	6	55	E	**29,57**
617127	95 - 120	85	5.7	84	6	40	E	**29,57**

Clesti

Procedeul special de fabricare a clestilor

1. Tăiere
2. Forjare
3. Tăiere
4. Perforare
5. Debavurare și șlefuire
6. Marcare de către mașină și îndoire
7. Broșare
8. Călire
9. Sablare și șlefuire
10. Cromare



Articolele cu mânere de culoare albastră nu sunt disponibile spre vânzare în Statele Unite ale Americii și Canada. Articolele pot fi livrate cu mânere de culoare roșie.

Caracteristicile clestilor Unior

Trei modele:

- material: otel de compozitie speciala pretabil la tratament termic
- forjati, tratament termic integral
- partile taietoare tratate prin inductie
- capete luciu oglinda
- acoperire: cromare
- manere pentru conditii grele cu doua componente
- marcaj UNIOR stantat



- material: otel de compozitie speciala pretabil la tratament termic
- forjati, tratament termic integral
- partile taietoare tratate prin inductie
- capetele mate
- acoperire fosfatare
- manere pentru lucrul in conditii grele



- material: otel de compozitie speciala pretabil la tratament termic
- forjati, tratament termic integral
- partile taietoare tratate prin inductie
- capetele mate
- acoperire fosfatare
- manere pentru lucrul in conditii grele



Mânere ergonomice

Avand manerele ergonomice si design special pentru asigurarea prinderii, clestii Unior confera un maxim de confort in lucru, eficacitate inalta cu minim de efort.

Protectie a suprafetelor

Clestii sunt confectionati din oteluri speciale cu o compozitie imbunatatita. Multe dintre modele au suprafetele protejate prin cromare.

Precizie inalta

Cu un design perfect si o tehnologie de executie inalta, clestii Unior asigura o mare precizie in lucru atat pentru operatii generale cat si pentru cele particulare.

Adaptabilitate

Adaptabilitate perfecta pentru lucrari specifice, efort minim!


Clesti combinati si seturi clesti 108 - 110


Clesti tais lateral si clesti cu tais fata 110 - 112


Clesti cu varfuri late si clesti cu varfuri rotunde 112 - 114


Clesti reglabili si clesti reglabili cu caneluri 114 - 117

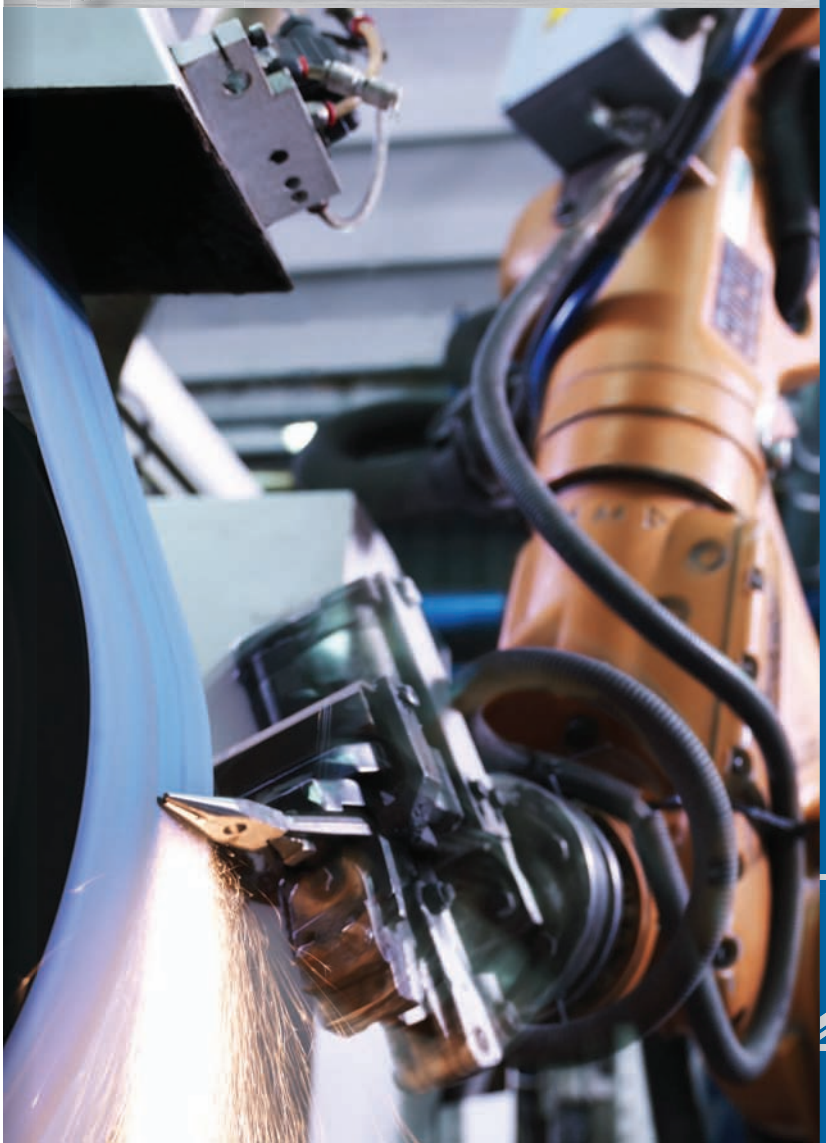

Clesti de sertizat si conectori rotunzi 118 - 124


Clesti inele de siguranta 124 - 126


Clesti pentru cuie si clesti pentru plasa de sarma 126 - 127


Cleste menghina 128 - 130


Clesti pentru ceramica si clesti pentru perforat 131



UNIOR®

401PB6

Set de cleste si surubelnita in cutie de plastic

- *Dimensiunea cutiei: 244 x 207 x 44*



	№				
621420	401PB6	6	780	G	274,16

461/1BI (160), **506/1BI** (140), **605TBI** (0.4 x 2.5 x 75, 0.5 x 3.0 x 80), **615TBI** (PH 0 x 60, PH 1 x 80), **981PBS5** (244 x 207 x 44)

402A

Set de clesti in display de carton



	№				
617818	402A	3	1070	G	213,53

406/1BI (180), **461/1BI** (160), **445/1BI** (240)

402B

Set de clesti in display de carton



	№				
617933	402B	3	1030	G	169,84

406/4G (180), **461/4G** (160), **445/4G** (240)

404A

Set de scule pentru utilizatorii pasionați în cutie de plastic

- *Dimensiunea cutiei: 393 x 331 x 95*



	№				
623100	404A	43	3900	G	979,35

110/2 (8 x 10, 13 x 17, 19 x 24), **710R** (3), **812** (300), **406/1BI** (180), **447/1HPP** (245), **514/1BI** (160), **478/1BI** (160), **461/1BI** (140), **660/6** (100), **220/3PH,** **556B** (160), **188.8** (1/4"), **188.9** (1/4" - 1/4"), **6466C6,3** (PZ 1, PZ 2, PZ 3), **6472C6,3** (TX 8, TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **6469C6,3** (3, 4, 5, 6), **6463C6,3** (PH 1, PH 2), **1250** (300), **630VDE** (0.5 x 3.0 x 140), **981PB4** (393 x 331 x 95)

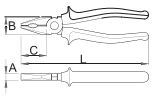
405/1BI

Clesti combinati maner bimateial

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5746*







	L	B	C	A			
607867	160	24	35	9.5	224	B	60,76
607868	180	27	38	10	273	B	65,60
607869	200	29	41	10.5	351	B	70,53

capacitatea de taiere (10N=1kg)

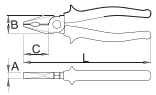
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
607867	160	1,6	2,0
607868	180	1,8	2,5
607869	200	2,0	2,5

405/4G

Clesti combinati

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire:fosfatare*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5746*





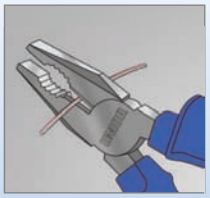
	L	B	C	A			
608668	160	24	35	9.5	224	B	45,23
608669	180	27	38	10	273	B	48,97
608670	200	29	41	10.5	351	B	53,42

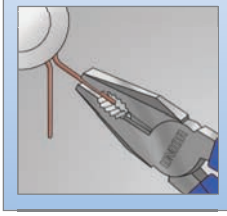
capacitatea de taiere (10N=1kg)

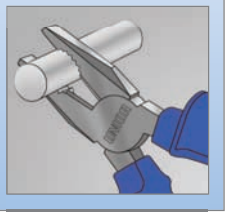
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
608668	160	1,6	2,0
608669	180	1,8	2,5
608670	200	2,0	2,5

CARACTERISTICI ALE:

405/4G, 405/1BI, 405/4P, 406/1BI



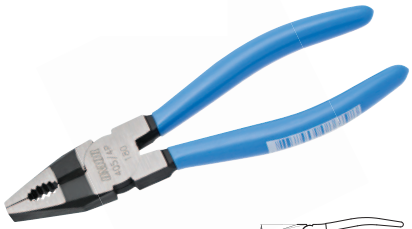


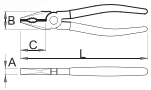


405/4P

Clesti combinati

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire:fosfatare*
- *manere de plastic*
- *in conformitate cu standardul ISO 5746*





	L	B	C	A			
608678	160	24	35	9.5	171	B	**40,83**
608679	180	27	38	10	230	B	**44,92**
608680	200	29	41	10.5	274	B	**48,75**

capacitatea de taiere (10N=1kg)

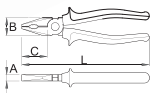
	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
608678	160	1,6	2,0
608679	180	1,8	2,5
608680	200	2,0	2,5

406/1BI

Clesti combinati

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *in conformitate cu standardul ISO 5746*





	L	B	C	A			
607870	160	24	35	9.5	224	B	**57,33**
607871	180	27	38	10	274	B	**60,32**
607872	200	29	41	10.5	341	B	**66,53**
608354	220	32	47	11	421	B	**78,50**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
607870	160	1,6	2,0
607871	180	1,8	2,5
607872	200	2,0	2,5
608354	220	2,0	3,0

406/1BIST

Set de clești combinați în display de carton



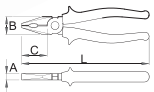
	№				
621854	**406/1BIST**	6	2100	G	**408,89**
	406/1BI (180)				

406/4G

Clesti combinati

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire:fosfatare*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5746*





	L	B	C	A			
608673	140	23	32	8	157	B	**42,68**
608674	160	24	35	9.5	224	B	**44,00**
608675	180	27	38	10	274	B	**47,26**
608676	200	29	41	10.5	341	B	**49,85**
608677	220	32	47	11	421	B	**60,15**

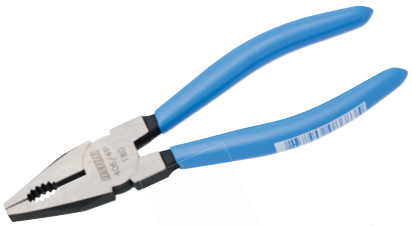
capacitatea de taiere (10N=1kg)

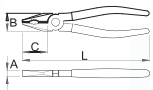
	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
608673	140	1,6	2,0
608674	160	1,6	2,0
608675	180	1,8	2,5
608676	200	2,0	2,5
608677	220	2,0	3,0

406/4P

Clesti combinati

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire:fosfatare*
- *manere de plastic*
- *in conformitate cu standardul ISO 5746*





	L	B	C	A			
608681	140	23	32	8	128	B	**39,51**
608682	160	24	35	9.5	184	B	**40,30**
608683	180	27	38	10	227	B	**43,38**
608684	200	29	41	10.5	278	B	**45,80**
608685	220	32	47	11	342	B	**55,35**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
608681	140	1,6	2,0
608682	160	1,6	2,0
608683	180	1,8	2,5
608684	200	2,0	2,5
608685	220	2,0	3,0



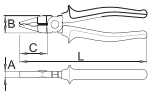
420/1BI

Clesti combinati cu gaura

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*







	L	B	C	A			
607873	180	24	45	11	241	B	**85,62**

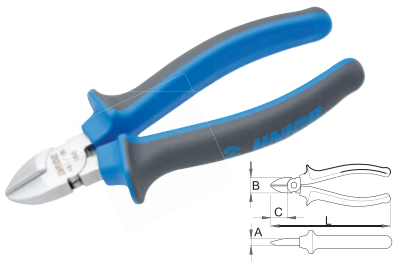
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
607873	180	1,8	2,5

461/1BI

Clesti tais lateral

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5749*



	L	B	A	C			
607883	140	19	9.5	18	169	B	**59,66**
607884	160	22.5	10	22	214	B	**62,22**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
607883	140	1,6	2,0
607884	160	1,6	2,5

461/1BIST

Set de clești cu tăiș lateral în display de carton



	№				
621855	**461/1BIST**	6	1700	G	**420,29**

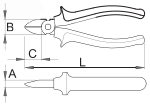
461/1BI (160)

461/4G

Clesti tais lateral

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform cu standardul DIN 12476*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5749*





	L	B	A	C			
608697	140	19	9.5	18	169	B	**46,82**
608698	160	22.5	10	22	214	B	**50,69**

capacitatea de taiere (10N=1kg)

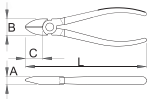
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
608697	140	1,6	2,0
608698	160	1,6	2,5

461/4P

Clesti tais lateral

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform cu standardul DIN 12476*
- *manere de plastic*
- *in conformitate cu standardul ISO 5749*





	L	B	A	C			
612327	125	19	9.5	18	115	B	**42,90**
608695	140	19	9.5	18	134	B	**42,90**
608696	160	22.5	10	22	172	B	**46,73**

capacitatea de taiere (10N=1kg)

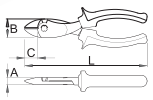
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
612327	125	1,6	2,0
608695	140	1,6	2,0
608696	160	1,6	2,5

466/1BI

Clesti tais lateral pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5749*





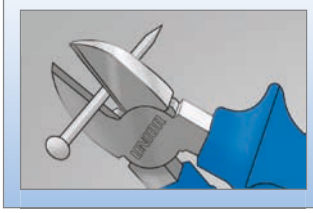
	L	B	A	C			
617686	160	23.5	10	20.5	214	B	**73,30**
608850	180	28	11	20	313	B	**87,08**
608837	200	27	11	21	344	B	**100,06**

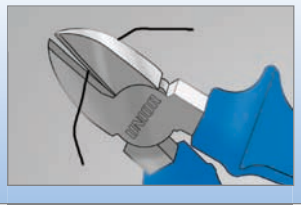
capacitatea de taiere (10N=1kg)

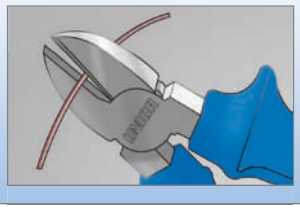
	L	max 2150 N/mm² TØ	max 650 N/mm² TØ
617686	160	1,6	2,5
608850	180	1,8	3,0
608837	200	2,0	3,5

CARACTERISTICI ALE:

461/1BI, 461/4G, 461/4P





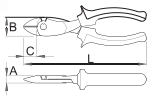


466/4G

Clesti tais lateral pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5749*





	L	B	A	C			
617687	160	23.5	10	20.5	214	B	**69,48**
608700	180	28	11	20	313	B	**69,08**
609190	200	27	11	21	344	B	**81,40**

capacitatea de taiere (10N=1kg)

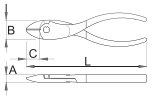
	L	max 2150 N/mm² TØ	max 650 N/mm² TØ
617687	160	1,6	2,5
608700	180	1,8	3,0
609190	200	2,0	3,5

466/4P

Clesti tais lateral pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *in conformitate cu standardul ISO 5749*





	L	B	A	C			
617688	160	23.5	10	20.5	178	B	**54,47**
608699	180	28	11	20	283	B	**62,61**
609191	200	27	11	21	303	B	**75,37**

capacitatea de taiere (10N=1kg)

	L	max 2150 N/mm² TØ	max 650 N/mm² TØ
617688	160	1,6	2,5
608699	180	1,8	3,0
609191	200	2,0	3,5

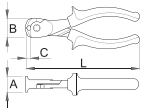


455/1BI

Clesti tais fata

- *material: Ck 60*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu*
- *standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5748*





	L	B	A	C			
609192	160	27	22	7	254	B	**80,04**

capacitatea de taiere (10N=1kg)

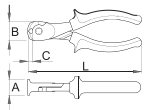
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
609192	160	1,6	2,5

455/4G

Clesti tais fata

- *material: Ck 60*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform cu standardul DIN 12476*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5748*





	L	B	A	C			
608694	160	27	22	7	254	B	**65,25**

capacitatea de taiere (10N=1kg)

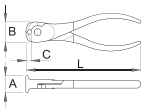
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
608694	160	1,6	2,5

455/4P

Clesti tais fata

- *material: Ck 60*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform cu standardul DIN 12476*
- *manere de plastic*
- *in conformitate cu standardul ISO 5748*





	L	B	A	C			
608693	160	27	22	7	216	B	**60,28**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
608693	160	1,6	2,5



457/4AP

Clesti tais fata

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform cu standardul DIN 12476*
- *manere de plastic*
- *in conformitate cu standardul ISO 5748*



	L	B	A	C			
618648	180	31.5	28	12.5	244	B	**97,90**

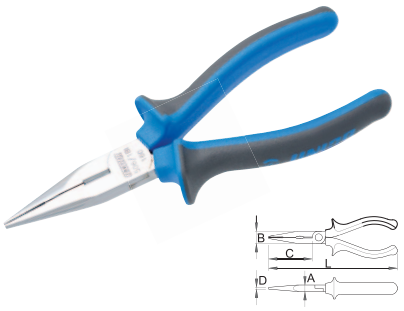
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
618648	180	1,6	2,5

506/1BI

Clesti cu varfuri semirotunde si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*



	L	B	D	A	C			
607874	140	15	2	8	39	115	B	**58,70**
607875	160	16	2.5	9	49	137	B	**63,05**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
607874	140	1,6	2,0
607875	160	1,6	2,0

506/4G

Clesti cu varfuri semirotunde si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*



	L	B	D	A	C			
608712	140	15	2	8	39	115	B	**41,14**
608713	160	16	2.5	9	49	137	B	**46,73**

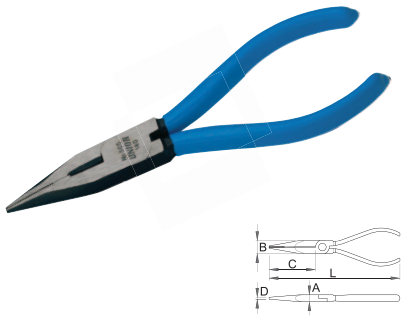
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
608712	140	1,6	2,0
608713	160	1,6	2,0

506/4P

Clesti cu varfuri semirotunde si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*



	L	B	D	A	C			
608716	140	15	2	8	39	89	B	**37,62**
608717	160	16	2.5	9	49	111	B	**42,68**

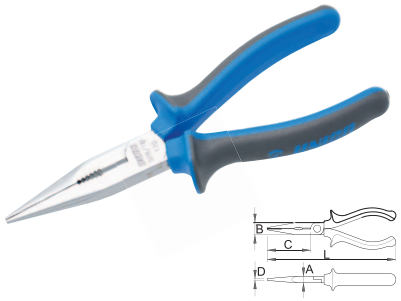
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
608716	140	1,6	2,0
608717	160	1,6	2,0

508/1BI

Clesti cu varfuri semirotunde si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*



	L	B	D	A	C			
607876	170	17	2.5	9	61	156	B	**71,50**
607877	200	17	2.5	9	77	191	B	**74,01**

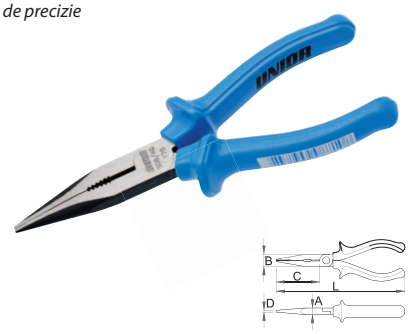
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
607876	170	1,6	2,0
607877	200	1,8	2,5

508/4G

Clesti cu varfuri semirotunde si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*



	L	B	D	A	C			
608710	170	17	2.5	9	61	156	B	**54,12**
608711	200	17	2.5	9	77	191	B	**57,24**

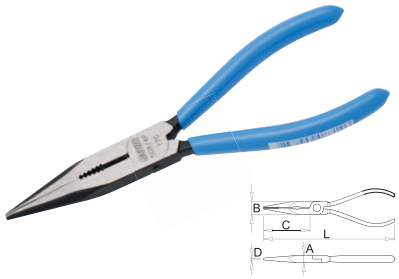
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
608710	170	1,6	2,0
608711	200	1,8	2,5

508/4P

Clesti cu varfuri semirotunde si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*



	L	B	D	A	C			
608714	170	17	2.5	9	61	124	B	**49,24**
608715	200	17	2.5	9	77	162	B	**52,23**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
608714	170	1,6	2,0
608715	200	1,8	2,5

512/4G

Clesti cu varfuri semirotunde indoite si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *partea de prindere dintata*
- *varfuri-semirotunde indoite la 45 de grade*
- *maner de plastic pentru conditii grele*
- *varfurile lungi si indoite asigura prinderea sigura si precisa a suruburilor si piulitelor.*
- *falcile puternice asigura o strangere buna*



	L	B	D	A	C			
608720	170	17	2.5	9	61	152	B	**63,40**
608721	200	17	2.5	9	77	204	B	**66,75**

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
608720	170	1,6	2,0
608721	200	1,8	2,5

CARACTERISTICI ALE:

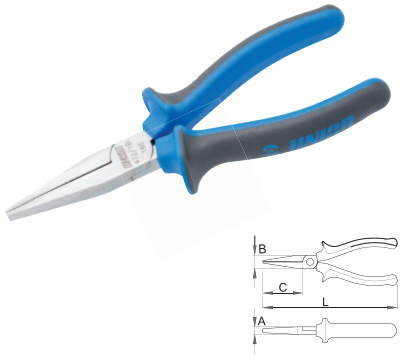
512/4P, 512/4G, 512/1BI



472/1BI

Clesti cu varfuri late

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*

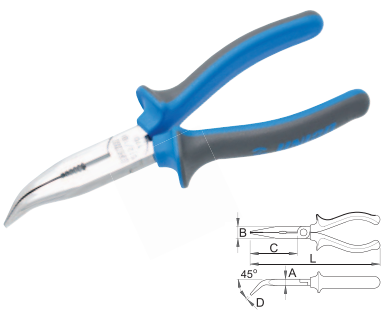


	L	B	C	A			
607878	140	15	39	8	120	B	**54,03**
607879	160	16	49	9	146	B	**58,52**

512/1BI

Clesti cu varfuri semirotunde indoite si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *varfuri-semirotunde indoite la 45 de grade*
- *varfurile lungi si indoite asigura prinderea sigura si precisa a suruburilor si piulitelor.*
- *falcile puternice asigura o strangere buna*



	L	B	D	A	C			
607966	170	17	2.5	9	61	152	B	**79,29**
607967	200	17	2.5	9	77	204	B	**82,76**

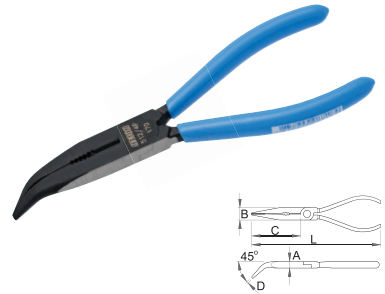
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
607966	170	1,6	2,0
607967	200	1,8	2,5

512/4P

Clesti cu varfuri semirotunde indoite si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *partea de prindere dintata*
- *varfuri-semirotunde indoite la 45 de grade*
- *varfurile lungi si indoite asigura prinderea sigura si precisa a suruburilor si piulitelor.*
- *falcile puternice asigura o strangere buna*



	L	B	D	A	C			
608718	170	17	2.5	9	61	123	B	**57,68**
608719	200	17	2.5	9	77	166	B	**61,38**

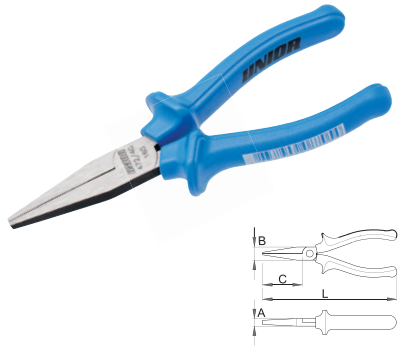
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
608718	170	1,6	2,0
608719	200	1,8	2,5

472/4G

Clesti cu varfuri late

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *partea de prindere dintata*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5745*

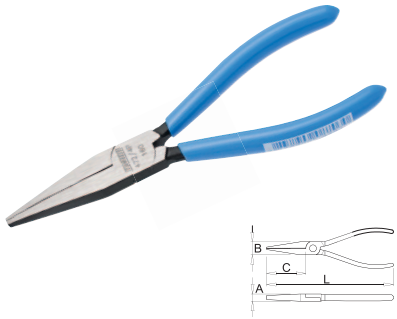


	L	B	C	A			
608704	140	15	39	8	120	B	**38,90**
608705	160	16	49	9	146	B	**42,46**

472/4P

Clesti cu varfuri late

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745*



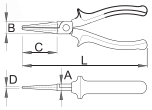
	L	B	C	A			
608702	140	15	39	8	84	B	35,64
608703	160	16	49	9	111	B	38,46

476/4G

Clesti cu varfuri rotunde

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *posibilitati mici de deteriorare a sarmei*
- *varfurile lungi asigura prinderea sarmei in locurile cele mai dificile*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5745*





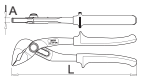
	L	B	A	C	D			
608708	140	15	9	39	2	116	B	39,20
608709	160	16	10	49	2.5	126	B	42,59

447/1HPP

Clesti pentru pompe de apa

- *material: crome vanadium*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *dantura dintilor este conceputa pentru a asigura strangerea sigura a piesei*
- *deschiderea falcilor reglabila in 10 pozitii*
- *Clestii HPP sunt prevazuti cu un buton pentru reglarea rapida a deschiderii falcilor, asigurand o rapida si precisa adaptare a acestora pe piesa*
- *Strangere ferma: designul si forma falcilor asigura o mai buna strangere a piesei, avand ca rezultat stabilitate, siguranta si un randament mai bun.*
- *Finisare: clestii sunt forjati si tratati din otel de inalta calitate, cu falcile tratate suplimentar prin inductie*
- *Lucrul cu clestele: cu toata constructia supla a acestuia, falcile asigura lucrul cu o singura mana in locurile de lucru extrem de dificile*
- *Confectionate din doua componente reducand alunecarea mainii in timpul lucrului si asigurand siguranta si eficienta a mainii in actionarea falcilor.*
- *Ergonomie: manerele sunt proiectate pentru o adaptare perfecta a mainii si asigura o mai mare strangere si siguranta.*





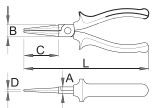
	L	A				
620172	245	8.5	40	392	B	129,14

476/1BI

Clesti cu varfuri rotunde

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *posibilitati mici de deteriorare a sarmei*
- *varfurile lungi asigura prinderea sarmei in locurile cele mai dificile*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5745*





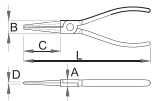
	L	B	A	C	D			
607880	140	15	9	39	2	116	B	55,04
607881	160	16	10	49	2.5	126	B	59,53

476/4P

Clesti cu varfuri rotunde

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *posibilitati mici de deteriorare a sarmei*
- *varfurile lungi asigura prinderea sarmei in locurile cele mai dificile*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *in conformitate cu standardul ISO 5745*

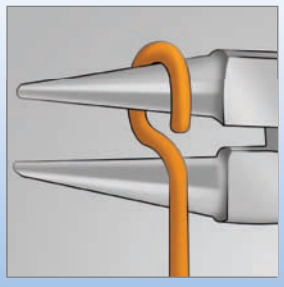


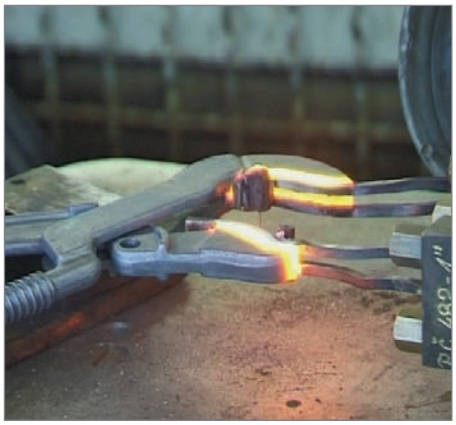


	L	B	A	C	D			
608706	140	15	9	39	2	89	B	35,77
608707	160	16	10	49	2.5	101	B	38,68

CARACTERISTICI ALE:

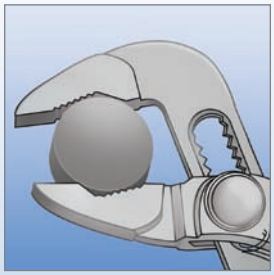
476/1BI, 476/4G, 476/4P

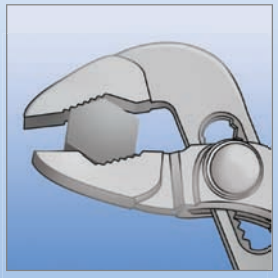




CARACTERISTICI ALE:

447/1HPP, 447/4PHPP





447/1BIHPPST

Set de clești reglabili în display



№					
621856	447/1BIHPPST	6	2750	G	821,74

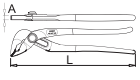
447/1HPP (245)

447/4PHPP

Clesti pentru instalatii

- *material: crome vanadium*
- *tratat complet*
- *acoperire: fosfatare*
- *cap vopsit*
- *manere de plastic*
- *dantura dintilor este conceputa pentru a asigura strangerea sigura a piesei*
- *deschiderea falcilor reglabila in 10 pozitii*
- *Clestii HPP sunt prevazuti cu un buton pentru reglarea rapida a deschiderii falcilor, asigurand o rapida si precisa adaptare a acestora pe piesa*
- *Strangere ferma: designul si forma falcilor asigura o mai buna strangere a piesei, avand ca rezultat stabilitate, siguranta si un randament mai bun.*
- *Finisare: clestii sunt forjati si tratati din otel de inalta calitate, cu falcile tratate suplimentar prin inductie*
- *Lucrul cu clestele: cu toata constructia supla a acestuia, falcile asigura lucrul cu o singura mana in locurile de lucru extrem de dificile*
- *Confectionate din doua componente reducand alunecarea mainii in timpul lucrului si asigurand siguranta si eficienta a mainii in actionarea falcilor.*
- *Ergonomie: manerele sunt proiectate pentru o adaptare perfecta a mainii si asigura o mai mare strangere si siguranta.*





L	A	max			
620421	245	8.5	40	353	B	98,47

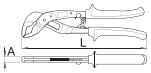
442/1HYPO

Clesti reglabili HYPO

- *material: compozitie speciala pentru calire revenire*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *tratat complet*











L	A	max			
616727	180	9.5	33	201	B	100,63
611780	240	9	40	397	B	125,66

442/1BIST

Set de clesti reglabili HYPO in display de carton



№					
615185	442/1BIST	6	2890	F	764,85

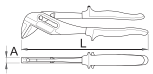
442/1HYPO (240)

449/1PYTHON

Clesti reglabili pentru instalatii

- *material: crom vanadiu*
- *tratat complet*
- *finisare: cromat in conformitate cu standardul EN12540*
- *deschiderea falcii reglabila in 7 pozitii*
- *falcile sunt intotdeauna paralele pentru protectia piesei asupra careia se actioneaza impotriva deteriorarii*
- *449.1 falci suplimentare din plastic pentru lucrul pe suprafete cromate si polizate*
- *manere bimaterial pentru conditii grele*





L	A	max			
615032	240	11	42	420	B	141,90
616725	300	15	63	709	B	170,90

449.1

Falca de plastic pentru 449/1PYTHON



615033	240	2	10	E	7,26
616726	300	2	12	E	7,26

449/1BIST

Set de clesti reglabili in display de carton



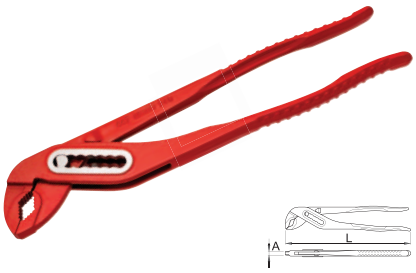
№					
615182	449/1BIST	6	3000	F	863,81

449/1PYTHON (240)

447/6

Cleste reglabil

- *material: crom vanadiu*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *forma speciala cu crestatura previne strivirea*
- *degetelor intre brate*
- *vopsit rosu*
- *deschiderea falcii reglabila in 7 pozitii*
- *in conformitate cu standardul ISO 8976*

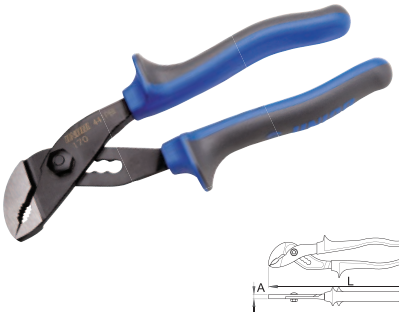


	L	A	maxi			
607348	175	6.5	26.5	154	B	**49,85**
603160	240	7.5	35	312	B	**66,53**
605006	300	8.5	42	464	B	**94,25**

441/4BI

Clesti reglabili

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere bimaterial pentru conditii grele*
- *articulatie culisanta*
- *deschiderea falcilor reglabila in 5 pozitii*
- *in conformitate cu standardul ISO 8976*

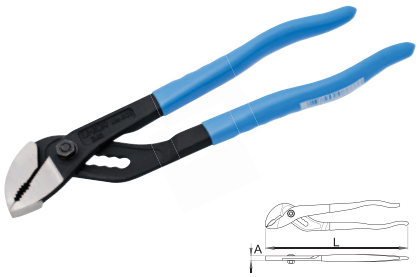


	L	A	maxi			
616729	170	13.8	30	179	B	**53,02**

441/4P

Clesti reglabili

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *cap vopsit*
- *manere de plastic*
- *articulatie culisanta*
- *acoperire: fosfatare conform*
- *standardului DIN 12476*
- *deschiderea falcilor reglabila in 5 pozitii*
- *in conformitate cu standardul ISO 8976*



	L	A	maxi			
616731	170	13.8	30	147	B	**45,50**
608686	240	7.5	35	297	B	**45,63**

441/1BI

Clesti reglabili

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu*
- *standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *articulatie culisanta*
- *deschiderea falcilor reglabila in 5 pozitii*
- *in conformitate cu standardul ISO 8976*

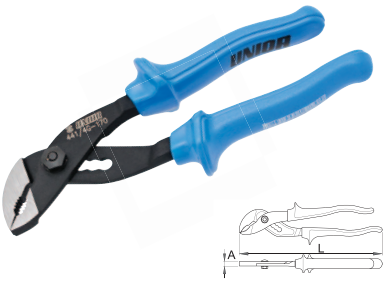


	L	A	maxi			
616728	170	13.8	30	179	B	**56,72**

441/4G

Clesti reglabili

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform*
- *standardului DIN 12476*
- *maner de plastic pentru conditii grele*
- *articulatie culisanta*
- *deschiderea falcilor reglabila in 5 pozitii*
- *in conformitate cu standardul ISO 8976*

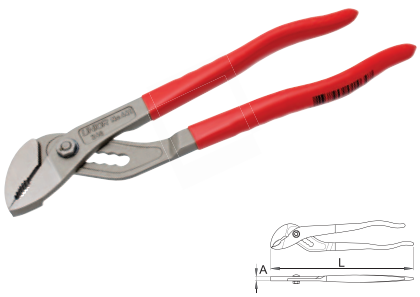


	L	A	maxi			
616730	170	13.8	30	179	B	**50,51**

441/7PR

Cleste reglatil

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *articulatie culisanta*
- *deschiderea falcii reglabila in 6 pozitii*
- *cap vopsit*
- *maner profilat ergonomic*
- *manere de plastic*
- *in conformitate cu standardul ISO 8976*



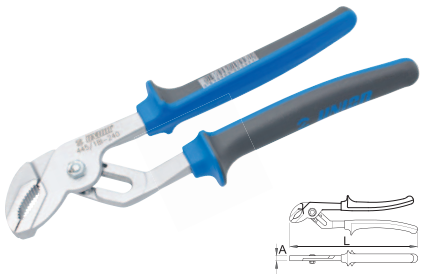
	L	A	maxi			
601464	240	8	35	337	B	**45,63**



445/1BI

Clesti reglabili cu caneluri

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *articulatie canelata*
- *deschiderea falcii reglabila in 5 pozitii pentru dim.180 si 240, in 6 pozitii pentru dim. 300*
- *in conformitate cu standardul ISO 8976*



	L	A	maxi			
607885	180	9.9	25	197	B	**65,69**
620557	240	10.8	35	417	B	**86,46**
607887	300	12.2	40	657	B	**106,48**

445/4G

Clesti reglabili

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*
- *articulatie canelata*
- *deschiderea falcii reglabila in 5 pozitii pentru dim.180 si 240, in 6 pozitii pentru dim. 300*
- *in conformitate cu standardul ISO 8976*

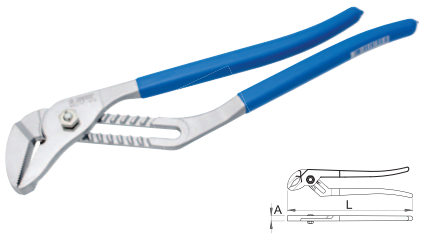


	L	A	maxi			
608690	180	9.9	25	197	B	**50,56**
620558	240	10.8	35	417	B	**71,90**
608692	300	12.2	40	657	B	**90,73**

445/1P

Clesti reglabili

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul*
- *EN12540*
- *manere de plastic*
- *articulatie canelata*
- *deschiderea falcii reglabila in 11 pozitii*
- *in conformitate cu standardul ISO 8976*



	L	A	maxi			
608213	410	15	105	1290	E	**129,80**

445/1BIST

Set de clesti reglabili in display de carton



	№				
615183	**445/1BIST**	6	2865	F	**526,28**
	445/1BI (240)				

445/4P

Clesti reglabili

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *articulatie canelata*
- *deschiderea falcii reglabila in 5 pozitii pentru dim.180 si 240, in 6 pozitii pentru dim. 300*
- *in conformitate cu standardul ISO 8976*

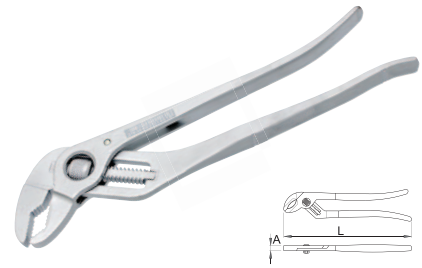


	L	A	maxi			
608687	180	9.9	25	147	B	**46,77**
620559	240	10.8	35	347	B	**65,43**
608689	300	12.2	40	587	B	**83,73**

446/2

Cleste reglabil cu cremaliera

- *material: compozitie speciala pentru*
- *calire revenire*
- *cromat*
- *Falca*
- *tratat complet*
- *reglaj al deschiderii falcilor*



	L	A	maxi			
601461	260	7.5	35	469	B	**131,03**

446/2P

Cleste reglabil cu cremaliera

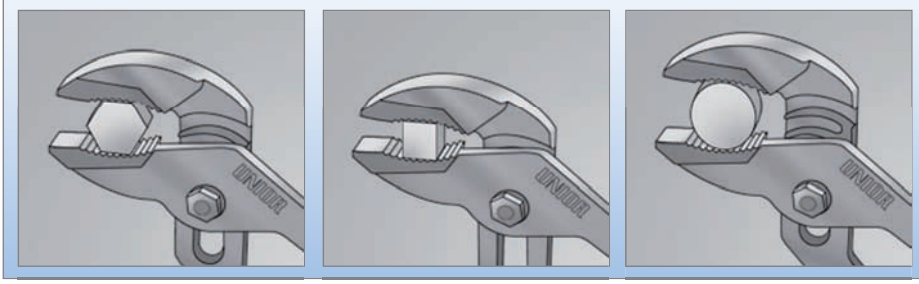
- *material: compozitie speciala pentru*
- *calire revenire*
- *cromat*
- *Falca*
- *tratat complet*
- *reglaj al deschiderii falcilor*
- *manere de plastic*



	L	A	maxi			
607732	260	7.5	35	492	B	**134,95**

CARACTERISTICI ALE:

445/1BI, 445/4G, 445/4P, 445/1P



514/1BI

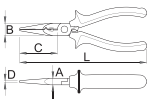
Clesti de electrician multifunctionali

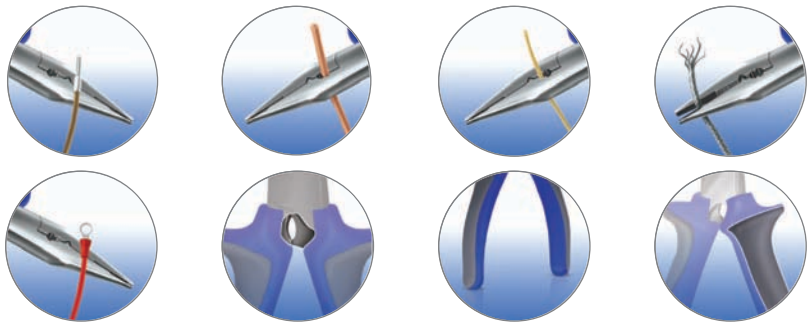
- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*

Avantaje:

- *7 functii diferite*
- *falca multi-dintata*
- *maner cu forma ergonomica*
- *strangere super puternica*
- *durabilitate inalta*
- *Sarma de bobinaj tare si inelele de sarma pana la Ø 3.5 mm.Inelele pot fi indoite spre dreapta si spre*
- *stanga pana cand scula ajunge cu dintele corespunzator in ambele parti.*
- *Partea inferioara a falcii este proiectata pentru blocarea obiectelor cu suprafata precisa si sensibila.*
- *Clestii pot fi folositi pentru sertizarea terminalelor izolate*
- *Strangere ferma-designul si forma manerelor dau mainii mai multa forta in timpul strangerii ,*
- *asigurand o stabilitate mai mare si un transfer sigur al fortei.*
- *Falca dintata previne alunecarea si asigura o mai buna strangere a cablului sau sarmei.*
- *Dezizolarea cablurilor izolate de Ø 2.2 mm la Ø 3.0 mm.*
- *Dezizolarea cablurilor izolate de Ø 3,5 mm la Ø 4,0 mm.*
- *Taiere sarma de Ø 2.2 mm la Ø 4.0 mm.*
- *Sertizare cabluri terminale pana la Ø 4.0 mm.*







	L	B	D	A	C			
612782	160	16	2.5	9	49	141	B	**73,61**

capacitatea de taiere (10N=1kg)

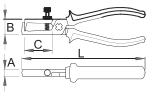
	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
612782	160	1,6	2,0

478/1BI

Clesti pentru dezizolat

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul*
- *EN12540*
- *manere bimaterial pentru conditii grele*
- *capacitatea de dezizolare de la 1, 6-10 mm2*
- *arc de redeschidere*





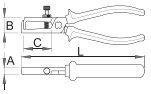
	L	mm²	B	A	C			
607882	160	0.6 - 10	18	9	40	178	B	**64,77**

478/4G

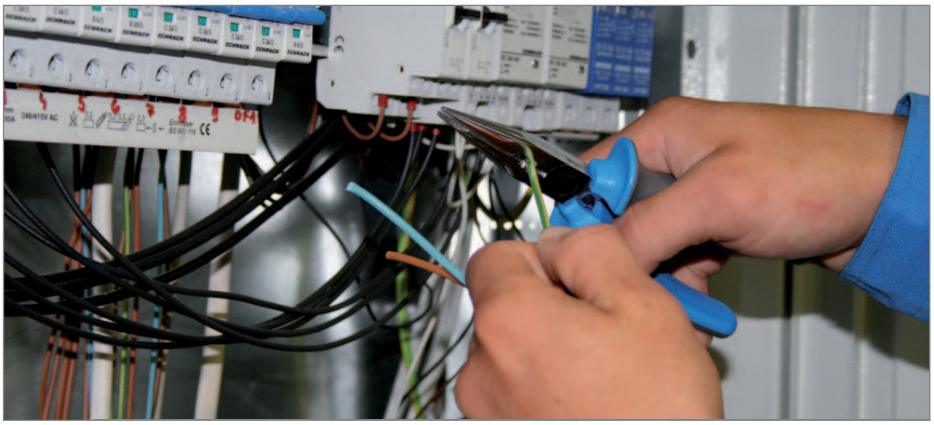
Clesti pentru dezizolat

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire:fosfatare*
- *maner de plastic pentru conditii grele*
- *capacitatea de dezizolare de la 1, 6-10 mm2*
- *arc de redeschidere*



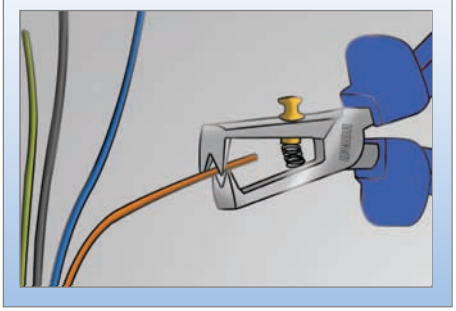


	L	mm²	B	A	C			
608701	160	0.6 - 10	18	9	40	178	B	**53,24**



CARACTERISTICI ALE:

478/1BI, 478/4G

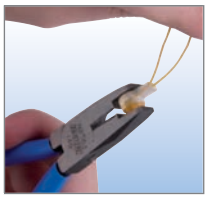


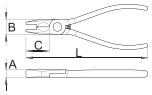
503/4P

Clesti pentru telefonie

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire:fosfatare conform standardului DIN 12476*
- *manere de plastic*







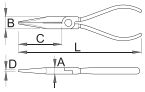
	L	B	A	C			
607863	140	17	9	35	99	B	97,28

503/4AP

Clesti pentru telefonie

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*





	L	B	D	A	C			
607330	160	16	0.8	9	49	104	B	62,04

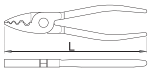


424/4P

Clesti de sertizat

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *pentru terminale neizolate (dim. 140 de la 0,5-*
- *2,5mm , dim 180 0,5-16mm)*
- *manere de plastic*









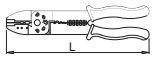
	mm²	L				
607949	0.5 - 2.5	140	144	B	98,52
607950	0.25 - 16	180	258	B	151,14

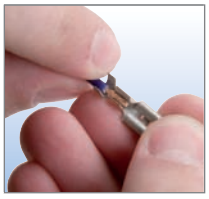
425/4A

Clesti de sertizat

- *confectionat din tabla*
- *tratament termic complet*
- *pentru terminale izolate si inchise neizolate*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*









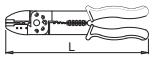
	mm²	L			
601136	1.5 - 6	240	320	E	81,31

425/4B

Clesti de sertizat

- *confectionat din tabla*
- *tratament termic complet*
- *pentru terminale deschise izolate si neizolate*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*





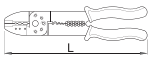
	mm²	L			
601137	1.5 - 6	240	320	E	78,36

425/4AB

Clesti de sertizat

- *confectionat din tabla*
- *tratament termic complet*
- *pentru terminale neizolate standard*
- *si terminale inchise*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*





	mm²	L			
605806	1.5 - 6	240	320	E	87,08



426/3A

Clesti de sertizare-strangere

- *pentru terminale izolate*
- *articulatia asigura o presiune ridicata de*
- *compresie cu efort minim*
- *falci din otel de scule, tratate, fosfatate*
- *manere nichelate*
- *confectionat din tabla*



		L			
601138	0.5 - 6	220	512	E	**115,19**

426/3B

Clesti de sertizare-strangere

- *pentru terminale neizolate*
- *articulatia asigura o presiune ridicata de compresie*
- *cu efort minim*
- *falci din otel de scule, tratate, fosfatate*
- *manere nichelate*
- *confectionat din tabla*



		L			
601139	0.5 - 10	220	484	E	**125,14**

427/4AG

Clesti de sertizare - strangere

- *pentru terminale de dimensiuni*
- *0,08 - 10mm²/AWG28 - 7*
- *falci din metal cu prtectie electrica*
- *profilul patrat al falcilor permite un contact mai bun decat la clestii cu profil obisnuit*
- *arc intarit pentru prelungirea perioadei de viata a clestelui*



621550	433	G	**792,00**

427/4BG

Clesti de sertizare modulari

- *Scula profesionala pentru taierea si sertizarea firelor de telefon neizolate*
- *pentru fixarea prizelor Western cu 4-, 6- si 8- poli de tip RJ 10 (grosime 7.65 mm) tip RJ 11/12 (grosime 9.65 mm) si tip RJ 45 (grosime 11.68 mm)*
- *pozitionarea exacta se face datorita pozitionarii paralele a falcilor*
- *cu un dispozitiv special pentru dezvelirea cablurilor rotunde*
- *cu cutter de lungime si cutit de dezizolare pentru cabluri tip panglica de la 6 la 12 mm grosime*







621551	567	G	**514,14**

427/4CG

Clesti de sertizare - strangere

- *falcile special proiectate prind cablul ferm in timpul procesului de dezvelire*
- *cu ajutorul butonului pivotant se poate face adaptarea la fire mai subtiri de 30AWG (0.05mm) sau mai groase de 8AWG (1.5 la 6.0 mm)*
- *pentu terminale neizolate 10 - 22 AWG (1.5-6.0mm)*
- *pentru terminale izolate 10-22AWG (1.56.0mm)*
- *pentru terminale auto ingnifuge de la 7 la 8 mm*







621552	378	G	**90,07**

427/4DG

Clesti de sertizare modulari

- *Scula pentru taierea si sertizarea firelor de telefon neizolate*
- *pentru fixarea prizelor Western cu 4-, 6- si 8- poli de tip RJ 10 (grosime 7.65 mm) tip RJ 11/12 (grosime 9.65 mm) si tip RJ 45 (grosime 11.68 mm)*
- *pozitionarea exacta se face datorita pozitionarii paralele a falcilor*
- *cu un dispozitiv special pentru dezvelirea cablurilor rotunde*
- *cu cutter de lungime si cutit de dezizolare pentru cabluri tip panglica de la 6 la 12 mm grosime*







621553	401	G	**139,79**

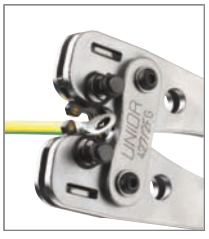
427/2FG

Clesti de sertizare - strangere

- *sertizare hexagonala*
- *articulatia asigura o presiune ridicata de compresie cu effort minim*
- *foarte usor de folosit*
- *sectiunea transversala este formata din profile sferice rotative*
- *Bacuri rotaive in 6 pozitii cu dimensiunile 6,10,16,25,35,50 mm*
- *duritatea bacurilor 38-40 HRC*







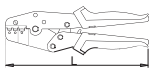
621555	6 - 50	1350	D	**434,76**

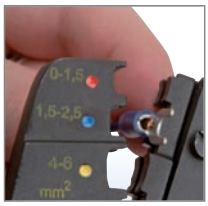
428/4

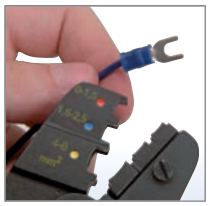
Clesti cu parghie pentru sertizare

- *falci forjate din otel special de scule, tratate*
- *articulatia asigura o presiune ridicata de compresie cu efort minim*
- *maner de plastic pentru conditii grele*
- *Elemente de schimb pentru cap*
- *taiere si sertizare sarma, acoperire vopsit*









602327	0.5 - 6	240	575	E	258,32

428.1/4

Elemente de schimb pentru art.428

- *cap de schimb*



602328	161	E	52,62

428.1/4AG

Fălci de schimb pentru terminale izolate pentru 428/4AG





621955	57	E	44,09

428/4AGPB

Set de clesti cu parghie pentru sertizare cu falci de rezerva

- *sistem de schimbare rapida a falcilor pentru 4 tipuri diferite de falci*
- *sistemul de sertizare cu clichet asigura precizia*
- *pentru terminale izolate AWG10-12/14-16/18-22 (4-6/1.5-2.5/0.5-1.0mm)*
- *pentru terminale neizolate AWG14-6 (0.2-16mm)*
- *pentru conectori coaxiali BNC/TNC RG-58, RG-59/62. Conectori hexagonali 0.255 (6.48mm), 0.213 (5.41 mm), 0.068 (1.73 mm²)*
- *Dimensiunea cutiei : 307 x 260 x 55*







621557	1315	G	497,42

428.2/4AG

Fălci de schimb pentru terminale neizolate pentru art 428/4AG





621956	55	E	44,09

428.3/4AG

Fălci de rezerva pentru terminale de capăt la 428/4AG





621957	74	E	44,09

428.4/4AG

Fălci de schimb pentru conectori coaxiali și hexagonali, pentru 428/4AG

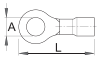




621958	55	E	44,09

423.1R
Conectori rotunzi





	A	mm²	L			
609193	3	0.5 - 1.5	17	17	E	7,00
609194	4	0.5 - 1.5	17	40	E	7,00
609195	5	0.5 - 1.5	20	40	E	7,00

423.1B
Conectori rotunzi

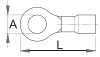




	A	mm²	L			
609196	4	1.5 - 2.5	22	40	E	8,71
609197	5	1.5 - 2.5	22	40	E	8,71
609198	6	1.5 - 2.5	27	40	E	11,57
609199	8	1.5 - 2.5	27	40	E	11,57

423.1J
Conectori rotunzi

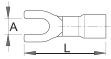




	A	mm²	L			
609200	5	2.5 - 6	26	40	E	14,12
609201	6	2.5 - 6	31	40	E	17,64
609202	8	2.5 - 6	34	40	E	21,12
609203	10	2.5 - 6	34	40	E	21,12

423.2R
Conectori plati





	A	mm²	L			
609204	3	0.5 - 1.5	21	40	E	7,00
609205	4	0.5 - 1.5	21	40	E	7,00
609206	5	0.5 - 1.5	21	40	E	8,71

423.2B
Conectori plati

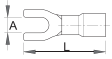




	A	mm²	L			
609207	4	1.5 - 2.5	21	40	E	8,71
609208	5	1.5 - 2.5	21	40	E	9,72

423.2J
Conectori plati

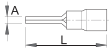




	A	mm²	L			
609209	4	2.5 - 6	25	40	E	12,98
609210	5	2.5 - 6	25	40	E	12,98
609211	6	2.5 - 6	25	40	E	12,98

423.3R
Conectori plati

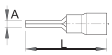




	A	mm²	L			
609212	1.9	0.5 - 1.5	21	40	E	8,71

423.3B
Conectori plati

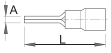




	A	mm²	L			
609213	1.9	1.5 - 2.5	21	40	E	9,33

423.3J
Conectori plati

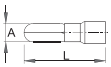




	A	mm²	L			
609214	2.8	2.5 - 6	25	40	E	14,48

423.4R
Conectori tata

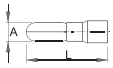




	A	mm²	L			
609215	4	0.5 - 1.5	21	40	E	7,00

423.4B
Conectori tata

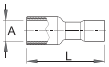




	A	mm²	L			
609216	5	1.5 - 2.5	21	40	E	8,71

423.5R
Conectori tata

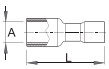




	A	mm²	L			
609217	4	0.5 - 1.5	24	40	E	9,72

423.5B
Conectori tata





	A	mm²	L			
609218	5	1.5 - 2.5	24	40	E	11,57

423.6R
Conectori plati tata





	A	B	mm²	L			
609219	6.3	0.8	0.5 - 1.5	22	40	E	8,71

423.6B
Conectori plati tata



	A	B	mm²	L			
609220	6.3	0.8	1.5 - 2.5	22	40	E	8,71

423.8R
Conectori plati izolati mama



	A	B	mm²	L			
609226	6.3	0.8	0.5 - 1.5	23	40	E	11,57

423.10R
Conectori cablu



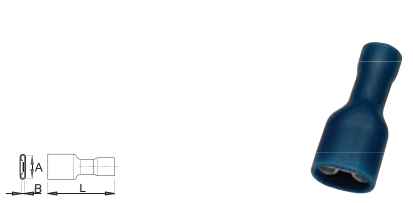
	A	mm²	L			
609231	1.6	0.5 - 1.5	25	40	E	7,00

423.6J
Conectori plati tata



	A	B	mm²	L			
609221	6.3	0.8	2.5 - 6	22	40	E	8,71

423.8B
Conectori plati izolati mama



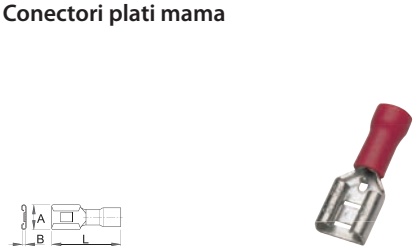
	A	B	mm²	L			
609227	6.3	0.8	1.5 - 2.5	24	40	E	11,57

423.10B
Conectori cablu



	A	mm²	L			
609232	2.3	1.5 - 2.5	26	40	E	8,71

423.7R
Conectori plati mama



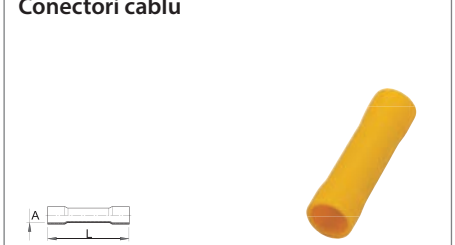
	A	B	mm²	L			
609222	2.8	0.5	0.5 - 1.5	20	40	E	7,00
609223	6.3	0.8	0.5 - 1.5	22	40	E	8,71

423.8J
Conectori plati izolati mama



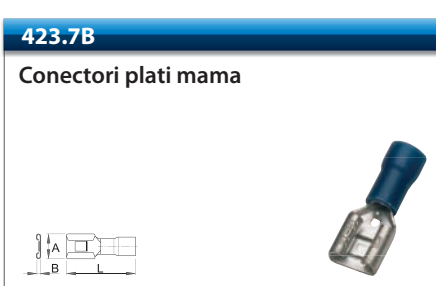
	A	B	mm²	L			
609228	6.3	0.8	2.5 - 6	24	40	E	11,57

423.10J
Conectori cablu



	A	mm²	L			
609233	3.6	2.5 - 6	26	40	E	11,57

423.7B
Conectori plati mama



	A	B	mm²	L			
609224	6.3	0.8	1.5 - 2.5	22	40	E	8,71

423.9R
Conectori plati izolati mama



	A	B	mm²	L			
609229	6.3	0.8	0.5 - 1.5	22	40	E	10,60

423.11R
Conectori rapizi



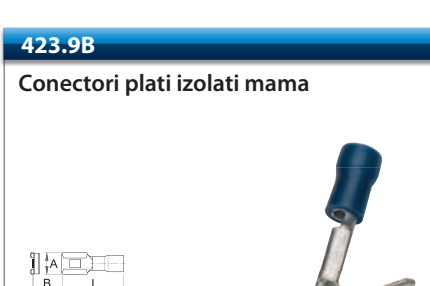
	mm²	L			
609234	0.5 - 1.5	20	40	E	11,57

423.7J
Conectori plati mama



	A	B	mm²	L			
609225	6.3	0.8	2.5 - 6	22	40	E	8,71

423.9B
Conectori plati izolati mama



	A	B	mm²	L			
609230	6.3	0.8	1.5 - 2.5	22	40	E	10,60

423.11B
Conectori rapizi



	mm²	L			
609235	1.5 - 2.5	20	40	E	11,57

380

Clesti pentru dezizolat

- *dezizolare completa automata pentru toate tipurile de conductori solizi de la 0, 2-6 mm2*
- *lungimea de dezizolare reglabila intre 5-12 mm*
- *accesibilitate usoara in cutit pentru max 2mm*



610925	0.2 - 6	117	E	139,30

385H

Dispozitiv de dezizolare cu carlig de taiere

- *acuratete, rapiditate si siguranta in dezizolarea cablurilor normale rotunde de la 4-28 mm2*
- *fara deteriorarea interiorului conductorului la multiple ajustari a adancimii de taiere*
- *lama rotitoare se roteste automat la taieri circulare sau longitudinale*



610930	4 - 28	91	E	62,52

385G

Dispozitiv de dezizolat cu cutit drept

- *acuratete, rapiditate si siguranta in dezizolarea cablurilor normale rotunde de la 4-28 mm2*
- *fara deteriorarea interiorului conductorului la multiple ajustari a adancimii de taiere*
- *lama rotitoare se roteste automat la taieri circulare sau longitudinale*



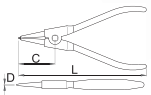
610931	4 - 28	92	E	62,52

532/1P

Clesti inel de siguranta, varfuri drepte

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu*
- *standardul EN12540*
- *varfuri brunate*
- *manere de plastic*
- *in concordanta cu standardul DIN 5254 forma A*







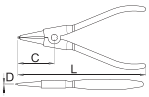
	L	DIN	∅ D	C			
616734	300	85 - 140	3.2	86	502	B	95,83

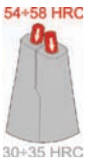
532PLUS/1DP

Cleste inel de siguranta, exterior, varfuri drepte

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul*
- *EN12540*
- *varfuri brunate*
- *manere duble de plastic*
- *in concordanta cu standardul DIN 5254 forma A*
- *pentru montarea inelelor elastice pe ax*
- *pentru diametre intre 10-100mm*
- *cu varfuri inserate, rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*











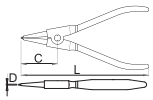
	L	DIN	∅ D	C			
621187	140	3 - 10	0.9	40	127	B	60,68
621188	140	10 - 25	1.3	40	131	B	60,68
621189	180	19 - 60	1.8	52	209	B	65,30
621190	220	40 - 100	2.2	63	276	B	77,13

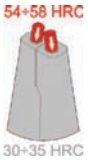
532PLUS/4DP

Cleste inel de siguranta, exterior, varfuri drepte

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare*
- *varfuri brunate*
- *manere duble de plastic*
- *in concordanta cu standardul DIN 5254 forma A*
- *pentru montarea inelelor elastice pe ax*
- *pentru diametre intre 10-100mm*
- *cu varfuri inserate, rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*







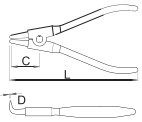
	L	DIN	∅ D	C			
621191	140	3 - 10	0.9	40	127	B	58,12
621192	140	10 - 25	1.3	40	131	B	58,12
621193	180	19 - 60	1.8	52	209	B	62,92
621194	220	40 - 100	2.2	63	276	B	74,05

534/1P

Clesti inel de siguranta, varfuri indoite

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere de plastic*
- *in concordanta cu standardul DIN 5254 forma B*



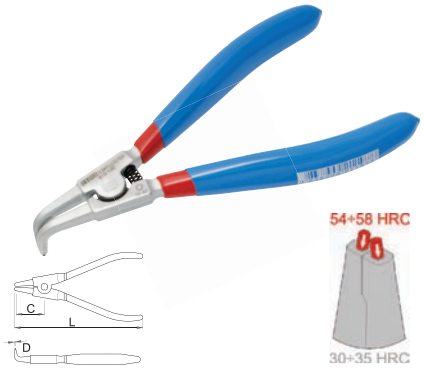


		DIN	∅ L	D	C			
616737	300	85 - 140	280	3.2	68	502	B	96,62

534PLUS/1DP

Clesti inel de siguranta, varfuri indoite

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *in concordanta cu standardul DIN 5254 forma B*
- *manere duble de plastic*
- *pentru montarea inelelor elastice pe ax*
- *pentru diametre intre 10-100mm*
- *cu varfuri inserate*
- *rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*



		DIN ∅	L	D	C			
621195	140	3 - 10	128	0.9	28	134	B	**62,35**
621196	140	10 - 25	128	1.3	28	124	B	**62,35**
621197	180	19 - 60	166	1.8	38	204	B	**66,22**
621198	220	40 - 100	201	2.3	48	274	B	**78,80**

534PLUS/4DP

Clesti inel de siguranta, varfuri indoite

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire:fosfatare*
- *varfuri brunate*
- *in concordanta cu standardul DIN 5254 forma B*
- *manere duble de plastic*
- *pentru montarea inelelor elastice pe ax*
- *pentru diametre intre 10-100mm*
- *cu varfuri inserate*
- *rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*

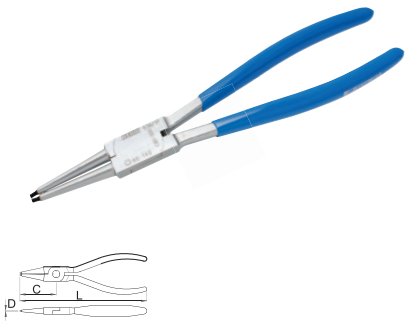


		DIN ∅	L	D	C			
621199	140	3 - 10	128	0.9	28	134	B	**59,40**
621200	140	10 - 25	128	1.3	28	124	B	**59,40**
621201	180	19 - 60	166	1.8	38	204	B	**63,54**
621202	220	40 - 100	201	2.3	48	274	B	**75,90**

536/1P

Clesti inel de siguranta, varfuri drepte

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *in concordanta cu standardul DIN 5254 forma C*
- *manere de plastic*

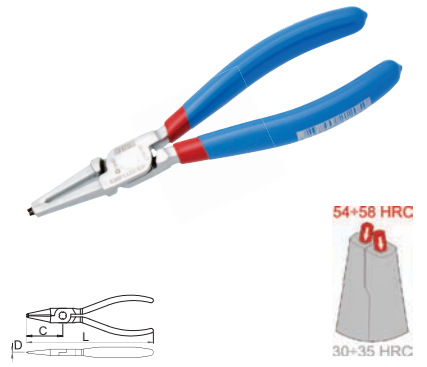


	L	DIN ∅	D	C			
616740	300	85 - 140	3.2	86	491	B	**92,18**

536PLUS/1DP

Cleste inel de siguranta, intern, varfuri drepte

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere duble de plastic*
- *in concordanta cu standardul DIN 5254 forma C*
- *pentru montarea inelelor elastice pe gaurile tevilor*
- *pentru diametre intre 8 si 100mm*
- *cu varfuri inserate*
- *rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*



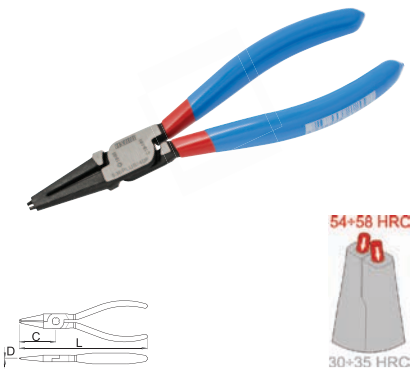


	L	DIN ∅	D	C			
621203	140	8 - 13	0.9	40	111	B	**56,89**
621204	140	12 - 25	1.3	40	115	B	**56,89**
621205	180	19 - 60	1.8	52	192	B	**58,52**
621206	220	40 - 100	2.2	63	251	B	**71,41**

536PLUS/4DP

Cleste inel de siguranta, intern, varfuri drepte

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire:fosfatare*
- *varfuri brunate*
- *in concordanta cu standardul DIN 5254 forma C*
- *manere duble de plastic*
- *pentru montarea inelelor elastice pe gaurile tevilor*
- *pentru diametre intre 8 si 100mm*
- *cu varfuri inserate*
- *rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*

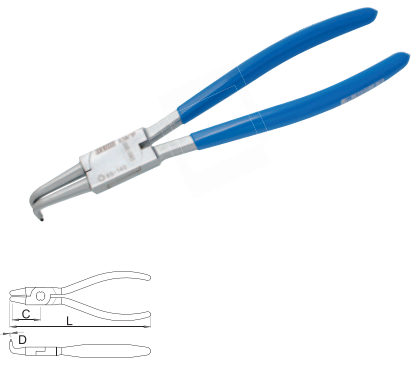


	L	DIN ∅	D	C			
621207	140	8 - 13	0.9	40	111	B	**54,43**
621208	140	12 - 25	1.3	40	115	B	**54,43**
621209	180	19 - 60	1.8	52	192	B	**56,36**
621210	220	40 - 100	2.2	63	251	B	**68,20**

538/1P

Clesti inel de siguranta, varfuri indoite

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul*
- *EN12540*
- *varfuri brunate*
- *in concordanta cu standardul DIN 5254 forma D*
- *manere de plastic*

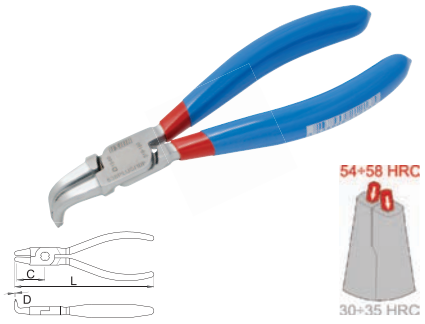


		DIN ∅	L	D	C			
616743	300	85 - 140	280	3.2	68	501	B	**93,10**

538PLUS/1DP

Cleste inel de siguranta, intern, varfuri indoite

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere duble de plastic*
- *in concordanta cu standardul DIN 5254 forma D*
- *pentru montarea inelelor elastice pe gaurile tevilor*
- *pentru diametre intre 8 si 100mm*
- *cu varfuri inserate*
- *rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*

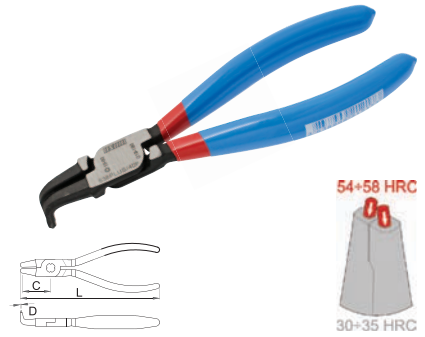


		DIN Ø	L	D	C			
621211	140	8 - 13	128	0.9	28	114	B	59,27
621212	140	12 - 25	128	1.3	28	114	B	59,27
621213	180	19 - 60	166	1.8	38	194	B	66,00
621214	220	40 - 100	202	2.3	48	244	B	72,42

538PLUS/4DP

Cleste inel de siguranta, intern, varfuri indoite

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *varfuri brunate*
- *in concordanta cu standardul DIN 5254 forma D*
- *manere duble de plastic*
- *pentru montarea inelelor elastice pe gaurile tevilor*
- *pentru diametre intre 8 si 100mm*
- *cu varfuri inserate*
- *rezistenta cu 30 % mai mare in comparatie cu clesti inel de siguranta obisnuiti*



		DIN Ø	L	D	C			
621215	140	8 - 13	128	0.9	28	114	B	57,16
621216	140	12 - 25	128	1.3	28	114	B	57,16
621217	180	19 - 60	166	1.8	38	194	B	63,32
621218	220	40 - 100	202	2.3	48	244	B	69,56

539/1PCT

Set clesti inel de siguranta in husa



№					
616736	539/1PCT	4	2175	T	417,21

532/1P (300), **534/1P** (300), **536/1P** (300), **538/1P** (300)

539PLUS/1DPCT

Set clesti inel de siguranta PLUS in punga



№					
621623	539PLUS/1DPCT	3 - 10 - 140 / 4	560	T	270,03

532PLUS/1DP (140 x 3 - 10), **534PLUS/1DP** (140 x 3 - 10), **536PLUS/1DP** (140 x 8 - 13), **538PLUS/1DP** (140 x 8 - 13)

621624	539PLUS/1DPCT	10 - 25 - 140 / 4	561	T	270,03

532PLUS/1DP (140 x 10 - 25), **534PLUS/1DP** (140 x 10 - 25), **536PLUS/1DP** (140 x 12 - 25), **538PLUS/1DP** (140 x 12 - 25)

621625	539PLUS/1DPCT	19 - 60 - 180 / 4	915	T	288,38

532PLUS/1DP (180 x 19 - 60), **534PLUS/1DP** (180 x 19 - 60), **536PLUS/1DP** (180 x 19 - 60), **538PLUS/1DP** (180 x 19 - 60)

621626	539PLUS/1DPCT	40 - 100 - 220 / 4	1160	T	333,83

532PLUS/1DP (220 x 40 - 100), **534PLUS/1DP** (220 x 40 - 100), **536PLUS/1DP** (220 x 40 - 100), **538PLUS/1DP** (220 x 40 - 100)

539PLUS/4DPCT

Set clesti inel de siguranta PLUS in punga



№					
621627	539PLUS/4DPCT	3 - 10 - 140 / 4	562	T	260,00

532PLUS/4DP (140 x 3 - 10), **534PLUS/4DP** (140 x 3 - 10), **536PLUS/4DP** (140 x 8 - 13), **538PLUS/4DP** (140 x 8 - 13)

№					
621628	539PLUS/4DPCT	10 - 25 - 140 / 4	575	T	260,00

532PLUS/4DP (140 x 10 - 25), **534PLUS/4DP** (140 x 10 - 25), **536PLUS/4DP** (140 x 12 - 25), **538PLUS/4DP** (140 x 12 - 25)

621629	539PLUS/4DPCT	19 - 60 - 180 / 4	910	T	278,48

532PLUS/4DP (180 x 19 - 60), **534PLUS/4DP** (180 x 19 - 60), **536PLUS/4DP** (180 x 19 - 60), **538PLUS/4DP** (180 x 19 - 60)

621630	539PLUS/4DPCT	40 - 100 - 220 / 4	1160	T	321,77

532PLUS/4DP (220 x 40 - 100), **534PLUS/4DP** (220 x 40 - 100), **536PLUS/4DP** (220 x 40 - 100), **538PLUS/4DP** (220 x 40 - 100)

530/4

Clesti de cuie

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *conform cu standardul ISO 9243*



	L	B	A	C			
601341	160	46	22	16	242	B	34,23
601342	180	50	23	21	309	B	36,52
601343	200	54	25	24	427	B	38,32
607860	225	54	25	24	419	B	44,70
601344	250	58	26	27	557	B	55,92

530/4P

Clesti de cuie

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *conform cu standardul ISO 9243*



	L	B	A	C			
608722	160	46	22	16	242	B	37,44
608723	180	50	23	21	309	B	39,95
608724	200	54	25	24	427	B	42,24

	L	B	A	C			
608725	225	54	25	24	419	B	**50,82**
608726	250	58	26	27	557	B	**61,60**

530/4PR

Clesti de cuie

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *conform cu standardul ISO 9243*



	L	B	A	C			
601336	160	46	22	16	242	B	**39,34**
601337	180	50	23	21	309	B	**42,02**
601338	200	54	25	24	427	B	**44,35**
605155	225	54	25	24	419	B	**53,28**
601339	250	58	26	27	557	B	**64,72**

531/4

Clesti pentru plasa de sarma

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *in concordanta cu standardul ISO 9242*



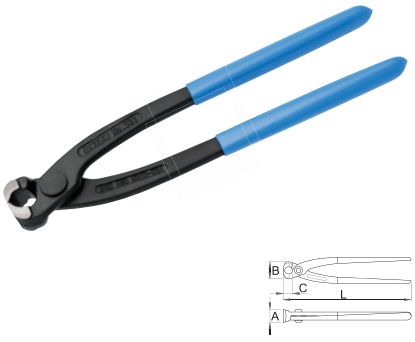
	L	B	A	C			
601372	190	26	22	15	214	B	**38,32**
601373	224	30	23	17	333	B	**46,68**
601374	250	36	25	18	424	B	**52,01**
601375	280	36	25	18	455	B	**59,80**



531/4P

Clesti pentru plasa de sarma

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *in concordanta cu standardul ISO 9242*



	L	B	A	C			
608727	190	26	22	15	214	B	**42,33**
608728	224	30	23	17	333	B	**49,37**
608729	250	36	25	18	424	B	**57,02**
608730	280	36	25	18	455	B	**65,74**

531/4PR

Clesti pentru plasa de sarma

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *in concordanta cu standardul ISO 9242*



	L	B	A	C			
601386	224	30	23	17	333	B	**51,79**
601387	250	36	25	18	424	B	**59,88**
601388	280	36	25	18	455	B	**69,08**



531/4PST

Set de clesti rabit in display de carton



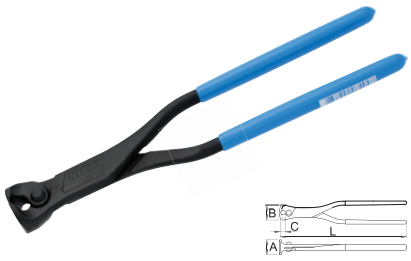
	№				
615187	**531/4PST**	6	2435	F	**318,60**

531/4P (224)

529/4P

Clesti plasa de sarma pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*

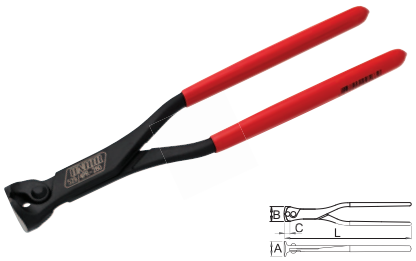


	L	B	A	C			
607494	280	33	33	19	476	B	**170,41**

529/4PR

Clesti plasa de sarma pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*

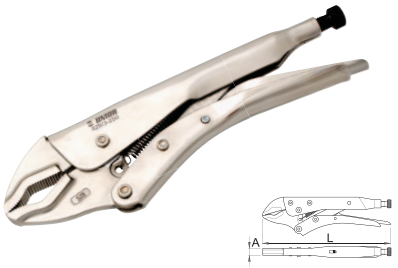


	L	B	A	C			
609563	280	33	33	19	466	B	**185,20**

429/3

Cleste menghina

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *surub fosfatat*
- *falci simetrice*

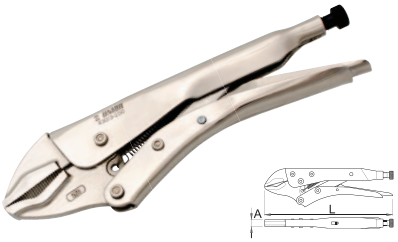


	L	A	max			
613101	175	10	30	362	E	**72,42**
605206	250	12	35	596	E	**80,56**
613102	300	14	40	1010	E	**124,83**

430/3

Clesti menghina

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *surub fosfatat*



	L	A	max			
601551	175	10	30	365	E	**72,51**
601552	250	12	35	596	E	**81,36**
601553	300	14	40	1023	E	**126,06**

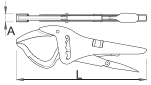


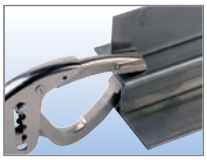
434/3A

Clesti menghina

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *clesti menghina*







	L	A	max			
616721	270	16	120	695	E	**136,00**

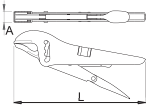


434/3B

Clesti menghina

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *clesti menghina*







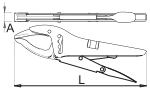
	L	A	max			
616722	220	16	50	544	E	**121,18**

434/3C

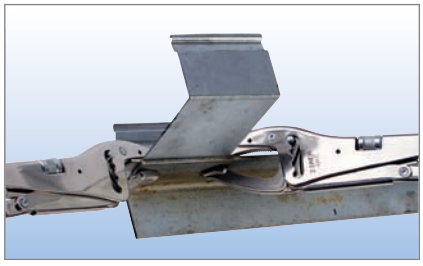
Clesti menghina

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *clesti menghina*

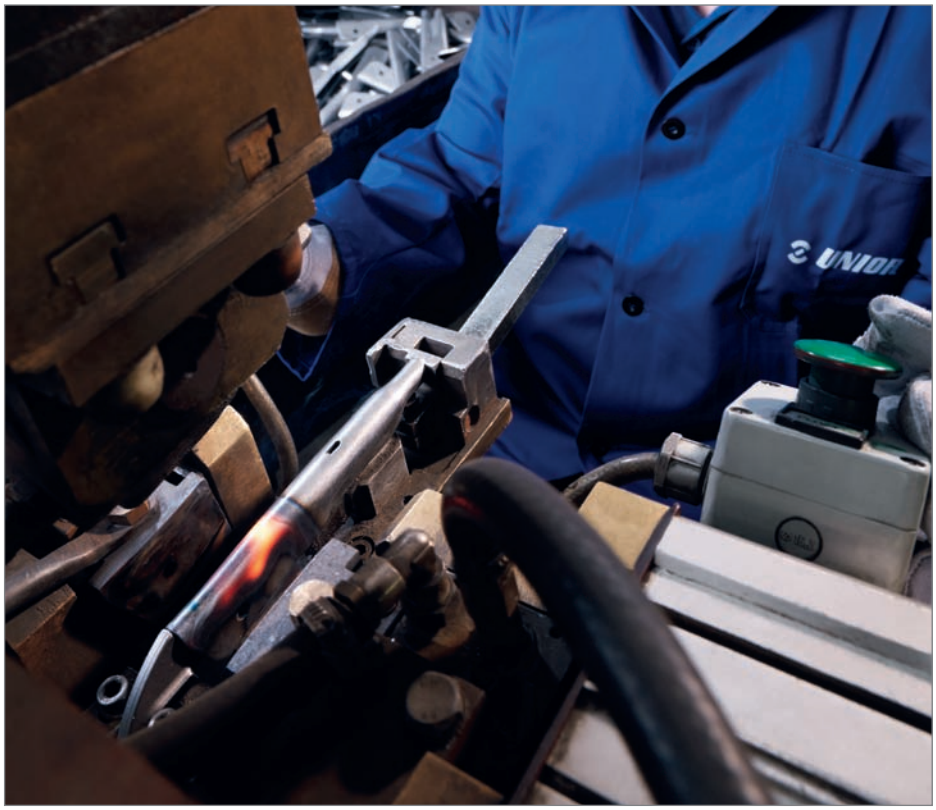








	L	A	max			
616723	250	16	80	615	E	**125,09**

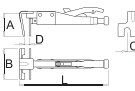


433/4A

Clesti menghina pentru sudura

- *material: falci-crom molibden, manere din tabla.*
- *pozitionarea paralela este obtinuta de miscarea in*
- *linie dreapta a falcii flexibile.*
- *manevravibilitate cu o singura mana*
- *marime mica si paralelism in strangere permite accesul in locuri dificile si inguste*
- *falci largi drepte pentru sudura prin puncte*







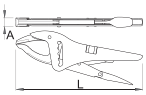
	L	D	C	A	B			
612887	200	12	30	50	70	563	E	169,05

434/3D

Clesti menghina

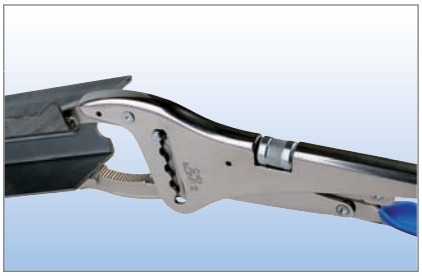
- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *clesti menghina*









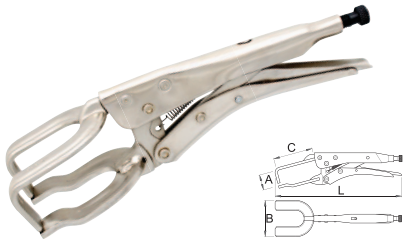


	L	A				
616724	250	16	100	639	E	133,28

432/3A

Clesti menghina pentru sudura

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *surub fosfatat*
- *pentru tevi indoite*



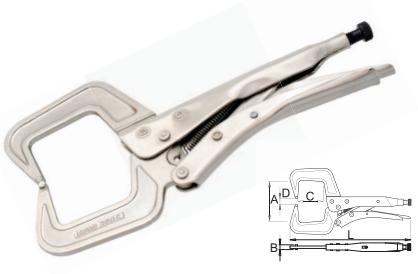
	L	A	B	C	D			
601142	280	30	76	75	45	851	E	104,76



432/3C

Clesti menghina pentru sudura

- *falci forjate din otel special de scule*
- *manere din tabla*
- *acoperire nichelare*
- *surub fosfatat*
- *pentru table si profile*



	L	A	B	C	D			
601144	280	82	10	55	50	717	E	108,20

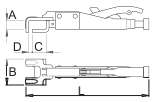


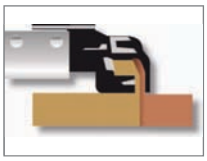
433/4B

Cleste menghina

- *material: falci-crom molibden, manere din tabla.*
- *pozitionarea paralela este obtinuta de miscarea in*
- *linie dreapta a falcii flexibile.*
- *manevravibilitate cu o singura mana*
- *marime mica si paralelism in strangere permite accesul in locuri dificile si inguste*
- *falci indoite larg, pentru sudarea prin puncte si ansamblarea formelor unghiulare*







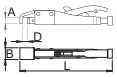
	L	D	C	A	B			
612888	220	7	20	15	45	519	E	**151,32**

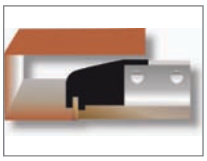
433/4D

Clesti menghina pentru sudura

- *material: falci-crom molibden, manere din tabla.*
- *pozitionarea paralela este obtinuta de miscarea in*
- *linie dreapta a falcii flexibile.*
- *manevravibilitate cu o singura mana*
- *marime mica si paralelism in strangere permite accesul in locuri dificile si inguste*
- *falci drepte, pentru ansamblarea tablelor drepte*







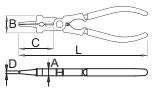
	L	D	B	A			
612890	200	19	25	15	461	E	**137,32**

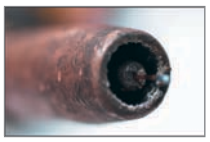
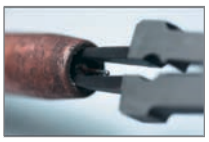
436/4P

Cleste universal pentru sudura

- *Cleste universal pentru sudura destinat intretinerii*
- *pistoletelor pentru sudarea electrica cu gaz protector*
- *(sudura MAG/MIG)*
- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *arc de redeschidere*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*
- *diuza murdara*
- *eliminare stropi de sudura din interiorul și exteriorul*
- *diuzeicurățirea stropilor de sudura de pe diuza de*
- *capăt*
- *curățire duza*
- *Instalare si demontare diuza*
- *Instalare și montare varf*
- *taiere sarma de sudura*
- *scoatere sarma de sudura*
- *Montare bucșa de schimb*
- *lovire*













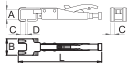
	L	B	D	A	C			
616493	180	25	3	10	59	212	G	**122,41**
616494	210	34	3.5	11	80	306	G	**128,17**

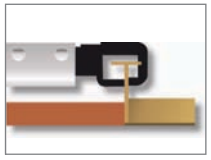
433/4C

Clesti menghina pentru sudura

- *material: falci - crom molibden, manere din tabla.*
- *pozitionarea paralela este obtinuta de miscarea*
- *in linie dreapta a falcii flexibile.*
- *manevravibilitate cu o singura mana*
- *marime mica si paralelism in strangere permite accesul in locuri dificile si inguste*
- *falci indoite larg, pentru sudarea prin puncte si ansamblarea formelor unghiulare*









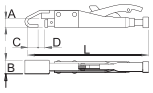
	L	D	C	A	B			
612889	230	10	12	25	45	565	E	**175,82**

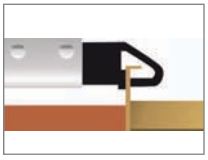
433/4E

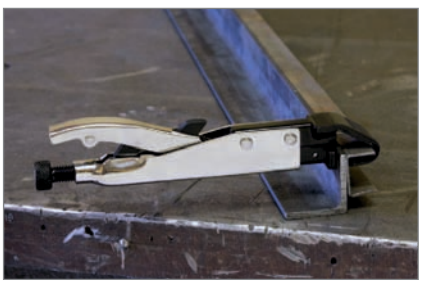
Clesti menghina pentru sudura

- *material: falci - crom molibden, manere din tabla.*
- *pozitionarea paralela este obtinuta de miscarea in*
- *linie dreapta a falcii flexibile.*
- *manevravibilitate cu o singura mana*
- *marime mica si paralelism in strangere permite accesul in locuri dificile si inguste*
- *falci curbe, pentru sudarea prin puncte si ansamblarea formelor unghiulare*









	L	D	B	C	A			
612891	210	14	25	14	15	487	E	**136,31**

515/1BI

Clesti de perforat

- *material:compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul*
- *EN12540*
- *manere bimaterial pentru conditii grele*
- *Utilizare:pentru gaurirea oricarui tip de hartie, cartele, materiale plastice sau combinatii ale acestora pena la 1, 5 mm grosime*





	L	D			
611975	160	3	181	B	114,09
613083	160	4	181	B	114,09

515.1

Preducele de schimb pentru 515

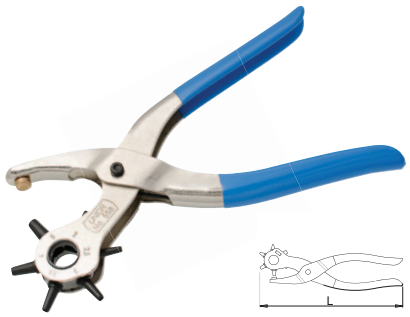


	D			
613084	3	7	E	22,53
611976	4	7	E	20,46

558/5P

Cleste de perforat cu 6 pozitii

- *manerul confectionat din tabla*
- *preducelele confectionate din otel special de scule, tratate, ascutite*
- *acoperire: zincare*
- *manere de plastic*
- *dimensiuni preducele:2, 2.5, 3, 3.5, 4, 5*



	L			
601557	210	287	B	68,42

527/4P

Cleste ceramica

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cu taiere sarma (max 3 mm)*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere de plastic*

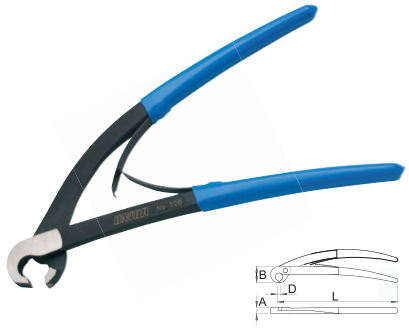


		L	B	A	D			
610148		200	42.7	19	3	395	B	58,87

528/4BP

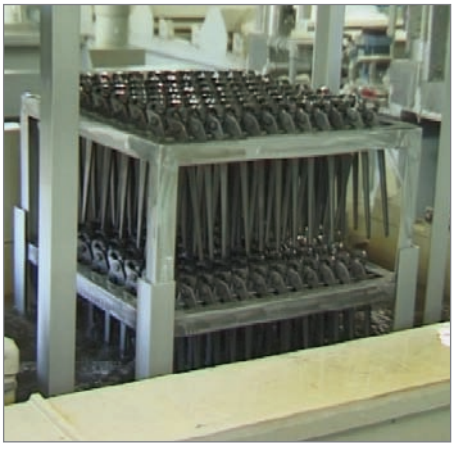
Clesti ceramica

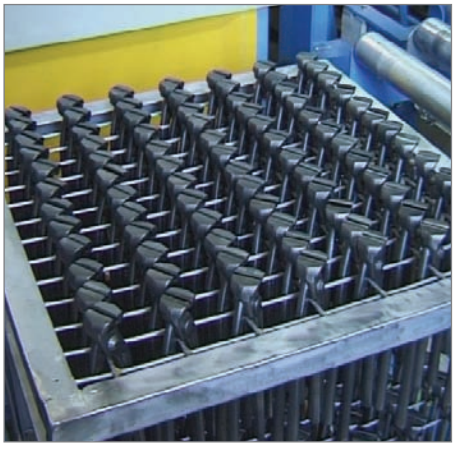
- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *model cu arc*
- *manere de plastic*

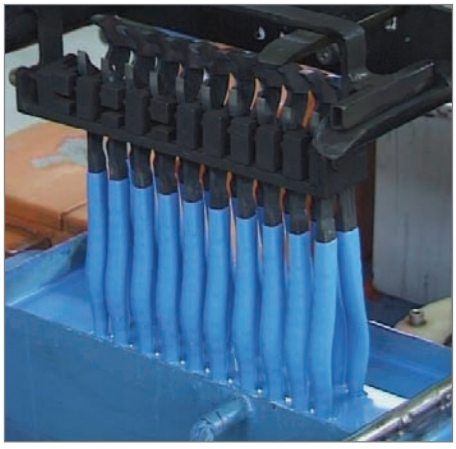


		L	B	A	D			
612988		200	40	8.4	11	240	B	38,98

Producator European din 1919







Scule izolate la 1000 V

O procedura speciala pentru producerea de scule izolate

Producator European din 1919

1. **Forjarea la rece a capului cheii tubulare:** este un proces in doua etape tehnologice, incluzand tratament termic, fosfatarea si contractarea.



2. **Prelucrarea cu masini cu comanda CNC a capului cheii tubulare:** piesa se prelucreaza pe strungul cu comanda numerica CNC la dimensiunile dorite, in conformitate cu standardul ISO.



3. **Sablarea:** curatarea suprafetei inainte de cromare este importanta din motive de calitate si de protectie durabila a suprafetei.



4. **Cromare:** capul cheii tubulare este acoperit cu un strat subtire, solid de oxid de crom, care protejeaza impotriva coroziunii si uzurii, precum si a altor deteriori mecanice. In acelasi timp ii confera intregului cap la cheii tubulare un aspect lucios.

PROCES DE ACOPERIRE CU STRAT DE PLASTIC:

5. **Acoperire cu strat dublu de plastic:** Procesul acoperirii sculei cu mai multe straturi de plastic izolant necesar muncii in conditii de inalta tensiune, consta intr-o serie de operatii cu parametrii exacti de punere in aplicare, care nu trebuie sa se abata de la cerinte. Aceasta este singura modalitate de a obtine un produs de calitate si cel mai important lucru un produs sigur. Inainte de acoperirea cu material plastic, partea metalica a sculei trebuie sa fie pregatita pentru acest proces. Se degreseaza intr-un recipient cu acetona si apoi se usuca. Pentru ca materialul sa adere la partea metalica a piesei in locurile necesare, partea metalica a sculei se scufunda intr-un lichid special care activeaza proprietatea sa adeziva. Acest procedeu este urmat de montarea piesei pe suporturi speciale. Procesul de incalzire incepe intr-un cuptor special si dupa aceea scula este scufundata imediat intr-un lichid portocaliu. Piesa trebuie indepartata imediat din acest material, care este incalzit la o temperatura corespunzatoare cu o viteza optima, pentru ca materialul sa se scurga. Inainte de a doua acoperire cu plastic, piesele se gelatinizeaza intr-un cuptor la o temperatura precisa. Acest procedeu este urmat de a doua acoprire cu strat izolator rosu, se repeta procesul de galvanizare si astfel acoperirea finala cu plastic da piesei grosimea finala a unei acopriri cu doua, trei straturi. Pentru obtinerea luciului si a unui aspect profesional, piesele sunt stabilizate intr-un cuptor la o temperatura bine definita.







CULOAREA PORTOCALIE ESTE SEMN DE AVERTIZARE:

Dubla protectie a sculelor VDE asigura o dubla securitate, deoarece este posibila recunoasterea rapida a sculei nonconforme. O scula nonconforma este aceea la care este vizibil al doilea strat portocaliu (al doilea strat de protectie), care semnalizeaza faptul ca scula trebuie inlocuita imediat.





Scula de siguranta



Scula iesita din uz-inlocuire imediata

Protectie totala

Sculele izolate la 1000 V asigura o protectie totala pana la 1000 V CA si 1500 V CC. Avantajul tuturor sculelor il reprezinta faptul ca sunt verificate bucata cu bucata la testele de impact, dielectrice, de penetrare, de aderenta invelis, de nepropagare a flacarii si mecanice in conformitate cu EN 60900:2004

Calitate inalta a otelului

Cheile, clestii, foarfecile, surubelnitele si celelalte scule izolate la 1000 V sunt confectionate din oteluri de inalta calitate si sunt proiectate pentru o utilizare simpla si sigura.

Norme VDE

Scule izolate la 1000 V sunt testate in conformitate cu normele internationale, iar sculele Unior pentru lucrul in sectorul electric indeplinesc integral reglementarile standardului European EN 60900:2004.




Chei fixe dublu drepte 136


Chei inelare 136 - 137


Chei tubulare 137


Chei locas hexagonal 137 - 138


Capete chei tubulare 3/8“ 138 - 139


Capete chei tubulare 1/2“ 139 - 141


Chei dinamometrice 141


Clesti combinati 141 - 143


Clesti reglabili 143


Clesti cu tais lateral 144 - 145


Clesti cu varfuri late si clesti cu varfuri rotunde 146 - 149


Clesti pentru dezizolat 149


Foarfeci pentru taiat cablu 149 - 150


Surubelnite late 150


Surubelnite cu profil PH 150 - 151


Surubelnite inbus 151


Surubelnite cu profil TX 151


Capete chei tubulare cu maner 151


Testare de tensiune, catere, ferastraie, pensete 151 - 153


Seturi in husa 153 - 155


Seturi in SOS 155 - 157

Caracteristici ale clestilor Unior

Linia VDE BI

- material: otel de compozitie speciala pretabil la tratament termic
- forjati, tratament termic integral
- partile taietoare tratate prin inductie
- capete luciu oglinda
- acoperire: cromare
- manere pentru lucrul in conditii grele cu doua componente
- marcaj UNIOR stantat



Linie VDE DP

- material: otel de compozitie speciala pretabil la tratament termic
- forjati, tratament termic integral
- partile taietoare tratate prin inductie
- capete luciu oglinda
- acoperire: cromare
- maner dublu izolat pentru dubla siguranta
- daca al doilea strat devine vizibil, se inlocuieste sculacu una noua.



Linie VDE

- material: otel de compozitie speciala pretabil la tratament termic
- forjati, tratament termic integral
- partile taietoare tratate prin inductie
- capete luciu oglinda
- acoperire: cromare
- manere pentru lucrul in conditii grele



Caracteristici ale cheilor Unior

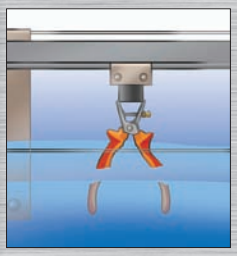
Chei

- material: crom vanadiu

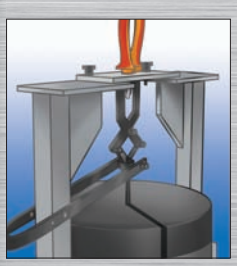




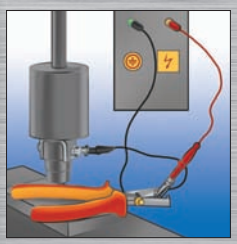
Incercarea de nepropagare a flacarii
Flacara este aplicata pe piesa timp de 10 secunde. Incercarea se considera corespunzatoare daca inaltimea flacarii pe scula nu a depasit 120 mm



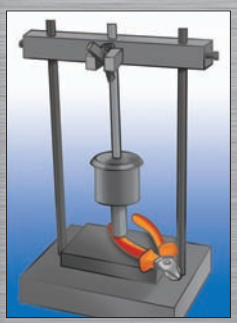
Incercari dielectrice (10 kV) conform EN 60900:2005-5.5
Inainte de testare, scula este imersata intr-o baie de apa la 23 de grade timp de 24 de ore -/+5 ore. Piesa este considerata confor- ma daca, dupa aplicarea unei tensiuni de 10 kV timp de 3 minute, scula nu prezinta nicio strapungere, amorsare sau conturnare.



Test de izolare
Inainte de testarea piesei aceasta este incalzita la 70 C -/+ 2 timp de 160 de ore. Manerul se incarca cu greutati (500 N).Durata de testare este de 3 minute. Piesa este considerata conforma daca izolatia ramane ferm prinsa de maner.



Incercarea de penetrare SR EN 60900:2005-5.6
Izolatia piesei este supusa unei forte de 20 N pe mijlocul manerului. Produsul este considerat conform daca piesa supusa la 10 KV timp de 3 min. nu prezinta nicio strapungere, amorsare sau conturnare.



Test de impact
Testul se realizeaza la o temperatura ambianta de 23 grade. Ciocanul va cadea liber pe piesa de 3 ori.
Produsul este acceptat daca manerul nu prezinta fisuri, rupturi sau urme de exfoliere.

1000 V
IEC 60900:2004

1000 V

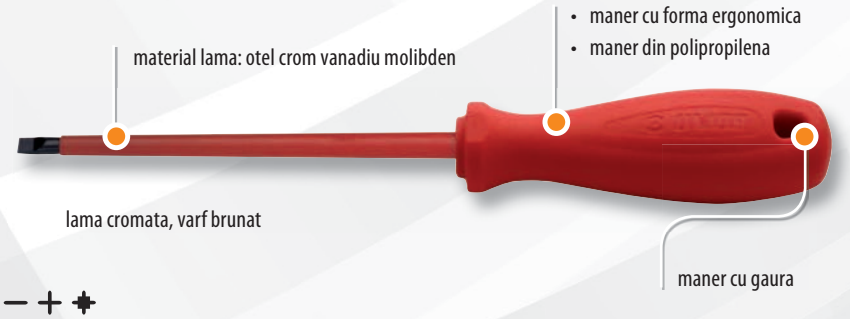
Scule de mana pentru lucrul pana la 1000 V A.C.

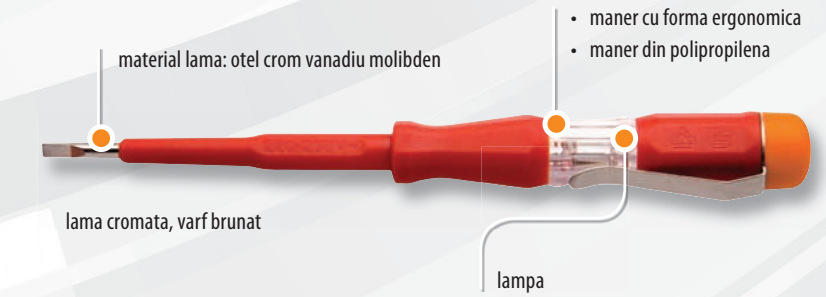
Simbolul institutului care a facut certificarea sculelor (VERBAND DEUTSCHER ELEKTROTECHNIKER)

Simbol care indica faptul ca sculele sunt in concordanta cu standardul marcat (DIN), care prevede cerintele de baza pentru scule(dimensiune,duritate,teste mecanice etc.)

Caracteristici ale surubelnitelor Unior



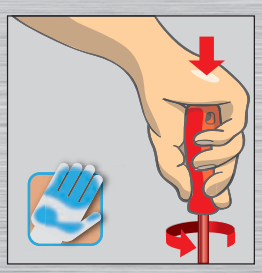




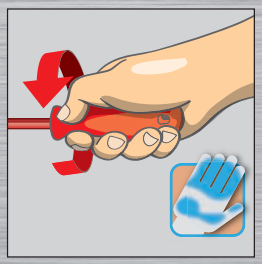


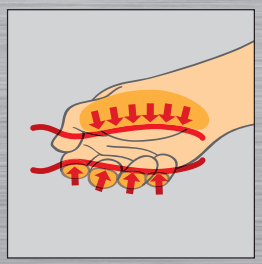
MANER ERGONOMIC!

Combinatia intre suprafata dura si cea moale imbunatateste factorul de incarcare si asigura o insurubare usoara. Forma manerului a fost proiectata incat sa asigure un confort deplin si a reduce efortul muscular al mainii.

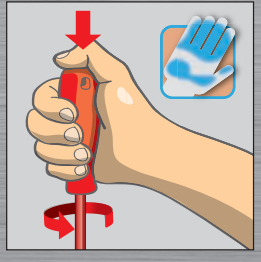


Suprafata de contact mare = mai multa forta de torsiune





Forma ergonomica a manerului = protectia mainii

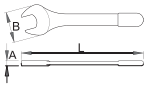


110/2VDEDP

Cheie fixa simpla izolata la 1000 V

- *material: crom vanadiu*
- *cap: cromat in concordanta cu EN12540*
- *dublu strat - dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *controlul se face prin testare electrica*
- *in concordanta cu standardul EN 60900:2004*





		L	B	A			
618370	6	72	16	6.9	19	B	46,51
618331	7	82	16.1	6.9	26	B	47,56
617801	8	95	21	7	30	B	48,84
621575	9	100	24.5	7.5	35	B	50,60
612175	10	105	24.5	7.5	42	B	52,10
612176	11	112	26	7.5	51	B	52,10
612177	12	125	28	8	65	B	52,10
612178	13	132	30.5	8.5	76	B	57,46
612179	14	140	33	8.5	84	B	57,55
612180	15	150	35	9	96	B	57,55
621576	16	154	40	10	118	B	68,82
612181	17	157	40	10	137	B	68,82
621577	18	165	44	11	151	B	76,47
612182	19	170	44	11	170	B	76,47
618333	20	175	46.4	12.2	184	B	89,67
619201	21	180	48.8	12.5	213	B	89,67
612183	22	195	49	13	234	B	92,05
618335	23	210	52.8	13.1	251	B	93,02
612184	24	220	56	14	311	B	94,56
621578	26	235	59	15	361	B	96,36
617802	27	240	59	15	387	B	96,36
621579	28	245	66	15.8	440	B	101,16
618336	30	260	66.1	15.8	518	B	101,16
618337	32	275	71.4	17.6	620	B	113,48

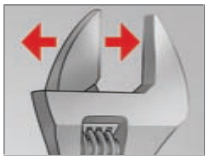
250/1VDEDP

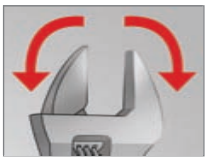
Cheie reglabila izolata la 1000 V

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *cu scala*
- *100% control - fiecare piesa este testata*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in concordanta cu standardul EN 60900:2004*

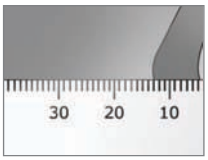


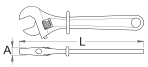












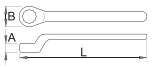
		L	A				
621917	150	165	35	23	182	E	115,85
616849	200	215	35	28	355	E	132,09
616850	250	265	35	32	579	E	162,84
616851	300	310	36	38	871	E	203,76
622065	380	390	35	50	1505	E	362,96

180/2VDEDP

Cheie inelara simpla izolata la 1000 V

- *material: crom vanadiu*
- *cap: cromat in concordanta cu EN12540*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *controlul se face prin testare electrica*
- *in concordanta cu standardul EN 60900:2004*





		L	B	A			
621580	6	155	13.5	8.5	51	B	57,29
621581	7	155	15	9	57	B	57,29
621582	8	160	16.5	9.5	62	B	57,29
621583	9	160	17.5	10	72	B	57,29
612185	10	162	19.5	11	81	B	57,29
612186	11	175	20	11.5	97	B	59,36
612187	12	185	21.5	11.5	112	B	59,36
612188	13	185	23	12.5	113	B	72,69
612189	14	190	25.5	13	136	B	72,69
612190	15	195	27	13.5	146	B	72,69
621584	16	190	27.5	14.5	175	B	86,86
612191	17	208	30.5	15.5	185	B	86,86
621585	18	195	30	15.5	210	B	86,86
612192	19	227	33	15.5	233	B	86,86
621586	20	245	34.5	16.2	273	B	96,27
619202	21	244	36.4	13.2	307	B	96,27
612193	22	250	37.5	17.5	300	B	110,79
621587	23	250	39.8	16.8	333	B	119,06
612194	24	255	42	18.5	428	B	119,06
621588	26	265	44	18	450	B	132,88
621589	27	270	44.8	18	411	B	132,88
621590	28	280	36.5	18.5	488	B	146,08
621591	30	310	47	19	574	B	146,08
621592	32	325	51.5	19.5	647	B	146,08

110/2VDEDPCB

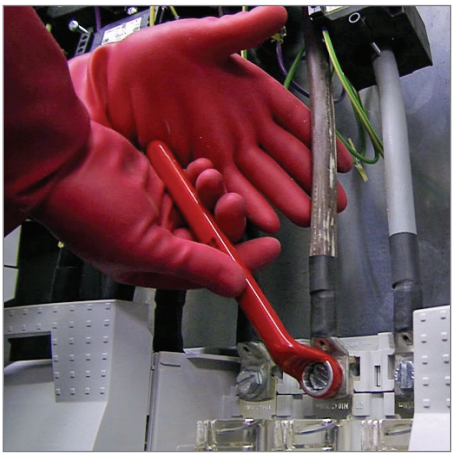
Set de chei fixe simple izolate la 1000 V in cutie de carton



	№				
612676	110/2VDEDPCB	10 - 24 / 10	1200	F	660,70

110/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 22, 24)





180/2VDEDPCB

Set de chei inelare izolate la 1000 V in cutie de carton



	№				
612677	180/2VDEDPCB	10 - 24 / 10	1820	F	797,54

180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 22, 24)

180/2AVDEDP

Cheie inelara simpla izolata

- *material: crom vanadiu*
- *cap: cromat in concordanta cu EN12540*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *controlul se face prin testare electrica*



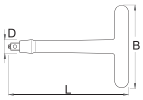
		L1	L2	B	A			
619123	10	220	78	18.2	10	151	E	269,41
619124	12	220	78	21.2	10	172	E	289,56
619125	13	220	78	23.3	11	156	E	292,16
619126	14	230	85	24.4	11.6	206	E	301,93
619127	17	255	100	29.3	13.8	306	E	318,82
619128	19	255	103	30.6	13	276	E	325,34
619129	20	267	107	33.3	16	344	E	348,26
619130	22	265	115	35.8	16	326	E	348,26
619131	24	265	115	38.8	16.9	412	E	370,35

196/2BVDEDP

Cheie cu maner in T izolata la 1000 V

- *material:crome vanadium*
- *cap:cromat in concordanta cu EN12540*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *capul cheii este tratat in intregime*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*





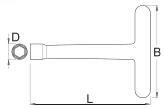
		L	D	B			
619116	3/8"	210	20	145	369	E	253,66
619117	1/2"	210	24	145	456	E	282,26

196/2LVDEDP

Cap cheie tubulara izolata la 1000 V cu maner in T, varianta lunga

- *material: crom vanadiu*
- *cap: cromat in concordanta cu EN12540*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *capul cheii este tratat in intregime*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*





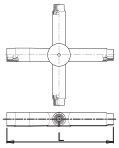
		L	B	D			
619143	10	300	160	20	439	E	239,89
619150	11	300	160	21	460	E	239,89
619151	12	300	160	24	495	E	239,89
619152	13	300	160	24	492	E	239,89
619153	14	300	160	27	422	E	252,56
619154	17	300	160	30	640	E	252,56
619155	19	300	160	32	757	E	259,86
619156	20	300	160	34	737	E	292,16
619157	21	300	160	34	772	E	321,29
619158	22	300	160	34	806	E	321,29
619159	23	300	160	45	780	E	321,29
619160	24	300	160	45	875	E	321,29

213/2VDEDP

Cheie cruce izolata la 1000 V dublu strat

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *cap:cromat in concordanta cu EN12540*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*





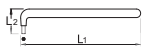
					L			
619093	10	11	14	17	207	450	E	436,52
619094	11	12	13	17	207	450	E	436,52
619095	10	13	14	17	207	450	E	436,52
619096	11	13	14	17	207	450	E	436,52
619097	13	17	19	22	207	450	E	436,52

220/3LVDEDP

Chei locas hexagonal izolate la 1000 V

- *material: crom vanadiu*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*
- *capul cheii este tratat in intregime*





		L1	L2			
619136	3	130	26	20	B	34,45
619137	4	145	31	31	B	36,08
619138	5	165	36	53	B	36,83
619139	6	188	40	73	B	38,68
619140	8	206	49	135	B	43,08
619141	10	234	55	221	B	59,97
619142	12	262	58	346	B	67,58

220TVDE

Chei in T izolate la 1000 V

- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*





		L	B			
619132	4	200	69	98	E	90,33
619133	5	203	69	105	E	96,18
619134	6	207	98	126	E	103,40
619135	8	209	99	145	E	109,69

220TVDE4PB

Set chei locas hexagonal T in cutie de plastic



	№				
621648	220TVDE4PB	4 - 8 / 4	747	F	520,12

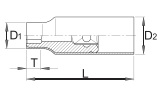
220TVDE (4, 5, 6, 8)

238/2VDEDP

Capete chei tubulare 3/8" izolate la 1000 V

- *material: crom vanadiu*
- *cap: cromat in concordanta cu EN12540*
- *100% control - fiecare piesa este testata*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in concordanta cu standardul EN 60900:2004*
- *forjata, calire si revenire totala*





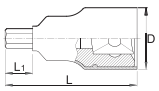
	mm	D1	D2	L	T			
619161	10	18.7	23	46.5	10	26	B	50,56
619162	11	20.7	23	46.5	10	40	B	50,56
619163	12	21.8	23	46.5	10	40	B	50,56
619164	13	23	23	46.5	10	43	B	50,56
619165	14	24.9	23	46.5	14	50	B	51,13
619166	17	28.6	23	49	15	70	B	52,58
619167	19	31.4	23	49	17	74	B	55,79
619168	22	35	23	51	17	104	B	59,66

236/2HXVDEDP

Capete chei tubulare cu profil hexagonal exterior de 3/8",izolate la 1000 V, dublu strat

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*
- *capul cheii este tratat in intregime*





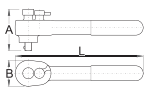
		L	L1	D			
619171	4	67	6	23.6	46	B	55,09
619172	5	67	7.4	24.4	49	B	55,09
619173	6	67	8.5	23.4	48	B	55,04
619174	8	67	9.4	24	54	B	56,67
619175	10	67	10.2	23.4	70	B	58,34

238.1AVDEDP

Antrenor cu clichet reversibil 3/8" izolat la 1000 V

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *cu 36 dinti*
- *unghiul minim de rotatie 10°*
- *Buton de schimbare sens*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*





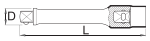
		L	B	A			
619118	3/8"	200	72	42	375	E	690,89

238.4/2VDEDP

Prelungitor izolat la 1000 V, 3/8"

- *material: crom vanadiu*
- *cap: cromat in concordanta cu EN12540*
- *100% control - fiecare piesa este testata*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *forjata, calire si revenire totala*
- *in concordanta cu standardul EN 60900:2004*





			L	D			
619169	3/8"	125	144	17	151	B	103,80
619170	3/8"	250	268	17	281	B	121,13

239VDEDP6P13

Trusa capete chei tubulare 3/8" izolate la 1000 V in cutie metalica

- *Dimensiunea cutiei: 448 x 198 x 54*



	№				
619419	239VDEDP6P13	13	3165	G	1.748,52

238.1AVDEDP (3/8"), **238.4/2VDEDP** (3/8" x 125, 3/8" x 250), **196/2BVDEDP** (3/8"), **238/2VDEDP** (10, 11, 13, 14, 17, 19), **236/2HXVDEDP** (4, 5, 6)

Producator European din 1919

239VDEDP6P10

Trusa capete chei tubulare 3/8" izolate la 1000 V in cutie de plastic

- *Dimensiunea cutiei: 244 x 207 x 59*



	№				
621647	239VDEDP6P10	10	1420	G	1.363,60

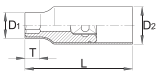
238/2VDEDP (10, 11, 12, 13, 14, 17, 19),
238.1AVDEDP (3/8"),
238.4/2VDEDP (3/8" x 125, 3/8" x 250)

190/2VDEDP

Capete chei tubulare izolate 1/2"

- *material: crom vanadiu*
- *cap: cromat in concordanta cu EN12540*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*
- *forjata, calire si revenire totala*





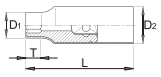
	mm	D1	D2	L	T			
617803	8	18	27.4	54.6	12	65	B	56,14
621593	9	51.5	17.1	26.5	12	74	B	56,14
612195	10	18	26	51.5	12	72	B	52,10
612196	11	19.5	26.5	51.5	12	75	B	52,10
612197	12	20.5	26.5	51.5	12	74	B	54,38
612198	13	21.5	26.5	51.5	12	77	B	54,38
612199	14	22.5	26.5	51.5	12	75	B	54,38
621594	15	51.5	23.5	26.5	12	78	B	57,38
621595	16	51.5	26	25.2	12	82	B	57,38
612200	17	28	26	51.5	12	83	B	57,38
621596	18	51.5	28.5	26.5	12	94	B	57,38
612201	19	30	28	51.5	14	96	B	57,38
621597	20	51.5	31.3	27.3	14	106	B	57,38
621598	21	51.5	32.5	28.2	14	115	B	57,38
612202	22	34	29	51.5	14	108	B	57,38
621599	23	53.5	35.1	29.4	14	132	B	60,10
612203	24	37	32.5	55	16	158	B	60,10
621600	26	55.5	38.8	33.2	16	173	B	68,82
617804	27	40.5	32.5	58	18	176	B	68,77
621601	28	56.5	41.3	33.4	20	195	B	78,23
621602	30	59.5	44	37.1	22	247	B	78,23
621603	32	59.5	46.6	39.4	22	284	B	78,23

190/2LVDEDP

Cap cheie tubulara izolata la 1000 V, varianta lunga 1/2"

- *material: crom vanadiu*
- *cap: cromat in concordanta cu EN12540*
- *100% control - fiecare piesa este testata*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in concordanta cu standardul EN 60900:2004*
- *forjata, calire si revenire totala*





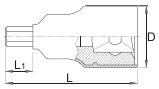
	mm	L	D1	D2	T			
619104	10	96	20.7	27	27	116	B	69,17
619105	11	96	21.6	27	27	116	B	69,17
619106	12	96	22.6	27	27	123	B	69,17
619107	13	96	23.3	27	27	127	B	69,17
619108	14	96	25.8	27	35	134	B	69,17
619109	15	96	26.8	27	35	132	B	70,40
619110	16	96	27.4	27	35	143	B	70,40
619111	17	96	30	27	35	151	B	72,16
619112	18	96	31.7	27	35	174	B	72,16
619113	19	96	32	27	35	170	B	73,26
619114	20	96	33.4	27	35	200	B	73,74
619115	21	96	33	27	35	188	B	74,23
621604	22	96	33.6	29.6	35	213	B	78,63
621605	24	96	35.6	31.6	35	238	B	83,25

192/2HXVDEDP

Cap cheie tubulara cu cap hexagonal 1/2" izolata la 1000 V

- *material: capete chei tubulare: crom-vanadiu, acoperire cromare*
- *bit: otel special de scule*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*
- *capul cheii este tratat in intregime*





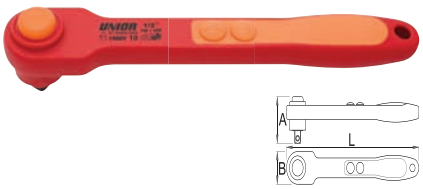
		L	L1	D			
615173	4	76	18	27	76	B	79,29
615174	5	76	18	27	73	B	79,29
615175	6	76	18	27	80	B	79,29
615176	8	76	18	27	96	B	79,29
615177	10	76	18	27	110	B	79,29



190.1VDE

Antrenor cu clichet reversibil izolat la 1000 V

- *material: crom vanadiu*
- *cu 36 dinti*
- *unghiul minim de rotatie 10°*
- *Buton de schimbare sens*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*



		L	B	A			
612206	1/2"	275	46	66	553	E	432,70

190.1AVDEDP

Antrenor cu clichet reversibil 1/2" izolat la 1000 V

- *material: crom vanadiu*
- *cu 36 dinti*
- *unghiul minim de rotatie 10°*
- *Buton de schimbare sens*
- *controlul se face prin testare electrica*
- *in concordanta cu standardul EN 60900:2004*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*



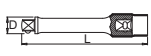
		L	B	A			
619119	1/2"	245	50	80	667	E	711,08

190.4/2VDEDP

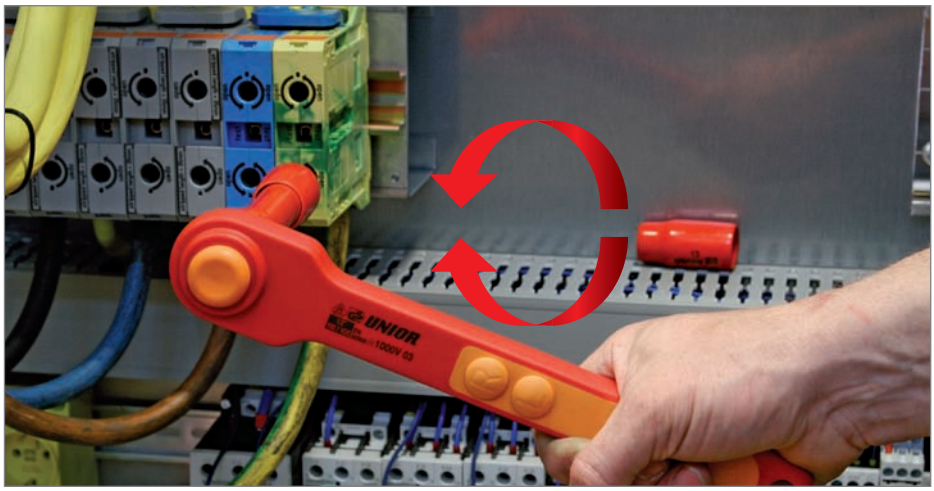
Prelungitor 1/2"izolat la 1000 V

- *material: crom vanadiu*
- *cap: cromat in concordanta cu EN12540*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *100% control - fiecare piesa este testata*
- *forjata, calire si revenire totala*
- *in concordanta cu standardul EN 60900:2004*





		L	D			
612205	1/2"	125	27	209	B	85,62
612204	1/2"	250	28	380	B	100,23

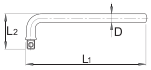


190.5/2VDEDP

Antrenor articulat cu maner 1/2" izolat la 1000 V

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjat, tratat complet*
- *in concordanta cu standardul EN 60900:2004*
- *100% control - fiecare piesa este testata*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





	L1	L2			
615178	250	72	408	E	104,15



190VDE6P11A

Set de capete chei tubulare izolate la 1000 V in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54*



	№				
612678	190VDE6P11A	10 - 24 / 11	2620	G	1.140,92

190/2VDEDP (10, 11, 12, 13, 14, 17, 19, 22, 24), **190.1VDE** (1/2"), **190.4/2VDEDP** (1/2" x 125)

190VDE6P11

Set capete chei tubulare izolate la 1000 V si accesorii 1/2" in cutie metalica

- *Dimensiunea cutiei: 448 x 198 x 54*



	№				
616704	190VDE6P11	11	2650	G	1.245,20

190/2VDEDP (13, 14, 17, 19), **192/2HXVDEDP** (4, 5, 6, 8, 10), **190.1VDE** (1/2"), **190.4/2VDEDP** (1/2" x 125)

190VDEDP6P13B

Capete chei tubulare 1/2" izolate la 1000 V in cutie metalica

- *Dimensiunea cutiei: 321 x 198 x 54*



№					
619420	190VDEDP6P13B	8 - 27 / 13	3096	G	1.639,09

190/2VDEDP (8, 10, 11, 12, 13, 14, 17, 19, 22, 24, 27), **190.1AVDEDP** (1/2"), **190.4/2VDEDP** (1/2" x 125)

190VDE6P10

Set capete chei tubulare izolate la 1000 V in cutie de plastic

- *Dimensiunea cutiei: 307 x 260 x 70*



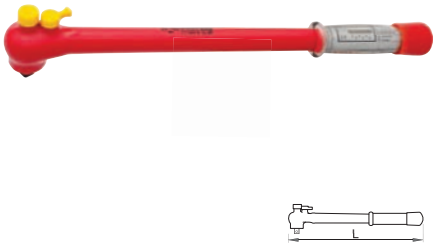
№					
621646	190VDE6P10	13 - 27 / 10	2400	F	1.138,85

190/2VDEDP (13, 14, 17, 19, 22, 24, 27), **190.1VDE** (1/2"), **190.4/2VDEDP** (1/2" x 125, 1/2" x 250), **981PBM2** (307 x 260 x 74)

264VDEDP

Cheie dinamometrica cu declansator 1/2" izolata la 1000 V

- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in concordanta cu standardul EN 60900:2004*



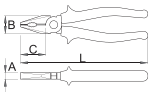
619120	5 -50	5 - 35	375	1109	E	2.953,76
619121	20 - 100	20 - 70	470	1347	E	3.124,35
619122	40 - 220	30 - 160	540	1521	E	3.261,37

406/1VDE

Clesti combinati

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5746 si EN 60900:2004*





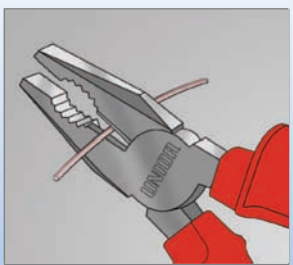
	L	B	C	A			
605007	140	23	32	8	157	B	68,02
605008	160	24	35	9.5	224	B	70,49
605009	180	27	38	10	274	B	73,52
605010	200	29	41	10.5	344	B	79,16
605011	220	32	47	11	424	B	93,59

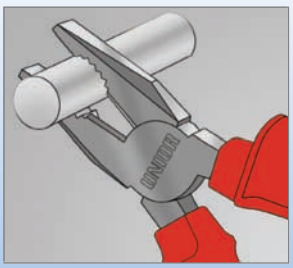
capacitatea de taiere (10N=1kg)

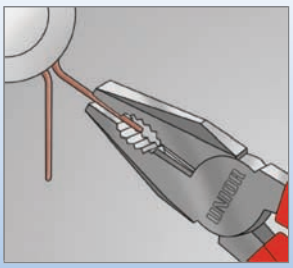
	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
605007	140	1,6	2,0
605008	160	1,6	2,0
605009	180	1,8	2,5
605010	200	2,0	2,5
605011	220	2,0	3,0

CARACTERISTICI ALE:

406







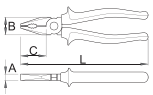


406/1VDEBI

Clesti combinati

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5746 si EN 60900:2004*





	L	B	C	A			
610421	160	24	35	9.5	224	B	**74,10**
610422	180	27	38	10	274	B	**77,18**
610423	200	29	41	10.5	344	B	**83,12**
610424	220	32	47	11	424	B	**98,25**

capacitatea de taiere (10N=1kg)

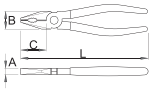
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
610421	160	1,6	2,0
610422	180	1,8	2,5
610423	200	2,0	2,5
610424	220	2,0	3,0

406/1VDEDP

Clesti combinati izolati la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manerele izolate cu doua straturi de culori diferite care permit o*
- *protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in conformitate cu standardul ISO 5746 si EN 60900:2004*





	L	B	C	A			
619177	140	23	32	8	157	B	**114,93**
619178	160	24	35	9.5	219	B	**112,86**
619179	180	27	38	10	269	B	**118,80**
619180	200	29	41	10.5	321	B	**123,68**
619181	220	32	47	11	376	B	**126,54**

capacitatea de taiere (10N=1kg)

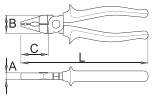
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
619177	140	1,6	2,0
619178	160	1,6	2,0
619179	180	1,8	2,5
619180	200	2,0	2,5
619181	220	2,0	3,0

420/1VDE

Clesti combinati cu gaura

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul EN 60900:2004*





	L	B	C	A			
607125	180	24	45	11	241	B	**102,21**

capacitatea de taiere (10N=1kg)

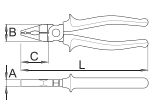
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
607125	180	1,8	2,5

420/1VDEBI

Clesti combinati cu gaura

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul EN 60900:2004*





	L	B	C	A			
610425	180	24	45	11	241	B	**107,32**

capacitatea de taiere (10N=1kg)

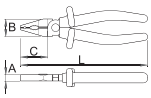
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
610425	180	1,8	2,5

420/1VDEDP

Clesti combinati cu gaura

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manerele izolate cu doua straturi de culori diferite care permit o*
- *protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in conformitate cu standardul EN 60900:2004*





	L	B	C	A			
619176	180	24	45	11	221	B	125,27

capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm²	max 650 N/mm²
619176	180	1,8	2,5

447/1VDEBI

Clesti reglabili izolati la 1000 V

- *material: crom vanadiu*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *forma speciala cu crestatura previne strivirea degetelor intre brate*
- *finisare: cromat in conformitate cu standardul EN12540*
- *deschiderea falcii reglabila in 7 pozitii*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 8976 si EN 60900:2004*



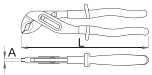
	L	A				
611993	240	6.5	35	367	B	109,69

447/1VDEDP

Clesti reglabili pentru instalatii

- *material: crom vanadiu*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *forma speciala cu crestatura previne strivirea degetelor intre brate*
- *finisare: cromat in conformitate cu standardul EN12540*
- *deschiderea falcii reglabila in 7 pozitii*
- *manerele izolate cu doua straturi de culori diferite care permit o*
- *protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in conformitate cu standardul ISO 8976 si EN 60900:2004*

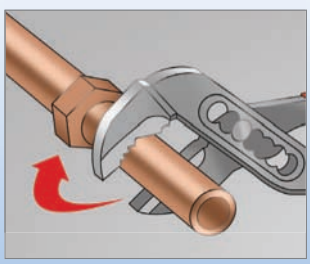


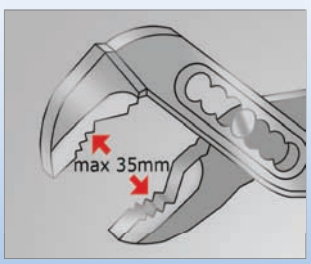


	L	A				
619199	240	6.5	35	382	B	154,09

CARACTERISTICI ALE:

447/1VDEBI, 447/1VDEDP





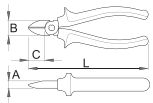


461/1VDE

Clesti cu tais lateral izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*





	L	B	A	C			
605012	140	19	9.5	18	169	B	**74,18**
605013	160	22.5	10	22	214	B	**76,87**

capacitatea de taiere (10N=1kg)

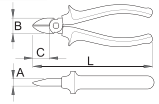
	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
605012	140	1,6	2,0
605013	160	1,6	2,5

461/1VDEBI

Clesti tais lateral izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*





	L	B	A	C			
610426	140	19	9.5	18	169	B	**77,84**
610427	160	22.5	10	22	214	B	**80,61**

capacitatea de taiere (10N=1kg)

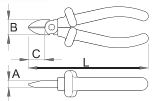
	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
610426	140	1,6	2,0
610427	160	1,6	2,5

461/1VDEDP

Clesti tais lateral izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*





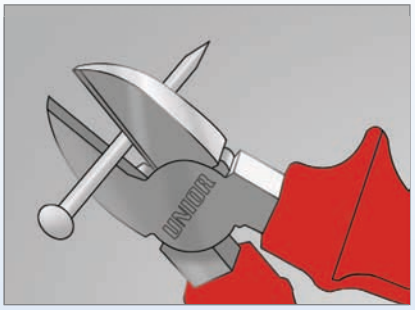
	L	B	A	C			
619193	140	19	9.5	18	174	B	**108,24**
619194	160	22.5	10	22	224	B	**113,92**

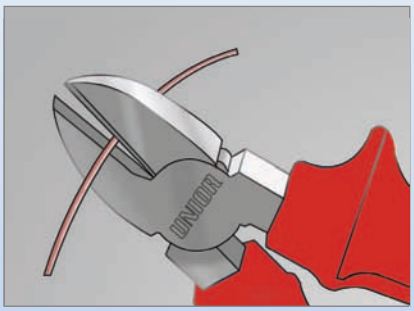
capacitatea de taiere (10N=1kg)

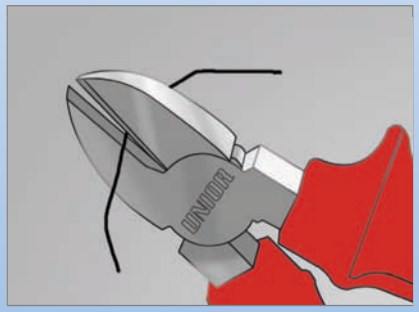
	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
619193	140	1,6	2,0
619194	160	1,6	2,5

CARACTERISTICI ALE:

461/1VDE, 461/1VDEBI, 461/1VDEDP







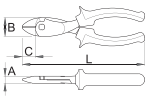


466/1VDE

Clesti cu tais lateral

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*





	L	B	A	C			
605212	180	28	11	20	316	B	**97,02**

capacitatea de taiere (10N=1kg)

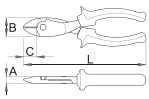
	L	max 2150 N/mm² TØ	max 650 N/mm² TØ
605212	180	1,8	3,0

466/1VDEBI

Clesti tais lateral pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*





	L	B	A	C			
610428	180	28	11	20	316	B	**101,90**
611756	200	27	11	21	344	B	**115,63**

capacitatea de taiere (10N=1kg)

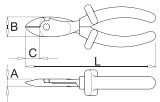
	L	max 2150 N/mm² TØ	max 650 N/mm² TØ
610428	180	1,8	3,0
611756	200	2,0	3,5

466/1VDEDP

Clesti tais lateral pentru conditii grele

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in conformitate cu standardul ISO 5749 si EN 60900:2004*

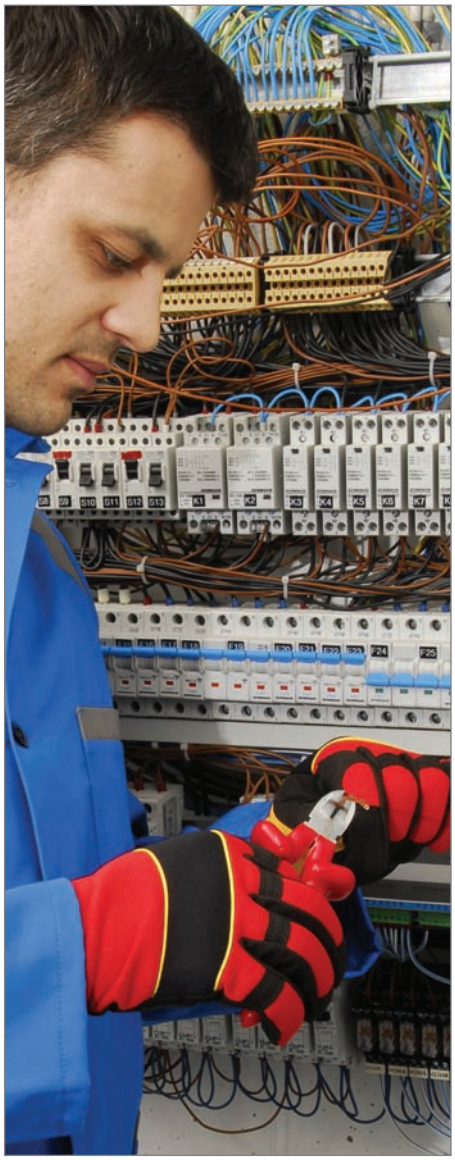




	L	B	A	C			
619195	180	28	11	20	303	B	**118,80**
619196	200	27	11	21	351	B	**132,70**

capacitatea de taiere (10N=1kg)

	L	max 2150 N/mm² TØ	max 650 N/mm² TØ
619195	180	1,8	3,0
619196	200	2,0	3,5



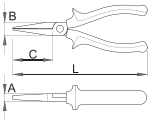


472/1VDE

Clesti cu varfuri late

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner de plastic pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*





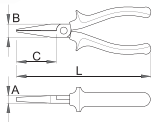
	L	B	C	A			
605015	160	16	49	9	146	B	**66,70**

472/1VDEBI

Clesti cu varfuri late

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*

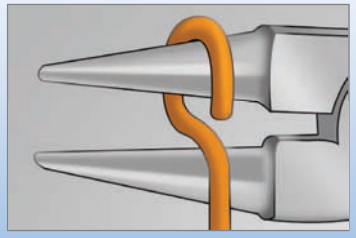




	L	B	C	A			
610430	160	16	49	9	146	B	**69,96**

CARACTERISTICI ALE

476/1VDE, 476/1VDEBI, 476/1VDEDP

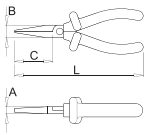


472/1VDEDP

Cleste cu varfuri lungi plate izolat la 1000 V

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *partea de prindere dintata*
- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*





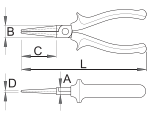
	L	B	C	A			
619182	140	15	39	8	114	B	**104,41**
619183	160	16	49	9	153	B	**106,17**

476/1VDE

Clesti cu varfuri rotunde

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *posibilitati mici de deteriorare a sarmei*
- *varfurile lungi asigura prinderea sarmei in locurile cele mai dificile*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner de plastic pentru conditii grele*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*





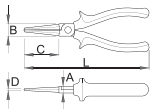
	L	B	A	C	D			
605016	140	15	9	39	2	116	B	**63,80**
605017	160	16	10	49	2.5	126	B	**69,17**

476/1VDEBI

Clesti cu varfuri rotunde

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *posibilitati mici de deteriorare a sarmei*
- *varfurile lungi asigura prinderea sarmei*
- *in locurile cele mai dificile*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*





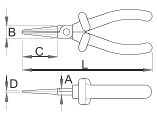
	L	B	A	C	D			
610431	140	15	9	39	2	116	B	**66,92**
610432	160	16	10	49	2.5	126	B	**72,64**

476/1VDEDP

Clesti cu varfuri rotunde

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *posibilitati mici de deteriorare a sarmei*
- *varfurile lungi asigura prinderea sarmei*
- *in locurile cele mai dificile*
- *cap polizat*
- *finisare: cromat in conformitate cu*
- *standardul EN12540*
- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*





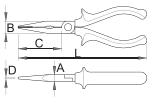
	L	B	A	C	D			
619184	140	15	9	39	2	114	B	**103,58**
619185	160	16	10	49	2.5	139	B	**105,64**

506/1VDE

Clesti cu varfuri semirotunde si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner de plastic pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*





	L	B	D	A	C			
605019	140	15	2	8	39	115	B	**66,70**
605020	160	16	2.5	9	49	137	B	**74,84**

capacitatea de taiere (10N=1kg)

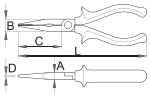
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
605019	140	1,6	2,0
605020	160	1,6	2,0

506/1VDEBI

Clesti cu varfuri semirotunde

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*





	L	B	D	A	C			
610434	140	15	2	8	39	115	B	**69,96**
610435	160	16	2.5	9	49	137	B	**78,67**

capacitatea de taiere (10N=1kg)

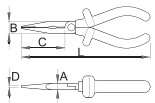
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
610434	140	1,6	2,0
610435	160	1,6	2,0

506/1VDEDP

Cleste cu varfuri rotunde si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manerele izolate cu doua straturi de culori diferite care permit o*
- *protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*





	L	B	D	A	C			
619187	140	15	8	8	39	125	B	**110,04**
619188	160	16	2.5	9	49	157	B	**112,33**

capacitatea de taiere (10N=1kg)

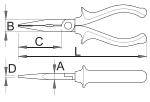
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
619187	140	1,6	2,0
619188	160	1,6	2,0

508/1VDE

Clesti cu varfuri semirotunde drepte si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner de plastic pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*





	L	B	D	A	C			
605021	170	17	2.5	9	61	156	B	**88,04**
605022	200	17	2.5	9	77	191	B	**91,74**

capacitatea de taiere (10N=1kg)

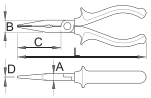
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
605021	170	1,6	2,0
605022	200	1,8	2,5

508/1VDEBI

Clesti cu varfuri semirotunde si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*





	L	B	D	A	C			
610436	170	17	2.5	9	61	156	B	**92,49**
610437	200	17	2.5	9	77	191	B	**96,32**

capacitatea de taiere (10N=1kg)

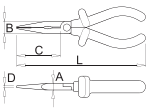
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
610436	170	1,6	2,0
610437	200	1,8	2,5

508/1VDEDP

Cleste cu varfuri semirotunde si tais izolat la 1000 V dublu strat

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *partea de prindere dintata*
- *in conformitate cu standardul ISO 5745 si EN 60900:2004*
- *de asemenea pentru agatarea si separarea cablurilor sau a altor obiecte de precizie*





	L	B	D	A	C			
619189	170	17	2.5	9	61	162	B	**117,52**
619190	200	17	2.5	9	77	201	B	**121,62**

capacitatea de taiere (10N=1kg)

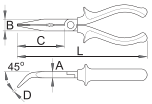
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
619189	170	1,6	2,0
619190	200	1,8	2,5

512/1VDE

Clesti cu varfuri semirotunde indoite si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner de plastic pentru conditii grele*
- *partea de prindere dintata*
- *varfuri-semirotunde indoite la 45 de grade*
- *in conformitate cu standardul EN 60900:2004*
- *varfurile lungi si indoite asigura prinderea sigura si precisa a*
- *suruburilor si piulitelor.*
- *falcile puternice asigura o strangere buna*





	L	B	D	A	C			
607123	170	17	2.5	9	61	152	B	**96,14**
607124	200	17	2.5	9	77	204	B	**100,85**

capacitatea de taiere (10N=1kg)

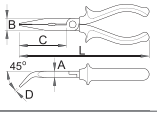
	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
607123	170	1,6	2,0
607124	200	1,8	2,5

512/1VDEBI

Clesti cu varfuri semirotunde indoite si tais

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *partea de prindere dintata*
- *varfuri-semirotunde indoite la 45 de grade*
- *in conformitate cu standardul EN 60900:2004*
- *varfurile lungi si indoite asigura prinderea sigura si precisa a*
- *suruburilor si piulitelor.*
- *falcile puternice asigura o strangere buna*





	L	B	D	A	C			
610438	170	17	2.5	9	61	152	B	**100,94**
610439	200	17	2.5	9	77	204	B	**105,91**

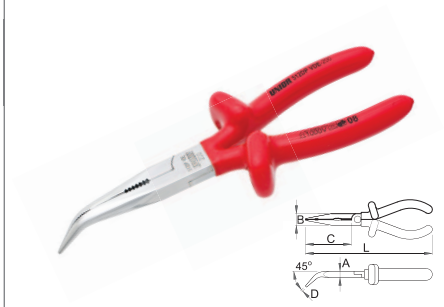
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² TØ	max 650 N/mm² TØ
610438	170	1,6	2,0
610439	200	1,8	2,5

512/1VDEDP

Cleste cu varfuri semirotunde indoite izolat la 1000 V dublu strat

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *partea de prindere dintata*
- *varfuri-semirotunde indoite la 45 de grade*
- *in conformitate cu standardul EN 60900:2004*
- *varfurile lungi si indoite asigura prinderea sigura si precisa a suruburilor si piulitelor.*
- *falcile puternice asigura o strangere buna*



	L	B	D	A	C			
619191	170	17	2.5	9	61	156	B	**119,59**
619192	200	17	2.5	9	77	201	B	**130,46**

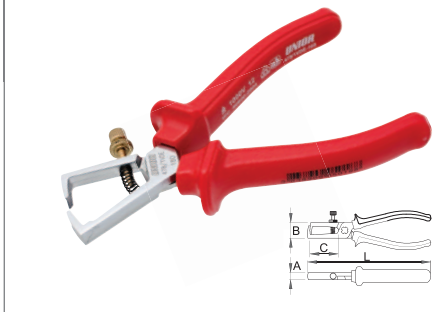
capacitatea de taiere (10N=1kg)

	L	max 1600 N/mm² ŦØ	max 650 N/mm² ŦØ
619191	170	1,6	2,0
619192	200	1,8	2,5

478/1VDE

Clesti pentru dezizolat izolati la 1000 V

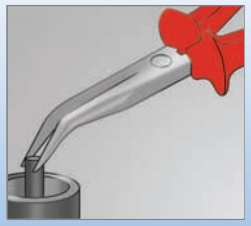
- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *maner de plastic pentru conditii grele*
- *capacitatea de dezizolare de la 1, 6-10 mm2*
- *arc de redeschidere*
- *in conformitate cu standardul EN 60900:2004*



	L		B	A	C			
605018	160	0.6 - 10	18	9	40	178	B	**77,48**

CARACTERISTICI ALE

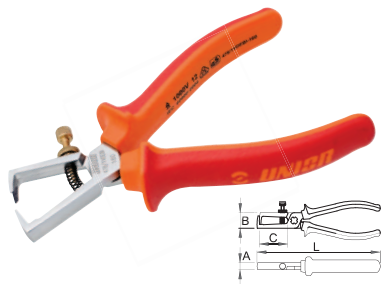
512/1VDE, 512/1VDEBI, 512/1VDEDP



478/1VDEBI

Clesti de dezizolat

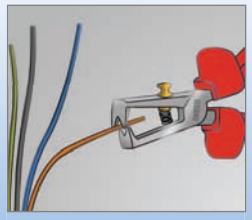
- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu*
- *standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *capacitatea de dezizolare de la 1, 6-10 mm2*
- *arc de redeschidere*
- *in conformitate cu standardul EN 60900:2004*



	L		B	A	C			
610433	160	0.6 - 10	18	9	40	178	B	**81,40**

CARACTERISTICI ALE

478/1VDE, 478/1VDEBI, 478/1VDEDP



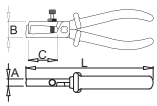


478/1VDEDP

Clesti pentru dezizolat

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *capacitatea de dezizolare de la 1, 6-10 mm2*
- *arc de redeschidere*
- *manerele izolate cu doua straturi de culori*
- *diferite care permit o protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in conformitate cu standardul EN 60900:2004*





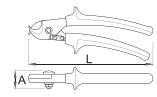
	L		B	A	C			
619186	160	0.6 - 10	18	9	40	167	B	**122,67**

580/1VDE

Foarfeca de cabluri

- *material: compozitie speciala pentru*
- *calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul*
- *EN12540*
- *maner de plastic pentru conditii grele*
- *pentru taierea cablurilor fara inima de otel*
- *in conformitate cu standardul EN 60900:2004*



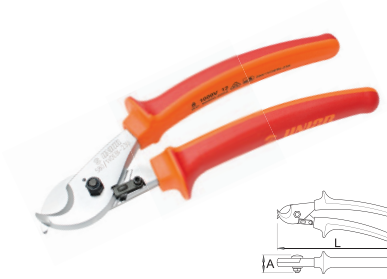


	L	A				
608502	170	18	10	339	B	**146,34**
608851	230	22	17	444	B	**166,85**

580/1VDEBI

Foarfeci de cabluri

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare:cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *pentru taierea cablurilor fara inima de otel*
- *in conformitate cu standardul EN 60900:2004*



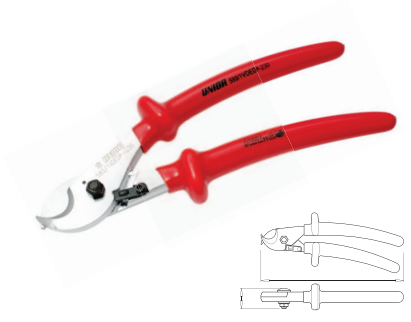


	L	A	max			
610440	170	18	10	339	B	**153,60**
610441	230	22	17	444	B	**175,25**

580/1VDEDP

Foarfeca de cabluri izolata la 1000 V dublu strat

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manerele izolate cu doua straturi de culori diferite care permit o protectie suplimentara*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *pentru taierea cablurilor fara inima de otel*
- *in conformitate cu standardul EN 60900:2004*



	L	A	max			
619197	170	18	10	226	B	**185,77**
619198	230	22	17	409	B	**193,42**

603VDETBI

Surubelnita de electrician VDE TBI cu lama izolata

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*



	a x b	C	L			
616436	0.4 x 2.5	75	160	33	B	**16,02**
616437	0.5 x 3.0	100	185	37	B	**16,28**
616438	0.6 x 3.5	100	185	39	B	**18,26**
616439	0.8 x 4.0	100	185	43	B	**18,96**
621247	1.0 x 4.5	125	225	75	B	**24,07**
616440	1.0 x 5.5	125	225	75	B	**24,07**
616441	1.2 x 6.5	150	260	113	B	**28,95**
616442	1.2 x 8.0	175	295	163	B	**32,56**
621248	1.6 x 10.0	200	320	115	B	**43,65**

603VDE

Surubelnita de electrician VDE cu lama izolata

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*



	a x b	C	L			
616470	0.4 x 2.5	75	160	33	B	**11,09**
616471	0.5 x 3.0	100	185	37	B	**12,28**
616472	0.6 x 3.5	100	185	39	B	**12,85**
616473	0.8 x 4.0	100	185	43	B	**14,21**
616474	1.0 x 5.5	125	225	75	B	**18,48**
616475	1.2 x 6.5	150	260	113	B	**21,03**
616476	1.2 x 8.0	175	295	163	B	**23,41**
616477	1.6 x 10.0	200	320	115	B	**30,67**

613VDETBI

Surubelnite VDE TBI cu lama izolata si profil PH

- *lama:otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner:forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



	+	C	L			
616443	PH0	60	145	34	B	**16,02**
616444	PH1	80	180	60	B	**20,59**
616445	PH2	100	210	94	B	**25,21**
616446	PH3	150	270	104	B	**33,09**
616447	PH4	200	320	230	B	**40,92**

613VDE

Surubelnite VDE cu lama izolata si profil PH

- *lama: otel crom vanadium molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



	+	C	L			
616478	PH0	60	145	34	B	**11,79**
616479	PH1	80	165	60	B	**14,04**
616480	PH2	100	200	94	B	**19,27**
616481	PH3	150	260	104	B	**25,12**

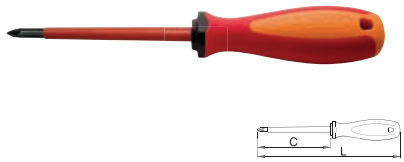




623VDETBI

Surubelnite VDE TBI cu lama izolata si profil PZ

- *lama: otel crom vanadiu molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*



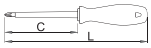
		C	L			
616460	PZ0	60	145	34	B	16,50
616461	PZ1	80	180	60	B	21,16
616462	PZ2	100	210	93	B	26,09
616463	PZ3	150	270	156	B	33,35

623VDE

Surubelnite VDE cu lama izolata si profil PZ

- *lama: otel crom vanadiu molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *maner: polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2 si 60900:2004*





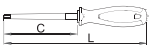
		C	L			
616482	PZ0	60	145	34	B	12,85
616483	PZ1	80	165	60	B	15,22
616484	PZ2	100	200	93	B	20,64
616485	PZ3	150	260	156	B	26,22

620VDETBI

Surubelnite VDE TBI cu lama izolata si profil hexagonal

- *lama: otel crom vanadiu molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*





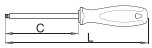
		C	L			
616448	2.5	75	160	34	B	28,29
616449	3	75	175	37	B	31,37
616450	4	75	175	68	B	34,89
616451	5	75	185	93	B	41,93
616452	6	100	210	128	B	48,53
616453	8	100	210	203	B	66,48

621VDETBI

Surubelnite VDE TBI cu lama izolata si profil TX

- *lama: otel crom vanadiu molibden tratata integral*
- *capat brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*





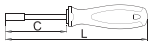
		C	L			
616454	TX 10	60	140	35	B	20,33
616455	TX 15	80	180	37	B	22,35
616456	TX 20	80	180	43	B	23,54
616457	TX 25	80	180	63	B	28,73
616458	TX 27	100	210	76	B	31,64
616459	TX 30	100	210	98	B	37,44

629VDETBI

Surubelnite VDE cu cap tubular si maner TBI

- *lama: otel crom vanadiu molibden tratata integral*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul EN 60900:2004*





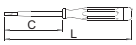
		C	L			
616464	5.5	125	225	103	B	62,48
616465	6	125	225	103	B	63,23
616466	7	125	235	123	B	67,23
621429	7/35	135	245	125	B	69,65
616467	8	125	235	140	B	68,38
616468	10	125	235	157	B	73,52
616469	13	125	245	186	B	96,36

630VDE

Surubelnita detectoare 220-250 V

- *dimensiune 140 cu agatatoare*





	a x b	C	L			
617659	0.5 x 3.0	60	140	13	A	8,54
617660	0.6 x 3.5	90	180	24	A	11,53



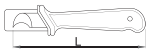
385VDE

Cutter izolat la 1000 V

- *lama din otel carbon aliat*
- *maner de plastic*
- *cu protectie a lamei*







	L			
615494	180	76	E	63,05

385AVDE

Cutter izolat la 1000 V

- *lama din otel carbon aliat*
- *maner de plastic*
- *cu protectie a lamei*



	L			
619101	140	78	E	65,91

385BVDE

Cutter izolat la 1000 V

- *lama din otel carbon aliat*
- *maner de plastic*
- *cu protectie a lamei*
- *cuțit electrician cu manșon de protecție lama*











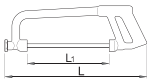
	L			
619102	140	80	E	215,03

750VDEDP

Rama bomfaier izolata la 1000 V

- *dublu strat-doua culori distincte care asigura o protectie suplimentara.Cand al doilea strat devine vizibi se inlocuieste scula cu una noua*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*
- *in concordanta cu standardul SR EN 60900:2005*





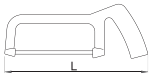
	L	L1			
619098	460	270	815	E	400,09

753VDEDP

Bomfaier izolat la 1000 V

- *lama interschimbabila*
- *in concordanta cu standardul SR EN 60900:2005*





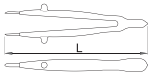
	L			
615502	150	276	E	209,57

1340VDEDP

Penseta dreapta izolata la 1000 V

- *material: otel inoxidabil*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





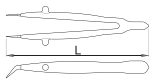
	L			
616847	150	45	E	85,49

1341VDEDP

Penseta cu varfuri indoite izolata la 1000 V

- *material otel inoxidabil*
- *100% control - fiecare piesa este testata*
- *in concordanta cu standardul EN 60900:2004*
- *dublu strat-dubla protectie, doua straturi de culori diferite*
- *daca al doilea strat devine vizibil inlocuiti scula VDE cu una noua*





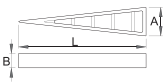
	L			
616848	150	40	E	85,49

1350VDE

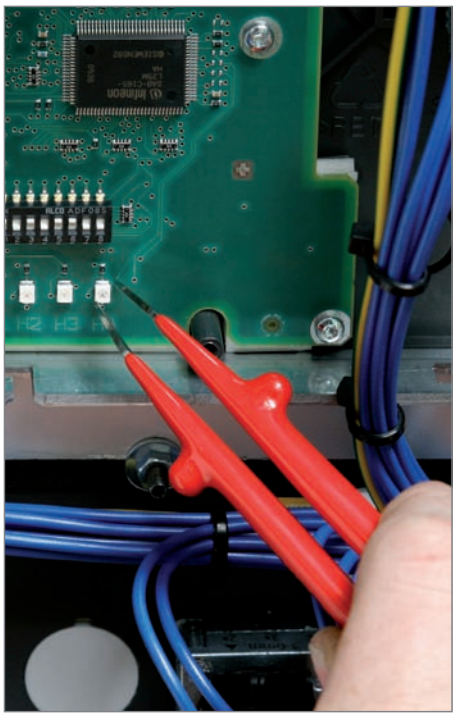
Pana

- *Material plastic*





	L	B	A			
619103	165	19	35	49	E	61,64



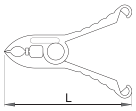
1351VDE

Clema de prindere

1000V IEC 60900:2004

- *Material plastic*





	L			
619099	160	77	E	61,86

603CS6ATVT

Set de surubelnite VDE TBI cu tester de tensiune

1000V IEC 60900:2004



	№				
617654	603CS6ATVT	6	430	G	113,65

603VDETBI (0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **613VDETBI** (PH1 x 80, PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

603S50VDETBI

Set de surubelnite VDE pe display tip stand

1000V IEC 60900:2004



	№				
617046	603S50VDETBI	50	5620	F	1.440,87

603VDETBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), **613VDETBI** (PH0 x 60, PH1 x 80, PH2 x 100), **623VDETBI** (PZ1 x 80, PZ2 x 100), **978VDE** (330 x 205 x 240)

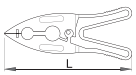
1352VDE

Clema de prindere

1000V IEC 60900:2004

- *Material plastic*





	L			
619100	140	54	E	29,13

603CS6VDETBI

Set de surubelnite VDE TBI

1000V IEC 60900:2004



	№				
617042	603CS6VDETBI	6	530	G	133,80

603VDETBI (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **613VDETBI** (PH1 x 80, PH2 x 100)

603CS6VDE

Set de surubelnite VDE

1000V IEC 60900:2004



	№				
617044	603CS6VDE	6	485	G	98,16

603VDE (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **613VDE** (PH1 x 80, PH2 x 100)

603CS6AVT

Set de surubelnite VDE TBI

1000V IEC 60900:2004



	№				
617653	603CS6AVT	6	457	G	121,13

603VDETBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **613VDETBI** (PH1 x 80, PH2 x 100)

603CS6TVDETBI

Set de surubelnite VDE TBI cu tester de tensiune

1000V IEC 60900:2004



	№				
617043	603CS6TVDETBI	6	505	G	126,32

603VDETBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **613VDETBI** (PH1 x 80, PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

603CS6TVDE

Set de surubelnite VDE cu tester de tensiune

1000V IEC 60900:2004



	№				
617045	603CS6TVDE	6	460	G	95,61

603VDE (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **613VDE** (PH1 x 80, PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

603CS6AVDE

Set de surubelnite VDE



	№				
617655	603CS6AVDE	6	400	G	89,36

603VDE (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **613VDE** (PH1 x 80, PH2 x 100)

620CS6VDETBI

Set de surubelnite VDE TBI cu profil hexagonal



	№				
617048	620CS6VDETBI	2.5 - 8 / 6	580	G	251,55

620VDETBI (2.5, 3, 4, 5, 6, 8)

629CS6VDETBI

Set de surubelnite cu cap tubular VDE si maner TBI



	№				
617050	629CS6VDETBI	5.5 - 13 / 6	865	G	431,20

629VDETBI (5.5, 6, 7, 8, 10, 13)

603CS6ATVD

Set de surubelnite VDE cu tester de tensiune



	№				
617656	603CS6ATVD	6	390	G	86,86

603VDE (0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **613VDE** (PH1 x 80, PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

621CS6VDETBI

Set de surubelnite VDE TBI cu profil TX



	№				
617049	621CS6VDETBI	TX 10 - TX 30 / 6	511	G	163,99

621VDETBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30)

905VDE

Set de scule VDE in husa tip mapa



	№				
617570	905VDE	13	1883	T	540,89

406/1VDE (180), **461/1VDE** (160), **478/1VDE** (160), **472/1VDE** (160), **556A** (160), **753P** (150), **710P** (3), **603VDE** (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **613VDE** (PH1 x 80, PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

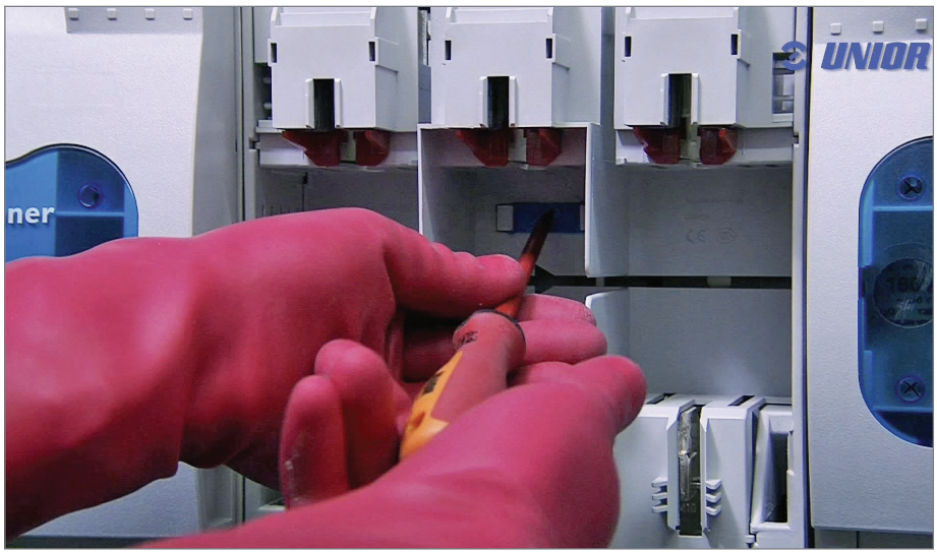
603S50VDE

Set de surubelnite VDE pe display tip stand



	№				
617047	603S50VDE	50	5190	F	1.143,52

603VDE (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), **613VDE** (PH0 x 60, PH1 x 80, PH2 x 100), **623VDE** (PZ1 x 80, PZ2 x 100), **978VDE** (330 x 205 x 240)



905VDEBI

Set de scule VDE BI in husa tip mapa



	№				
617571	905VDEBI	13	1958	T	800,89

406/1VDEBI (180), **461/1VDEBI** (160), **478/1VDEBI** (160), **472/1VDEBI** (160), **753VDEDP** (150), **385VDE** (180), **603VDETBI** (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **613VDETBI** (PH1 x 80, PH2 x 100), **710P** (3), **630VDE** (0.5 x 3.0 x 140)

906VDE

Set de scule VDE in husa tip mapa



	№				
617572	906VDE	6	876	T	279,31

461/1VDE (160), **406/1VDE** (180), **603VDE** (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), **613VDE** (PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

906VDEBI

Set de scule VDE BI in husa tip mapa.



	№				
617573	906VDEBI	6	911	T	301,80

461/1VDEBI (160), **406/1VDEBI** (180), **603VDETBI** (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), **613VDETBI** (PH2 x 100), **630VDE** (0.5 x 3.0 x 140)

964VDE1

Set de chei fixe simple izolate la 1000 V in modul SOS



	№				
621782	964VDE1	6 - 24 / 15	2500	F	1.077,08

110/2VDEDP (6, 7, 8, 10, 12, 13, 14, 15, 17, 19, 20, 21, 22, 23, 24), **VL964VDE1** (374 x 364 x 30)

VL964VDE1

Modul SOS pentru 964VDE1

	B	L	H		
621781	374	364	30	112	V	53,11

964VDE2

Set de chei inelare izolate la 1000 V in modul SOS



	№				
621784	964VDE2	10 - 24 / 11	2600	F	946,92

180/2VDEDP (10, 11, 12, 13, 14, 15, 17, 19, 21, 22, 24), **VL964VDE2** (374 x 364 x 30)

VL964VDE2

Modul SOS pentru 964VDE2

	B	L	H		
621783	374	364	30	112	V	53,11

964VDE3

Set clesti izolati la 1000 V in modul SOS



	№				
621786	964VDE3	12	3200	F	1.585,50

406/1VDEDP (180), **420/1VDEDP** (180), **447/1VDEDP** (240), **461/1VDEDP** (160), **466/1VDEDP** (180), **472/1VDEDP** (160), **476/1VDEDP** (160), **478/1VDEDP** (160), **506/1VDEDP** (160), **508/1VDEDP** (170), **512/1VDEDP** (170), **580/1VDEDP** (170), **VL964VDE3** (564 x 364 x 30)

VL964VDE3

Modul SOS pentru 964VDE3

	B	L	H		
621785	564	364	30	168	V	84,96



Producator European din 1919

964VDE4

Set de chei cu clichet si chei in T izolate la 1000 V in modul SOS



№					
621788	964VDE4	5	5400	F	9.960,41

196/2BVDEDP (3/8", 1/2"), **264VDEDP** (5 -50, 20 - 100, 40 - 220), **VL964VDE4** (566 x 364 x 30)

VL964VDE4

Modul SOS pentru 964VDE4

№	B	L	H			
621787	566	364	30	168	V	84,96

964VDE5A

Set de accesorii izolate la 1000 V in modul SOS



№					
621794	964VDE5A	4	1800	F	1.028,72

190.1AVDEDP (1/2"), **190.4/2VDEDP** (1/2" x 250, 1/2" x 125), **190.5/2VDEDP** (250), **VL964VDE5A** (188 x 364 x 30)

VL964VDE5A

Modul SOS pentru 964VDE5A

№	B	L	H			
621793	188	364	30	56	V	27,63

964VDE6

Set de chei locas hexagonal in T izolate la 1000 V in modul SOS



№					
621796	964VDE6	4 - 8 / 4	645	F	427,20

220TVDE (4, 5, 6, 8), **VL964VDE6** (188 x 364 x 30)

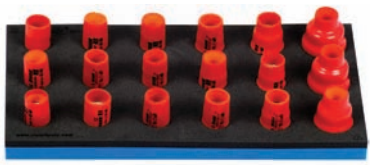
VL964VDE6

Modul SOS pentru 964VDE6

№	B	L	H			
621795	188	364	30	56	V	27,63

964VDE5

Set de capete chei tubulare izolate la 1000 V in modul SOS



№					
621790	964VDE5	8 - 32 / 18	2200	F	1.095,51

190/2VDEDP (8, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32), **VL964VDE5** (188 x 364 x 30)

VL964VDE5

Modul SOS pentru 964VDE5

№	B	L	H			
621789	188	364	30	56	V	27,63

964VDE5L

Set de capete chei tubulare lungi 1/2" izolate la 1000 V in modul SOS



№					
621792	964VDE5L	10-24/14	2500	F	1.067,26

190/2LVDEDP (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24), **VL964VDE5L** (374 x 364 x 30)

VL964VDE5L

Modul SOS pentru 964VDE5L

№	B	L	H			
621791	374	364	30	112	V	53,11

964VDE7

Set de chei locas hexagonal izolate la 1000 V in modul SOS



№					
621798	964VDE7	3-12/7	1000	F	344,30

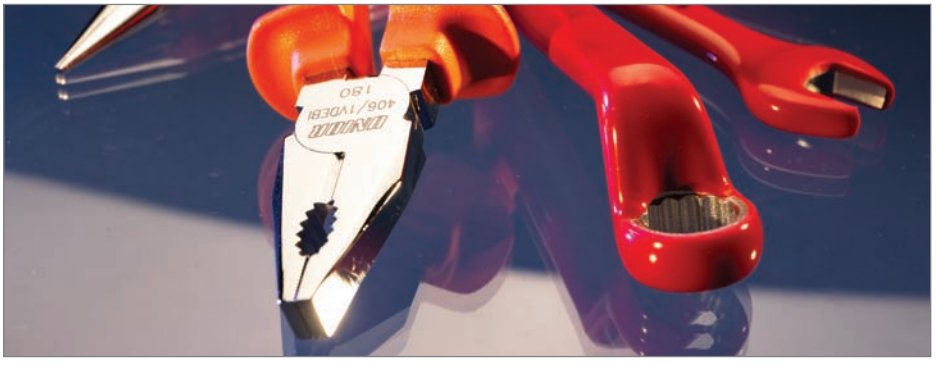
220/3LVDEDP (3, 4, 5, 6, 8, 10, 12), **VL964VDE7** (188 x 364 x 30)

VL964VDE7

Modul SOS pentru 964VDE7

№	B	L	H			
621797	188	364	30	56	V	27,63

Producator European din 1919



964VDE8A

Set de surubelnite drepte izolate la 1000 V VDETBI in modul SOS



№					
621800	964VDE8A	11	1300	F	295,99

603VDETBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 4.5 x 125, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200), **630VDE** (0.5 x 3.0 x 140, 0.6 x 3.5 x 180), **VL964VDE8A** (374 x 364 x 30)

VL964VDE8A

Modul SOS pentru 964VDE8A

№	B	L	H			
621799	374	364	30	112	V	53,11

964VDE8B

Set de surubelnite cruce izolate la 1000 V VDETBI in modul SOS



№					
621802	964VDE8B	8	900	F	219,65

613VDETBI (PH0 x 60, PH1 x 80, PH2 x 100, PH3 x 150), **623VDETBI** (PZ0 x 60, PZ1 x 80, PZ2 x 100, PZ3 x 150), **VL964VDE8B** (188 x 364 x 30)

VL964VDE8B

Modul SOS pentru 964VDE8B

№	B	L	H			
621801	188	364	30	56	V	27,63

964VDE8C

Set de surubelnite cu locas hexagonal izolate la 1000 V VDETBI in modul SOS



№					
621804	964VDE8C	2.5 - 8 / 6	671	F	279,18

620VDETBI (2.5, 3, 4, 5, 6, 8), **VL964VDE8C** (188 x 364 x 30)

VL964VDE8C

Modul SOS pentru 964VDE8C

№	B	L	H			
621803	188	364	30	56	V	27,63

964VDE8D

Set de surubelnite cu profil TX izolate la 1000 V VDETBI in modul SOS



№					
621806	964VDE8D	TX 10 - TX 30 / 6	615	F	191,62

621VDETBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30),**VL964VDE8D** (188 x 364 x 30)

VL964VDE8D

Modul SOS pentru 964VDE8D

№	B	L	H			
621805	188	364	30	56	V	27,63

964VDE8E

Set de surubelnite cu capete chei tubulare izolate la 1000 V VDETBI in modul SOS



№					
621808	964VDE8E	5.5 - 13 / 6	934	F	458,83

629VDETBI (5.5, 6, 7, 8, 10, 13), **VL964VDE8E** (188 x 364 x 30)

VL964VDE8E

Modul SOS pentru 964VDE8E

№	B	L	H			
621807	188	364	30	56	V	27,63

964VDE9

Set de scule izolate la 1000 V in modul SOS



№					
621810	964VDE9	10	2200	F	1.362,24

385VDE (180), **385AVDE** (140), **385BVDE** (140), **750VDEDP** (460), **753VDEDP** (150), **1340VDEDP** (150), **1341VDEDP** (150), **1350VDE** (165), **1351VDE** (160), **1352VDE** (140), **VL964VDE9** (564 x 364 x 30)

VL964VDE9

Modul SOS pentru 964VDE9

№	B	L	H			
621809	564	364	30	168	V	84,96



Scule pentru instalatii

O procedura speciala pentru fabricarea clestilor pentru instalatori

Producator European din 1919

FALCI REGLABILE

1. **Debavurarea:** otelul plat se taie in forma corecta cu ajutorul unei masini, precizia taierii asigura un consum de material minim.



2. **Forjarea:** piesa forjata se produce cu ajutorul tehnologiei de forjare in matrita. Forjarea permite obtinerea unor diverse forme ergonomice. Utilizand procesele corespunzatoare de forjare, se mentine cursul adecvat al fibrelor, deja prezent in spatiile libere laminate.

3. **Debavurarea:** indepartarea materialului de prisos.

4. **Brosarea canelurii:** geometria corespunzatoare a canelurii se obtine cu ajutorul tehnologiei pentru brosare. Acest lucru asigura o aderenta optima si rezistenta la uzura.



5. **Prelucrarea CNC:** prelucrarea intregii falci se face cu ajutorul masinilor cu comanda numerica CNC. Dispozitivele de prindere pe masina asigura precizia necesara unei functionari corespunzatoare din punct de vedere calitativ al cheii.

6. **Calire prin inductie:** incalzirea locala si calirea falcii asigura un grad ridicat de duritate pe partea functionala a sculei. Prin durificare putem realiza microstructura optima si duritatea necesara durabilitatii falcilor.

FALCA FIXA

7. **Debitarea:** otelul plat se taie in forma corecta cu ajutorul unei prese de debitat; acuratetea taierii asigura un consum minim de material.



8. **Forjarea:** piesa forjata se produce cu ajutorul tehnologiei de forjare in matrita. Forjarea permite obtinerea unor diverse forme ergonomice. Utilizand procesele corespunzatoare de forjare, se mentine cursul adecvat al fibrelor, deja prezent in spatiile libere laminate.

9. **Debavurarea:** indepartarea materialului de prisos.

10. **Brosarea:** geometria corespunzatoare canelurii falcii este realizata cu ajutorul tehnologiei de brosare. Acest lucru asigura o aderenta optima si rezistenta la uzura.

MONTAJ

11. **Nituire:** nitul ofera o legatura ferma intre cele doua falci.



12. **Tratament termic (calire si revenire):** tratamentul termic cu calire si revenire este destinat imbunatatirii structurii otelului, pentru a oferi o mai mare duritate, tenacitate si alte calitati necesare depasirii incarcarii datorate lucrului cu un astfel de produs.

13. **Calirea prin inductie:** incalzirea locala si calirea canelurii falcii asigura un grad ridicat de duritate pe partea functionala a sculei. Prin durificare putem realiza microstructura optima si duritatea ceruta, care asigura durabilitatea clestelui pentru tevi.

14. **Acoperirea:** o culoare de protectie este aplicata cu ajutorul tehnologiei de acoperire cu pulbere in camp electrostatic, aceasta confera produsului un aspect profesional si serveste de asemenea si ca protectie de suprafata.



Numeroase părți suplimentare

Clasa de chei pentru țevi este completată de alte scule dedicate instalațiilor cu țevi, precum și diverși clești pentru tuburi și menghine, trepiede, scule de evazat, pompe de testare pentru lucrul cu țevi și alte asemenea.

Formă ergonomică

Datorită formei sale ergonomice, cheia specială pentru țevi se potrivește întotdeauna perfect în mâna dumneavoastră atunci când realizați o operațiune fermă, de strângere fără alunecare a tuburilor, indiferent de forma și diametrul acestora.

Instalare ușoară

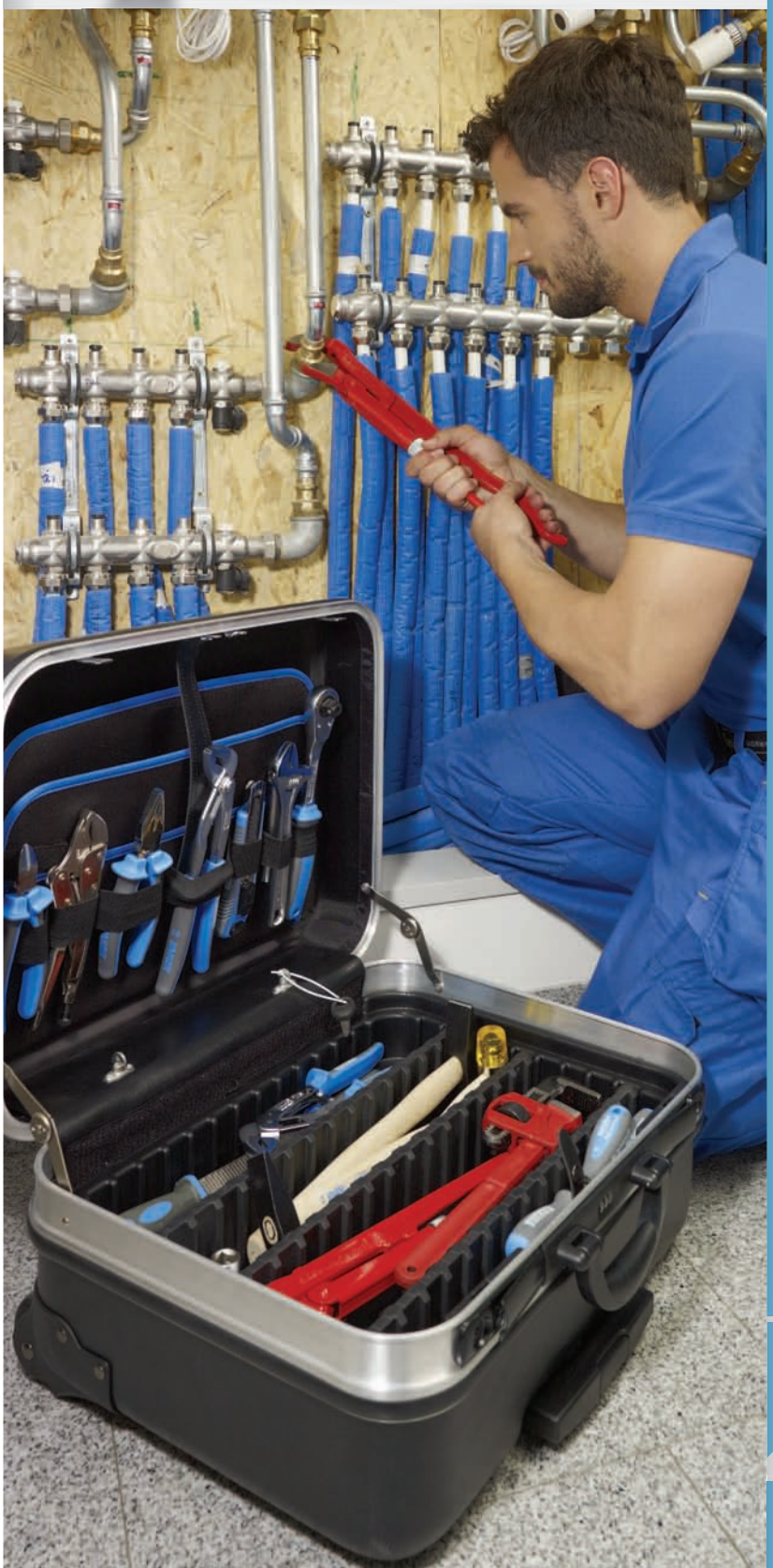
Țevile și sculele pentru țevi Unior permit instalarea sigură și eficientă a sistemelor de țevi, deoarece transferă majoritatea forței adiționale asupra țevilor și oferă o strângere mai puternică și constantă, fără piulițe sau șuruburi.


Clesti reglabili si clesti pentru tevi 160 - 167


Scule pentru indoirea si taierea tevilor 168 - 170


Pompa pentru testarea presiunii si cheia cu lant 170 - 171


Menghina pentru tevi si trepied 171



UNIOR®

447/1HPP

Clesti pentru pompe de apa

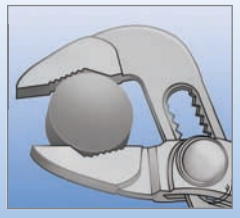
- *material: crom vanadiu*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *dantura dintilor este conceputa pentru a asigura strangerea sigura a piesei*
- *deschiderea falcilor reglabila in 10 pozitii*
- *Clestii HPP sunt prevazuti cu un buton pentru reglarea rapida a deschiderii*
- *falcilor, asigurand o rapida si precisa adaptare a acestora pe piesa*
- *Strangere ferma: designul si forma falcilor asigura o mai buna strangere a*
- *piesei, avand ca rezultat stabilitate, siguranta si un randament mai bun.*
- *Finisare: clestii sunt forjati si tratati din otel de inalta calitate, cu falcile tratate*
- *suplimentar prin inductie*
- *Lucrul cu clestele: cu toata constructia supla a acestuia, falcile asigura lucrul cu o singura mana in locurile de lucru extrem de dificile*
- *Confectionate din doua componente reducand alunecarea mainii in timpul lucrului si asigurand siguranta si eficienta a mainii in actionarea falcilor.*
- *Ergonomie: manerele sunt proiectate pentru o adaptare perfecta a mainii si asigura o mai mare strangere si siguranta.*

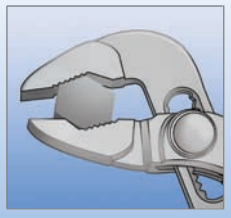


	L	A	maxi			
620172	245	8.5	40	392	B	**129,14**

CARACTERISTICI ALE:

447/1HPP, 447/1BIHPPST, 447/4PHPP, 422/1HYPO, 447/6, 447/1, 447/1BI





447/1BIHPPST

Set de clești reglabili în display



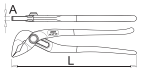
	№				
621856	**447/1BIHPPST**	6	2750	G	**821,74**
	447/1HPP (245)				

447/4PHPP

Clesti pentru instalatii

- *material: crom vanadiu*
- *tratat complet*
- *acoperire: fosfatare*
- *cap vopsit*
- *manere de plastic*
- *dantura dintilor este conceputa pentru a asigura strangerea sigura a piesei*
- *deschiderea falcilor reglabila in 10 pozitii*
- *Clestii HPP sunt prevazuti cu un buton pentru reglarea rapida a deschiderii*
- *falcilor, asigurand o rapida si precisa adaptare a acestora pe piesa*
- *Strangere ferma: designul si forma falcilor asigura o mai buna strangere a*
- *piesei, avand ca rezultat stabilitate, siguranta si un randament mai bun.*
- *Finisare: clestii sunt forjati si tratati din otel de inalta calitate, cu falcile trata-*
- *te suplimentar prin inductie*
- *Lucrul cu clestele: cu toata constructia supla a acestuia, falcile asigura lucrul cu o singura mana in locurile de lucru extrem de dificile*
- *Confectionate din doua componente reducand alunecarea mainii in timpul lucrului si asigurand siguranta si eficienta a mainii in actionarea falcilor.*
- *Ergonomie: manerele sunt proiectate pentru o adaptare perfecta a mainii si asigura o mai mare strangere si siguranta.*





	L	A	maxi			
620421	245	8.5	40	353	B	**98,47**

442/1HYPO

Clesti reglabili HYPO

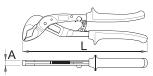
- *material: compozitie speciala pentru calire revenire*
- *suprafata de lucru tratata prin inductie*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *tratat complet*











	L	A	maxi			
616727	180	9.5	33	201	B	**100,63**
611780	240	9	40	397	B	**125,66**

442/1BIST

Set de clesti reglabili HYPO in display de carton



	№				
615185	442/1BIST	6	2890	F	764,85
	442/1HYPO (240)				

447/6

Cleste reglabil

- *material: crom vanadiu*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *forma speciala cu crestatura previne strivirea degetelor intre brate*
- *vopsit rosu*
- *deschiderea falcii reglabila in 7 pozitii*
- *in conformitate cu standardul ISO 8976*



	L	A	max			
607348	175	6.5	26.5	154	B	49,85
603160	240	7.5	35	312	B	66,53
605006	300	8.5	42	464	B	94,25

447/1

Cleste reglabil

- *material: crom vanadiu*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *forma speciala cu crestatura previne strivirea degetelor intre brate*
- *finisare: cromat in conformitate cu standardul EN12540*
- *deschiderea falcii reglabila in 7 pozitii*
- *in conformitate cu standardul ISO 8976*



	L	A	max			
605237	240	6.5	35	307	B	72,03

447/1BI

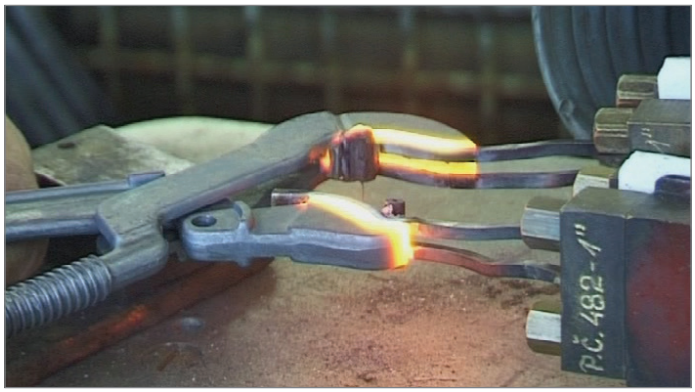
Cleste reglabil

- *material: crom vanadiu*
- *tratat complet*
- *suprafata de lucru tratata prin inductie*
- *forma speciala cu crestatura previne strivirea degetelor intre brate*
- *finisare: cromat in conformitate cu standardul EN12540*
- *deschiderea falcii reglabila in 7 pozitii*
- *manere bimaterial pentru conditii grele*
- *in conformitate cu standardul ISO 8976*



	L	A	max			
610984	240	6.5	35	367	B	86,94



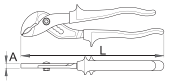


441/1BI

Clesti reglabili

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *articulatie culisanta*
- *deschiderea falcilor reglabila in 5 pozitii*
- *in conformitate cu standardul ISO 8976*





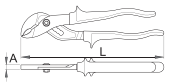
	L	A	max			
616728	170	13.8	30	179	B	**56,72**

441/4BI

Clesti reglabili

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *manere bimaterial pentru conditii grele*
- *articulatie culisanta*
- *deschiderea falcilor reglabila in 5 pozitii*
- *in conformitate cu standardul ISO 8976*





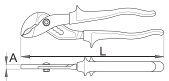
	L	A	max			
616729	170	13.8	30	179	B	**53,02**

441/4G

Clesti reglabili

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *acoperire: fosfatare conform standardului DIN 12476*
- *maner de plastic pentru conditii grele*
- *articulatie culisanta*
- *deschiderea falcilor reglabila in 5 pozitii*
- *in conformitate cu standardul ISO 8976*





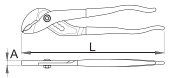
	L	A	max			
616730	170	13.8	30	179	B	**50,51**

441/4P

Clesti reglabili

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap vopsit*
- *manere de plastic*
- *articulatie culisanta*
- *acoperire: fosfatare conform standardului DIN 12476*
- *deschiderea falcilor reglabila in 5 pozitii*
- *in conformitate cu standardul ISO 8976*





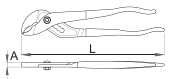
	L	A	max			
616731	170	13.8	30	147	B	**45,50**
608686	240	7.5	35	297	B	**45,63**

441/7PR

Cleste reglabil

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *articulatie culisanta*
- *deschiderea falcii reglabila in 6 pozitii*
- *cap vopsit*
- *maner profilat ergonomic*
- *manere de plastic*
- *in conformitate cu standardul ISO 8976*





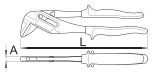
	L	A	max			
601464	240	8	35	337	B	**45,63**

449/1PYTHON

Clesti reglabili pentru instalatii

- *material: crom vanadiu*
- *tratat complet*
- *finisare: cromat in conformitate cu standardul EN12540*
- *deschiderea falcii reglabila in 7 pozitii*
- *falcile sunt intotdeauna paralele pentru protectia piesei asupra careia se actioneaza*
- *impotriva deteriorarii*
- *449.1 falci suplimentare din plastic pentru lucrul pe suprafete cromate si polizate*
- *manere bimaterial pentru conditii grele*





	L	A				
615032	240	11	42	420	B	141,90
616725	300	15	63	709	B	170,90

449.1

Falca de plastic pentru 449/1PYTHON



615033	240	2	10	E	7,26
616726	300	2	12	E	7,26

449/1BIST

Set de clesti reglabili in display de carton



	№				
615182	449/1BIST	6	3000	F	863,81
	449/1PYTHON (240)				

UTILIZARE 449

Clestii PYTHON



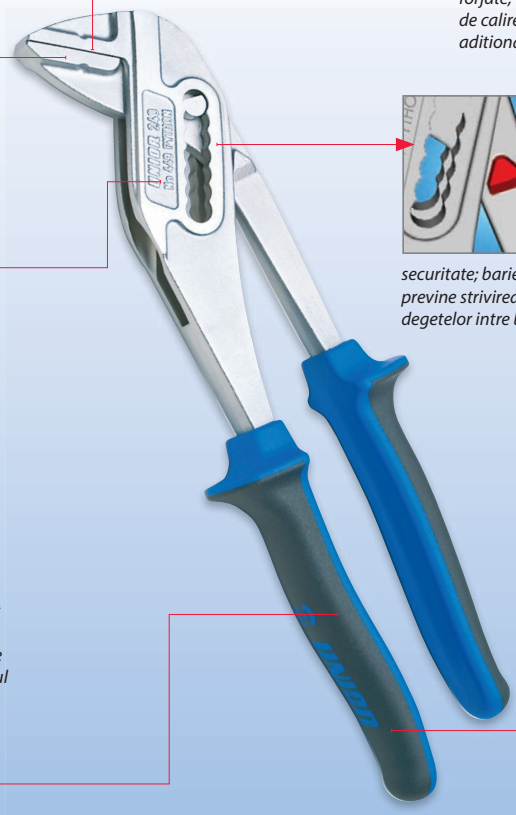
protectie suplimentara; cu falci suplimentare din plas- tic pentru lucrul pe piese cromate sau lustruite.



deschiderea falcilor este ajustabila in 7 pozitii



forta de strangere deosebita; designul si forma manerelor asigura o aderenta mai mare a mainilor pe maner in timpul lucrului. Munca se face in siguranta..



reglarea falcilor; clestii sunt disponibili in doua dimensiuni forjate, tratament de calire si revenire aditional



securitate; bariera speciala previne strivirea accidentala a degetelor intre bratele clestelui

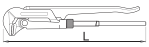
ergonomie; mainile se aseaza perfect datorita celor doua componente ale manerului si a materialului care reduce alunecarea mainii in timpul lucrului.

480/6

Clesti de tevi cu gura la 90° model Suedez

- *material: crom vanadiu*
- *tratat complet*
- *vopsit rosu*
- *falci danturate tratate prin inductie*
- *in conformitate cu standardul DIN 5234 forma A*





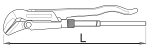
601481	1	50	325	692	D	**110,62**
601482	1.1/2"	60	415	1200	D	**148,06**
601483	2	80	540	2050	D	**244,02**
601484	3	105	685	3430	D	**399,48**
605125	4	125	750	4920	D	**580,23**

481/6

Clesti de tevi cu gura la 45° model Suedez

- *material: crom vanadiu*
- *tratat complet*
- *vopsit rosu*
- *falci danturate tratate prin inductie*
- *in conformitate cu standardul DIN 5234 forma B*





601495	1/2"	35	265	480	D	**97,20**
601496	1	45	335	815	D	**118,10**
601497	1.1/2"	55	430	1380	D	**153,87**
601498	2	70	555	2330	D	**255,46**
601499	3	95	700	4300	D	**443,61**

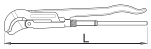


482/6

Cleste de tevi cu gura la 45°, model suedez, forma-S

- *material: crom vanadiu*
- *tratat complet*
- *vopsit rosu*
- *falci danturate tratate prin inductie*
- *falcile asigura o blocare buna a suprafetelor plate semirotunde si rotunde*
- *in conformitate cu standardul DIN 5234 forma C*





601510	1/2"	35	270	475	D	**99,66**
601511	1	50	335	800	D	**119,24**
601512	1.1/2"	60	430	1350	D	**157,39**
601513	2	80	550	2360	D	**260,17**
601514	3	105	700	4370	D	**465,34**

483/6

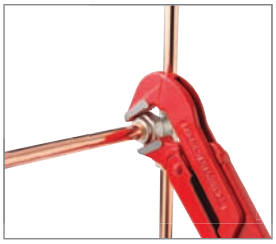
Cleste pentru tevi cu blocare

- *material: crom vanadiu*
- *tratat complet*
- *vopsit rosu*
- *falci danturate tratate prin inductie*

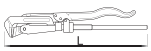
Utilizare

- *reglați lungimea de strângere prin acționarea piuliței de reglaj de pe mâner*
- *cu o forța minina pe levierul de pe mâner se va obține o forța mare de*
- *blocare și cleștele va rămâne blocat pe piesa*
- *pentru deblocarea cleștelui eliberați levierul de pe mâner*









611781	1.1/2"	50	418	1450	D	**188,14**
613076	2	70	490	2040	D	**302,06**

483/6A

Cleste pentru tevi cu blocare cu falci netede

- *material: crom vanadiu*
- *tratat complet*
- *vopsit rosu*
- *strangere precisa a piulitelor si a fitingurilor in deplina siguranta*

Utilizare

- *reglați lungimea de strângere prin acționarea piuliței de reglaj de pe*
- *mâner*
- *cu o forța mina pe levierul de pe mâner se va obține o forța mare de blocare și cleștele va rămâne blocat pe piesa*
- *pentru deblocarea cleștelui eliberați levierul de pe mâner*



			L			
612668	1.1/2"	50	418	1470	D	188,14
612903	2	70	490	2000	D	302,06

400

Set de clesti instalatori si reglabili in cutie de carton



	№				
612599	400	3	2715	G	342,85

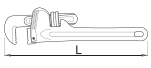
482/6 (1, 1.1/2"), **447/6** (240)

492/6

Cleste industrial pentru tevi

- *material: maner din aliaj special, foarte rezistent*
- *falci tratate, dintii tratati suplimentar prin inductie*
- *falci intershimbabile, fosfatate*
- *maner vopsit*
- *falci si suruburi ca parti de schimb pentru art.492, 490 si 492L*
- *falca superioara reglabila*





	L"			L			
601544	8	1"	34	200	375	D	55,09
601545	10	1.1/2"	49	250	760	D	78,14
618893	12	1.3/4"	55	300	1100	D	84,61
601546	14	2"	60	350	1520	D	91,08
601547	18	2.1/2"	76	450	2360	D	126,98
601548	24	3"	89	600	3700	D	201,61
601549	36	5"	140	900	7800	D	515,50
618894	48	6"	165	1200	11200	D	603,86

492.1/7

Set parti componente pentru 492 si 490

- *parti componente pentru clesti Stilson*



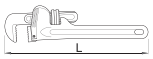
602340	8	151	E	41,36
602332	10	286	E	61,69
620064	12	418	E	67,32
602691	14	532	E	72,60
602695	18	856	E	92,09
602699	24	1204	E	157,87
602703	36	2260	E	282,44
620065	48	4025	E	350,24

492AL

Cleste industrial pentru tevi din aluminiu

- *material: maner din aliaj de Aluminiu, foarte reziztent*
- *falci tratate, dintii tratati suplimentar prin inductie*
- *falci intershimbabile, fosfatate*
- *falci si suruburi ca parti de schimb pentru art.492, 490 si 492L*
- *falca superioara reglabila*





	L"			L			
602719	14	2"	49	330	960	D	147,00
602720	18	2.1/2"	67	410	1560	D	216,88
602721	24	3"	76	555	2450	D	293,57
602722	36	5"	100	790	4600	D	594,09



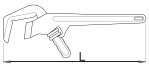
493/6

Cleste pentru instalatii sanitare

- *maner din aliaj special, durabilitate inalta*
- *falci tratate*
- *falci interschimbabile*
- *maner vopsit*
- *falca si surub ca elemente de schimb*
- *partea plata si cea reglabila asigura o strangere precisa a piulitei fitinguluisi le protejeaza, asigurand securitatea operatiilor*







			L			
601550	1.1/2"	65	270	735	D	**135,08**

493.1/7

Set de piese de schimb pentru 493

- *falca + surub*



602344	260	E	**83,38**

494/6

Cleste reglabil pentru tevi

- *manerul forjat din otel special*
- *falcile confectionate din otel special aliat*
- *dintii ascutiti*
- *suprafata de lucru tratata prin inductie*
- *vopsite*
- *strangerea, rotirea sau ancorarea suruburilor,piulitelor si flanselor*



	L"			L			
619786	8	3/4"	27	200	280	D	**54,30**
619787	10	1"	35	250	580	D	**73,17**
619788	12	1.1/4"	43	300	780	D	**83,42**
619789	14	1.1/2"	50	350	1050	D	**89,80**
619790	18	2"	60	450	1808	D	**125,18**
619791	24	2.1/2"	76	600	3250	D	**198,75**
619792	36	3.1/2"	100	900	6300	D	**508,20**



494.1/7

Set piese de rezerva pentru 494/6



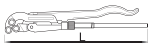
	L"	L			
620592	8	200	100	E	**17,51**
620593	10	250	215	E	**23,28**
620594	12	300	302	E	**27,72**
620595	14	350	389	E	**32,21**
620596	18	450	577	E	**42,02**
620597	24	600	1131	E	**66,00**
620598	36	900	1988	E	**108,24**

486/6

Cleste de randalinat

- *material: crom vanadiu*
- *tratat complet*
- *role din otel special de scule, tratate termic*
- *vopsit rosu*
- *folosit pentru nervurați ale suprafețelor exterioare ale țevilor de pana la 2"*
- *strangerea falcilor cu material nervurat fara patinare*

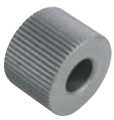




602773	2"	60	430	1800	D	163,11

486.1/7

Role de schimb pentru 486/6,3 piese pe set



602346	86	E	83,03

486.2/7

Surub de schimb pentru 486



616486	41	E	30,49



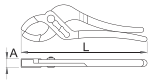


487/2P

Cleste pentru sifon de scurgere

- *material: crom vanadiu*
- *tratat complet*
- *finisare: cromat in conformitate cu standardul EN12540*
- *falci suplimentare de plastic pentru lucrul cu materiale moi*





612869	235	18 - 67	14.5	315	E	102,87

487.1

Falca de plastic pentru 487/2P



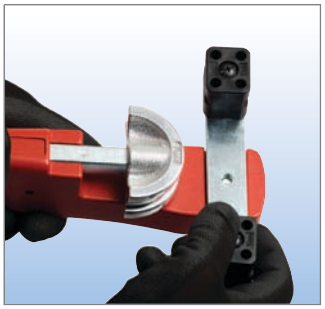
619882	2	12	E	7,61

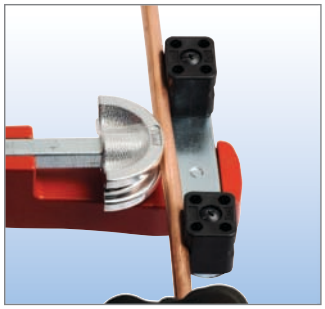
352/6PB

Set de indoit tevi

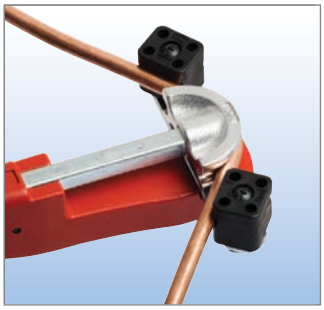
- *pentru indoirea tevilor de cupru, alama, aluminiu si tevi din otel cu pereti*
- *sudati pana la 90 grade*
- *Dimensiunea cutiei : 393 x 331 x 95*











№				
621533	352/6PB	10 - 22 / 11	4060	1.081,74

352.1/6, **352.2** (10, 12, 14, 15, 16, 18, 20, 22),
352.3 (10, 12 - 22)

352.1/6

Cleste de indoit

- *carcasa din aliaj special de mare durabilitate*
- *mecanism de indoire in trepte*
- *sistem de eliberare rapida*



621534	1140	E	367,84

352.2

Adaptor pentru indoit



	maxi			
621535	10	73	E	25,61
621536	12	97	E	28,51
621537	14	139	E	31,42
621538	15	134	E	31,42
621539	16	128	E	31,42
621540	18	241	E	39,25
621541	20	219	E	39,25
621542	22	272	E	45,67
621543	3/8"	72	E	25,61
621544	1/2"	93	E	28,51
621545	5/8"	128	E	39,25
621546	3/4"	229	E	39,25
621547	7/8"	271	E	45,67

352.3

Scula de indoit



621548	12 - 22	450	E	117,35
621549	10	251	E	78,45



355/6

Scula de evazat tevi

- *corpul forjat din otel de scule, vopsit*
- *corpul forjat din otel de scule, partea de evazare din otel de scule, falcile de strangere din otel de scule*
- *falci nichelate, protectie anticoroziva*
- *pentru realizarea diferitelor adaptari ale tevilor de cupru.Este posibila evazarea la 45 sau 90&.*
- *pentru 90&. Prima utilizare 45&.*
- *cod 601100 pentru evazarea tevilor de 4.75, 5, 6, 8, 10, 12, 14*
- *cod 601100 pentru evazarea tevilor de 10,12,14,16,18,20,22*
- *cod 601100 pentru evazarea tevilor de 3/16",1/4",5/16",3/8",7/16",1/2",5/8"*





601100	1100	F	**333,04**
618465	1605	F	**325,78**
620112	1105	F	**333,04**

358/6

Dispozitiv de taiat teava

- *material: aliaj de aluminiu*
- *pentru cupru, alama, aluminiu si tevi din otel cu pereti sudati*
- *model nou-pentru tevi cu raze mici*
- *piese de schimb: role de taiere si rola port cutit*





601101	3 - 16	36.5	20.5	18	50	115	E	**69,87**

358.1/7

Role de taiere pentru 358



601102	11	E	**11,22**

358.2/5

Role de schimb pentru 358



601103	9	E	**13,07**

360/6

Dispozitiv de taiat teava

- *role de taiere si bucsi din otel special, tratate termic*
- *Carcasa vopsita*
- *maner de schimb*
- *parti ce se pot inlocui: role de taiere si role port cutit*





601104	3 - 32	55	19	28	135	340	E	**230,25**
602080	6 - 67	94	18	38	287	1020	E	**386,10**

360.1/7

Role taietoare de schimb pentru 360



601105	3 - 32	9	E	**13,42**
621249	6 - 67	11	E	**14,70**

360.2/5

Role de schimb pentru 360



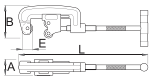
601106	3 - 32	24	E	**18,61**
616498	6 - 67	100	E	**19,67**

361/6

Dispozitiv de taiat teava

- *carcasa vopsita*
- *role tratate in ulei*





		B	A	E	L			
601108	1/8" - 2"	106.5	48.5	32	455	2156	C	**404,71**
602592	1.1/4" - 4"	162	53	42	640	5008	C	**691,99**

361.1/7

Role taiere de schimb pentru 361



601109	1/8" - 2"	35	E	**52,80**
602683	1.1/4" - 4"	58	E	**54,25**

361.2/7

Role de schimb pentru 361



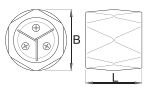
601111	1/8" - 2"	85	E	**49,50**
603393	1.1/4" - 4"	111	E	**49,50**

363

Dispozitiv pentru debavurat interior-exterior

- *eliminarea arderilor la interiorul sau exteriorul partilor evazate ale*
- *tevilor*
- *corp de plastic*
- *lamele de taiere din otel carbon special, tratat*





		B	L			
601112	4 - 36	50	46	68	E	**54,47**

370

Trusa de cleste de taiat tevi si de bercuit

- *Dimensiunea cutiei: 307 x 260 x 70*



	№				
601099	**370**	3	1980	F	**751,92**

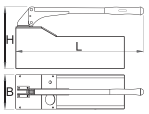
355/6, **360/6** (3 - 32), **363** (4 - 36)

375/6

Pompa de testare

- *este utilizata pentru testarea presiunii si scurgerilor de apa in instalatii-*
- *le de incalzire ce lucreaza sub presiune*
- *capacitatea maxima - 12 litri*
- *confectionata din material anticoroziv*





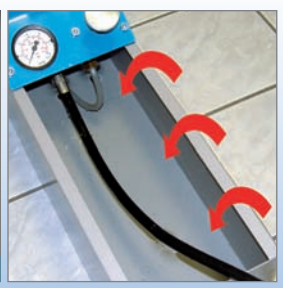
	L	B	H			
602600	605	160	286.5	8800	G	**1.732,46**



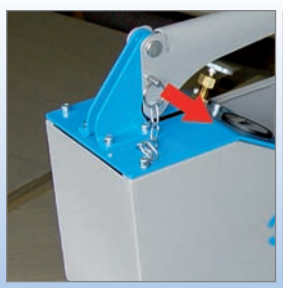
375/6 UTILIZARE



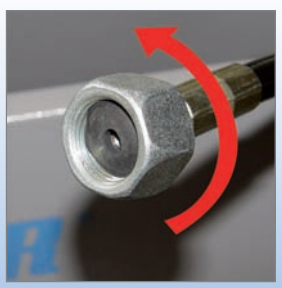
inchideti valva



turnati apa



scoateti boltul de blocare



conectati racordul exterior



incepeti pomparea

484/6

Clesti cu lant

- *material: otel carbon*
- *falci forjate*
- *falci cu nervuri cu dantura tratata prin inductie*
- *falca rotitoare*
- *maner vopsit, celelalte parti tratate anti-coroziune*



601530	4	160	760	6735	C	**742,59**
601531	6	200	915	9238	C	**1.150,29**
601532	8	300	1130	13000	C	**1.672,26**
601533	12	400	1250	18000	C	**2.153,62**

484.1/7

Lant pentru 484



602707	4	626	1435	F	**520,08**
602710	6	829	1975	F	**603,24**
602713	8	1038	2500	F	**954,98**
602716	12	1414	3000	F	**1.448,00**

484.2/7

Falca pentru 484



602708	4	775	F	**445,59**
602711	6	2160	F	**467,81**
602714	8	3625	F	**582,78**
602717	12	5161	F	**675,75**

484.3/7

Surub de schimb pentru 484



602709	4	124	E	**30,49**
602712	6	129	E	**40,00**
602715	8	198	E	**49,98**
602718	12	300	E	**73,92**



726/6

Menghina pentru tevi

- *carcasa din aliaj special de mare durabilitate*
- *bacuri forjate din otel, calite si revenite*
- *carcasa vopsita,bacuri protejate anti-coroziune, celelalte parti zincate*
- *poate fi montata pe trepiedul nostru portabil*



619613	1/8" - 2"	70	4570	F	**622,56**
619614	1/8" - 3"	100	6400	F	**706,95**

741/6

Trepied

- *proiectata pentru o maxima stabilitate*



607347	1000	19600	F	**1.299,23**

Foarfeci

O procedura speciala pentru fabricarea foarfecilor

FALCA - STANGA DREAPTA

1. **Debavurarea:** otelul platbanda se taie in forma corecta intrebuintand o presa de debitat; exactitatea taierii asigura consumul minim de material de calitate.

2. **Forjarea:** forjarea pieselor se realizeaza prin folosirea tehnologiei pentru forjare la cald in matrita. Forjarea la cald permite obtinerea unor forme diverse ale produselor. Cu ajutorul proceselor corespunzatoare de forjare se mentine cursul adecvat al fibrelor, care este deja prezent in spatiile libere laminate. .

3. **Debitarea:** inlaturarea materialului de prisos.

4. **Prelucrare:** prin gaurire/ stantare se poate realiza precizia necesara pozitionarii fiecarei falci.

5. **Tratament termic (calire si revenire):** tratamentul termic cu calire si revenire este destinat imbunatatirii structurii de otel pentru a conferi o mai mare duritate si tenacitate produsului, precum si celelalte calitati necesare pentru depasirea incarcarii datorate muncii cu un astfel de produs.

6. **Calire prin inductie:** incalzirea locala CIF si calirea falcii asigura un grad ridicat de duritate pe partea functionala a foarfecei. Prin durificare putem realiza microstructura optima si duritatea necesara durabilitatii foarfecii.

7. **Rectificarea falcii:** rectificarea se realizeaza cu ajutorul unei masini speciale cu comanda numerica CNC, care se intrebuinteaza pentru realizarea unor unghiuri corecte, optime ale lamei foarfecei si datorita acestui fapt se obtin taieri corespunzatoare a foarfecelor Unior.

MANER

8. Tabla de metal care serveste ca baza, este confectionata din taba de calitate, care asigura duritatea si rigiditatea manerului chiar si la sarcini maxime.

9. **Indoirea manerelor:** forma dorita a manerelor se obtine prin indoirea manerului utilizand o masina speciala, prevazuta cu o scula pentru indoire, care asigura o legatura adecvata intre falci si manere.

10. **Nichelare:** nichelarea pentru protectia suprafetei confera produsului un aspect profesional si rezistenta la coroziune.

ASAMBLARE

11. **Ansamblare manuala:** manerele sunt asamblare impreuna prin nituire obtinandu-se o conexiune corespunzatoare, flexibila

12. **Asamblarea falcilor:** falca din stanga si din dreapta sunt imbinate impreuna cu ajutorul unui surub, realizandu-se o legatura adecvata, flexibila si neteda.

13. **Asamblarea falcii si a manerului:** ambele falci, impreuna cu manerele sunt legate intr-o conexiune ferma, care ii asigura foarfecei Unior functionarea dorita chiar si in cazul celor mai grele sarcini.

14. **Asamblarea finala:** muncitorii instruiti, calificati si meticulosi, executa montajul final, asambleaza elementele individuale, verifica caracteristicile de baza si fac din foarfecele Unior un produs de inalta calitate.











Tăiere sigură

Proiectate pentru o tăiere sigură și precisă a tablei de oţel, oţel armat, cabluri și ţevi PVC, utilizabilă și pentru tăierea de crengi și tunderea viţei de vie pentru lucrul în livezi și vii, linia variată de foarfeci Unior își demonstrează avantajele pentru o largă gamă de utilizatori profesioniști și casnici.

Oţel de înaltă calitate

Realizate din oţel carbon de înaltă calitate, foarfecele Unior au cleștii forjaţi în matriţă, lame întărite prin inducţie și mânere izolate solid, dispunând și de o suprafaţă de protecţie eficientă.

Lame călite

Cu lamele perfect călite puteţi face acestea fără efort și cu rezultate maxime!


Foarfeca de tabla - linia Plus 175


Foarfeca de tabla - linia Universal 176


Foarfeca de tabla - cu arc 176 - 177


Foarfeca de tabla 177 - 178


Foarfeca de tabla prin stantare, foarfeca dreapta pentru tabla si foarfeca oblica pentru tabla 178


Cleste pentru taiat otel, foarfeca pentru tevi PVC; foarfeca pentru cablu 178 - 180


Foarfeca pentru taiat cabluri si tije filetate 180 - 181


Clesti de buloane - linia Plus 182


Clesti de buloane - Universal 183 - 184


Foarfeca de vie 184 - 185



O procedura speciala pentru fabricarea clestilor de buloane

FALCA

1. **Debavurarea:**
   otelul platbanda se taie in forma corecta intrebuintand o presa de debitat; exactitatea taierii asigura consumul minim de material de calitate.



2. **Forjarea**:
   forjarea pieselor se realizeaza prin folosirea tehnologiei pentru forjare la cald in matrita. Forjarea la cald permite obtinerea unor forme diverse ale produselor. Cu ajutorul proceselor corespunzatoare de forjare se mentine cursul adecvat al fibrelor, care este deja prezent in spatiile libere laminate.



3. **Debitare:**
   inlaturarea materialului de prisos.



4. **Tratament termic (calire si revenire):**
   tratamentul termic cu calire si revenire este destinat imbunatatirii structurii de otel pentru a conferi o mai mare duritate si tenacitate produsului, precum si celelalte calitati necesare pentru depasirea incarcarii datorate muncii cu un astfel de produs.



ARTICULATII

5. **Forjarea**
   (forjarea se executa la cald in matrita - debitare, forjare, debavurare si calibrare)



6. **Munca pe masina cu comanda numerica CNC:**
   intreaga prelucrare a falcii se realizeaza utilizand masini cu comanda numerica CNC. Dispozitivele de prindere ale masinii asigura acuratetea necesara unei functii de forfecare de calitate.



7. **Tratament termic (calire si revenire):**
   tratamentul termic cu calire si revenire este destinat imbunatatirii structurii de otel pentru a conferi o mai mare duritate si tenacitate produsului, precum si celelalte calitati necesare pentru depasirea incarcarii datorate muncii cu un astfel de produs.



MONTAREA MANERULUI

8. **Se monteaza manerul pe articulatie si se preseaza**
   manerul se preseaza in articulatie, ceea ce asigura faptul ca manerul nu se va desprinde la sarcini mari.

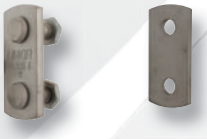


9. **Indoirea manerului:**
   manerul este indoit la unghiul functional solicitat cu ajutorul unui dispozitiv special de indoire, care asigura utilizatorului o aplicabilitate ergonomica.



10. **Acoperire:**
    se aplica o culoare a suprafetei cu ajutorul tehnologiei de vopsire cu pulbere, ceea ce confera produsului un aspect profesional si serveste de asemenea si ca protectie a suprafetei.

11. **Montarea mansonului:**
    un manson PVC este montat pe maner, ceea ce confera utilizatorului o buna aderenta la utilizare si ajuta in timpul utilizarii uneltei.



12. **Fabricarea suruburilor si a piulitelor:**
    se face intrebuintand masini cu comanda numerica CNC, care in afara de materialul de calitate si a tratamentului termic, asigura legaturi optime intre elementele individuale ale foarfecei.

13. **Asamblare finala:**
    muncitorii instruiti, calificati si meticulosi care executa asamblarea finala, monteaza piesele individuale, verifica caracteristicile principale si fac din foarfeca Unior un produs de calitate.



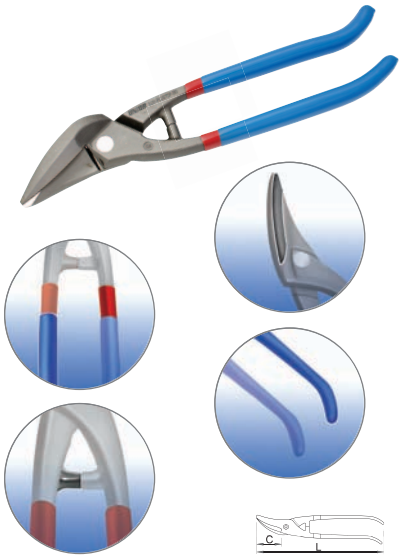
563R-PLUS/7DP

Foarfeci de tabla universale

- *material: otel carbon de scule*
- *forjata*
- *model cu tais placat pentru taierea otelului*
- *lamele tratate prin inductie la min. 64 HRC.*
- *manere de plastic*

Avantaje:

- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *durabilitate de 10 ori mai mare*
- *diverse utilizari*
- *durata de viata indelungata*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *Lame inserate pentru o durata indelungata de*
- *exploatare*
- *pentru taierea de tabla sablata de 400N/mm² grosime pana la 1,5mm*



	L	C			
615039	280	51	582	B	229,86

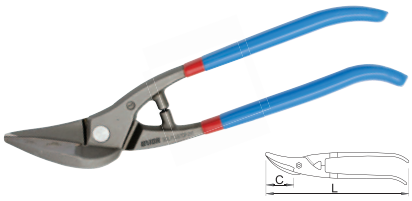
563L-PLUS/7DP

Foarfeci de tabla universale

- *material: otel carbon de scule*
- *forjata*
- *model cu tais placat pentru taierea otelului*
- *manere de plastic*
- *lamele tratate prin inductie la min. 64 HRC.*

Avantaje:

- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *durabilitate de 10 ori mai mare*
- *diverse utilizari*
- *durata de viata indelungata*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *Lame inserate pentru o durata indelungata de*
- *exploatare*
- *pentru taierea de tabla sablata de 400N/mm² grosime pana la 1,5mm*



	L	C			
615040	280	51	577	B	229,86

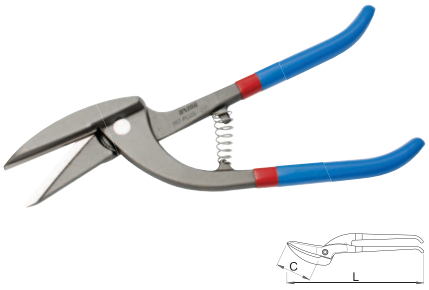
567R-PLUS/7DP

Foarfeca de tabla pelican

- *material: otel carbon de scule*
- *forjata*
- *model cu tais placat pentru taierea otelului*
- *lamele tratate prin inductie la min. 64 HRC.*
- *manere de plastic*
- *arc de redeschidere*

Avantaje:

- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *durabilitate de 10 ori mai mare*
- *diverse utilizari*
- *durata de viata indelungata*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *Lame inserate pentru o durata indelungata de*
- *exploatare*
- *pentru taierea de tabla sablata de 400N/mm² grosime pana la 1,5mm*



	L	C			
615036	290	56	677	B	236,59

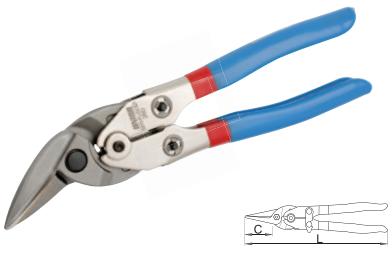
591R-PLUS/3DP

Foarfeca articulata de tabla pelican

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *arc de redeschidere*
- *model cu tais placat pentru taierea otelului*
- *lamele tratate prin inductie la min. 64 HRC.*
- *manere de plastic*

Avantaje:

- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *durabilitate de 10 ori mai mare*
- *diverse utilizari*
- *durata de viata indelungata*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *Lame inserate pentru o durata indelungata de*
- *exploatare*
- *pentru taierea de tabla sablata de 400N/mm² grosime pana la 1,2mm*



	L	C			
615043	260	37	532	B	332,20

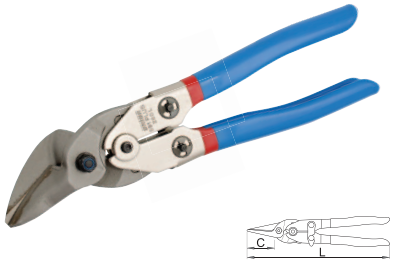
591L-PLUS/3DP

Foarfeca articulata de tabla pelican

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *arc de redeschidere*
- *model cu tais placat pentru taierea otelului*
- *lamele tratate prin inductie la min. 64 HRC.*
- *manere de plastic*

Avantaje:

- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *durabilitate de 10 ori mai mare*
- *diverse utilizari*
- *durata de viata indelungata*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *Lame inserate pentru o durata indelungata de*
- *exploatare*
- *pentru taierea de tabla sablata de 400N/mm² grosime pana la 1,2mm*



	L	C			
615044	260	37	532	B	332,20

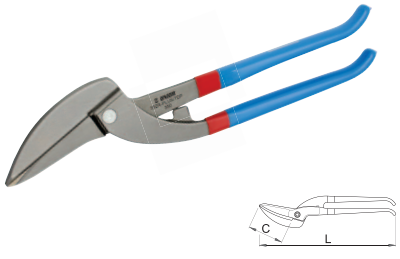
592R-PLUS/7DP

Foarfeca de tabla pelican

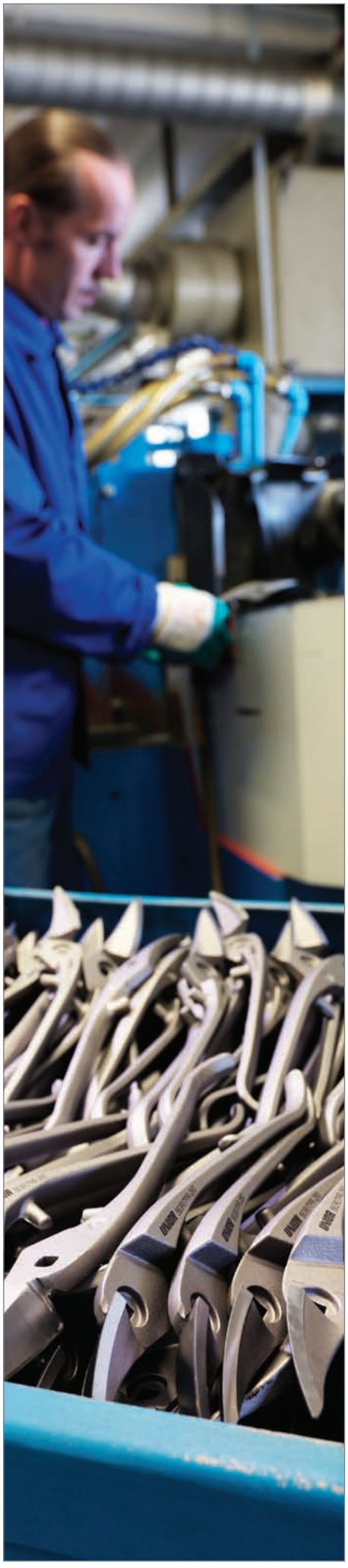
- *material: otel carbon de scule*
- *forjata*
- *model cu tais placat pentru taierea otelului*
- *lamele tratate prin inductie la min. 64 HRC.*
- *manere de plastic*

Avantaje:

- *lame inserate, duritatea 64 HRC*
- *lame inserate extrem de puternice*
- *mai rapid si mai confortabil in exploatare*
- *durabilitate de 10 ori mai mare*
- *diverse utilizari*
- *durata de viata indelungata*
- *manere cu design ergonomic pentru o rapida si usoara utilizare*
- *Lame inserate pentru o durata indelungata de*
- *exploatare*
- *pentru taierea de tabla sablata de 400N/mm² grosime pana la 1,5mm*



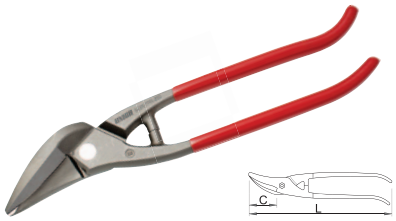
	L	C			
613196	350	90	880	E	369,73



563R/7PR

Foarfeci de tabla universale

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *protectie anticoroziva*
- *manere de plastic*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,2mm*

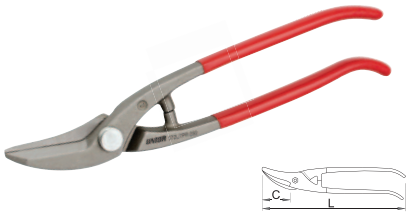


	L	C			
615037	280	51	567	B	95,70

572L/7PR

Foarfeci de fasonat tabla

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *protectie anticoroziva*
- *manere de plastic*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,2mm*

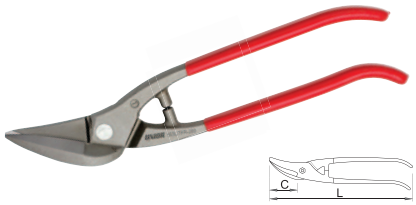


	L	C			
615042	280	50	502	B	90,11

563L/7PR

Foarfeci de tabla universale

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *protectie anticoroziva*
- *manere de plastic*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,2mm*

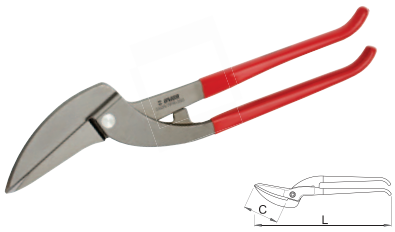


	L	C			
615038	280	51	567	B	95,70

592R/7PR

Foarfeca de tabla pelican

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *protectie anticoroziva*
- *manere de plastic*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,2mm*

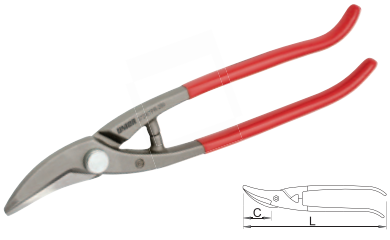


	L	C			
615035	350	90	880	E	117,74

572R/7PR

Foarfeci de fasonat tabla

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *protectie anticoroziva*
- *manere de plastic*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,2mm*

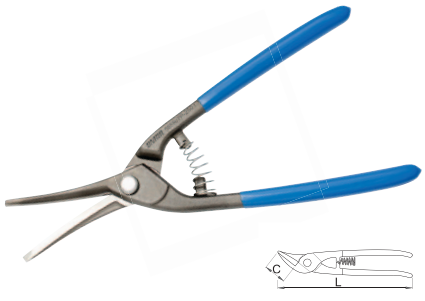


	L	C			
615041	280	50	446	B	90,11

565R/7P

Foarfeca universala de tabla

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*
- *arc de redeschidere*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,0mm*



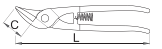
	L	C			
609332	250	70	420	B	88,13

566R/7P

Foarfeci de tabla

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*
- *arc de redeschidere*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,25mm*





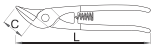
	L	C			
609333	250	40	467	B	**106,26**

568R/7P

Foarfeci de tabla tip "ideal"

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*
- *arc de redeschidere*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,2mm*





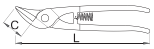
	L	C			
609336	250	35	532	B	**101,20**

569R/7P

Foarfeci de tabla tip "berlina"

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*
- *arc de redeschidere*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,25mm*





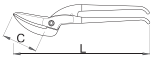
	L	C			
609334	250	55	452	B	**102,17**

567R/7P

Foarfeci de tabla tip "pelican"

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*
- *arc de redeschidere*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,2mm*





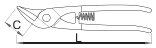
	L	C			
609335	290	56	672	B	**116,16**

568L/7P

Foarfeci de tabla tip "ideal"

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *tratat complet*
- *cap vopsit*
- *protectie anticoroziva*
- *manere de plastic*
- *arc de redeschidere*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,2mm*





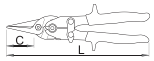
	L	C			
610945	250	35	532	B	**101,20**

561R/3G

Foarfeci de tabla tip "ideal"

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *tratament termic complet*
- *lamele tratate prin inductie la max 57 HRC, pentru*
- *art.562 duritatea 52 HRC*
- *arc de redeschidere*
- *manere nichelate, manere din plastic rezistent la conditii grele*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,0mm*





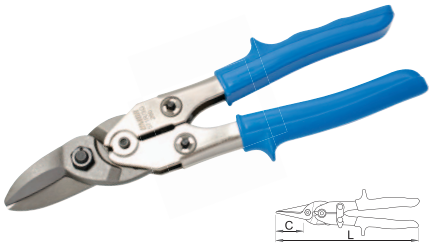
	L	C			
608771	260	47.5	487	B	**106,57**



571R/3G

Foarfeci de tabla

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *lamele tratate prin inductie la max 57 HRC,*
- *pentru art.562 duritatea 52 HRC*
- *arc de redeschidere*
- *manere nichelate, manere din plastic rezistent la conditii grele*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,25mm*

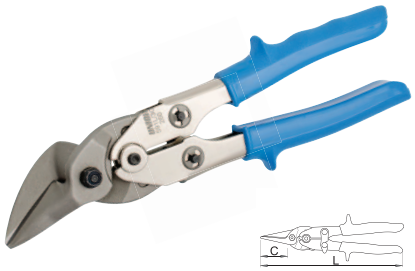


	L	C			
608773	260	40	497	B	108,46

591L/3G

Foarfeci de tabla tip "pelican"

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *lamele tratate prin inductie la max 57 HRC,*
- *pentru art.562 duritatea 52 HRC*
- *arc de redeschidere*
- *manere nichelate, manere din plastic rezistent la conditii grele*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,25mm*



	L	C			
608776	260	37	547	B	114,00

573/7P

Foarfeci de tabla drepte

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *manere de plastic*



	L	C			
615158	175	40	265	B	52,40
615159	200	40	318	B	54,78
615160	250	51	497	B	61,69
615161	300	70	627	B	83,86
615162	350	76	802	B	106,00

571L/3G

Foarfeci de tabla

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *lamele tratate prin inductie la max 57 HRC,*
- *pentru art.562 duritatea 52 HRC*
- *arc de redeschidere*
- *manere nichelate, manere din plastic rezistent la conditii grele*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,25mm*

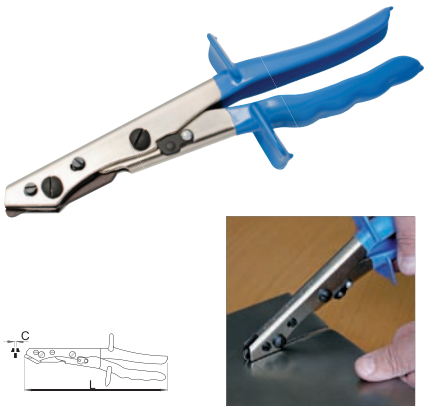


	L	C			
608774	260	40	497	B	108,46

562/3P

Foarfeca de tabla prin stantare

- *manere din tabla*
- *cutit central zimtat*
- *protectie anti-alunecare pe maner*
- *blocare pentru prevenirea deschiderii accidentale*
- *arc de armare pentru revenire*
- *finisare: nichelare*
- *Lama tratata prin inductie la cca 52 HRC*

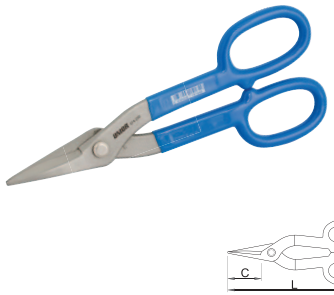


	L	B			
608772	250	3.3	462	B	139,17

574/7P

Foarfeci de tabla oblice

- *material: otel carbon de scule*
- *forjata*
- *taisul tratat prin indusctie la cca 62 HRC*
- *manere de plastic*

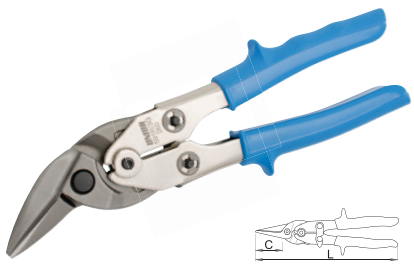


		L	C			
615163		175	40	222	B	53,55
615164		250	51	447	B	62,83
615165		325	72	677	B	97,81

591R/3G

Foarfeci de tabla tip "pelican"

- *material: falci forjate din otel cabon*
- *manere din tabla*
- *lamele tratate prin inductie la max 57 HRC,*
- *pentru art.562 duritatea 52 HRC*
- *arc de redeschidere*
- *manere nichelate, manere din plastic rezistent la conditii grele*
- *pentru taierea de tabla de 400N/mm² grosime pana la 1,25mm*



	L	C			
608775	260	37	547	B	114,00

562.1/9

Parte de schimb pentru 562



	L			
601569	250	23	E	37,80

582/3P

Foarfeca de electrician

- *material: otel carbon de scule*
- *forjata*
- *partile taietoare tratate prin inductie*
- *acoperire nichelare*
- *manere de plastic*



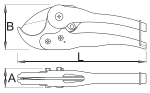
	L	C			
601127	150	52	81	B	67,54

583/6

Foarfeca pentru PVC

- *material cutit- otel inox molibden, manere - aliaj de aluminiu*
- *destinat pentru taierea tevilor din PVC (dim.195 pana la 1" si dim. 210 pana la 1,5" grosime)*
- *se asigura un unghi corect de taiere*
- *clichet de actionare la taiere*





	L				
605418	195	1	295	E	**208,56**
609405	210	1.5	385	E	**258,06**

583.1/7

Cutite de schimb pentru 583



		L			
605419	1"	195	64	E	**112,60**
609406	1.5"	215	67	E	**132,62**





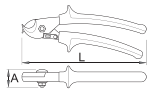
580/1BI

Foarfeca de cabluri

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *cap polizat*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *pentru taierea cablurilor fara inima de otel*







	L	A	ØT			
609238	170	22	10	339	B	**124,65**
609239	230	22	17	444	B	**142,30**

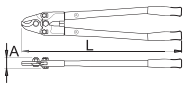
585/6

Foarfeci de cabluri

- *material: cutite-otel special, forjat, tratate*
- *falci interschimbabile*
- *partea de taiere tratata prin inductie*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*
- *pentru taierea cablurilor fara inima de otel sau invelis metalic*







	L	A	maxi			
615226	550	38	23	2080	D	**341,88**
616732	800	42	39	3660	D	**357,10**

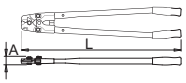
585/6P

Foarfeci pentru cabluri de otel

- *material: cutite-otel special, forjat, tratate*
- *falci interschimbabile*
- *partea de taiere tratata prin inductie*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*







	L	A	maxi			
617672	760	36	8	3475	D	**482,20**

585.1/7

Falci de schimb pentru art 585



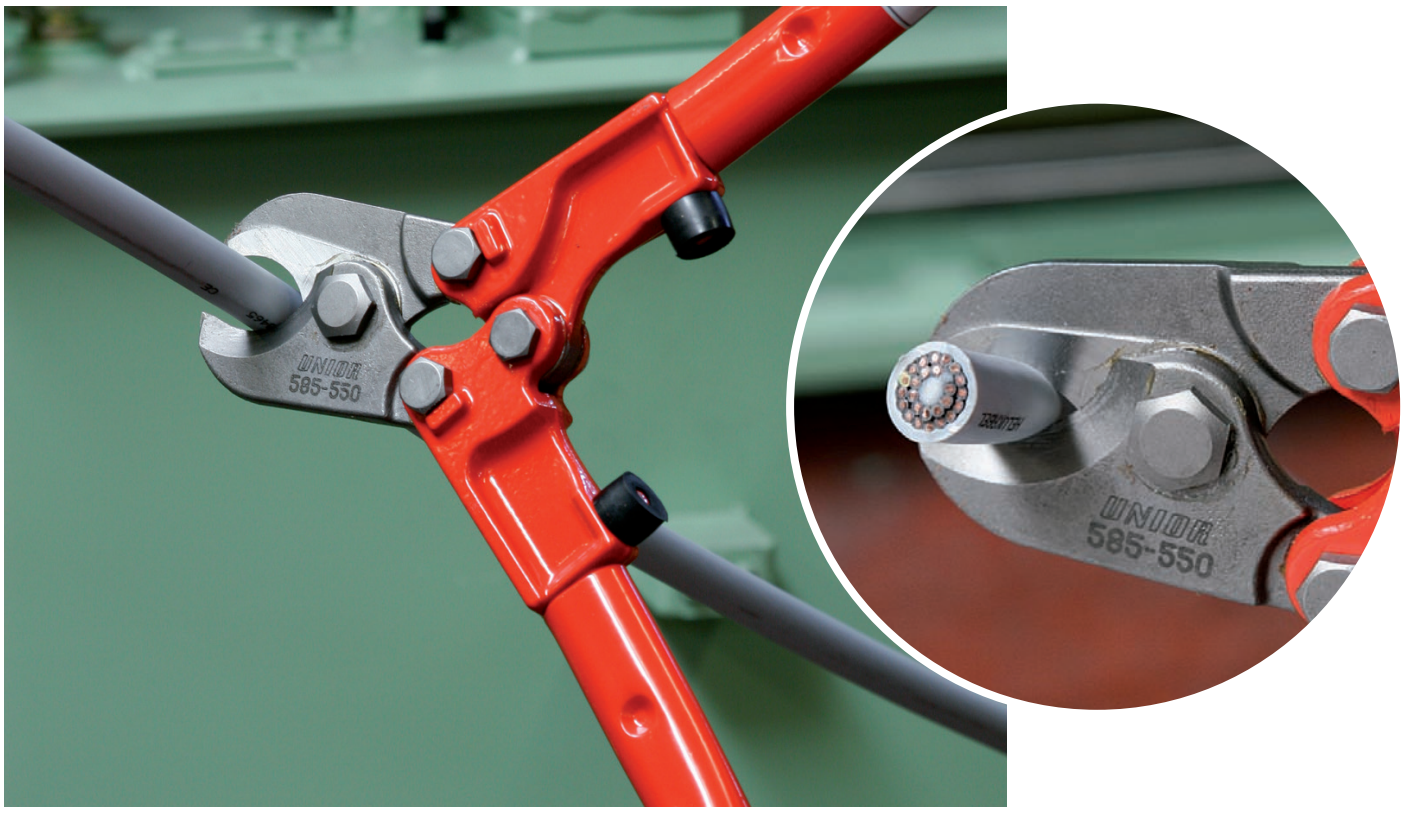
618620	550	354	E	**127,51**
618621	800	810	E	**165,00**

585.1/7P

Falci de schimb pentru art. 585 P



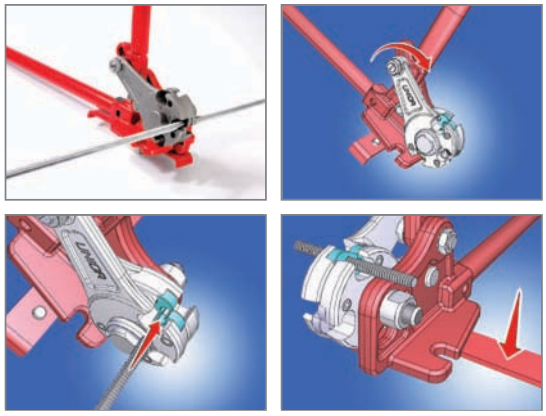
618622	765	643	E	**317,06**



586/6

Dispozitiv pentru taiere tije filetate

- *executat din otel special forjat, prevazut cu cutite interschimbabile ce permite taierea usoara chiar si a barelor filetate pana la clasa 8,8*
- *cutitele de taiere sunt tratate termic pentru cresterea rezistentei acestora*
- *manerul a fost realizat la o lungime care sa permita o taiere rapida si uniforma. In acelasi timp o forta de taiere mai mica este necesara pentru taierea barelor filetate.*
- *Manerul este confectionat din teava vopsita in camp electrostatic si manere de plastic pentru o prindere ferma si usoara*



Avantaje:

- *capabilitate de taiere a tri dimensiuni diferite de bare filetate*
- *taiere curata - fara arsuri pe suprafata filetului*
- *protectia filetului*
- *protectie anticoroziva*
- *usor de folosit si manuire usoara*
- *taiere precisa si rapida a filetelor*
- *deschidere usoara a cutitelor*
- *pentru o taiere corecta, cutitele trebuiesc deschise prin ridicarea la maxim a manerului.In momentul deschiderii maxime introduceti bara filetata intre bacuri pentru dimensiunea barei.*

Taierea filetului

- *1.I ntroduceti bara filetata intre bacuri pentru dimensiunea corespunzatoare dimensiunii barei filetate.*
- *2. Bara filetata trebuie fixata ferm intre bacuri*

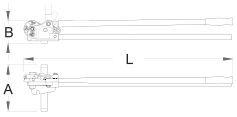
Important de retinut cand taiati

- *1. Cand lucrati pe pardoseala aplicati presiune cu picorul pe brat*
- *2. Dispozitivul este destinat taierii numai tije filetate M8,M10,M12*
- *3. Dispozitivul nu estedestinat taierii barelor filetate calite si a bolturilor*
- *4. Cand taierea este incorecta inlocuiti intotdeuna bacurile de taiere cu unele noi*
- *posibilitate de inlocuire a bacurilor uzate*
- *material bacuri otel special de scule*
- *taie tije filetate de M8,M10,M12*
- *taiere curata fara arderi*
- *protectie a filetelor*
- *mod de operare simplu*

atentionari!

- *inainte de lucru cititi cu atentie instructiunile*
- *cand lucrati folositi intotdeauna ochelari de protectie*
- *tratat complet*





				L	B	A			
620256	M 8	M 10	M 12	945	95	210	5750	D	**894,78**
621479	M 6	M 8	M 10	945	95	210	5100	D	**894,78**

586.1/7

Falca pentru 586/6



621480	M6	31	E	**48,09**
620653	M8	32	E	**48,09**
620654	M10	36	E	**50,91**
620655	M12	38	E	**53,24**



586.2/4

Set de 6 suruburi pentru 586.1/7



622705	31	E	**12,01**

596PLUS/6G

Clesti de buloane cu cutite triunghiulare ascutite interschimbabile

- *material:cutite-otel special, forjat, tratate*
- *falci interschimbabile cu reglare in trei pozitii*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*

Avantaje:

- *strangere extrema si greutate minima*
- *rezistenta importanta la forte maxime generata in timpul taierii.*
- *rezistenta completa anticoroziune*
- *ghidare simpla si manuire buna*
- *absorbant de soc pentru prevenirea incidentelor*
- *lama triunghiulara-durata de viata de 3 ori mai mare*
- *procedeul pentru ajustarea falcii taietoare*

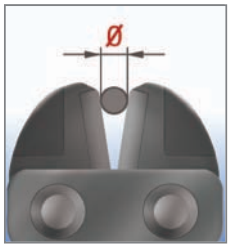
Cum se regleaza partea taietoare?

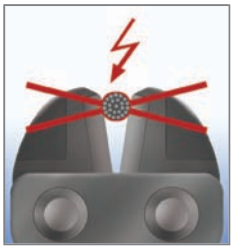
- *Deblocati piulita de siguranta.*
- *Scoateti surubul din locas si rotiti-l pana nu mai exista spatiu intre partile taietoare.*
- *Asigurati piulita.*



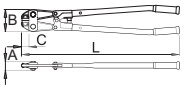












	L	A	B	C			
615256	750	43	96	46	4060	D	**577,28**
615257	900	47	109	50	6300	D	**779,37**

capacitatea de taiere (10N=1kg)

	L	(max 1600 N/mm²) T Ø	(max 650 N/mm²) T Ø
615256	750	8	13
615257	900	9	16

596.1PLUS/7

Falci de schimb pentru 596PLUS/6G

- *falca+suruburi+2 piulite*



615258	750	1468	E	**317,50**
615259	900	1956	E	**428,65**

596.2PLUS/7

Cutite de schimb pentru 596PLUS/6G

- *Elemente de schimb incluzand: 2 cutite, 4saibe plate, 4 suruburi, 4 piulite*



615260	750	116	E	**108,24**
615261	900	126	E	**146,12**

596.3PLUS/7

Cutit de schimb pentru 596 PLUS/6G

- *parti de schimb incluzand 1 cutit de taiere*



616521	750	22	E	**50,64**
616522	900	28	E	**66,97**

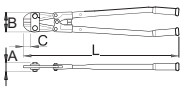
596/6A

Cleste de buloane

- *material: cutite-otel special, forjat, tratate*
- *partea de taiere tratata prin inductie*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*
- *protectia suruburilor excentrice pentru reglarea lamelor prin loca-*
- *suruburi forjate asigura protectia 100% impotriva desurubarii*
- *Sistemul de absortie socuri din articulatie asigura absortia socuri-lor in manere, aceasta la taierea fierului beton.*







	L	A	B	C			
610963	300	26	40	16	737	D	**142,47**
610964	350	26	55	24	805	D	**160,03**
610965	450	34	70	36	1500	D	**252,56**
610966	600	38	84	40	2600	D	**330,18**
610967	750	43	96	46	3950	D	**432,83**
610968	900	47	109	50	6300	D	**586,96**
612984	1050	48	120	46	6900	D	**674,96**

capacitatea de taiere (10N=1kg)

	L	(max 1600 N/mm²) T Ø	(max 650 N/mm²) T Ø
610963	300	3	5
610964	350	3,5	5
610965	450	5	8
610966	600	7	10
610967	750	8	13
610968	900	9	16
612984	1050	10	19

596.1/7A

Elemente de shimb pentru 595/6A

- *falca+suruburi+2 piulite*



610969	300	265	E	**90,33**
610970	350	265	E	**96,23**
610971	450	547	E	**146,34**
610972	600	877	E	**200,38**
610973	750	1391	E	**225,02**
610974	900	1887	E	**330,00**
613078	1050	2144	E	**379,46**



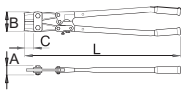
595/6A

Cleste de buloane

- *material: cutite-otel special, forjat, tratate*
- *falci ascutite pe amdele fete, interschimbabile si reglabile*
- *partea de taiere tratata prin inductie*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*







	L	A	B	C			
612127	750	43	95	38	4035	D	**504,86**
612128	900	43	108	45	6200	D	**689,44**

capacitatea de taiere (10N=1kg)

	L	(max 1600 N/mm²) T Ø	(max 650 N/mm²) T Ø
612127	750	5	12
612128	900	7	14

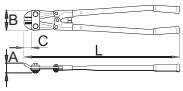
596/6B

Cleste de buloane

- *material: cutite - otel special, forjat, tratate*
- *partea de taiere tratata prin inductie*
- *manere din teava, vopsie, manere din plastic pentru conditii grele*
- *Protectia suruburilor excentrice pentru*
- *reglarea lamelor prin locasuri forjate asigura*
- *protectia 100% impotriva desurubarii*
- *Sistemul de absortie socuri din articulatie asigura absortia socurilor in manere, aceasta la taierea fierului beton.*







	L	A	B	C			
610975	450	34	70	29	1500	D	**247,10**
610976	600	36	84	32	2600	D	**320,28**

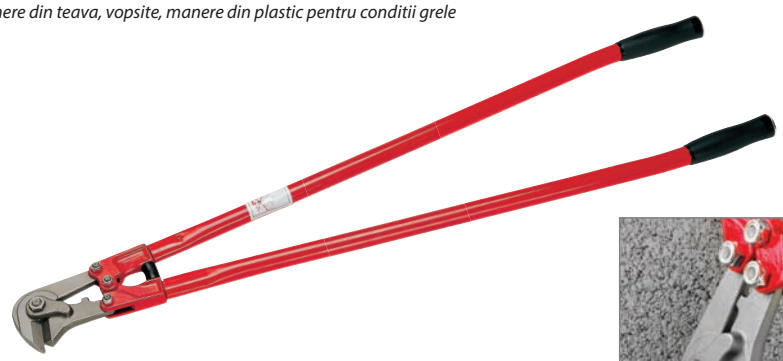
capacitatea de taiere (10N=1kg)

	L	(max 1600 N/mm²) T Ø	(max 650 N/mm²) T Ø
610975	450	5	8
610976	600	7	10

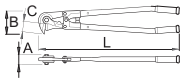
598/6

Cleste de buloane

- *material: cutite-otel special, forjat, tratate*
- *falci intershimbabile si reglabile*
- *partea de taiere tratata prin inductie*
- *manere din teava, vopsite, manere din plastic pentru conditii grele*







	L	A	B	C			
607153	600	46	100	43	2615	D	**338,05**
610228	800	46	100	43	3415	D	**362,08**
608442	1000	46	100	43	6100	D	**371,84**

capacitatea de taiere (10N=1kg)

	L	(max 1600 N/mm²) T Ø	(max 650 N/mm²) T Ø
607153	600	11	13
610228	800	11	13
608442	1000	11	13

595.1/7A

Elemente de shimb pentru 595/6A

- *falca+suruburi+2 piulite*



612129	750	1476	E	**275,31**
612130	900	1856	E	**371,76**

596.1/7B

Elemente de shimb pentru 595/6B

- *falca+suruburi+2 piulite*



610977	450	542	E	**153,91**
610978	600	858	E	**212,83**

598.1/7

Elemente de schimb pentru 598/6

- *falca+suruburi+2 piulite*



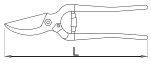
607968	600 - 1000	931	E	**207,46**

542/4PR

Foarfeca de cultura

- *material: otel carbon de scule*
- *forjata*
- *partile taietoare tratate prin inductie*
- *acoperire: fosfatare*
- *manere de plastic*





	L			
601578	220	310	B	**67,80**

542.1/5

Arc de schimb pentru 542



603870	13	E	8,76

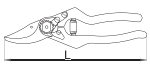
544/6

Foarfeca de cultura cu manere de aluminiu !

- *material: lama din otel aliat*
- *manere de aluminiu*
- *partea taietoare tratata la min.50 HRC*
- *partile taietoare ascutite slefuite, inlocuibile*
- *design ergonomic*
- *cap slefuit*
- *manere vopsite*







601580	220	268	B	125,36

544.1/5

Arc de schimb pentru 544



601582	10	E	9,55

544.2/9

Elemente de schimb pentru art.544

- *lama+falca*



601581	75	E	78,94

546/6

Foarfeci de vie

- *material:otel carbon de scule*
- *forjata*
- *partile taietoare tratate prin inductie*
- *acoperire: vopsite*



601583	190	143	B	67,41

546.1/5

Elemente de schimb pentru art.546



601584	9	E	8,05

550/3PR

Foarfeca de gradina !

- *material: lama din otel aliat*
- *partea taietoare tratata la min.50 HRC*
- *falca glisanta din aluminiu*
- *lama placata cu teflon*
- *acoperire nichelare*
- *blocare pentru prevenirea deschiderii accidentale*
- *maner anti-alunecare*
- *folosita pentru taieri de gradina*
- *manere de plastic*



601590	200	287	B	82,02

550.1/9

Parti componente pentru art.550

- *cutit+falca+surub+bucsa*



601585	50	E	43,12

550.2/9

Lama de schimb pentru 550



601592	28	E	23,50

550.3/9

Lama de schimb pentru 550

- *arc laminat*



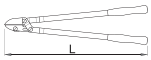
601591	17	E	4,66

555/6

Foarfeca de pomi !

- *material: lama din otel aliat*
- *falca de aluminiu, manere din otel*
- *falci tratate la 35 HRC*
- *lama tratata prin inductie la 50 HRC, ascutite*
- *slefuite, placata cu teflon*
- *pentru ramuri de arbori*
- *capacitatea de taiere R 40 mm*
- *articulatie performanta*
- *manere vopsite cu articulatie pentru lucrari in conditii grele*





603522	750	1895	C	287,36

555.1/9

Elemente de schimb pentru art.555



605214	225	E	62,52

555.2/9

Falca de schimb pentru art.554 si art.555



605236	55	E	57,64

Surubelnite

Caracteristiclle surubelnitelor UNIOR





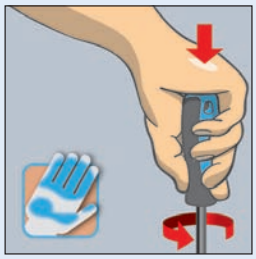




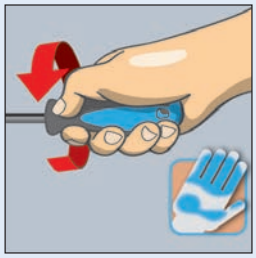


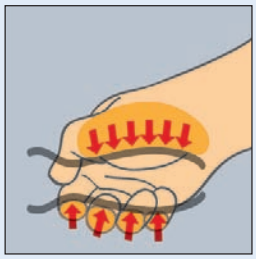
MANER ERGONOMIC!

Combinatia intre suprafata dura si cea moale imbunatateste factorul de incarcare si asigura o insurubare usoara.Forma manerului a fost proiectata incat sa asigure un confort deplin si a reduce efortul muscular al mainii.



Suprafata de contact mare = mai multa forta de torsiune





Forma ergonomica a manerului = protectia mainii



Maner cu forma ergonomic

Calitatea superioara a materialelor utilizate in gama de surubelnite Unior este completata de manerul cu forma ergonomica pentru a oferi o prindere excelenta.

Moment de torsiune marit

Odata cu consistenta variata a manerului de plastic eliminand practic pericolul de a aluneca surubelnita in palma, manerul imbunatatit asigura de asemenea si o strangere mai buna. Acest lucru poate fi, de asemenea, realizat prin inserarea unei tije in gaura manerului, adaugata cu acest scop, la toate manerele (cu exceptia surubelnitelor cu maner de lemn), functionand de asemena si ca locas pentru agatat.

Material cu trei componente

Prin combinatia sa de materiale netede si aspre, manerul special cu trei componente - brevetat Unior - asigura confort si performanta cu minim de efort in timpul lucrului.

Aderenta maxima

Capabile sa asigure o varietate diversa de profile, manerele inovatoare cu trei componente confera surubelnitelor Unior o inalta eficienta si maxima aderenta.

	Surubelnita lata	188 - 189
	Surubelnnita cu profil PH	189 - 191
	Surubelnita cu profil PZ	191 - 192
	Surubelnita cu cap hexagonal sferic	192
	Surubelnita cu profil TX	192 - 193
	Surubelnita cu profil patrat	193 - 195
	Magnetizator; maner de antrenare cu clichet si tije	196 - 197
	Biti	198 - 201



UNIOR

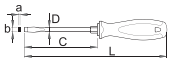
600TBI

Surubelnite plate TBI mecanice cu hexagon

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*







	a x b	C	L	D				
611680	1.0 x 5.5	100	200	5	8	68	B	23,63
611681	1.2 x 6.5	125	235	6	10	103	B	31,02
611682	1.2 x 8.0	150	270	7	13	143	B	37,14
611683	1.6 x 10.0	175	295	8	13	171	B	41,36

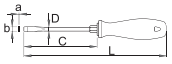


600CR

Surubelnita CR mecanica cu profil lat

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





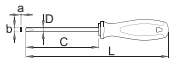
	a x b	C	L	D				
616322	1.0 x 5.5	100	200	5	8	68	B	17,25
616323	1.2 x 6.5	125	235	6	10	103	B	23,36
616324	1.2 x 8.0	150	270	7	13	143	B	28,07
616325	1.6 x 10.0	175	295	8	13	171	B	33,40

602TBI

Surubelnite plate pentru electricieni TBI

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*





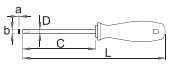
	a x b	C	L	D				
612797	0.4 x 2.5	60	145	2.5	33	B	13,07
612798	0.4 x 2.5	75	160	2.5	33	B	13,24
611684	0.5 x 3.0	100	185	3	37	B	13,55
612799	0.5 x 3.0	150	235	3	39	B	15,40
612800	0.6 x 3.5	100	185	3.5	39	B	16,37
612801	0.8 x 4.0	100	185	4	43	B	16,54
611685	0.8 x 4.0	125	210	4	45	B	16,98
612802	0.8 x 4.0	150	235	4	48	B	17,56
612803	0.8 x 4.0	250	335	4	56	B	21,03
612804	1.0 x 5.5	125	225	5.5	75	B	22,62
616843	1.0 x 5.5	280	380	5.5	103	B	32,56
611686	1.0 x 5.5	150	250	5.5	81	B	22,88
612805	1.2 x 6.5	150	260	6.5	113	B	27,63
616844	1.2 x 6.5	280	390	6.5	145	B	37,88
612806	1.2 x 8.0	175	295	8	163	B	33,26

602CR

Surubelnita de electrician CR cu profil lat

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*





	a x b	C	L	D				
616326	0.4 x 2.5	60	145	2.5	33	B	8,98
616327	0.4 x 2.5	75	160	2.5	33	B	9,15
616328	0.5 x 3.0	100	185	3	37	B	10,12
616329	0.5 x 3.0	150	230	3	39	B	10,82
616330	0.6 x 3.5	100	180	3.5	39	B	11,62
616331	0.8 x 4.0	100	190	4	43	B	11,79
616332	0.8 x 4.0	150	240	4	48	B	12,54
616333	0.8 x 4.0	250	340	4	56	B	15,09
616334	1.0 x 5.5	125	225	5.5	75	B	15,80
616335	1.0 x 5.5	150	250	5.5	81	B	16,76
616336	1.2 x 6.5	150	250	6.5	113	B	19,40
616337	1.2 x 8.0	175	285	8	163	B	24,99

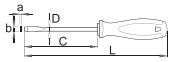


605TBI

Surubelnite plate TBI

- *lama: otel crom vanadiu molibden tratata*
- *integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





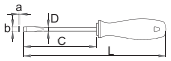
	a x b	C	L	D				
612810	0.4 x 2.5	60	145	2.5	33	B	13,07
611687	0.4 x 2.5	75	160	2.5	34	B	13,11
611688	0.5 x 3.0	80	165	3	35	B	13,24
612811	0.5 x 3.0	100	185	3	37	B	13,51
611689	0.5 x 3.0	125	210	3	37	B	14,21
612812	0.5 x 3.0	150	235	3	39	B	15,22
612813	0.6 x 3.5	75	160	3.5	37	B	15,22
611690	0.6 x 3.5	100	185	3.5	39	B	15,49
611691	0.6 x 3.5	125	210	3.5	40	B	15,71
611692	0.8 x 4.0	100	185	4	41	B	15,84
612814	0.8 x 4.0	125	210	4	44	B	16,59
611693	0.8 x 4.0	150	235	4	46	B	18,30
612815	0.8 x 4.0	200	285	4	53	B	20,59
612816	1.0 x 5.5	100	200	5	68	B	20,86
611694	1.0 x 5.5	125	225	5.5	70	B	20,77
611695	1.0 x 5.5	150	250	5	74	B	20,94
612817	1.2 x 6.5	100	210	6	93	B	25,56
612818	1.2 x 6.5	125	235	6	98	B	26,00
611696	1.2 x 6.5	150	260	6	103	B	25,78
611697	1.2 x 6.5	200	310	6	115	B	30,32
611698	1.2 x 8.0	175	295	7	143	B	30,76
612819	1.6 x 8.0	175	295	7	143	B	31,90
611699	1.6 x 10.0	200	320	8	173	B	35,95
611700	2.0 x 12.0	250	370	9	223	B	48,84

605CR

Surubelnita CR cu profil lat

- *lama: otel crom vanadiu molibden tratata*
- *integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





	a x b	C	L	D			
616338	0.4 x 2.5	60	145	2.5	33	B	**7,88**
616339	0.4 x 2.5	75	160	2.5	34	B	**7,88**
616340	0.5 x 3.0	80	165	3	35	B	**9,28**
616341	0.5 x 3.0	100	185	3	37	B	**9,46**
616342	0.5 x 3.0	150	235	3	39	B	**10,56**
616343	0.6 x 3.5	75	160	3.5	37	B	**10,21**
616344	0.6 x 3.5	100	185	3.5	39	B	**10,21**
616345	0.6 x 3.5	125	210	3.5	40	B	**10,56**
616346	0.8 x 4.0	100	185	4	41	B	**11,18**
616347	0.8 x 4.0	125	210	4	44	B	**11,62**
616348	0.8 x 4.0	150	235	4	46	B	**11,97**
616349	0.8 x 4.0	200	285	4	53	B	**14,04**
616350	1.0 x 5.5	100	200	5	68	B	**13,95**
616351	1.0 x 5.5	125	225	5	70	B	**13,95**
616352	1.0 x 5.5	150	250	5	74	B	**14,21**
616353	1.2 x 6.5	100	200	6	93	B	**16,15**
616354	1.2 x 6.5	125	225	6	98	B	**16,15**
616355	1.2 x 6.5	150	250	6	103	B	**16,54**
616356	1.2 x 8.0	175	285	7	143	B	**21,16**
616357	1.6 x 8.0	175	285	7	143	B	**21,16**
616358	1.6 x 10.0	200	320	8	173	B	**27,72**
616359	2.0 x 12.0	250	370	9	223	B	**40,79**

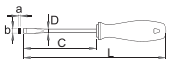


605NI

Surubelnite cu varf plat

- *lama: otel crom vanadiu molibden tratata integral*
- *lama nichelata*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





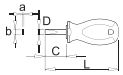
	a x b	C	L	D			
616419	0.4 x 2.0	60	150	2	33	B	**5,90**
616420	0.4 x 2.5	75	160	2.5	34	B	**5,94**
616421	0.5 x 3.0	80	165	3	35	B	**6,34**
616422	0.6 x 3.5	100	185	3.5	39	B	**7,79**
616423	0.8 x 4.0	100	185	4	41	B	**9,02**
616424	1.0 x 5.5	125	225	5	70	B	**11,09**
616425	1.2 x 6.5	150	250	6	103	B	**13,07**
616426	1.2 x 8.0	175	285	8	143	B	**16,76**
616427	1.6 x 10.0	200	320	10	173	B	**23,58**

627TBI

Surubelnite scurte late cu maner TBI

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





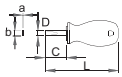
	a x b	C	L	D			
612832	0.6 x 3.5	25	87	3.5	33	B	**14,70**
617089	0.6 x 3.5	35	97	3.5	34	B	**14,96**
612833	0.8 x 4.0	25	87	4	41	B	**15,09**
617090	0.8 x 4.0	35	97	4.0	35	B	**15,09**
612834	1.0 x 5.5	25	87	5.5	40	B	**15,27**
617091	1.0 x 5.5	35	97	5.5	41	B	**15,40**
612835	1.2 x 6.5	25	87	6.5	34	B	**15,36**
617092	1.2 x 6.5	35	97	6.5	36	B	**15,40**

627CR

Surubelnita scurta CR cu profil lat

- *lama: otel crom vanadiu molibden tratata*
- *integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 2380-1,2*





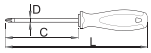
	a x b	C	L	D			
616399	0.8 x 4.0	25	85	4	37	B	**9,90**
616400	1.0 x 5.5	25	85	5.5	41	B	**10,65**
616401	1.2 x 6.5	25	85	6.5	43	B	**10,96**

615TBI

Surubelnite TBI-(PH)

- *lama: otel crom vanadiu molibden tratata*
- *integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





	+	C	L	D			
611701	PH 0	60	145	3	34	B	**12,89**
611702	PH 1	80	180	4.5	60	B	**18,30**
611703	PH 1	200	300	4.5	74	B	**22,44**
611704	PH 2	100	210	6	94	B	**24,29**
611705	PH 2	150	260	6	104	B	**25,39**
611706	PH 2	200	310	6	114	B	**30,49**
611707	PH 3	150	270	8	154	B	**31,55**
611708	PH 4	200	320	10	230	B	**43,96**

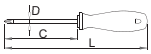


615CR

Surubelnita CR cu profil PH

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





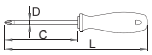
		C	L	D			
616363	PH 0	60	145	3	34	B	**8,98**
616364	PH 1	80	165	4.5	60	B	**10,96**
616365	PH 1	200	285	4.5	74	B	**13,64**
616366	PH 2	100	200	6	94	B	**14,96**
616367	PH 2	150	250	6	104	B	**16,15**
616368	PH 3	150	260	8	154	B	**22,09**
616369	PH 4	200	320	10	230	B	**36,12**

612CR

Surubelnita de electrician CR cu profil PH

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*





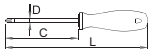
		C	L	D			
616360	PH 1	280	365	4.5	67	B	**18,30**
616361	PH 2	200	300	6	98	B	**22,88**
616362	PH 2	280	380	6	113	B	**26,09**

615NI

Surubelnita PH

- *lama: otel crom vanadiu molibden tratata integral*
- *lama nichelata*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





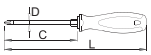
		C	L	D			
616428	PH 0	60	145	3	34	B	**7,74**
616429	PH 1	80	165	4.5	60	B	**9,46**
616430	PH 2	100	200	6	94	B	**12,89**
616431	PH 3	150	260	8	154	B	**19,54**

616TBI

Surubelnite TBI-(PH) mecanice cu hexagon

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





		C	L	D				
611709	PH 1	80	180	4.5	8	60	B	**22,00**
611710	PH 2	100	210	6	10	94	B	**27,54**
611711	PH 3	150	270	8	13	154	B	**38,94**

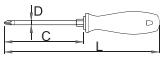


616CR

Surubelnita CR mecanica cu profil PH

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





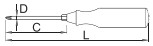
		C	L	D				
616370	PH 1	80	180	4.5	8	60	B	**15,36**
616371	PH 2	100	210	6	10	94	B	**19,84**
616372	PH 3	150	270	8	13	154	B	**30,62**

616W

Surubelnite PH mecanice cu hexagon

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner de lemn*
- *in concordanta cu standardul ISO 8764-1,2*





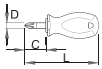
		C	L	D			
602817	PH 2	100	200	6	10	83	A	**44,48**

626TBI

Surubelnite scurte (PH) cu maner TBI

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





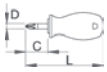
		C	L	D			
612829	PH 0	25	87	3	33	B	**14,61**
617086	PH 0	35	97	3.0	33	B	**14,96**
612830	PH 1	25	87	4.5	37	B	**14,70**
617087	PH 1	35	97	4.5	37	B	**15,00**
612831	PH 2	25	87	6	41	B	**15,27**
617088	PH 2	35	97	6.0	43	B	**15,27**

626CR

Surubelnita scurta CR cu profil PH

- *lama: otel crom vanadiu molibden tratata*
- *integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





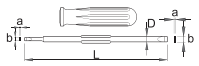
		C	L	D			
616397	PH 1	25	85	4.5	37	B	**10,21**
616398	PH 2	25	85	6	41	B	**10,82**

636

Surubelnita reversibila

- *lama: otel crom vanadiu molibden*
- *tratata integral*
- *lama nichelata*
- *maner: forma ergonomica din polipro-pilena*





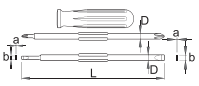
	a x b		L	D			
608922	1.0 x 6.0	PH 2	140	6	53	E	**12,76**

636A

Surubelnita reversibila

- *cu doua lame PH2-PH3 si 0.8 x 4.0 -1.2 x 7.0*





			a x b	a x b	L	D			
615049	PH 2	PH 3	0.8 x 4.0	1.2 x 7.0	180	7	127	E	**19,49**

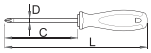


625TBI

Surubelnite TBI-(PZ)

- *lama: otel crom vanadiu molibden tratata*
- *integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





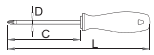
		C	L	D			
611741	PZ 0	60	145	3	34	B	**12,80**
611742	PZ 1	80	180	4.5	60	B	**17,69**
611743	PZ 2	100	210	6	93	B	**22,44**
611744	PZ 3	150	270	8	156	B	**28,95**

625NI

Surubelnita PZ

- *lama: otel crom vanadiu molibden tratata integral*
- *lama nichelata*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





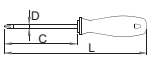
		C	L	D			
616432	PZ 0	60	145	3	34	B	**7,96**
616433	PZ 1	80	165	4.5	60	B	**9,06**
616434	PZ 2	100	200	6	93	B	**12,50**
616435	PZ 3	150	260	8	156	B	**18,96**

625CR

Surubelnita CR cu profil PZ

- *lama: otel crom vanadiu molibden tratata*
- *integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





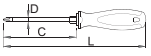
		C	L	D			
616393	PZ 0	60	145	3	34	B	**9,46**
616394	PZ 1	80	165	4.5	60	B	**10,65**
616395	PZ 2	100	200	6	93	B	**14,65**
616396	PZ 3	150	260	8	156	B	**21,74**

617TBI

Surubelnite TBI-(PZ) mecanice cu hexagon

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





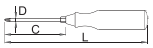
		C	L	D				
611712	PZ 1	80	180	4.5	8	60	B	**22,09**
611713	PZ 2	100	210	6	10	94	B	**27,81**
611714	PZ 3	150	270	8	13	154	B	**39,03**

617W

Surubelnite PZ mecanice cu hexagon

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner de lemn*
- *in concordanta cu standardul ISO 8764-1,2*





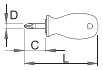
		C	L	D			
603468	PZ 2	100	210	6	10	83	A	42,81

628CR

Surubelnita scurta CR cu profil PZ

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





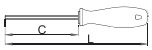
		C	L	D			
616402	PZ 1	25	85	4.5	37	B	10,21
616403	PZ 2	25	85	6	41	B	10,82

620/1CR

Surbelnita hexagonala CR

- *lama: otel crom vanadiu molibden*
- *tratata integral*
- *lama brunata*
- *maner: forma ergonomica din polipro-*
- *pilena*
- *gaura de agatare*





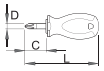
		C	L			
617128	2	60	145	34	B	10,47
617129	2.5	60	145	34	B	11,31
617130	3	75	160	37	B	12,36
617131	4	75	160	68	B	13,24
617132	5	85	185	93	B	13,73
617133	6	95	205	128	B	15,75
617134	8	105	215	203	B	20,37
617135	3/32"	60	145	34	B	11,53
617136	7/64"	60	145	34	B	12,10
617137	1/8"	75	160	37	B	13,02
617138	9/64"	75	160	68	B	13,55
617139	5/32"	85	170	68	B	13,55
617140	3/16"	85	185	93	B	13,73
617141	7/32"	85	185	128	B	16,59
617142	1/4"	95	205	128	B	19,93
617143	5/16"	105	215	203	B	21,78
617144	3/8"	115	235	203	B	30,27

628TBI

Surubelnite scurte (PZ) cu maner TBI

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *in concordanta cu standardul ISO 8764-1,2*





		C	L	D			
612836	PZ 0	25	87	3	33	B	15,09
617093	PZ 0	35	97	3.0	33	B	15,31
612837	PZ 1	25	87	4.5	37	B	15,09
617094	PZ 1	35	97	4.5	37	B	15,36
612838	PZ 2	25	87	6	41	B	15,49
617095	PZ 2	35	97	6.0	43	B	15,80

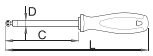
620TBI

Surubelnite TBI cu cap hexagonal sferic

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*







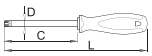
	C	L	D			
611715	2	65	150	3	34	B	16,81
611716	2.5	75	160	3	34	B	16,81
611717	3	75	160	3.5	37	B	18,61
611718	4	100	200	5	68	B	24,73
611719	5	100	210	6	93	B	29,13
611720	6	125	245	7	128	B	32,87
611721	8	150	270	10	203	B	38,94

621TBI

Surubelnite TBI-TX

- *lama: otel crom vanadium molibden*
- *tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*





		C	L	D			
611722	TX 6	60	145	3	34	B	14,70
611723	TX 7	60	145	3	34	B	14,70
611724	TX 8	60	145	3	34	B	14,70
611725	TX 9	60	145	3	34	B	14,70
611726	TX 10	80	165	3	35	B	14,70
611727	TX 15	80	165	3	37	B	16,15
611728	TX 20	100	185	4	43	B	16,98
611729	TX 25	100	200	4.5	63	B	20,77
611730	TX 27	115	215	5.5	76	B	22,75
611731	TX 30	115	225	6	98	B	26,71
611732	TX 40	130	250	7	130	B	32,56
611733	TX 45	130	250	8	148	B	34,28



621CR

Surubelnite CR cu profil TX

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*



		C	L	D			
616379	TX 6	60	145	3	34	B	10,96
616380	TX 7	80	165	3	34	B	10,96
616381	TX 8	80	165	3	34	B	10,96
616382	TX 9	80	165	3	34	B	10,96
616383	TX 10	80	165	3	35	B	10,96
616384	TX 15	80	165	3.5	37	B	11,40
616385	TX 20	100	185	4	43	B	12,41
616386	TX 25	100	185	4.5	63	B	13,38
616387	TX 27	115	215	5.5	76	B	16,15
616388	TX 30	115	215	6	98	B	17,56
616389	TX 40	130	240	7	130	B	23,23

621/1TBI

Surubelnite TBI-TX cu gaura

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*



		C	L	D			
611734	TR 10	80	165	3	35	B	34,58
611735	TR 15	80	165	3.5	37	B	35,95
611736	TR 20	100	185	4	43	B	36,61
611737	TR 25	100	200	4.5	63	B	43,60
611738	TR 27	115	215	5.5	76	B	54,82
611739	TR 30	115	225	6	98	B	58,39
611740	TR 40	130	250	7	130	B	67,63

622TBI

Surubelnite TBI cu cap patrat

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*



		C	L	D			
612807	SQ 1	90	175	4	41	B	21,03
612808	SQ 2	100	200	5.5	71	B	26,93
612809	SQ 3	100	200	5.5	73	B	34,89

629TBI

Capete chei tubulare cu maner TBI

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica*
- *trimaterial*
- *gaura de agatare*
- *conform cu standardul DIN 3125*



		C	L	D			
612820	4	125	225	5	73	B	36,61
612821	4.5	125	225	5	73	B	36,61
611746	5	125	235	5	92	B	36,65
612672	5.5	125	235	6	103	B	36,65
611747	6	125	235	6	103	B	36,65
611748	7	125	245	6	123	B	41,23
611749	8	125	245	7	140	B	41,62
611750	9	125	245	8	155	B	42,06
611751	10	125	245	8	157	B	43,12
611752	11	125	245	8	166	B	47,52
611753	12	125	245	9	184	B	51,74
611754	13	125	245	9	186	B	53,55
612825	14	125	245	9	193	B	56,32
612826	15	125	245	9	185	B	59,14
612827	16	125	245	9	181	B	60,50
612828	17	125	245	9	210	B	64,06

629CS5TBI

Set de capete chei tubulare TBI cu maner



612318	629CS5TBI	6 - 13 / 5	881	G	226,64

629TBI (6, 8, 10, 12, 13)

629CR

Surubelnite cu cap tubular si maner CR

- *lama: otel crom vanadiu molibden tratata integral*
- *lama cromata, varful brunat*
- *maner: forma ergonomica din polipropilena*
- *gaura de agatare*
- *conform cu standardul DIN 3125*



		C	L	D			
616405	4.5	125	225	5	73	B	29,13
616406	5	125	225	5	92	B	29,13
616407	5.5	125	225	6	103	B	29,13
616408	6	125	225	6	103	B	29,13
616409	7	125	235	6	123	B	32,25
616410	8	125	235	7	140	B	32,69
616411	10	125	235	8	157	B	34,28
616412	11	125	235	8	166	B	36,34
616413	12	125	245	9	184	B	40,79
616414	13	125	245	9	186	B	42,99
616415	14	125	245	9	193	B	51,74
616418	17	125	245	9	210	B	59,93

600CS5TBI

Set de surubelnite mecanice TBI cu hexagon



614007	600CS5TBI	5	475	G	120,03

605TBI (0.8 x 4.0 x 100),
600TBI (1.0 x 5.5 x 100, 1.2 x 6.5 x 125),
616TBI (PH 1 x 80, PH 2 x 100)

606B5NI

Set de surubelnite NI



617033	606B5NI	5	380	G	45,36

605NI (0.4 x 2.0 x 60, 0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)

Producator European din 1919

606CS5TBI

Set de surubelnite TBI



№					
616320	606CS5TBI	5	500	G	106.44

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

608CS5TBI

Set de surubelnite TBI



№					
612326	608CS5TBI	5	546	G	109.47

615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), **625TBI** (PZ 2 x 100)

607CS7TBI

Set de surubelnite TBI



№					
611986	607CS7TBI	7	650	G	148.98

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), **615TBI** (PH 1 x 80, PH 2 x 100)

606CS5CR

Set de surubelnite CR



№					
617017	606CS5CR	5	475	G	72.12

605CR (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

607B5CR

Set de surubelnite CR



№					
617021	607B5CR	5	400	G	61.51

605CR (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.2 x 6.5 x 150), **615CR** (PH 1 x 80, PH 2 x 100)

607CS7CR

Set de surubelnite CR



№					
617026	607CS7CR	7	700	G	110.88

605CR (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), **615CR** (PH 1 x 80, PH 2 x 100, PH 3 x 150)

608CS5CR

Set de surubelnite CR



№					
617028	608CS5CR	5	630	G	93.10

615CR (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)

607B5NI

Set de surubelnite NI



№					
617037	607B5NI	5	400	G	50.78

605NI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.2 x 6.5 x 150), **615NI** (PH 1 x 80, PH 2 x 100)

607PB8TBI

Set de surubelnite TBI in cutie de plastic

- *Dimensiunea cutiei: 307 x 260 x 55 mm*



№					
621445	607PB8TBI	8	1060	F	267.39

602TBI (0.5 x 3.0 x 100), **605TBI** (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **615TBI** (PH 1 x 80, PH 2 x 100), **625TBI** (PZ 1 x 80, PZ 2 x 100), **981PBS2** (307 x 260 x 55)

608CS5NI

Set de surubelnite NI



№					
617041	608CS5NI	5	485	G	62.17

615NI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), **625NI** (PZ 2 x 100)

607CS5TBI

Set de surubelnite TBI



№					
611985	607CS5TBI	5	470	G	104.98

605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **615TBI** (PH 1 x 80, PH 2 x 100)

607PB9TBI

Set de surubelnite TBI in cutie de plastic

- *Dimensiunea cutiei: 307 x 260 x 55 mm*



	№				
621419	607PB9TBI	9	1030	G	296.87

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150),
615TBI (PH 1 x 80, PH 2 x 100),
625TBI (PZ 0 x 60, PZ 1 x 80, PZ 2 x 100),
981PBS2 (307 x 260 x 55)

607S50CR

Set de surubelnite CR cu display tip stand



	№				
617027	607S50CR	50	4960	F	953.08

605CR (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175), **615CR** (PH 0 x 60, PH 1 x 80, PH 2 x 100), **625CR** (PZ 1 x 80, PZ 2 x 100), **978BICR** (330 x 205 x 206)

607S50TBI

Set de surubelnite electronice TBI cu display tip stand



	№				
612000	607S50TBI	50	5535	F	1,301.52

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175),
615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100),
625TBI (PZ 1 x 80, PZ 2 x 100),
978BICR (330 x 205 x 206)

609CS5TBI

Set de surubelnite TBI



	№				
611987	609CS5TBI	5	475	G	105.52

605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150),
625TBI (PZ 1 x 80, PZ 2 x 100)

609CS7CR

Set de surubelnite CR



	№				
617030	609CS7CR	7	681	G	109.91

605CR (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175),
625CR (PZ 1 x 80, PZ 2 x 100, PZ 3 x 150)

621CS7TBI

Set de surubelnite TBI cu profil TX



	№				
612300	621CS7TBI	TX 10 - TX 40 / 7	580	G	150.66

621TBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

621CS7CR

Set de surubelnite CR cu profil TX



	№				
617031	621CS7CR	TX 10 - TX 40 / 7	535	G	105.07

621CR (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40)

621/1CS7TBI

Set de surubelnite TBI cu profil TX cu gaura



	№				
612308	621/1CS7TBI	TR 10 - TR 40 / 7	595	G	331.58

621/1TBI (TR 10, TR 15, TR 20, TR 25, TR 27, TR 30, TR 40)

629CS7CR

Set de surubelnite cu cap tubular cu maner CR



	№				
617032	629CS7CR	6 - 17 / 7	1240	G	291.50

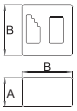
629CR (6, 8, 10, 12, 13, 14, 17)

633

Magnetizator/Demagnetizator

- *material: ABS*
- *culoare albastra*





	B	A			
612866	52	30	91	E	51.08

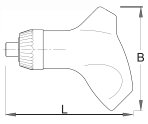


635

Maner de antrenare cu clichet

- *maner: polipropilena*
- *manerul poate fi utilizat cu toate tijele hexagonale cu cap de surubelnita de 6 mm*
- *designul ergonomic al manerului permite obtinerea unui moment maxim*
- *inlocuirea rapida si in siguranta a lamelor de surubelnita*
- *rotire precisa si rapida in sensul acelor de ceasornic si in sens opus acelor de ceasornic*
- *posibilitate de blocare a clichetului*





		B	L			
618851	6	85	100	188	E	205.61

635SL

Tija hexagonala cu capete plate de surubelnita pentru 635

- *materiale: crom vanadiu molibden*
- *varful colorat al tijei permite o alegere rapida a acesteia*





		L				
618852	0.6 x 3.5 - 0.8 x 4.5	150	6	40	E	34.98
618853	0.8 x 4.0 - 1.0 x 6.0	150	6	41	E	34.98
618854	1.0 x 5.5 - 1.2 x 6.5	150	6	42	E	34.98

635SLPH

Tija hexagonala cu capete combinate de surubelnita si PH pentru 635

- *material: crom vanadiu molibden*
- *varful colorat al tijei permite o alegere rapida a acesteia*





			L				
618855	0.8 x 4.0	PH 1	150	6	40	E	34.98
618856	1.0 x 6.0	PH 2	150	6	41	E	34.98
618857	1.2 x 6.5	PH 3	150	6	41	E	34.98

635PH

Tija hexagonala cu capete PH pentru 635

- *material: crom vanadiu molibden*
- *varful colorat al tijei permite o alegere rapida a acesteia*





		L				
618858	PH 1 x PH 2	150	6	40	E	35.11
618859	PH 2 x PH 3	150	6	42	E	35.11

635PZ

Tija hexagonala cu capete PZ pentru 635

- *material: crom vanadiu molibden*
- *varful colorat al tijei permite alegerea rapida a acesteia*





		L				
618860	PZ 1 - PZ 2	150	6	40	E	35.11
618861	PZ 2 - PZ 3	150	6	41	E	35.11

635HX

Tija hexagonala cu hexagon si hexagon cu sfera pentru 635



- *material: crom vanadiu molibden*
- *varful colorat al tijei permite o alegere rapida a acesteia*
- *hexagonul cu cap sferic permite lucrul sub un unghi de pana la 25°*





		L				
618862	2.5 - 2.5	150	39	E	35.11
618863	3 - 3	150	40	E	37.27
618864	4 - 4	150	40	E	37.27
618865	5 - 5	150	42	E	37.27
618866	6 - 6	150	43	E	37.27

635TX

Tija hexagonala cu capete TX pentru 635

- *material: crom vanadiu molibden*
- *varful colorat al tijei permite o alegere rapida a acesteia*





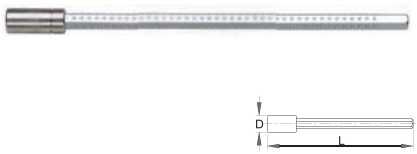
		L				
618867	TX 6 - TX 8	150	6	38	E	39.47
618868	TX 7 - TX 9	150	6	39	E	39.47
618869	TX 10 - TX 15	150	6	40	E	39.47
618870	TX 20 - TX 25	150	6	40	E	39.47
618871	TX 30 - TX 40	150	6	43	E	39.47



635Bits

Lama reversibila pentru biti pentru 635

- *material: crom vanadiu molibden*
- *cu magnet*

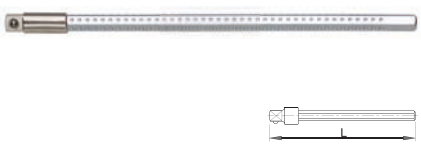


		D	L				
618872	1/4" (6.3)	12	164	6	53	E	35.11

635Soc

Tija hexagonala cu capete pentru capete de 1/4" pentru 635

- *material: crom vanadiu molibden*



			L				
618873	1/4"	164	6	51	E	36.52

635PB

Set de scule cu lame interschimbabile si maner cu clichet

- *Dimensiunea cutiei: 197 x 167 x 47 mm*



№					
619967	635PB	6	510	G	437.18

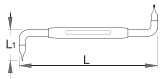
635 (6 x 100),
635SL (0.8 x 4.0 - 1.0 x 6.0),
635PH (PH 1 x PH 2),
635PZ (PZ 1 - PZ 2),
635TX (TX 20 - TX 25, TX 30 - TX 40),
981PBM1 (197 x 167 x 47)

637SL

Surubelnita unghiulara cu capete surubelnita

- *partea centrala a manerului acoperita cu plastic rezistent la impact*
- *permite lucrul in spatii inguste*
- *lama brunata*
- *in concordanta cu standard DIN 5200*





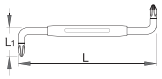
			L	L1			
618773	0.6 x 3.5	90	12	8	A	15.09
618774	0.8 x 4.0	100	13	11	A	15.97
618775	1.0 x 5.5	125	16	27	A	14.87
618776	1.2 x 6.5	125	20	38	A	16.59
618777	1.2 x 8.0	150	25	66	A	21.25
618778	1.6 x 10.0	175	33	104	A	32.16
618779	2.0 x 12.0	200	37	147	A	38.02

637PH

Surubelnita unghiulara cu capete PH

- *partea centrala a manerului acoperita cu plastic rezistent la impact*
- *permite lucrul in spatii inguste*
- *lama brunata*
- *in concordanta cu standardul DIN 5208*





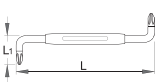
		L	L1			
618780	PH 1 - PH 2	125	20	29	A	13.77
618781	PH 2 - PH 3	150	29	72	A	19.67
618782	PH 3 - PH 4	200	35	138	A	29.96

637PZ

Surubelnita unghiulara cu capete PZ

- *partea centrala a manerului acoperita cu plastic rezistent la impact*
- *permite lucrul in spatii inguste*
- *lama brunata*
- *in concordanta cu standardul DIN 5208*





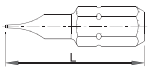
		L	L1			
618783	PZ 1 - PZ 2	125	20	29	A	12.45
618784	PZ 2 - PZ 3	150	29	72	A	18.39
618785	PZ 3 - PZ 4	200	35	138	A	28.64

6460C6,3

Bituri surubelnite-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





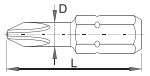
	a x b	L			
602370	0.5 x 3.0	25	9	E	18.70
602371	0.5 x 4.0	25	9	E	18.70
602372	0.6 x 3.5	25	10	E	18.70
602373	0.6 x 4.5	25	10	E	18.70
602374	0.8 x 4.0	25	9	E	18.70
602375	0.8 x 5.5	25	11	E	18.70
602376	1.0 x 5.5	25	10	E	18.70
602377	1.2 x 6.5	25	11	E	18.70
602378	1.2 x 8.0	25	12	E	20.33

6463C6,3

Bituri PH-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





		D	L			
602388	PH 0	3	25	9	E	15.53
602389	PH 1	4.5	25	10	E	15.53
602390	PH 2	6	25	10	E	15.53
602391	PH 3	8	25	12	E	15.53

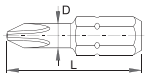


6463TINC6,3

Bituri PH-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *titanizate*
- *in concordanta cu standardul ISO 2351*





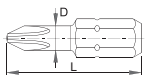
		D	L			
604691	PH 1	4.5	25	10	E	34.23
604692	PH 2	6	25	10	E	34.23
604693	PH 3	8	25	10	E	34.23

6464C6,3

Bituri PH-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





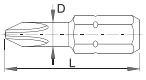
		D	L			
602392	PH 3	8	32	14	E	28.73
602393	PH 4	10	32	16	E	31.11

6465C6,3

Bituri PH-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau*
- *non-magnetica*
- *in concordanta cu standardul ISO 2351*





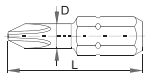
		D	L			
602394	PH 1	4.5	50	13	E	26.62
602395	PH 2	6	50	16	E	26.62
602396	PH 3	8	50	22	E	26.62

6466C6,3

Bituri PZ-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





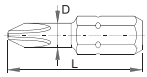
		D	L			
602397	PZ 1	4.5	25	10	E	15.53
602398	PZ 2	6	25	10	E	15.53
602399	PZ 3	8	25	11	E	15.53

6466TINC6,3

Bituri PZ-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *titanizate*
- *in concordanta cu standardul ISO 2351*





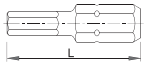
		D	L			
604694	PZ 1	4.5	25	10	E	34.23
604695	PZ 2	6	25	10	E	34.23
604696	PZ 3	8	25	10	E	34.23

6469C6,3

Bituri hexagonale-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*



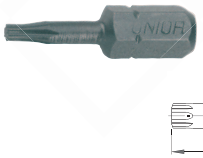


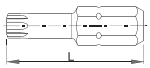
		D			
602400	2.5	25	9	E	18.26
602401	3	25	9	E	18.26
602402	4	25	10	E	18.26
602403	5	25	12	E	18.26
602404	6	25	12	E	18.26

6472C6,3

Bituri TX-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*





		L			
602405	TX 6	25	9	E	21.52
602406	TX 7	25	9	E	21.52
602407	TX 8	25	9	E	21.52
602408	TX 9	25	9	E	21.52
602409	TX 10	25	9	E	21.52
602410	TX 15	25	9	E	21.52
602411	TX 20	25	10	E	21.52
602412	TX 25	25	10	E	21.52
621283	TX 27	25	10	E	21.60
621284	TX 30	25	10	E	21.60
621285	TX 40	25	10	E	21.60

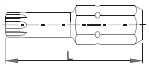


6472TINC6,3

Bituri TX-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *titanizate*





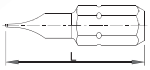
		L			
604699	TX 10	25	12	E	31.24
604700	TX 15	25	10	E	31.24
604701	TX 20	25	10	E	31.24
604702	TX 25	25	10	E	31.24
604825	TX 30	25	10	E	31.24

6480C8

Bituri cu locas surubelnita -set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





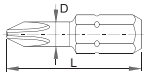
	a x b	L			
602414	1.0 x 5.5	41	15	E	29.30
602415	1.2 x 6.5	41	18	E	29.30
602416	1.2 x 8.0	41	20	E	29.30
602417	1.6 x 8.0	41	19	E	29.30
602418	1.6 x 10.0	41	24	E	37.40
602419	2.0 x 12.0	41	27	E	46.64

6483C8

Bituri PH-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





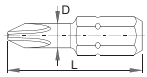
		D	L			
602422	PH 1	4.5	32	13	E	27.98
602423	PH 2	6	32	14	E	27.98
602424	PH 3	8	32	16	E	27.98

6484C8

Bituri PH-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





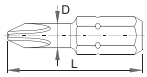
		D	L			
602425	PH 4	10	38	22	E	38.15

6486C8

Bituri PZ-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





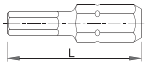
		D	L			
602426	PZ 1	4.5	32	13	E	27.98
602427	PZ 2	6	32	14	E	27.98
602428	PZ 3	8	32	16	E	27.98

6489C8

Bituri hexagonale-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*



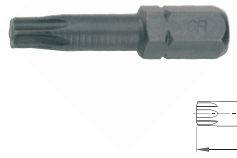


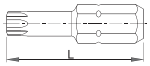
		L			
602429	3	30	13	E	26.18
602430	4	30	13	E	26.18
602431	5	30	14	E	26.18
602432	6	30	16	E	26.18
602433	7	30	17	E	26.18
602434	8	30	18	E	26.18
602435	10	30	22	E	26.18

6492C8

Bituri TX-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*





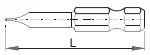
		L			
605518	TX 20	30	13	E	**25.12**
602436	TX 25	30	13	E	**25.12**
602437	TX 27	30	13	E	**25.12**
602438	TX 30	30	14	E	**25.12**
602439	TX 40	30	15	E	**25.12**
602440	TX 45	30	16	E	**25.12**
602441	TX 50	30	18	E	**25.12**

6500E6,3

Bituri cu cap surubelnita-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





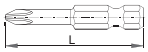
	a x b	L			
602510	0.5 x 3.0	50	19	E	**28.42**
602511	0.5 x 4.0	50	14	E	**28.42**
602512	0.6 x 3.5	50	13	E	**28.42**
602513	0.6 x 4.5	50	14	E	**28.42**
602514	0.8 x 4.0	50	13	E	**28.42**
602515	0.8 x 5.5	50	15	E	**28.42**
602516	1.0 x 5.5	50	16	E	**28.42**
602517	1.2 x 6.5	50	17	E	**28.42**
602518	1.2 x 8.0	50	19	E	**34.72**

6503E6,3

Bituri PH-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





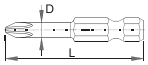
		D	L			
602519	PH 1	4.5	50	15	E	**29.30**
602520	PH 2	6	50	15	E	**29.30**
602521	PH 3	8	50	18	E	**29.30**

6506E6,3

Bituri PZ-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





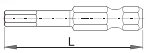
		D	L			
602522	PZ 1	4.5	50	14	E	**29.30**
602523	PZ 2	6	50	17	E	**29.30**
602524	PZ 3	8	50	19	E	**29.30**

6509E6,3

Bituri hexagonale-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*
- *in concordanta cu standardul ISO 2351*





		L			
602525	2.5	50	13	E	**26.18**
602526	3	50	14	E	**26.18**
602527	4	50	16	E	**26.18**
602528	5	50	17	E	**26.18**
602529	6	50	18	E	**26.18**

6515E6,3

Bituri SQ-set de 3 piese

- *material: otel special aliat*
- *durabilitate ridicata*
- *protectie anticoroziva*
- *pentru lucrul manual si cu masina*
- *pentru prinderea magnetica sau non-magnetica*





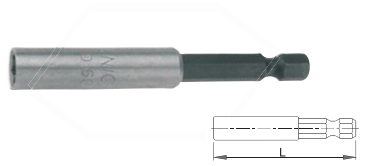
		L			
603417	SQ 1	75	22	E	**39.91**
603418	SQ 2	75	23	E	**39.91**
603419	SQ 3	75	23	E	**39.91**



Producator European din 1919

6715E6,3

Adaptor bituri E6.3 (1/4")



		L			
603028	E6.3 (1/4")	77	32	E	22.97

6762

Surubelnita de impact

- *Dimensiunea cutiei: 197 x 105 x 38 mm*

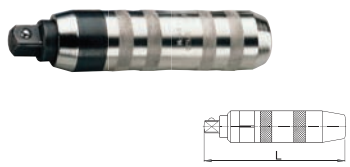


	№				
605061	6762	14	1249	G	288.02

6480C8 (1.2 x 6.5 x 41, 1.6 x 8.0 x 41, 2.0 x 12.0 x 41), **6483C8** (PH 2, PH 3), **6484C8** (PH 4), **6489C8** (5, 6), **6492C8** (TX 25, TX 30, TX 40, TX 20), **6762.1** (1/2" x 144), **6762.2** (1/2" - 5/16")

6762.1

Surubelnita de impact



		L			
605062	1/2"	144	661	E	107.76

6762.2

Adaptor 1/2" - 5/16"



		L			
605063	1/2" - 5/16"	37	60	E	19.23

6776PB21

Set de biti in cutie de plastic

- *Dimensiunile cutiei: 145 x 85 x 40 mm*



	№				
621650	6776PB21	21	240	G	171.07

6460C6,3 (0.5 x 4.0, 1.2 x 6.5), **6466C6,3** (PZ 1, PZ 2, PZ 3), **6472C6,3** (TX 8, TX 9, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **6469C6,3** (3, 4, 5, 6), **6463C6,3** (PH 1, PH 2), **6715E6,3** (E6.3 (1/4"))

6777

Cutie pentru bituri



	№				
605526	6777	10	120	S	87.65

6460C6,3 (0.5 x 4.0, 0.8 x 5.5, 1.2 x 6.5), **6463C6,3** (PH 1, PH 2, PH 3), **6466C6,3** (PZ 1, PZ 2, PZ 3), **6715E6,3** (E6.3 (1/4"))

6778

Cutie pentru bituri



	№				
605527	6778	TX 10 - TX 25 / 18	195	S	157.78

6460C6,3 (0.5 x 4.0, 0.8 x 5.5, 1.2 x 6.5), **6463C6,3** (PH 1, PH 2, PH 3), **6466C6,3** (PZ 1, PZ 2, PZ 3), **6469C6,3** (3, 4, 5, 6), **6472C6,3** (TX 10, TX 15, TX 20, TX 25), **6715E6,3** (E6.3 (1/4"))

6778/2A

Cutie pentru bituri



	№				
603768	6778/2A	6	50	S	38.10

6460C6,3 (0.5 x 4.0, 0.8 x 5.5, 1.2 x 6.5), **6463C6,3** (PH 1, PH 2, PH 3)

6778/5A

Cutie pentru bituri



	№				
603771	6778/5A	10	70	S	55.70

6463C6,3 (PH 1, PH 2, PH 3)

6778/8A

Cutie pentru bituri



	№				
603774	6778/8A	TX 8 - TX 25 / 10	60	S	75.64

6472C6,3 (TX 8, TX 9, TX 10, TX 15, TX 20, TX 25)

Extractoare

O procedura speciala pentru fabricarea extractoarelor

CAP (CORP)

1. **Taiere:** Banda de otel este taiata de masini in forma corespunzatoare; acuratetea taierii asigura un consum minim de materiale de calitate.



2. **Forjarea:** piesele forjate sunt realizate folosind tehnologia forjarii prin picatura. Aceasta permite o diversitate de produse cu forme ergonomice . Structura de baza adecvata a fibrelor (deja prezenta in materialul brut) este mentinuta cu procesele de forjare corespunzatoare.



3. **Decupare:** eliminarea adausurilor de prelucrare.



4. **Prelucrare cu ajutorul unei masini cu comanda numerica CNC:** se intrebuinteaza o masina cu comanda numerica CNC pentru a procesa cu precizie capul extractorului, care asigura o deplasare lina a manerelor mici.

5. **Filetare:** filetarea cu precizie a filetului trapezoidal interior, asigura o miscare lina a axului, ceea ce permite o ajustare rapida cand se utilizeaza extractorul.



6. **Tratament termic (calire-revenire):** tratamentul termic de durificare si calirea este destinat imbunatatirii structurii otelului, pentru a asigura produsului duritate si rezistenta crescute si celelalte proprietati necesare pentru a face fata cerintelor lucrului cu acest gen de produse.



7. **Slefuire:** curatarea suprafetei inainte de cromare este importanta pentru obtinerea unei protectii durabile si de calitate a suprafetelor.

8. **Cromare:** capul extractorului este placat cu un strat subtire si rezistent de oxid de crom care protejeaza impotriva coroziunii, uzurii si a altor deteriorari mecanice. In acelasi timp, ea dă intregii game de extractoare UNIOR un aspect lucios.



AX

9. **Forjarea:** (forjarea se executa prin forjarea la cald, care asigura forma corespunzatoare a capului axului).



10. **Prelucrare cu ajutorul masinii cu comanda numerica CNC:** masina cu comanda numerica CNC se utilizeaza pentru o prelucrare de precizie a arborelui, care reprezinta baza pentru rularea filetului.

11. **Rularea filetului:** se executa pe o masina speciala cu role speciale. Filetul trapezoidal rezultat este destinat pentru utilizari in conditii de solicitare maxima.



12. **Tratamentul termic (calire revenire):** tratamentul termic cu calire si revenire este destinat imbunatatirii structurii otelului, ca sa furnizeze duritatea, rezistenta si celelalte proprietati cerute pentru a rezista la solicitarile pe care lucrul cu asemenea produse le presupune.

13. **Sablarea:** curatarea suprafetelor inainte de brunare este importanta pentru obtinerea unei protectii de calitate si durabila a suprafetelor.

14. **Lustruire:** confera axului aspectul adecvat, profesional si asigura impreuna cu uleiul corespunzator, protectia de suprafata.

MANER

15. **Brosarea alezajului:** brosarea interioara se realizeaza in doua etape. Se obtine o dimensiune a alezajului care permite o miscare lina, optima a manerelor mici, de-a lungul capului extractorului.




Extractor cu doua brate 204 - 205


Extractor cu trei brate 205 - 206


Extractor cu cinci brate 206 - 207


Separatoare homocinetice, extractoare pentru autoturisme 207 - 211

16. Prelucrarea cu ajutorul masinii cu comanda numerica CNC a manerelor mici, asigura acuratete si astfel se imbunatateste functionalitatea intregului produs.

17. Tratamentul termic (calire si revenire): tratamentul termic cu calire si revenire este destinat imbunatatirii structurii otelului, pentru a imbunatati duritatea si rezistenta produsului, precum si a altor proprietati necesare depasirii sarcinilor muncii cu astfel de produse.

18. Sablare: curatarea suprafetei inainte de cromare este importanta pentru calitatea si durabilitatea protectiei de suprafata.

19. Cromarea: manerul extractorului este placat cu un strat subtire stabil de oxid de crom, care protejeaza impotriva coroziunii, uzurii si a altor deteriorari mecanice. In acelasi timp, confera intregului extractor Unior un aspect lucios.

ASAMBLARE

20. Asamblarea finala: muncitorii instruiti, calificati si meticulosi efectueaza asamblarea finala a produsului intr-un ansamblu solid, asigurand astfel functionarea si calitatea ridicata a extractorului Unior.

Durabilitate superioara

Extractoare pentru rulmenti UNIOR, disponibile cu doua, trei sau cinci brate reglabile, inertiale sau cu mandrina, plus alte cateva modele, sunt realizate din otel carbon de scule. Procedeul special de forjare le garanteaza o durabilitate superioara.

Usor de folosit

Extractoarele Unior asigura siguranta si eficienta in schimbarea rulmentilor, bucsilor si pinioanelor. Toate extractoarele sunt simplu de utilizat, flexibile si extrem de robuste.



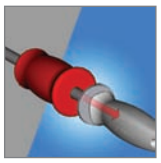
Caracteristicile extractoarelor Unior

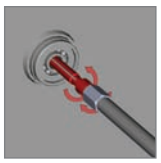
- suprafata brunata
- surubul tratat integral
- material: otel carbon de scule
- brate reglabile in doua pozitii
- corpul, surubul forjate
- acoperire: zincare

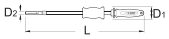
689/2BI

Extractor inertial

- *material: otel special de scule*
- *maner ergonomic rezistent bimaterial*
- *finisarea suprafetei: acoperire cromare conform EN12540*
- *forjare, calire si intarire totala*
- *Este folosit pentru extragerea diferitelor tipuri de rulmenti.*
- *Rulmentul este blocat la partea interioara si extras*
- *rulmentul este extras cu o greutate de 1 kg*
- *Set de 6 piese ale extractorului inertial. Dimensiuni: 7-9,10-12, 12-15, 17-22, 22-28, 30-36*

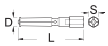




	D1	D2 ↓	D2 ↑	L ↓	L ↑			
622587	52	7	36	495	555	3300	F	995.59

689.1/4

Brat pentru 689/2BI

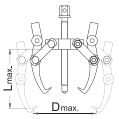
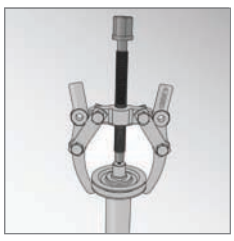



	D	L	S			
623089	7 - 9	81	14	45	E	73.61
623090	10 - 12	83	14	51	E	73.83
623091	12 - 15	92	14	67	E	74.58
623092	17 - 22	102,5	14	136	E	102.08
623093	22 - 28	125	17	276	E	121.70
623094	30 - 36	140	22	500	E	164.91

680/5

Extractoare cu doua brate reglabile

- *material: otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: zincare conform standard 12329, surubul brunat*
- *bratele reglabile in doua pozitii*
- *gheara extractoare se pozitioneaza sub partea de extras*

№	L ↑	D ↑			
612603	0	90	90	405	H	148.76

№	L ↑	D ↑			
601762	1	160	130	915	H	202.31
601763	2	230	190	1905	H	350.99
601764	3	300	250	4075	H	477.18

680/5MS

Set de extractoare cu doua brate reglabile



№				
612655	680/5MS	4	10153	F	1,299.01

680/5 (0 x 90 x 90, 1 x 160 x 130, 2 x 230 x 190, 3 x 300 x 250), **980P2** (240 x 200 x 430)

680.1/4

Surub

- *material: otel special de scule*
- *forjata, tratament termic total*
- *acoperire: brunare*

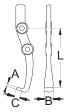



M	L	S			
623062	Tr 10 x 1,5	114	14	75	E	27,90
623063	Tr 14 x 2	173	17	195	E	35,33
623064	Tr 18 x 2	239	22	510	E	47,92
623065	Tr 26 x 3	311	32	1270	E	119,15

680.2/5

Brat

- *material: compozitie speciala pentru calire revenire*
- *forjata, tratat complet*
- *acoperire: zincare conform standardului DIN EN 12329*

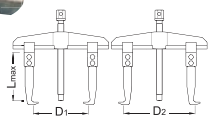
L	A	B	C			
623069	70	2,6	10	7,5	56	E	15.49
623070	105	3,5	15,5	10	155	E	19.84
623071	170	6,5	19	20	352	E	31.99
623072	220	7	22	22,5	700	E	61.91

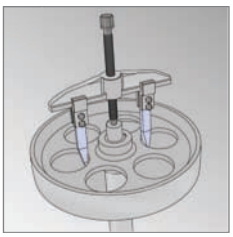
681/5

Extractoare cu doua brate glisante

- *material: otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: zincare conform standard DIN EN 12329, surubul brumat*
- *design rigid si robust pentru lucrari dificile*
- *prin intoarcerea bratelor extractorul poate fi de interior sau de exterior*







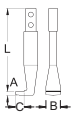
	№	B	D1	D2	L T			
601765	300	280	70 - 220	110 - 260	150	3355	H	**504.59**
601766	400	450	110 - 360	190 - 450	200	8725	H	**910.01**

681.2/5

Brat

- *material: otel special de scule*
- *forjat, tratat complet*
- *acoperire: zincare conform standard DIN EN 12329*





	L	A	B	C			
623073	142	8	25	15	327	E	**36.92**
623074	180	13	40	24	768	E	**72.82**

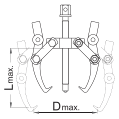


682/5

Extractoare cu trei brate reglabile

- *material: otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: zincare conform standard DIN EN 12329, surubul brumat*
- *bratele reglabile in doua pozitii*
- *gheara extractoare se pozitioneaza sub partea de extras*





	№	L T	D T			
612604	0	90	90	305	H	**196.68**
601767	1	160	130	1725	H	**242.35**
601768	2	230	190	2570	H	**404.18**
601769	3	300	250	5100	H	**593.74**

682/5MS

Set de extractoare cu trei brate reglabile



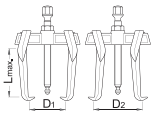
	№				
622805	**682/5MS**	4	11850	K	**1,917.87**
	682/5 (0 x 90 x 90, 1 x 160 x 130, 2 x 230 x 190, 3 x 300 x 250), **980P3A** (283 x 329 x 428)				

683/2

Extractoare cu doua brate glisante

- *material: otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: cromare conform standard EN 12540, surubul brumat*
- *gheara extractoare se pozicioneaza sub partea de extras*





	№	L	D1	D2			
615076	60	90	65	50 - 90	325	H	**218.24**
615077	90	90	90	50 - 110	395	H	**233.82**
615078	130	140	130	80 - 140	1125	H	**310.20**
615079	180	140	180	80 - 180	1225	H	**377.04**
615080	250	195	250	130 - 250	4025	H	**584.06**
615081	350	195	350	130 - 350	4525	H	**656.74**

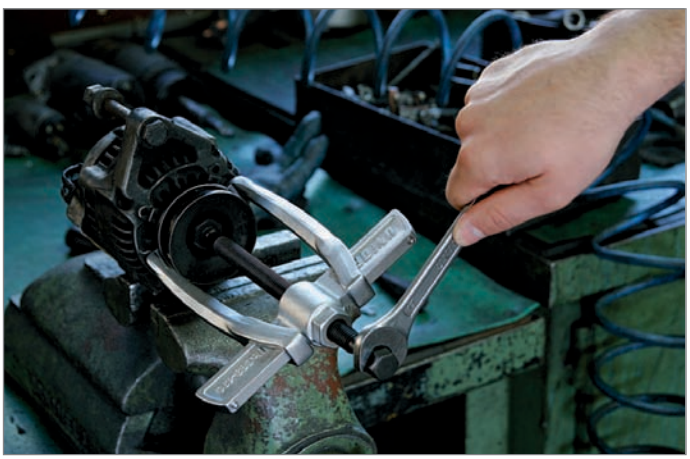
683/2MS

Set de extractoare cu doua brate glisante



	№				
615082	**683/2MS**	6	13859	F	**2,560.76**

683/2 (60, 90, 130, 180, 250, 350), **980P2S** (240 x 250 x 430)

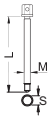


683.1/4

Surub

- *material: otel special de scule*
- *acoperire: brumare*





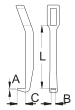
	M	L	S			
623066	Tr 10 x 1,5	134	14	85	E	**31.42**
623067	Tr 14 x 2	201	17	250	E	**40.44**
623068	Tr 26 x 3	286	32	1180	E	**86.59**

683.2/2

Brat

- *material: compozitie speciala pentru calire revenire*
- *forjat, tratat complet*
- *acoperire: cromata in concordanta cu standardul EN 12540*





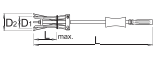
	L	A	B	C			
623075	90	1,1	8	10	98	E	**21.38**
623076	140	2	12	15	240	E	**42.02**
623077	195	3	16	22	812	E	**104.24**

685/5

Extractor inertial

- *material: otel special de scule*
- *ghearele forjate, tratate*
- *falcile tratate prin inductie*
- *acoperire: zincare conform standard DIN EN 12329, surubul brumat*
- *utilizat pentru locuri greu accesibile*
- *set de brate pentru diametre mici si mari*
- *maner ergonomic, rezistent, bimaterial*





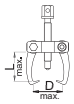
	D1	D2	L	L			
601771	30 - 80	120 - 180	125	600	2625	H	**725.38**

687/5

Extractoare cu cinci brate reglabile

- *material: otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire: zincare conform standard 12329 surubul brumat*
- *design rigid si robust pentru lucrari dificile*





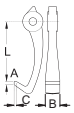
	L	D			
602848	120	47	1015	H	483.78

687.2/5

Brat

- *material: compozitie speciala pentru calire revenire*
- *forjat, tratat complet*
- *acoperire: zincare conform standard DIN EN 12329*





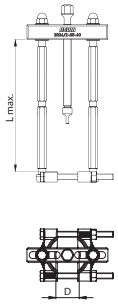
	L	A	B	C			
623078	64	1	15,5	2,5	87	E	27.68

2026/2

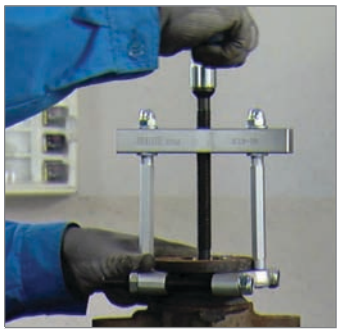
Extractor

- *Extractorul este destinat la demontarea usoara a diverselor componente de pe axe*
- *Este indispensabil pentru demontarile sigure si fara deformari ale componentelor fixate pe diverse parti ale masinii*
- *Extractorul este compus din jug, surub, doua brate si un ansamblu de blocare care toate in ansamblu permit o demontare uniforma*
- *Gama acestui produs cuprinde tri dimensiuni de extractoare utilizate pentru extragerea pieselor de pe arbori de la Ø5mm la Ø115mm*
- *Extractorul asigura lucrul eficient si in siguranta*
- *Extractorul este confectionat din otel de inalta calitate.*
- *Protectia surubului: brunat, celelalte elemente sunt cromate*





	D	L			
619273	5 - 60	229	2160	G	615.30
619274	12 - 75	234	2930	G	671.04
619275	22 - 115	325	7180	G	1,079.32







Producator European din 1919

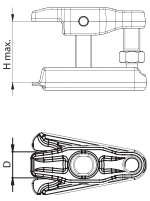
2032/2

Extractor de pivoti

- *material: otel carbon*
- *capacitate falci: 23 mm*
- *cursa maxima: 53 mm*
- *pentru extragerea pivotilor de la mecanismul de suspensie*
- *pentru extragere pivoti. Capacitatea extractoului la prindere 23 mm*



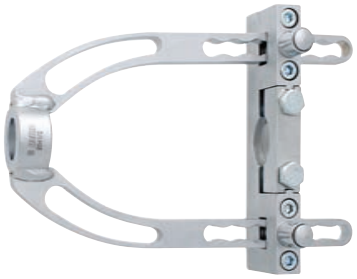


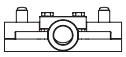


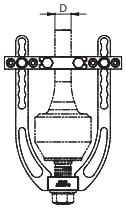
	D	H			
619736	23	53	780	G	**280.28**

Dispozitiv de extras garnituri de instalatie homocinetice

- *Extractorul este folosit la demontarea si repararea garniturilor homocinetice de dimensiuni variate. Inainte de a demonta garnitura, verificati daca articulatiile homocinetice pot fi deontate. Intai, indepartati capacul mobil si apoi introduceti articulatia in inel si, prin pozitionarea capacului ajustabil fixati articulatia in extractor. Articulatia homocinetica include o piulita care poate fi folosita la insurubarea sau desurubarea articulatiei. Inainte de a insuruba piulita, indepartati inelul de siguranta care sustine partea superioara si inferioara a articulatiei. Prin apasarea simultana a doua butoane, suportul poate fi ajustat la lungimea potrivita a articulatiei. Avantaje: Scula poate fi folosita la masini, nu deterioreaza articulatia, scurteaza timpul de demontare a articulatiei etc.*









	D			
620232	18 - 36	2130	G	**735.28**

2038

Extractor pentru inele interioare ale rulmentilor

- *Este folosit pentru a extrage usor, rapid si fara murdarie rulmentii interiori din butucul rotii. Scula este conceputa pentru a inlatura inelul de rulare al rulmentilor interiori fara riscul deteriorarii fara a avea nevoie de nici o alta scula cum ar fi pile, ciocane sau clesti. Scula are 4 bucse de urmarire care sunt folosite pentru a inlatura inelele de rulare ale rulmentilor interiori cu diametre de la 40 pana la 60 mm. Bucsa de urmarire strange inelul de rulare ferm si in felul acesta evita orice posibil derapaj. Scula poate fi folosita pentru: AUdi, BMW, Ford, Mercedes-Benz, Peugeot, Renault, Toyota, VW etc.*
- *cu 4 falci; dimensiunea 1 - de la 40 la 45, dimensiunea 2 - de la 45 la 50, dimensiunea 3 - de la 50 la 55, dimensiunea 4 - de la 55 la 60*











620228	3585	G	**1,922.14**

2051/4

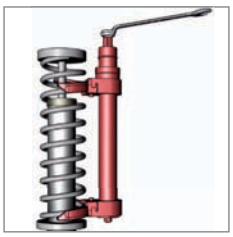
Scula pentru demontarea amortizoarelor si suspensiilor

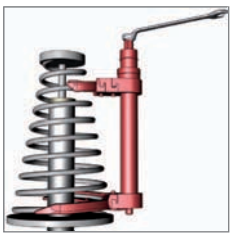
Utilizare:

1. Alegeti ghearele adecvate
2. Atasati-le pe arc
3. START comprimati arcul

- *Aceasta scula profesionala sub nr art 2051 destinata comprimarii arcurilor si dem-antarii suspensiilor McPherson. Are 3 seturi de gheare pentru diversitatea tipurilor existente.Demontarea arcurilor cere o forta mare si este riscanta, fapt pentru care s-a creat aceasta scula.Ghearele sunt ferm atasate de arc in timpul lucrului. Incarcarea recomandata 9000 N. Incarcarea maxima 37000 N*
- *Scula se livreaza in cutie de plastic pentru siguranta si transport usor.*
- *in set 2 gheare 80-115, 2 gheare 110-150 si 2 gheare 140-195*





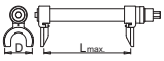












	L		D			
619279	300	21	80 - 195	14600	G	**2,386.69**

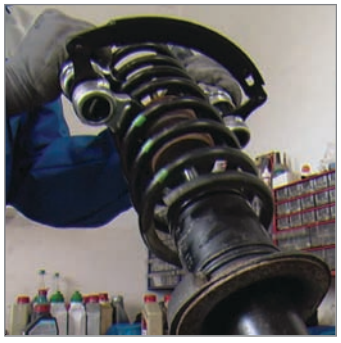
2052/4

Scula pentru demontarea arcurilor, varianta usoara

- *pentru schimbare arcuri*
- *incarcarea max pana la 11000 N*
- *Unior are sistemul de la art 2051, dar autoturismele mai mici nu au nevoie de un dispozitiv asa de mare fapt ce a dus la creerea acestui art. Cu aceiasi functiona-litate ce art 2051 dar incarcarea recomandata este de 2750 N. Are un element de protectie suplimentar care sa permita lucrul intotdeauna paralel*







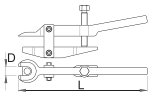
619733	19	4070	G	**1,007,49**

686/5

Extractor profesional pentru pivoti

- *material: otel special pentru scule*
- *forjata, calire si revenire totala*
- *acoperire: zincare conform standardului 12329, surubul brumat*
- *pentru masini*







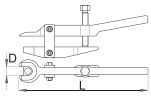
	D	L			
601772	16	260	925	H	**235.40**

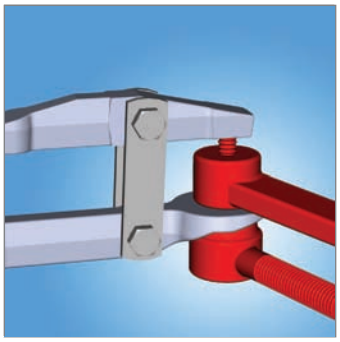
686/5A

Extractor profesional pentru pivoti

- *material: otel special pentru scule*
- *forjata, calire si revenire totala*
- *acoperire: zincare conform standardului 12329, surubul brumat*
- *pentru camioane*







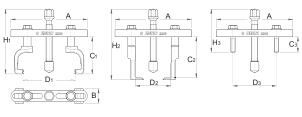
	D	L			
602369	18	260	1055	H	**273.28**

2208

Extractor ramificat pentru scripeti

- *Extractorul este folosit pentru demontarea scripetilor de forme diferite, folositi mai ales petru autovehicule pentru persoane. Scula este potrivita pentru scripeti cu urmatoarele diametre: min 45mm; max 235mm. Extractorul este folosit la indepartarea scripetilor din zonele greu accesibile, si in special fara rscul de a deteriora scripetele. Scula are 2 tipuri de gheare de extragere, care se potrivesc pentru mai multe tipuri de scripeti.*







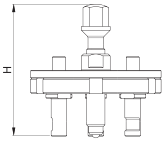
	A	B	C1	C2	C3	D1	D2	D3	H1	H2	H3			
620223	171	32	60 - 82.5	69 - 91	34	80 - 150	40 - 120	40 - 150	200	213	152	2340	G	**991.28**

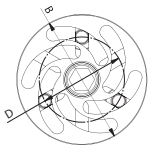
2210/2

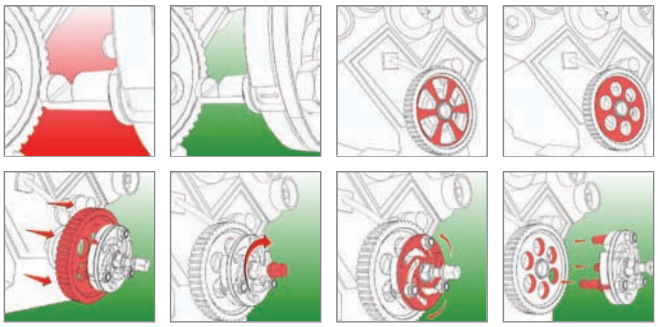
Extractor volante

- *material: otel carbon*
- *capul cheii este tratat in intregime*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *Scula este destinata inlocuirii volantelor cu suprafata canelata.*
- *Se executa demontarea fara niciun pericol de deteriorare a volantului.*
- *Scula este reglabila pe diverse diametre, ca si bratele reglabile*
- *pentru inlocuirea rotilor cu 3,6,9 canale*









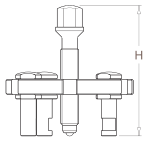
	B	D	H			
620226	100	48 - 82	135	1085	G	**268.58**

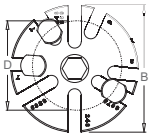
2210/2A

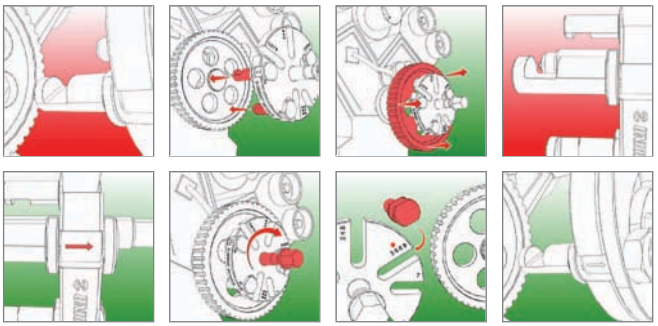
Extractor universal pentru roata distributie

- *material: otel carbon*
- *capul cheii este tratat in intregime*
- *acoperire: cromare in conformitatecu EN 12540, surubul brumat*
- *pentru inlocuirea tuturor tipurilor de roti (2, 3, 4, 5, 6, 7, 8, 9 canale)*



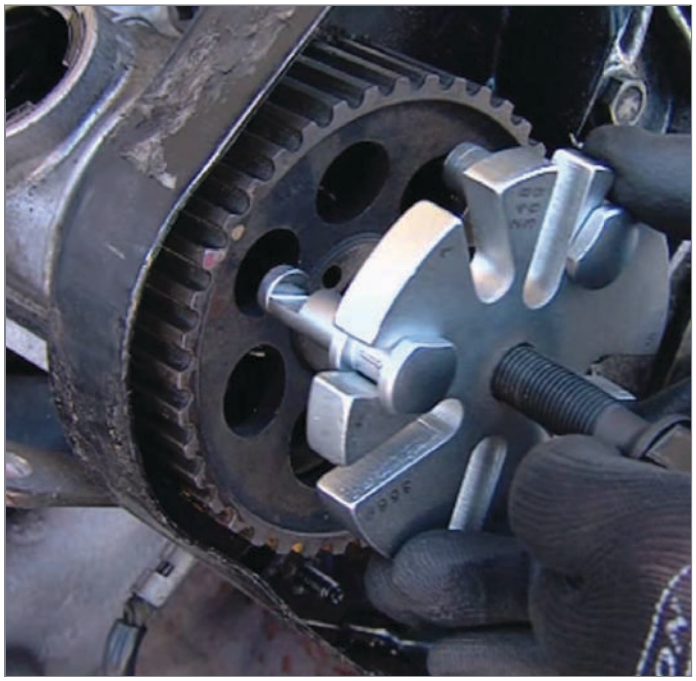






	B	D	H			
621780	100	48 - 82	135	750	G	**301.36**





Ciocane, punctatoare si dalti

O procedura speciala pentru fabricarea ciocanelor

CIOCAN

1. **Debitarea:**
   otelul plat este debitat pe o presa cu ajutorul unei stante ; acuratetea taierii asigura un consum minim de material



2. **Forjarea:**
   forjarea este clasica la cald permitand obtinerea formei dorite.Fibrajul corespunzator curgerii materialului in matrita asigura obtinerea de proprietati mecanice foarte bune.

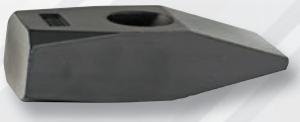
3. **Debavurarea:**
   inlaturarea surplusului de material.



4. **Brosarea:**
   dimensiunea dorita a ciocanului se obtine prin brosare.

5. **Tratamentul termic prin inductie:**
   tratamentul termic prin inductie a partilor de lovire asigura o duritate mare a ciocanului si o microstructura corespunzatoare care confera ciocanului o durata de utilizare foarte lunga.

6. **Vopsirea:**
   un strat de vopsea de protectie se realizeaza prin vopsirea in camp electrostatic.



MANERUL

7. Manerul este confectionat din lemn de frasin selectionat care indeplineste cerintele DIN 68340 si este protejat cu un lac incolor.

8. **Marcarea:**
   Marcajul cu culoare albastra care aminteste utilizatorului modul de utilizare corecta.

ANSAMBLAREA

9. **Ansamblarea finala:**
   componentele sunt imbinate de operator obtinand un produs de inalta calitate.





Design ergonomic

Utilitatea lor uzuală - a bate cuie - a fost reprodusă de multă vreme de alte tipuri de ciocane şi alte scule de bătut. Gama originală de ciocane cu mâner de lemn a fost depăşită de sculele cu mânere de metal, izolate suplimentar cu un înveliş de plastic. Ciocanele Unior au un înveliş de plastic proiectat în mod ergonomic, pentru a îmbunătăţi prinderea şi de a asigura o utilizare sigură.

Material de înaltă calitate

Realizate din oţel carbon pentru scule de înaltă calitate, ciocanele Unior au o suprafaţă de lovire şi ciocănire întărită prin inducţie. Superioritatea materialelor şi stadiul tehnicii de fabricare sunt două calităţi ce deosebesc nu doar ciocanele, dar şi alte scule de lovire Unior, precum dălţile forjate şi diversele perforatoare.

Precizie

Scopul utilizării generale al ciocanelor sau al ciocanelor de zidar, construcţie, pentru lăcătuşi şi a altor ciocane cu utilizare specifică este de a transfera în mod eficient puterea activă într-un punct ţintă precis.


Ciocan de mecanic 214 - 216


Baros 216


Ciocane de masa plastica 217 - 218


Punctatoare 218 - 221


Dalti 221 - 223



UNIOR®

812

Ciocane lacatuserie

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*
- *in concordanta cu standard DIN 1041*





	gr	L			
601796	100	260	145	C	**31,94**
601797	150	280	225	C	**33,97**
601799	200	280	280	C	**35,46**
601801	250	300	340	C	**38,85**
601802	300	300	380	C	**41,76**
601803	400	310	487	C	**46,55**
601804	500	320	625	C	**50,03**
601805	600	330	720	C	**60,28**
601806	800	350	955	C	**70,58**
601807	1000	360	1150	C	**85,40**
601808	1250	380	1430	C	**109,78**
601809	1500	380	1690	C	**119,46**
601810	2000	400	2195	C	**128,08**

812A

Ciocane lacatuserie LSI super

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *coada din lemn de frasin cu bucsa de protectie din plastic si pana ovala*
- *in concordanta cu standard DIN 1041*





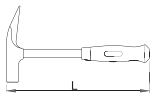
	gr	L			
602536	200	280	275	C	**45,80**
602537	300	300	380	C	**54,30**
602538	500	320	646	C	**66,40**
602539	800	350	960	C	**88,04**
603164	1000	360	1170	C	**125,22**

805A

Ciocane dulgher

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner metalic rotund cromat cu manson de prindere de plastic*
- *in conformitate cu standardul DIN 7239*
- *cu magnet*





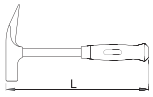
	gr	L			
605516	550	320	825	C	**131,87**

805

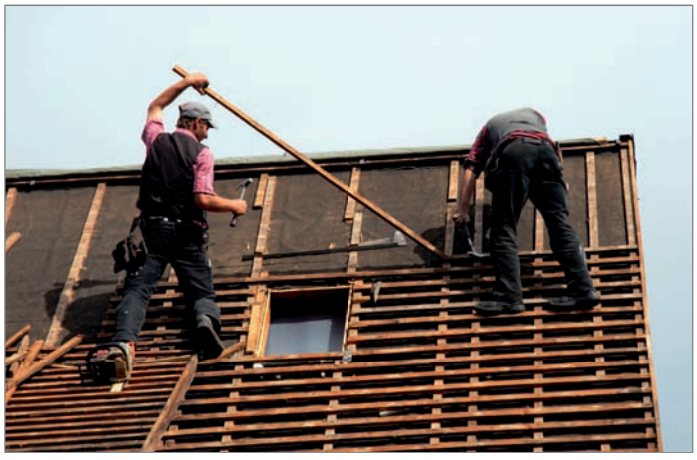
Ciocane dulgher

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner metalic rotund cromat cu manson de prindere de plastic*
- *in conformitate cu standardul DIN 7239*





	gr	L			
601824	550	320	825	C	**109,78**



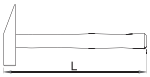


810

Ciocane de zidarie

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*





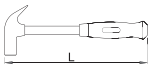
	gr	L			
601826	700	320	880	C	**74,05**

813

Ciocane cu varf spintecat

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner metalic rotund cromat cu manson de prindere de plastic*





	gr	L			
601828	500	300	725	C	**125,93**

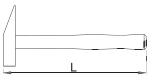
830

Ciocan de sudor

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*







	gr	L			
601838	400	320	560	C	**77,44**

806

Ciocane cu capete rotunde

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *manere din lemn de frasin*





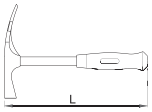
	gr	L			
612221	340	323	470	C	**59,80**
612222	454	348	605	C	**68,24**
612223	680	398	960	C	**86,37**
612224	910	398	1165	C	**93,63**

809

Ciocane de zidarie

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner metalic rotund cromat cu manson de prindere de plastic*





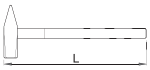
	gr	L			
601825	650	300	851	C	**115,19**

816

Ciocane de mana

- *material: otel carbon*
- *forjat*
- *partea de lovire si varful tratate*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*
- *in concordanta cu standard DIN 1042*





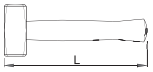
	gr	L			
601812	3000	600	3395	C	**181,94**
601813	4000	700	4395	C	**202,44**
601814	5000	800	5595	C	**235,31**
601816	8000	900	8995	C	**357,63**

817

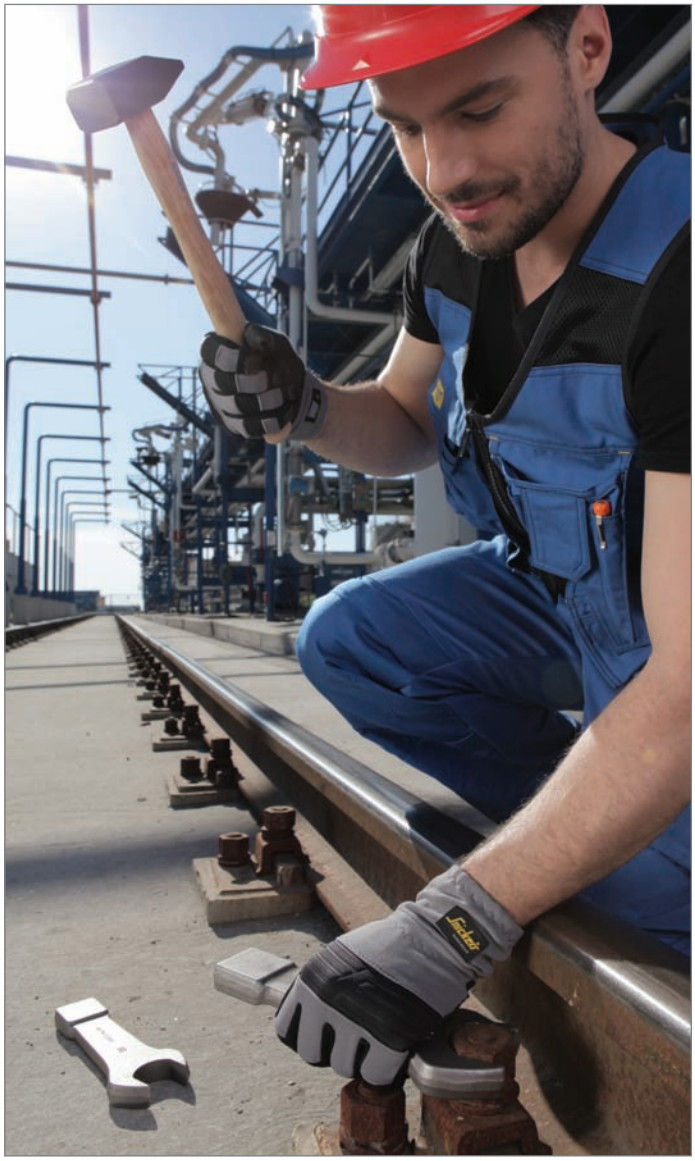
Baroase

- *material: otel carbon*
- *forjat*
- *partile de lovire tratata prin inductie*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*
- *in conformitate cu standardul DIN 6475*





	gr	L			
601840	1000	260	1065	C	**73,00**
601841	1250	260	1305	C	**83,42**
601842	1500	280	1525	C	**98,34**
601843	2000	300	2050	C	**118,98**



818

Ciocane de mana

- *material: otel carbon*
- *forjat*
- *partile de lovire tratata prin inductie*
- *acoperire: vopsite*
- *maner din lemn de frasin cu pana ovala speciala*
- *in conformitate cu standardul DIN 6475*





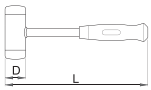
	gr	L			
601844	3000	600	3455	C	**160,56**
601845	4000	700	4595	C	**170,28**
601847	5000	800	5720	C	**193,47**
601848	6000	800	6570	C	**229,55**
601849	8000	900	9195	C	**270,82**
601850	10000	900	10595	C	**353,98**

819A

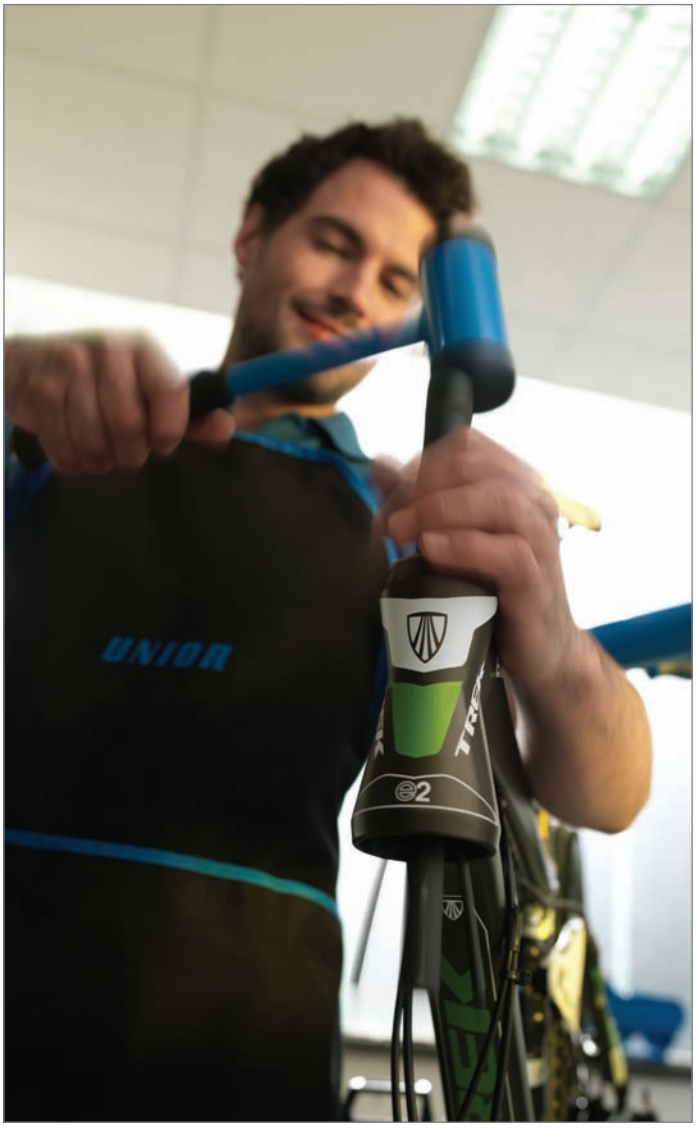
Ciocan masa plastica

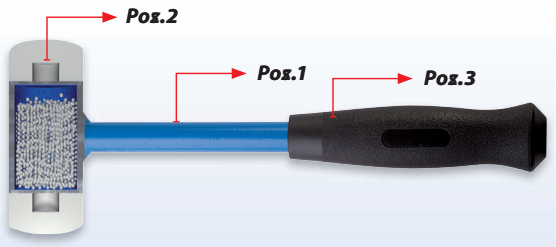
- *fara recul*
- *corpul metalic vopsit*
- *maner metalic tubular vopsit, cu prinderea din plastic*
- *insertii aplicate din poliuretan*
- *securitate ridicata*





	D	L			
615034	45	315	866	C	**113,92**





STRUCTURA SI MATERIAL:

- *Ciocanul se compune din manerul turnat (Poz. 1), accesoriul (Poz. 2) si maner (Poz. 3). Partea turnata a manerului este confectionata din otel aliat care ii confera o mare tenacitate si rezistenta mecanica sporita, putand prelua socuri mari. Suprafata este protejata prin vopsire in camp electrostatic ceea ce ii confera rezistenta sporita la deteriorari ale suprafetei. Accesoriul este confectionat din material plastic special care se caracterizeaza prin rezistenta la produse din ulei si preia socuri puternice ale loviturii. Manerul este confectionat dintr-un material plastic special placut la atingere si cu proprietati antialunecare in mana. Forma ergonomica asigura o strangere sigura in mana.*

MOD DE UTILIZARE:

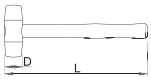
- *Ciocanul este folosit pentru loviri, ajustari, deplasarea diverselor obiecte care nu trebuie lovite dur. Acest tip are avantajul fata de ciocanele de plastic clasice faptul ca lovitura nu are recul fata de suprafata lovita, forta de lovire a acestuia fi ind mai mare.*

820

Ciocan masa plastica

- *material: celidor, duritate 60-70 shore D*
- *rezistent la ulei*
- *cap turnat gri*
- *maner de lemn vopsit*
- *recomandat pentru lucrari pe materiale moi si usoare*





	D	L			
601832	22	260	165	C	**35,24**
601833	27	280	245	C	**41,32**
601834	32	300	321	C	**54,60**
601835	40	320	565	C	**74,93**
601836	50	360	830	C	**102,52**
601837	60	380	1275	C	**133,10**

820.1

Capete de schimb pentru 820





	D			
602530	22	15	E	**8,93**
602531	27	20	E	**9,33**
602532	32	29	E	**11,44**
602533	40	47	E	**17,12**
602534	50	74	E	**25,30**
602535	60	111	E	**31,99**

820A

Ciocan masa plastica

- *material: poliuretan, duritatea 45 - 55 shore D*
- *rezistent la ulei*
- *cap turnat gri*
- *maner de lemn vopsit*
- *material foarte rezistent ce permite diversitate in utilizare*





	D	L			
605491	22	260	160	C	33,57
605492	27	280	230	C	38,72
605493	32	300	335	C	51,30
605494	40	320	535	C	70,44
605495	50	360	870	C	95,92
605496	60	380	1285	C	124,74

820.1A

Capete de schimb pentru 820A





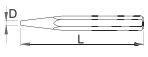
	D			
605503	22	15	E	8,45
605504	27	20	E	8,80
605505	32	30	E	10,38
605506	40	45	E	15,80
605507	50	70	E	23,01
605508	60	113	E	30,32

640/6

Priboi

- *material: crome vanadium*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *in concordanta cu standard DIN 6458*





	D	L			
601702	1	120	64	B	12,01
601703	2	120	69	B	12,01
601704	3	120	70	B	12,01
601705	4	120	72	B	12,01
601706	5	120	73	B	12,01
601707	6	120	75	B	12,01
602665	7	120	104	B	12,94
601708	8	120	108	B	12,94
601709	10	120	139	B	12,94

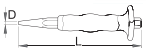
640/6HS

Priboi cu maner

- *material: crom vanadiu*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *maner ergonomic rezistent bimaterial*
- *in concordanta cu standard DIN 6458*







	D	L			
619752	2	120	81	B	26,66
619753	3	120	81	B	26,66
619754	4	120	83	B	26,66
619755	5	120	85	B	26,66
619756	6	120	86	B	26,66
619757	8	120	90	B	26,66

640/6HSPB

Set de priboaie in cutie de plastic

- *Dimensiunea cutiei: 197 x 167 x 47*



	№				
619999	640/6HSPB	2 - 8 / 6	685	C	200,46

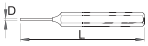
640/6HS (2, 3, 4, 5, 6, 8), **981PBM1** (197 x 167 x 47)

641/6

Dornuri

- *material: crom vanadiu*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *in concordanta cu standard DIN 6450*





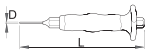
	D	L			
601711	2	150	65	B	**15,80**
601712	3	150	44	B	**15,80**
601713	4	150	73	B	**15,80**
601714	5	150	73	B	**15,80**
601715	6	150	78	B	**15,80**
601716	7	150	108	B	**15,80**
601717	8	150	115	B	**17,69**
601719	10	150	126	B	**17,69**

641/6HS

Dorn cu maner de protectie

- *material: crom vanadiu*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *maner ergonomic rezistent bimaterial*
- *in concordanta cu standard DIN 6450*





	D	L			
619759	2	150	81	B	**28,95**
619760	3	150	76	B	**28,95**
619761	4	150	79	B	**28,95**
619762	5	150	83	B	**28,95**
619763	6	150	86	B	**28,95**
619764	8	150	99	B	**28,95**



641/6HSPB

Set de priboaie cu maner in cutie de plastic

- *Dimensiunea cutiei: 197 x 167 x 47*



	№				
620066	**641/6HSPB**	2 - 8 / 6	680	G	**214,24**

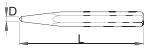
641/6HS (2, 3, 4, 5, 6, 8), **981PBM1** (197 x 167 x 47)

642/6

Punctatoare

- *material: crom vanadiu*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *in conformitate cu standard DIN 7250*





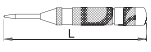
	D	L			
601724	3	100	38	B	**11,22**
601725	4	120	700	B	**12,01**
601726	5	120	700	B	**13,11**

642A

Punctator automat

- *scula din otel*
- *mecanism de percutie , activat prin presare descendenta*
- *dorn interschimbabil, tratat*
- *forta reglabila*
- *acoperire prin nichelare*





		L			
616810	60 - 130	125	70	A	**167,16**

642.1A

Cap de schimb pentru 642A



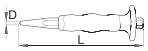
616811	10	E	40,13

642/6HS

Punctator cu maner de protectie

- *material: crom vanadiu*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *maner ergonomic rezistent bimaterial*
- *in conformitate cu standard DIN 7250*





	D	L			
620117	4	120	83	B	24,02
620118	5	120	83	B	25,92

645

Set de dalti si punctatoare



	№				
601739	645	6	525	S	129,18

640/6 (2, 4, 6), 642/6 (3), 660/6A (125), 670/6A (125)

646

Set de dornuri si punctatoare



	№				
601737	646	6	515	S	96,05

640/6 (2, 3, 4, 5, 6), 642/6 (3)

646A

Set de dornuri si punctatoare



	№				
620178	646A	3	260	S	44,57

640/6 (4), 642/6 (3, 4)

647

Set de punctatoare



	№				
601738	647	2 - 8 / 6	575	S	121,22

641/6 (2, 3, 4, 5, 6, 8)

647A

Set de dornuri



	№				
620176	647A	3-5/3	283	S	56,19

641/6 (3, 4, 5)

647B

Set de dornuri



	№				
620177	647B	6 - 10 / 3	390	S	59,84

641/6 (6, 8, 10)

642LPB

Set poansoane litere

- *material: otel carbon de scule*
- *Acoperire: uleiere anticoroziva*
- *set de 27 dornuri cu litere de la A la Z si semnul &*





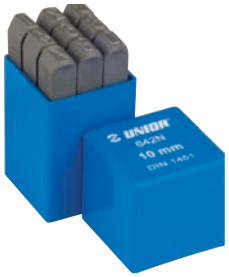
620944	4	650	S	**153,87**
620945	6	1240	S	**185,55**
620946	8	1850	S	**250,54**
620947	10	1385	S	**333,08**

642NPB

Set de poansoane numere

- *material: otel carbon de scule*
- *Acoperire: uleiere anticoroziva*
- *set de 10 dornuri cu numere de la 0 la 9*





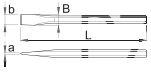
620940	4	220	S	**51,30**
620941	6	420	S	**61,95**
620942	8	643	S	**85,40**
620943	10	800	S	**113,65**

660/6

Dalta lata

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *executie conform standardului DIN 6453*





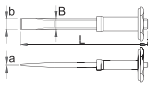
	L	a x b	B			
604267	100	16 x 3	16	90	P	**24,51**
601732	150	19 x 3	19	183	P	**28,12**
604242	175	22 x 3	22	283	P	**34,32**
601733	200	24 x 3	24	388	P	**37,75**
601734	250	26 x 4	24	506	P	**44,48**

660/6HS

Dalta lata cu maner de protectie

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *executie conform standardului DIN 6453*





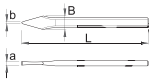
	L	a x b	B			
608484	250	26 x 4	24	615	E	**64,33**

670/6

Dalta cruce

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *conform cu standardul DIN 6541*





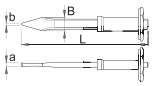
	L	a x b	B			
601747	150	6 x 2	23	172	P	**34,32**
601748	200	7 x 3	30	302	P	**43,52**
601749	250	9 x 4	30	465	P	**52,01**

670/6HS

Dalta lata cu maner de protectie

- *material: crom vanadiu*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire: vopsire*
- *conform cu standardul DIN 6541*





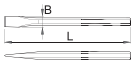
	L	a x b	B			
608485	250	9 x 4	30	545	E	**70,84**

660/6A

Dalta lata cu scetiune hexagonala

- *material:crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*
- *executie conform standardului DIN 7254*





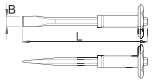
	L	⬢	B			
608554	125	10	12	76	P	**23,41**
608492	250	16	23	403	P	**40,22**
608493	300	18	26	612	P	**49,50**
608494	350	18	26	724	P	**56,50**
608495	400	20	30	1019	P	**70,27**
608496	500	20	30	1236	P	**86,28**

660/6AHS

Dalta lata cu sectiune hexagonala si maner de protectie

- *material:crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*
- *executie conform standardului DIN 7254*





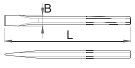
	L	⬢	B			
608497	250	16	23	529	E	**56,50**
608498	300	18	26	758	E	**66,18**
608499	350	18	26	848	E	**73,35**

665/6A

Dalta pentru electricieni

- *material:crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*





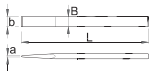
	L	⬢	B			
608500	250	8	10	110	P	**23,98**
608501	250	10	10	160	P	**26,66**

666/6A

Dalta lata

- *material:crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*





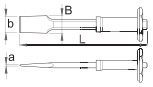
	L	a x b	B			
603477	240	28 x 3	28	315	P	**41,84**

666/6AHS

Dalta lata cu maner de protectie

- *material:crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*





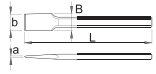
	L	a x b	B			
608503	240	28 x 3	28	459	E	**58,52**

667/6A

Dalta zidarie

- *material:crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*





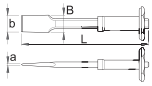
	L	a x b	B			
608671	250	50 x 4	50	480	P	**68,73**

667/6AHS

Dalta zidarie cu maner de protectie

- *material:crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*





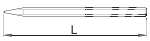
	L	a x b	B			
609286	250	50 x 4	50	625	E	**90,02**

670/6A

Dalta ascutita

- *material:crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*
- *executie in conformitate cu standardul DIN 7256*





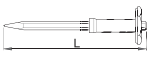
	L				
608555	125	10	72	P	**23,41**
604174	250	16	390	P	**37,18**
608486	300	18	578	P	**46,02**
608487	350	18	696	P	**49,50**
604903	400	20	982	P	**60,37**
608488	500	20	1205	P	**80,70**

670/6AHS

Dalta ascutita cu maner de preotectie

- *material:crome vanadium*
- *forjata*
- *tratat complet*
- *capatul tratat prin inductie*
- *acoperire:vopsire*
- *executie in conformitate cu standardul DIN 7256*





	L				
608489	250	16	532	E	**53,86**
608490	300	18	713	E	**62,48**
608491	350	18	784	E	**66,18**

671HS

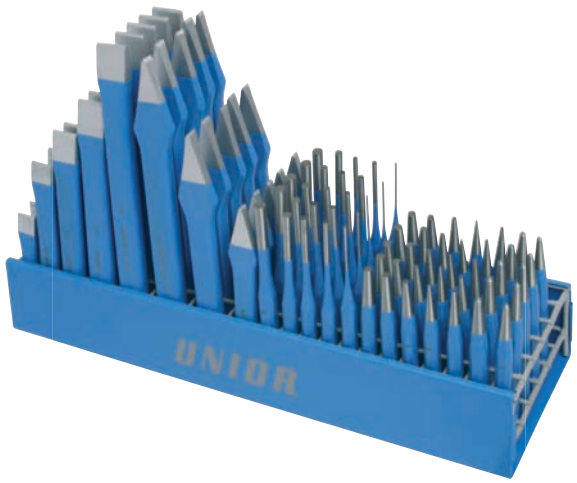
Maner universal pentru dalti



608672	139	E	**19,23**

675

Set de dalti si punctatoare



	№				
611998	**675**	100	14600	K	**2.474,08**

640/6 (2, 3, 4, 5, 6), **641/6** (2, 4, 5, 6, 8),
642/6 (4, 5), **660/6** (100, 150, 200, 250, 175),
670/6 (150, 200, 250), **980F** (410)

675A

Set de dalti in stand metalic



	№				
611997	**675A**	40	14400	K	**1.731,18**

666/6A (240), **670/6A** (125, 250, 300),
660/6A (125, 250, 300), **667/6A** (250), **980G** (530)

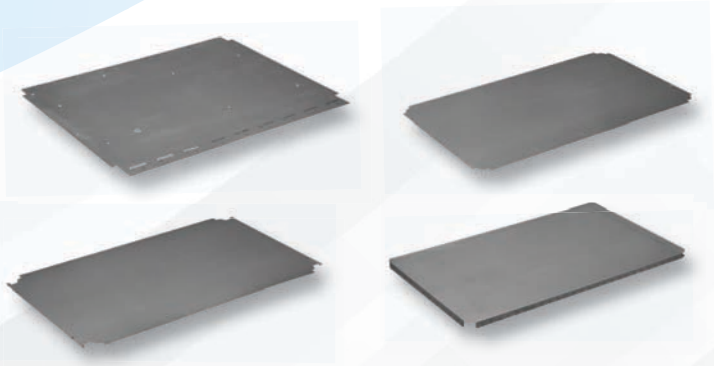
Bancuri de lucru

Pregatirea elementelor pentru montare

1. **Capacul**, jos, stalpul stanga, stalpul dreapta și de perete sunt stantate pornind de la o rolă de tabla si stantate pe CNC, apoi indoite pe o alta masina CNC.

2. **Consola pentru** roata este prima data taiata cu o foarfeca, indoita pe stanta (în două etape), perforata și filetata pentru montarea roții.

3. **Manerul** este stantat pornind de la o rolă de tabla pe o masina de stantat CNC, apoi transferat pe o mașină de îndoit CNC și nituit pe stâlpul în partea stângă.



PRODUCTIA SERTARELOR

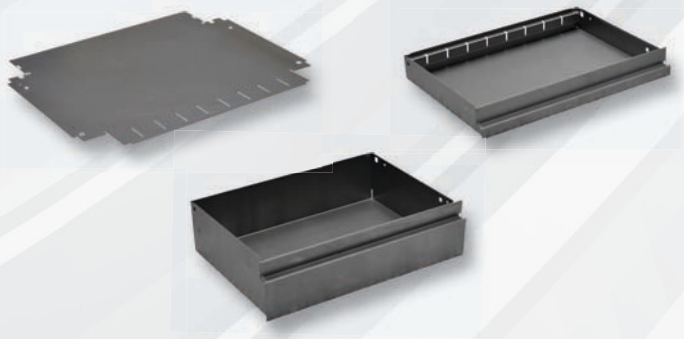
Apoi, toate elementele sunt încărcate într-o celulă robotizata pentru sudare si intreg ansamblul este în întregime sudat înainte de a fi transportat pentru vopsire.

4. **Sertarul 70** este stantat pe o masina CNC apoi indoit de doua ori pe un alt CNC, presat pe un alt post si pozitionat pe un post de sudare automat. Sudarea terminata, sertarul este gata pentru operatia de vopsire.

5. **Sertarul 160** este stantat pe o masina CNC pornind de la o rola de tabla apoi indoit pe un alt CNC, prersat pe un alt post si pozitionat pe un post de sudare automat. Sudarea terminata, sertarul este gata pentru operatia de vopsire.



6. **Tija de ridicare** este tăiat cu laser, folosind o masina de debitat cu laser, presata pe un alt post, transferata pe o mașină de îndoit CNC și apoi transportata pentru acoperirea de suprafata.



După acoperire, toate elementele sunt pregătite pentru asamblare a CART, care se realizează pe linia de asamblare.

Asamblarea include urmatoarele operatii:

- Serigrafierea sertarelor
- Asamblarea sertarelor (tija de ridicare și ghidajele sunt nituite pe sertar și se introduce o căptușeală sintetică)
- Serigrafierea carcasei
- Montarea captuselii sintetice in sertare si deasupra dulapului
- Ansamblarea incuietorii si mecanismului de inchidere
- Nituirea ghidajelor in carcasa
- Introducerea sertarelor
- Examinare de control si introducerea rotilor si manerului in sertar.
- Ambalarea in folie de protectie din polistiren utilizand un post de ambalare automatizat.



7. **Impachetarea finala a produselor**

Design inovator

O cunoastere aprofundata a tuturor cerintelor utilizatorilor profesionisti a dus la crearea unui echipament pentru ateliere capabil sa ofere mare accesibilitate, stocare perfecta si imbunatatirea vizualizarii in orice moment a produselor stocate.

Calitatea tablei de otel

Carucioarele, bancurile, dulapurile si alte echipamente de stocare la fel ca si accesoriile acestora sunt confectionate din tabla de inalta calitate. Vopsirea in camp electrostatic le confera rezistenta la coroziune si julituri, acestea fiind practic indestructibile.

Stocare perfecta

Prin modul de stocare si accesibilitatea usoara, echipamentul de stocare Unior va ajuta sa va tineti atelierul in perfecta ordine si mai ales va permite o crestere a productivitatii muncii.

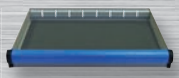



Linia de carucioare - Europlus 227


Linia de carucioare - Eurovision 228 - 229


Carriages line - Eurostyle 229 - 231


Linia de Carucioare de scule - Euromaster, Economic si Hercules 232 - 233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Dulap linia Eurovision 246


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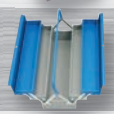

Cutii metalice 247 - 249


Dulapuri 250 - 253

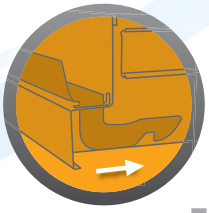

Genti de scule 254


Standuri metalice 255 - 257


Cutii de plastic 257 - 260


Stand de expunere si accesorii 260 - 267

Caracteristicile caruciorului de scule EuroPLUS



Material:
- Tabla perforata
- Sertare cu ghidaje pe rulmenti
- Sertarele cu covoras sintetic pentru protectia sculelor
- Sistem de inchidere
- Mecanism de protectie a inchiderii sertarelor
- Blat multifunctional
- Cauciuc ANTI_SOC
- Vopsire ecologica fara cadmiu si plumb
- Roti de 125 mm diametru ce confera stabilitate si usurinta in deplasare.

Dimensiuni:
- Carucior: 810 x 510 x 945 mm
- Sertar mare: 585 x 405 x 155 mm
- Sertar mic: 585 x 405 x 75 mm

Capacitate:
- Sertar mare: 40 kg
- Capacitatea statica fara roti: 2000 kg



Polita glisanta (290 x 350 mm) poate fi folosita pentru documente sau alte obiecte. Cand nu se foloseste, aceasta se poate plia. Capacitatea incarcare este de 10 kg.

Perete lateral are posibilitate de depozitare.

Muchiile caruciorului sunt placate cu cauciuc anti-soc protejand caruciorul si obiectele inconjuratoare de deteriorari.



Noile ghidaje pe rulmenti ale sertarelor de 400 mm sunt de o calitate superioara fata de cele standard. In acest fel, capacitatea de incarcare a acestora este mai mare cu 10 %, in timp ce sertarele gliseaza lin si usor. Sertarele pot fi scoase printr-o simpla actionare a sigurantei de plastic.



Mecanismul de inchidere a sertarelor previne deschiderea accidentala a acestora.



Covoras anti-alunecare ofera protectie impotriva deteriorarilor si previne aluneca- rea sculelor in sertar.



Rotile rezistente cu diametrul de 125 mm cu frana asigura o buna mobilitate si stabilitate chiar si in conditiile de incarcare maxima. Este extrem de util pentru deplasarea in ateliere sau santiere.

Accesorii:



Suport de hartie
Suportul de hartie este disponibil in doua variante, in ambele hartia fiind usor de folosit. (920 ES4A, 619445).



Despartitoare
Caruciorul EuroPlus are sertare ce pot fi usor compartimentate cu despartitoare de tabla. (920 ES3, 617823).



Perete pentru agatat scule
Suportul din tabla perforata tip perete asigura agatarea sculelor si a altor accesorii, acesta atasandu-se caruciorului EuroPLUS (920.1, 619711).



Suport de scule
Suportii de plastic (965) sau SOS* (964) din spuma de polietilena va mentin sculele in perfecta ordine si le protejeaza impotriva deteriorarilor.

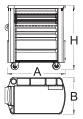
*__SOS__ = **S**afety (Siguranta)
Order (Ordine)
Survey (Supravegere)

920PLUS1

Carucior de scule EUROPLUS

- *sistem de inchidere*
- *noul mecanism de protectie al inchiderii pentru*
- *sertare*
- *raft multi - functional*
- *noile roti diam. 125 mm pentru imbunatatirea*
- *mobilitatii si stabilitatii*
- *cauciuc anti - soc*
- *tabla cu gauri perforate*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *8 sertare(sapte de dimensiuni 585x405x75mm, unul de dimensiuni 585x405x155mm)*
- *capacitatea statica de incarcare a caruciorului fara roti: 2000 kg*
- *capacitate sertare mici: 28 kg*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





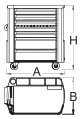
	A	B	H			
617100	910	510	945	72200	K	**4.852,67**

920PLUS2

Carucior de scule EUROPLUS

- *sistem de inchidere*
- *noul mecanism de protectie al inchiderii pentru*
- *sertare*
- *raft multi - functional*
- *noile roti diam. 125 mm pentru imbunatatirea*
- *mobilitatii si stabilitatii*
- *cauciuc anti - soc*
- *tabla cu gauri perforate*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *7 sertare (cinci de dimensiunea de 585x405x75mm, doua de dimensiunea 585x405x155mm)*
- *capacitatea statica de incarcare a caruciorului fara roti: 2000 kg*
- *capacitate sertare mici: 28 kg*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





	A	B	H			
617101	810	510	945	75600	K	**4.598,04**

	№	Europlus	
619711	920.1PLUS	x	**499,66**
Perete de agatare scule pentru 920PLUS			
617823	920ES3	x	**54,38**
Set despartitoare-4 piese			
619446	920ES4A	x	**36,83**
Suport de hartie - pentru rola mare la 920 PLUS			
621019	920ES7	x	**85,36**
Suport sticle pentru cărucior 920PLUS			
619525	920ES8	x	**115,24**
Suport de ABS pentru 920PLUS			
621896	964ASOS	x	**27,63**
Suport gol SOS pentru 920PLUS, 940E și 940EV			
390 - 411			
621897	964BSOS	x	**84,96**
Suport gol SOS pentru 920PLUS, 940E an 940EV			
390 - 411			



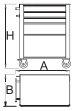


940EV1

Carucior de scule

- *sistem de inchidere*
- *noile roti diam. 125 mm pentru imbunatatirea*
- *mobilitatii si stabilitatii*
- *deschiderea si inchiderea sertarelor este foarte*
- *simpla datorita solutiei noi - manerul sertarului in*
- *pozitia de sus asigura o deblocare usoara si deschi-*
- *derea sertarului.*
- *sertare pe rulmenti*
- *Covoras sintetic antistatic pentru sertare protejeaza*
- *sertarul si sculele din interior*
- *Mecanismul de inchidere al sertarelor asigura deschi-*
- *derea nedorita a acestora*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *Nituri filetate pentru fixarea accesoriilor sunt monta-*
- *te pe carucior.*
- *ridicarea usii cu sistem de inchidere*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate sertare 40 kg*
- *4 sertare(3 de dim.563x365x70mm, 1 sertar de dim. 563x410x150mm)*
- *tabla cu gauri perforate*





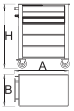
	A	B	H			
619884	720	440	917	44800	K	**2.580,64**

940EV3

Carucior de scule Eurovision

- *sistem de inchidere*
- *noile roti diam. 125 mm pentru imbunatatirea mobilitatii*
- *si stabilitatii*
- *deschiderea si inchiderea sertarelor este foarte simpla*
- *datorita solutiei noi - manerul sertarului in pozitia*
- *de sus asigura o deblocare usoara si deschiderea*
- *sertarului.*
- *sertare pe rulmenti*
- *Covoras sintetic antistatic pentru sertare protejeaza*
- *sertarul si sculele din interior*
- *Mecanismul de inchidere al sertarelor asigura deschi-*
- *derea nedorita a acestora*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *Nituri filetate pentru fixarea accesoriilor sunt montate pe carucior.*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate sertare 40 kg*
- *tabla cu gauri perforate*
- *6 sertare (3 de dimensiunea 563x365x70mm, 3 de dimensiunea 563x410x150mm)*





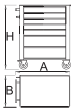
	A	B	H			
621436	720	440	917	51000	K	**2.949,41**

940EV4

Carucior de scule Eurovision

- *sistem de inchidere*
- *noile roti diam. 125 mm pentru imbunatatirea mobilitatii*
- *si stabilitatii*
- *deschiderea si inchiderea sertarelor este foarte simpla*
- *datorita solutiei noi - manerul sertarului in pozitia*
- *de sus asigura o deblocare usoara si deschiderea*
- *sertarului.*
- *sertare pe rulmenti*
- *Covoras sintetic antistatic pentru sertare protejeaza*
- *sertarul si sculele din interior*
- *Mecanismul de inchidere al sertarelor asigura deschi-*
- *derea nedorita a acestora*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *Nituri filetate pentru fixarea accesoriilor sunt montate pe carucior.*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate sertare 40 kg*
- *7 sertare(5 de dim. 563x365x70mm,2 sertare de dim. 563x410x150mm)*
- *tabla cu gauri perforate*





	A	B	H			
619885	720	440	917	57000	K	**3.102,84**

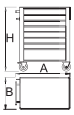


940EV6

Carucior de scule Eurovision

- *sistem de inchidere*
- *noile roti diam. 125 mm pentru imbunatatirea*
- *mobilitatii si stabilitatii*
- *deschiderea si inchiderea sertarelor este foarte*
- *simpla datorita solutiei noi - manerul sertarului in*
- *pozitia de sus asigura o deblocare usoara si deschi-*
- *derea sertarului.*
- *sertare pe rulmenti*
- *Covoras sintetic antistatic pentru sertare protejeaza*
- *sertarul si sculele din interior*
- *Mecanismul de inchidere al sertarelor asigura*
- *deschiderea nedorita a acestora*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *Nituri filetate pentru fixarea accesoriilor sunt mon-*
- *tate pe carucior.*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate sertare 40 kg*
- *8 sertare(7 de dim. 563x365x70mm,1 sertar de dim. 563x410x150mm)*
- *tabla cu gauri perforate*





	A	B	H			
619886	720	440	917	60000	K	3.422,10

	№	Eurovision	
	608925	940ES3	x	40,57
	Set de despărțitoare - 4 piese pentru 940E și 940EV		
	622597	940ES3A	x	85,36
	Set de despartitoare pentru sertarul mic de la 940E si 940EV		
	608969	940ES5	x	68,68
	Suport de documente pentru 940E și 940EV		
	608970	940ES6	x	71,15
	suport pentru 940E și 940EV		
	608971	940ES7	x	58,43
	suport de sticle pentru 940E și 940EV		
	608972	940ES8	x	104,54
	Blat din ABS pentru 940E și 940EV		
	608973	940ES9	x	290,62
	Blat de lemn pentru 940E și 940EV		
	622598	940ES10	x	41,58
	Suport agatare surubelnite pentru 940E si 940EV		
	621896	964ASOS	x	27,63
	Suport gol SOS pentru 920PLUS, 940E și 940EV		
	390 - 411		
	621897	964BSOS	x	84,96
	Suport gol SOS pentru 920PLUS, 940E an 940EV		
	390 - 411		

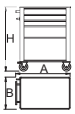
	№	Eurovision	
	620417	940.1EV	x	249,17
	Perete suplimentar pentru 940V		
	620416	940EVS1	x	144,10
	Cos metalic pentru 940EV		
	620418	940EVS4	x	44,18
	Suport de hârtie pentru 940V		
	620419	940EVS7	x	67,36
	Suport pentru sticle pentru 940V		
	608923	940ES1	x	167,07
	Cos de tabla pentru 940E și 940EV		
	608924	940ES2	x	125,14
	Cos din tabla pentru 940E și 940EV		

940E1

Carucior de scule "EUROSTYLE"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *4 sertare(trei de dimensiune 560x365x70, unul*
- *560x400x150mm)*
- *ridicarea usii cu sistem de inchidere*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate sertare 40 kg*
- *tabla cu gauri perforate*





	A	B	H			
608542	720	440	895	42000	K	2.457,75



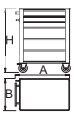


940E3

Carucior de scule "EUROSTYLE"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *6 sertare(trei de dimensiuni 560x365x70mm, trei de dimensiuni 560x400x150mm)*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacit ae sertare 40 kg*
- *tabla cu gauri perforate*





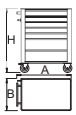
	A	B	H			
608544	720	440	895	48000	K	**2.835,98**

940E4

Carucior de scule "EUROSTYLE"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare(trei de dimensiuni 560x365x70mm, doua de*
- *dimensiuni 560x400x150mm)*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate sertare 40 kg*
- *tabla cu gauri perforate*





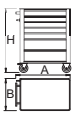
	A	B	H			
608545	720	440	895	52000	K	**2.955,08**

940E4/1L

Carucior de scule "EUROSTYLE"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare(trei de dimensiuni 560x365x70mm, doua de*
- *dimensiuni 560x400x150mm)*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate sertare 40 kg*
- *partea stanga si dreapta au tabla perforata*
- *include 10 carlige de 500mm*
- *partea superioara a caruciorului din ABS*
- *tabla cu gauri perforate*





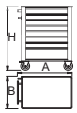
	A	B	H			
612138	720	440	895	60000	K	**3.043,74**

940E6

Carucior de scule "EUROSTYLE"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *8 sertare (7 de dimensiunea 560x365x70mm, 1 de*
- *dimensiunea 560x400x150mm)*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate sertare 40 kg*
- *tabla cu gauri perforate*





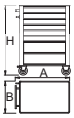
	A	B	H			
608547	720	440	895	56000	K	3.300,04

940E9

Carucior de scule

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *8 sertare(sase de dimensiuni 560x365x70mm, doua*
- *de dimensiuni 560x400x150mm)*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate sertare 40 kg*
- *tabla cu gauri perforate*





	A	B	H			
611757	720	500	975	72000	K	3.558,32



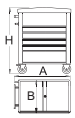
	№	Eurostyle	
608923	940ES1	x	167,07
Cos de tabla pentru 940E și 940EV			
608924	940ES2	x	125,14
Cos din tabla pentru 940E și 940EV			
608925	940ES3	x	40,57
Set de despărțitoare - 4 piese pentru 940E și 940EV			
622597	940ES3A	x	85,36
Set de despartitoare pentru sertarul mic de la 940E si 940EV			
608968	940ES4	x	15,58
Suport de hârtie pentru 940E			
619445	940ES4A	x	22,35
Suport hârtie - rola mare pentru 940E			
608969	940ES5	x	68,68
Suport de documente pentru 940E și 940EV			
608970	940ES6	x	71,15
suport pentru 940E și 940EV			
608971	940ES7	x	58,43
suport de sticle pentru 940E și 940EV			
608972	940ES8	x	104,54
Blat din ABS pentru 940E și 940EV			
622598	940ES10	x	41,58
Suport agatare surubelnite pentru 940E si 940EV			
620416	940EVS1	x	144,10
Cos metalic pentru 940EV			
620418	940EVS4	x	44,18
Suport de hârtie pentru 940V			
620419	940EVS7	x	67,36
Suport pentru sticle pentru 940V			
621896	964ASOS	x	27,63
Suport gol SOS pentru 920PLUS, 940E și 940EV			
390 - 411			
621897	964BSOS	x	84,96
Suport gol SOS pentru 920PLUS, 940E an 940EV			
390 - 411			

940M1

Carucior de scule "EUROMASTER"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *6 sertare(5 de dimensiuni 560x365x70mm, 1 de*
- *dimensiuni 560x400x150mm)*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate de incarcare pe fiecare parte inchis: 80 kg,*
- *deschis - 32 kg*
- *capacitate sertare 40 kg*
- *cu suport pentru sticla si insert de plastic pentru piese mici*
- *tabla cu gauri perforate*





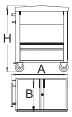
	A	B	H			
612218	730	465	975	58000	K	3.749,94

940M2

Carucior de scule "EUROMASTER"

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *3 sertare(2 dim. 560x365x70mm, 1 dim.*
- *560x365x150mm)*
- *capacitatea statica a caruciorului: 1600 kg*
- *capacitate de incarcare pe fiecare parte inchis: 80 kg, deschis-32 kg*
- *capacitate sertare 40 kg*
- *tabla cu gauri perforate*





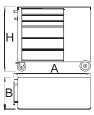
		A	B	H			
612324		730	465	975	40000	K	3.113,62

940H1

Carucior de scule "HERCULES"

- *sistem de inchidere(2 sisteme de inchidere)*
- *4 roti, doua cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare frontale dim. 560x365 mm (5 inalte de 70*
- *mm and 2 inalte de 150 mm)*
- *7 sertare laterale dim. 390x323 mm mm (5 inalte de*
- *70 mm si 2 inalte de 150 mm)*
- *suprafata de lucru de lemn*
- *capacitatea statica a caruciorului: 2300 kg*
- *capacitatea sertarelor mici: 25 kg*
- *capacitatea sertarelor mari: 40 kg*
- *tabla cu gauri perforate*





	A	B	H			
615510	1080	550	955	115600	K	6.256,23

	№	Euromaster	
621896	964ASOS	x	27,63
Suport gol SOS pentru 920PLUS, 940E și 940EV			
390 - 411			
621897	964BSOS	x	84,96
Suport gol SOS pentru 920PLUS, 940E an 940EV			
390 - 411			
608925	940ES3	x	40,57
Set de despărțitoare - 4 piese pentru 940E și 940EV			
622597	940ES3A	x	85,36
Set de despartitoare pentru sertarul mic de la 940E si 940EV			

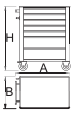
	№	Economic	
617269	940ECOS1	x	39,16
3 buc despartitoare pentru 940ECO			
618460	940ECOES7	x	81,80
Suport de sticla 940ECO			

940ECO

Carucior de scule Economic

- *sistem de inchidere*
- *4 roti, una cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *posibilitate de adaugare accesorii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *tabla cu gauri perforate*
- *6 sertare (4 sertare de dim. 490x275x70mm, 2 sertare de dim. 490x310x150mm)*
- *Capacitatea sertarelor: 30 kg*





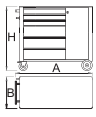
	A	B	H			
617227	700	355	890	33000	K	1.994,43

940H2

Carucior de scule "HERCULES"

- *sistem de inchidere*
- *4 roti, doua cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare frontale dim. 560x365 mm (5 inalte de 70*
- *mm and 2 inalte de 150 mm)*
- *usa cu incuietoare*
- *suprafata de lucru de lemn*
- *capacitatea statica a caruciorului: 2300 kg*
- *capacitatea sertarelor mari: 40 kg*
- *tabla cu gauri perforate*





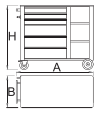
	A	B	H			
615511	1080	550	955	96200	K	5.092,69

940H3

Carucior de scule "HERCULES"

- *sistem de inchidere*
- *4 roti, doua cu frana*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare frontale dim. 560x365 mm (5 inalte de 70 mm and 2 inalte de 150 mm)*
- *o parte cu rafturi*
- *suprafata de lucru de lemn*
- *capacitatea statica a caruciorului: 2300 kg*
- *capacitatea sertarelor mari: 40 kg*
- *tabla cu gauri perforate*





	A	B	H			
615512	1080	550	955	94200	K	**5.006,19**

	№	Herkules	Herkules	
621442	940.1H	x		**435,64**
Polița verticala de scule pentru 940H				
621896	964ASOS	x		**27,63**
Suport gol SOS pentru 920PLUS, 940E și 940EV				
390 - 411				
621897	964BSOS	x		**84,96**
Suport gol SOS pentru 920PLUS, 940E an 940EV				
390 - 411				
608969	940ES5	x		**68,68**
Suport de documente pentru 940E și 940EV				
608971	940ES7	x		**58,43**
suport de sticle pentru 940E și 940EV				
608923	940ES1	x		**167,07**
Cos de tabla pentru 940E și 940EV				
608925	940ES3	x		**40,57**
Set de despărțitoare - 4 piese pentru 940E și 940EV				
608924	940ES2	x		**125,14**
Cos din tabla pentru 940E și 940EV				
622597	940ES3A			**85,36**
Set de despartitoare pentru sertarul mic de la 940E si 940EV				
610932	940HS3			**38,19**
Set de despartitoare - 3 piese pentru 940H				
622882	940.2H2			**189,73**
Usa pentru 940H2				



Parti de schimb

	№			920PLUS	940E	940EV	940ECO	940M	940H	994	946	943P1, 943P2	948	949	938	938V	938M	939	939EV	
	**610159**	D3	585x405x75		x											x				**256,39**
	Sertar mic pentru 940E1-9, 938/3V, 5V																			
	**610160**	D4	585x405x153		x											x				**281,64**
	Sertar mare 940E1-E9, 938/3V, 5V																			
	**613099**	D11	585x612x75								x	x								**219,60**
	Sertar mic pentru 946A																			
	**613098**	D12	585x612x153								x	x								**305,01**
	Sertar mare 946A																			
	**615998**	D13	585x405x75					x	x											**256,39**
	Sertar mic 940H1, H2, H3, 940M1, M2																			
	**615999**	D14	585x405x153					x	x											**281,64**
	Sertar mare 940H1, H2, H3, 940M1, M2																			
	**616000**	D15	415x365x75						x											**218,99**
	Sertar mic, lateral 940H1																			
	**616001**	D16	415x365x153						x											**232,67**
	Sertar mare 940H1																			
	**619521**	D17	585x412x75	x																**256,39**
	Sertar mic 920																			
	**619520**	D18	585x412x155	x																**292,51**
	Sertar mare 920																			
	**620564**	D20	585x413x75			x														**266,73**
	Sertar mic EuroVision																			
	**620563**	D19	585x413x153			x														**295,72**
	Sertar mare EuroVision																			
	**620247**	D20ECO	520x313x75				x													**251,20**
	Sertar mic 940ECO																			
	**620246**	D19ECO	520x313x155				x													**282,22**
	Sertar mare 940ECO																			
	**621663**	D939EV1	585x323x75																x	**256,39**
	Sertar mic pentru cutie de scule Eurovision																			
	**621664**	D939EV2	585x323x153																x	**281,64**
	Sertar mare pentru cutie de scule Eurovision																			
	**610165**	K1	180°	x	x		x	x	x		x	x								**43,43**
	Cheie cu butuc 940E1-9, H1, H2, H3, M1, M2, M3, 940/2, 940/3, 946A																			
	**610233**	K1S	90° + 180°		x			x	x											**86,86**
	Set de doua chei cu butuc																			
	**615004**	K7	90°		x	x		x					x	x	x	x	x	x		**43,43**
	Cheie cu butuc938/3E, 5E, 5M, 5V, 939/3E, 5E, 948E1, E2, E3, 940M1, M2, M3																			
	**619522**	K8	180°	x																**43,43**
	Incuietoare cu cheie 920																			
	**620562**	K9	180°			x													x	**54,12**
	Cheie cu incuietoare Eurovision																			
	610171	R1	345x60x30		x															**65,16**
	Maner 940E1-9																			

	№			920PLUS	940E	940EV	940ECO	940M	940H	994	946	943P1, 943P2	948	949	938	938V	938M	939	939EV	
	610174	R4	490x66x90						x											**103,14**
	Maner 940H1, H2, H3																			
	616002	R5	390x70x25					x												**58,34**
	Maner 940M1, M2, M3																			
	**620565**	R7	375x98x40			x														**68,38**
	Maner EuroVision																			
	**610177**	T2	694x434		x															**28,95**
	Husa sintetica pentru partea superioara 940E1-9																			
	**610180**	T5	560x380					x	x											**29,57**
	Material sintetic pentru sertare 940E1-9, H1, H2, H3, M1, M2, M3																			
	**615247**	T6	560x398					x	x											**29,13**
	Material sintetic pentru sertare 940E-9, H1, H2, H3, M1, M2, M3																			
	**616003**	T7	391x341						x											**29,13**
	Material sintetic pentru sertare																			
	**616004**	T8	391x359						x											**29,13**
	Material sintetic pentru sertare																			
	**616005**	T9	560x591								x									**40,35**
	Material sintetic pentru sertare 946A																			
	**616006**	T10	560x608								x									**45,19**
	Material sintetic pentru sertare 946A																			
	**616007**	T11	589x437					x												**33,35**
	Material sintetic pentru raft 940M1, M2, M3																			
	**620566**	T12	694x434			x														**50,69**
	Covor sintetic pentru EuroVision																			
	**620568**	T13	560x380			x														**34,01**
	Husa sinetica pentru sertarul mic de la EuroVision																			
	**620569**	T14	560x405			x														**35,46**
	Husa sintetica pentru sertarul mare de la EuroVision																			
	**620939**	T920	560x380	x		X														**36,12**
	covor sintetic pentru sertarele mari si mici ale caruciorului Europlus																			
	**621665**	T939EV1	560x294																x	**29,13**
	Invelis pentru sertar mic din material sintetic pentru dulap de scule Eurovision																			
	**621666**	T939EV2	560x317																x	**29,57**
	Invelis pentru sertar mare din material sintetic pentru dulap de scule Eurovision 939EV																			
	**610181**	V1	400		x	x														**101,38**
	Glisiere pe rulmenti 940E1-9																			
	**610182**	V2	350						x											**97,68**
	Glisiere pe rulmenti pentru 940H1																			
	**603664**	V3	400	X				x	x											**101,38**
	Glisiere pe rulmenti pentru 940 H1, H2, H3, 940 M1, M2, M3																			
	**613100**	V4	600								x	x		x						**111,23**
	Glisiera pe rulmenti 946A																			
	**616008**	V5	700					x												**129,98**
	Glisiera pe rulmenti 940M1, M2, M3																			

Accesorii pentru carucioare

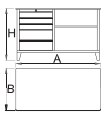
	№			920PLUS	940E	940EV	940ECO	940M	940H	994	946	943P1, 943P2	948	949	938	938V	938M	939	939EV	
	619551	V6	300																	
	Glisiera pe rulment pentru 940ECO						x												x	43,30
	619523	V8	400																	
	Glisiera pe rulmenti pentru 920			x				x	x											101,38
	610183	W1	100																	
	Roata pivotanta cu frana 940E1-9, 940M1, M2, M3, 938/5M				x		x	x		x							x			89,76
	610184	W2	100																	
	Roata pivotanta fara frana pentru 940E1 - E6, 940 M1, M2, M3, 938/5M				x		x	x		x							x			86,86
	610185	W3	100																	
	Roata fixa 940E1-6, 940M1, M2, M3, 938/5M				x		x	x		x							x			86,64
	610188	W6	150																	
	Roata fixa 940/2, /3, 940E9				x															50,20
	610189	W7	160																	
	Roata fixa 940H1, H2, H3								x											70,14
	610190	W8	125																	
	Roata pivotanta cu frana								x											110,00
	610191	W20	100																	
	Set de roti 940E1-6, 940M1, M2, M3, 938/5M				x		x	x		x							x			280,50
	610192	W21	100+150																	
	Set de roti 940E9				x															242,53
	610195	W24	125+160																	
	Set de roti 940H1, H2, H3								x											301,58
	619524	W26	125																	
	Set de roti 920			x		x														280,50

946A

Banc de lucru

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *suprafata de lucru de lemn*
- *5 sertare(3 dim. 560x570x70, 2 dim. 560 x605x150mm*
- *capacitate statica:2300 kg*
- *capacitate sertare:40 kg*
- *tabla cu gauri perforate*



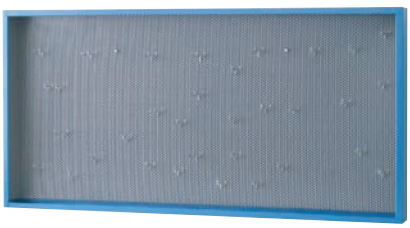


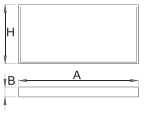
	A	B	H			
612328	1500	750	925	116000	K	6.051,67

946C

Panou pentru banc de lucru pentru 946A

- *tabla cu gauri perforate*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 30 de carlige*





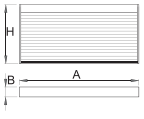
	A	B	H			
612329	1500	125	740	20000	K	1.337,34

946CR

Banc de lucru cu panou si jaluzea orizontala pentru 946A

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 30 de carlige*
- *model CR cu jaluzea si sistem de inchidere*
- *tabla cu gauri perforate*





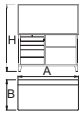
	A	B	H			
612330	1500	125	740	30000	K	3.123,96

946AC

Banc de lucru cu panou

- *combinatie intre bancul de lucru (art.946A) si panoul (art.946C) (Art 946 ACR cu jaluzea)*





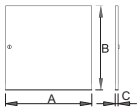
	A	B	H			
612220	1500	750	1665	136000	K	7.389,05

946D

Usa pentru banc de lucru art. 946

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



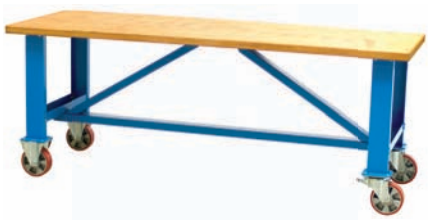


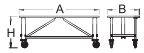
	A	C	B			
613097	665	20	565	3650	K	249,96

946T

Banc de lucru mobil

- *tabla cu gauri perforate*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *Placaj stratificat*
- *protejate prin acoperire ecologica*
- *capacitate dinamica de incarcare: 1000 kg*
- *roti cu diametrul 200mm*





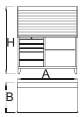
	A	B	H			
621448	2050	750	800	90000	X	3.458,36

946ACR

Banc de lucru cu panou si jaluzea orizontala

- *combinatie intre bancul de lucru (art.946A) si panoul (art. 946C) si jaluzea (art. 946 CR)*





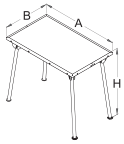
	A	B	H			
612331	1500	750	1665	146000	K	9.175,63

946G

Masa de lucru

- *picioare rabatabile*
- *capacitatea de incarcare statica : 250kg*
- *tabla cu gauri perforate*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *Placaj stratificat*
- *protejate prin acoperire ecologica*





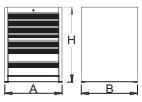
	A	B	H			
621573	1000	600	850	21800	F	771,41

943P1

Dulap mare de scule cu 7 sertare

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare (5 de dim. 560x570x70mm,2 de dim. 560x605x150mm)*
- *Capacitatea sertarelor:40 kg*
- *Posibilitatea de utilizare a modulelor SOS in sertare*
- *tabla cu gauri perforate*





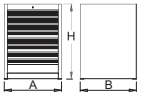
	A	B	H			
618466	665	650	870	69600	K	3.519,91

943P2

Dulap de scule mare – 8 sertare

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *8 sertare(7 de dim 560x570x70mm,1 sertar de dim. 560x605x150mm)*
- *Capacitatea sertarelor: 40 kg*
- *Posibilitatea de utilizare a modulelor SOS in sertare*
- *tabla cu gauri perforate*





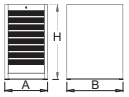
	A	B	H			
618467	665	650	870	74200	K	**3.709,64**

943P4

Dulap de scule mic – 8 sertare

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *8 sertare(7 de dim.390x570x70mm,1 sertar de dim. 390x605x150mm)*
- *Capacitatea sertarelor: 40 kg*
- *Posibilitatea de utilizare a modulelor SOS in sertare*
- *tabla cu gauri perforate*





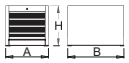
	A	B	H			
618469	495	650	870	63000	K	**3.371,46**

943P6

Dulap de scule – 4 sertare

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *4 sertare de dim. 390x570x70mm*
- *Capacitatea sertarelor: 40 kg*
- *Posibilitatea de utilizare a modulelor SOS in sertare*
- *tabla cu gauri perforate*





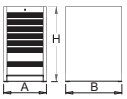
	A	B	H			
618471	495	650	390	31800	K	**2.166,03**

943P3

Dulap de scule mic-7 sertare

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *7 sertare(5 de dim.3 90x570x70mm, 2 sertare de dim. 390x605x150mm)*
- *Capacitatea sertarelor: 40 kg*
- *Posibilitatea de utilizare a modulelor SOS in sertare*
- *tabla cu gauri perforate*





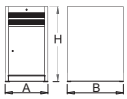
	A	B	H			
618468	495	650	870	59200	K	**3.218,60**

943P5

Dulap de scule-2 sertare si o usa

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *2 sertare de dim. 390x570x70mm*
- *cu usa*
- *Capacitatea sertarelor: 40 kg*
- *Posibilitatea de utilizare a modulelor SOS in sertare*
- *tabla cu gauri perforate*





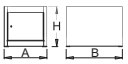
	A	B	H			
618470	495	650	870	37600	K	**2.325,84**

943P7

Dulap pentru banc de lucru modular

- *sistem de inchidere*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu usa*
- *tabla cu gauri perforate*





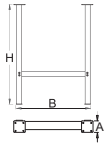
	A	B	H			
618472	495	650	390	9400	K	**1.538,77**

943P8

Suport pentru banc de lucru modular

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *tabla cu gauri perforate*





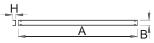
	A	B	H			
618473	100	650	870	7500	K	382,27

943P11

Traversa lunga

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *tabla cu gauri perforate*





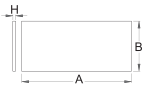
	A	B	H			
618476	1920	70	50	6800	K	270,12

943P9

Blat scurt de lemn pentru banc de lucru modular

- *Placaj stratificat*
- *protejate prin acoperire ecologica*





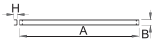
	A	B	H			
618474	1650	750	40	41000	K	1.022,47

943P12

Traversa scurta

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *tabla cu gauri perforate*





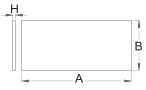
	A	B	H			
618477	1520	70	50	5400	K	250,62

943P10

Blat lung de lemn pentru bancurile modulare

- *Placaj stratificat*
- *protejate prin acoperire ecologica*





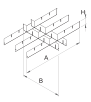
	A	B	H			
618475	2050	750	40	51000	K	1.266,50

943PS1

Set de 5 piese pentru partitionarea dulapurilor de scule 943P1, P2 si 946

- *confectionat din tabla*





	A	B	H			
621401	583	558	60	221	K	63,71

943PS2

Set de 5 piese pentru partitionarea dulapurilor de scule 943P3, P4

- *confectionat din tabla*





	A	B	H			
621402	583	388	60	1092	K	70,05

942A1

Bancuri modulare

- *Bancul modular este o piesa indispensabila a echipamentului atat profesional cat si pentru utilizatorii casnici. Este utilizat ca suprafata de lucru cat si ca spatiu de depozitare in siguranta a sculelor, precum si pentru lucrari mecanice diverse ce pot fi executate pe acesta. Este compus din diverse module care permit variante multiple de bancuri de lucru, dand posibilitatea fiecarui utilizator sa-si creeze un spatiu ideal de munca cu posibilitati multiple functionale. Montarea acestuia este rapida, simpla si sigura. Un sablon este livrat odata cu acesta pentru a permite gaurirea exacta pentru montare. Componentele bancului modular sunt executate din tabla de otel de 3 mm grosime. Suprafata acestora este protejata prin vopsire in camp electrostatic, asigurand protectie la agenti mecanici si atmosferici precum si protectie la agenti chimici. Placa de asezare orizontala este confectionata dintr-un panel masiv stratificat ce asigura rezistenta indelungata la munci cu mare complexitate, fiind protejat printr-o acoperire prin lacuire.*
- *dimensiunile bancului modular: 1650 x 750 x 910*



	№				
619030	942A1	4	61600	X	2.037,68

H **943P8** (100 x 650 x 870),
943P9 (1650 x 750 x 40),
943P12 (1520 x 70 x 50)

942A2

Banc modular



№					
619031	942A2	3	132000	X	6.566,96

943P3 (495 x 650 x 870),
943P5 (495 x 650 x 870),
943P9 (1650 x 750 x 40)

942A5

Banc modular



№					
619034	942A5	3	106200	X	4.623,34

943P3 (495 x 650 x 870),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A8

Banc modular



№					
619037	942A8	4	119200	X	6.315,01

943P4 (495 x 650 x 870),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A3

Banc modular



№					
619032	942A3	3	160000	X	6.719,81

943P4 (495 x 650 x 870),
943P5 (495 x 650 x 870),
943P9 (1650 x 750 x 40)

942A6

Banc modular



№					
619035	942A6	3	109800	X	4.776,24

943P4 (495 x 650 x 870),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A9

Banc modular



№					
619038	942A9	4	113800	X	5.896,66

943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A4

Banc modular



№					
619033	942A4	3	82000	X	3.730,63

943P5 (495 x 650 x 870),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A7

Banc modular



№					
619036	942A7	4	115600	X	6.162,11

943P3 (495 x 650 x 870),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A10

Banc modular



№					
619039	942A10	5	147400	X	8.328,19

943P3 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A11

Banc modular



	№				
619040	942A11	5	151000	X	8.481,04

943P4 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A14

Banc modular



	№				
619043	942A14	3	120800	X	5.114,43

943P2 (665 x 650 x 870),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A17

Banc modular



	№				
619046	942A17	4	126800	X	6.463,47

943P1 (665 x 650 x 870),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A12

Banc modular



	№				
619041	942A12	5	123200	X	7.435,43

943P5 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A15

Banc modular



	№				
619044	942A15	4	149200	X	7.090,73

943P1 (665 x 650 x 870),
943P6 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A18

Banc modular



	№				
619047	942A18	4	130200	X	6.653,11

943P2 (665 x 650 x 870),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A13

Banc modular



	№				
619042	942A13	3	144000	X	4.924,70

943P1 (665 x 650 x 870),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A16

Banc modular



	№				
619045	942A16	4	152600	X	7.280,46

943P2 (665 x 650 x 870),
943P6 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P9 (1650 x 750 x 40)

942A19

Banc modular



	№				
619048	942A19	3	143200	X	6.868,31

943P1 (665 x 650 x 870),
943P5 (495 x 650 x 870),
943P9 (1650 x 750 x 40)

942A20

Banc modular



№					
619049	942A20	3	146600	X	7.058,00

943P2 (665 x 650 x 870),
943P5 (495 x 650 x 870),
943P9 (1650 x 750 x 40)

942A23

Banc modular



№					
619052	942A23	3	171000	X	7.913,88

943P1 (665 x 650 x 870),
943P4 (495 x 650 x 870),
943P9 (1650 x 750 x 40)

944A2

Banc modular



№					
619055	944A2	3	141800	X	6.810,94

943P3 (495 x 650 x 870),
943P5 (495 x 650 x 870),
943P10 (2050 x 750 x 40)

942A21

Banc modular



№					
619050	942A21	3	167400	X	7.760,98

943P1 (665 x 650 x 870),
943P3 (495 x 650 x 870),
943P9 (1650 x 750 x 40)

942A24

Banc modular



№					
619053	942A24	3	174400	X	8.103,61

943P2 (665 x 650 x 870),
943P4 (495 x 650 x 870),
943P9 (1650 x 750 x 40)

944A3

Banc modular



№					
619056	944A3	3	145400	X	6.963,84

943P4 (495 x 650 x 870),
943P5 (495 x 650 x 870),
943P10 (2050 x 750 x 40)

942A22

Banc modular



№					
619051	942A22	3	170800	X	7.950,71

943P2 (665 x 650 x 870),
943P3 (495 x 650 x 870),
943P9 (1650 x 750 x 40)

944A1

Banc modular

- *Bancul modular este o piesa indispensabila a echipamentului atat profesional cat si pentru utilizatorii casnici. Este utilizat ca suprafata de lucru cat si ca spatiu de depozitare in siguranta a sculelor, precum si pentru lucrari mecanice diverse ce pot fi executate pe acesta. Este compus din diverse module care permit variante multiple de bancuri de lucru, dand posibilitatea fiecarui utilizator sa-si creeze un spatiu ideal de munca cu posibilitati multiple functionale. Montarea acestuia este rapida, simpla si sigura. Un sablon este livrat odata cu aesta pentru a permite gaurirea exata pentru montare. Componentele bancului modular sunt executate din tabla de otel de 3 mm grosime. Suprafata acestora este protejata prin vopsire in camp electrostatic, asigurand protectie la agenti mecanici si atmosferici precum si protectie la agenti chimici. Placa de asezare orizontala este confectionata dintr-un panel masiv stratificat ce asigura rezistenta indelungata la munci cu mare complexitate, fiind protejat printr-o acoperire prin lacuire.*
- *dimensiunile bancului modular: 2050 x 750 x 910*



№					
619054	944A1	4	71400	X	2.301,16

943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40),
943P11 (1920 x 70 x 50)

944A4

Banc modular



№					
619057	944A4	3	91800	X	3.974,65

943P5 (495 x 650 x 870),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A5

Banc modular



№					
619058	944A5	3	116000	X	4.867,32

943P3 (495 x 650 x 870),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A6

Banc modular



№					
619059	944A6	3	119600	X	5.020,18

943P4 (495 x 650 x 870),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A7

Banc modular



№					
619060	944A7	4	125400	X	6.406,09

943P3 (495 x 650 x 870),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A8

Banc modular



№					
619061	944A8	4	129000	X	6.558,95

943P4 (495 x 650 x 870),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A9

Banc modular



№					
619062	944A9	4	123600	X	6.140,68

943P5 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A10

Banc modular



№					
619063	944A10	5	196000	X	8.572,12

943P3 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A11

Banc modular



№					
619064	944A11	5	160800	X	8.725,02

943P4 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A12

Banc modular



№					
619065	944A12	5	133000	X	7.679,45

943P5 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A13

Banc modular



№					
619066	944A13	3	127200	X	5.168,68

943P1 (665 x 650 x 870),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A16

Banc modular



№					
619069	944A16	4	162400	X	7.524,44

943P2 (665 x 650 x 870),
943P6 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A19

Banc modular



№					
619072	944A19	3	153000	X	7.112,29

943P1 (665 x 650 x 870),
943P5 (495 x 650 x 870),
943P10 (2050 x 750 x 40)

944A14

Banc modular



№					
619067	944A14	3	130600	X	5.358,36

943P2 (665 x 650 x 870),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A17

Banc modular



№					
619070	944A17	4	136600	X	6.707,40

943P1 (665 x 650 x 870),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A20

Banc modular



№					
619073	944A20	3	156400	X	7.301,98

943P3 (495 x 650 x 870),
943P5 (495 x 650 x 870),
943P10 (2050 x 750 x 40)

944A15

Banc modular



№					
619068	944A15	4	159000	X	7.334,76

943P1 (665 x 650 x 870),
943P6 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A18

Banc modular



№					
619071	944A18	4	140000	X	6.897,13

943P2 (665 x 650 x 870),
943P7 (495 x 650 x 390),
943P8 (100 x 650 x 870),
943P10 (2050 x 750 x 40)

944A21

Banc modular



№					
619074	944A21	3	177200	X	8.005,01

943P1 (665 x 650 x 870),
943P3 (495 x 650 x 870),
943P10 (2050 x 750 x 40)

944A22

Banc modular



№					
619075	944A22	3	180600	X	8.194,69

943P2 (665 x 650 x 870),
943P3 (495 x 650 x 870),
943P10 (2050 x 750 x 40)

944A25

Banc modular



№					
619078	944A25	4	255400	X	12.035,76

943P3 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

944A28

Banc modular



№					
619081	944A28	5	192000	X	11.086,90

943P4 (495 x 650 x 870),
943P7 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

944A23

Banc modular



№					
619076	944A23	3	180800	X	8.157,91

943P1 (665 x 650 x 870),
943P4 (495 x 650 x 870),
943P10 (2050 x 750 x 40)

944A26

Banc modular



№					
619079	944A26	5	188200	X	12.341,56

943P4 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

944A29

Banc modular



№					
619082	944A29	5	188400	X	10.934,04

943P3 (495 x 650 x 870),
943P4 (495 x 650 x 870),
943P7 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

944A24

Banc modular



№					
619077	944A24	3	174400	X	8.347,55

943P2 (665 x 650 x 870),
943P4 (495 x 650 x 870),
943P10 (2050 x 750 x 40)

944A27

Banc modular



№					
619080	944A27	5	252000	X	10.781,14

943P3 (495 x 650 x 870),
943P7 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

944A30

Banc modular



№					
619083	944A30	5	233200	X	12.188,66

943P3 (495 x 650 x 870),
943P4 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

944A31

Banc modular



	№				
619084	944A31	5	210800	X	11.561,31

943P3 (495 x 650 x 870),
943P4 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

944A32

Banc modular



	№				
619085	944A32	5	214400	X	11.714,21

943P4 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

944A33

Banc modular



	№				
619086	944A33	5	207200	X	11.408,45

943P3 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

944A34

Banc modular



	№				
619149	944A34	5	207200	X	10.515,74

943P3 (495 x 650 x 870),
943P5 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P7 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

944A35

Banc modular



	№				
619484	944A35	4	207200	X	8.977,01

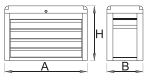
943P3 (495 x 650 x 870),
943P5 (495 x 650 x 870),
943P6 (495 x 650 x 390),
943P10 (2050 x 750 x 40)

939/4EV

Dulap Eurovision - 4 compartimente

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *4 sertare, dim. 560x275x70 mm*
- *tabla cu gauri perforate*
- *Capacitatea sertarelor: 30 kg*





	A	B	H			
620420	690	355	394	24800	K	1.667,16

Producator European din 1919

		№	939/3EV,4EV	
	621400	939EVS3	x	36,17

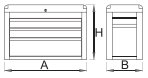
Set de 3 piese pentru partitionarea cutiei de scule Eurovision

939/3EV

Dulap Eurovision - 3 compartimente

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra*
- *deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *3 sertare (2 dim. 560x320x75 mm, 1 dim.*
- *560x315x150mm*
- *tabla cu gauri perforate*
- *Capacitatea sertarelor: 30 kg*





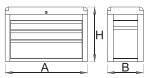
A	B	H			
690	355	394	21600	K	1.583,82

938/3V

Dulap de scule Eurostyle 3 compartimente

- *sistem de inchidere*
- *capac cu incuietoare, cand capacul este inchis sertarele sunt blocate*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *3 sertare,doua dimensiunea 585x405x75, unul de dimensiune 585x405x155*
- *tabla cu gauri perforate*
- *Capacitatea sertarelor: 30 kg*





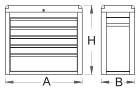
	A	B	H			
615179	695	435	455	25830	K	1.852,80

938/5V

Dulap de scule Eurostyle 5 compartimente

- *sistem de inchidere*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *5 sertare(4 de dimensiunea 563x365x70mm, 1 sertar de dimensiunea 563x400x150 mm*
- *tabla cu gauri perforate*
- *Capacitatea sertarelor: 30 kg*





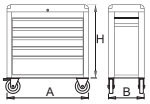
	A	B	H			
618662	695	435	615	37000	K	2.500,61

938/5M

Dulap mobil de scule cu maner

- *sistem de inchidere*
- *capac cu incuietoare, cand capacul este inchis sertarele sunt blocate*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *5 sertare (4 dim. 595x285x75 mm si 1 dim. 595x285x150)*
- *4 roti, una cu frana*
- *tabla cu gauri perforate*
- *Capacitatea sertarelor: 30 kg*





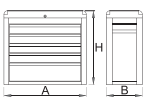
	A	B	H			
612901	695	300	615	29500	K	2.502,76

938/5E

Dulap de scule Eurostyle 5 compartimente

- *sistem de inchidere*
- *capac cu incuietoare, cand capacul este inchis sertarele sunt blocate*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *5 sertare (4 dim. 595x285x75 mm si 1 dim. 595x285x150)*
- *tabla cu gauri perforate*
- *Capacitatea sertarelor: 30 kg*





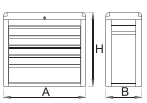
	A	B	H			
612497	685	300	615	25000	K	2.058,67

939/5E

Dulap de scule Eurostyle 5 compartimente

- *sistem de inchidere*
- *capac cu incuietoare, cand capacul este inchis sertarele sunt blocate*
- *sertare pe rulmenti*
- *protectie a sertarelor sintetica si a sculelor contra deteriorarii*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *5 sertare, dimensiunea 560x265x70 mm*
- *tabla cu gauri perforate*
- *Capacitatea sertarelor: 30 kg*





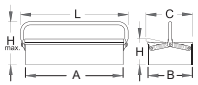
	A	B	H			
611784	685	300	535	25000	K	1.914,62

911/1

Cutie de scule-1 compartiment

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model scurt cu un maner*





	A	B	C	L	H	H			
601907	460	210	220	500	125	220	1806	K	104,68

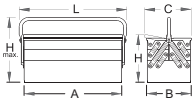
	№	938/3V,5V	
608925	940ES3	x	40,57
Set de despărțitoare - 4 piese pentru 940E și 940EV			
622597	940ES3A	x	85,36
Set de despartitoare pentru sertarul mic de la 940E si 940EV			

911/5

Cutie de scule – 5 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model scurt cu un maner*





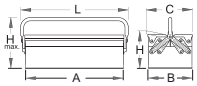
	A	B	C	L	H	H⊼			
601909	460	210	220	500	225	320	3956	K	**207.94**

912/3

Cutie de scule – 3 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model lung cu un maner*





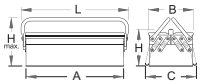
	A	B	C	L	H	H⊼			
601911	560	210	220	600	175	270	3834	K	**204.03**

914/3

Cutie de scule – 3 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model scurt cu doua manere*





	A	B	C	L	H	H⊼			
608538	460	210	235	485	175	225	4075	K	**166.10**

911VSOS

Modul SOS pentru 911

- *material: spuma polietilena de joasa densitate*



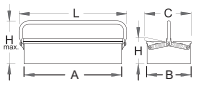
	B	L	H			
622694	95	447	30	26	V	**17.47**

912/1

Cutie de scule – 1 compartiment

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model lung cu un maner*





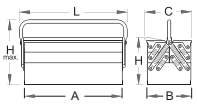
	A	B	C	L	H	H⊼			
601910	560	210	220	600	125	220	2531	K	**132.70**

912/5

Cutie de scule – 5 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model lung cu un maner*





	A	B	C	L	H	H⊼			
601912	560	210	220	600	225	320	5474	K	**255.24**

912VSOS

Model SOS pentru 912

- *material: spuma polietilena de joasa densitate*



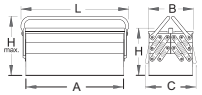
	B	L	H			
622696	95	547	30	27	V	**24.51**

914/5

Cutie de scule – 5 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model scurt cu doua manere*





	A	B	C	L	H	H⊼			
601985	460	210	235	485	225	275	5000	K	**216.35**

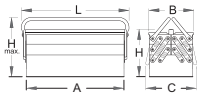


915/5

Cutie de scule – 5 compartimente

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *model lung cu doua manere*



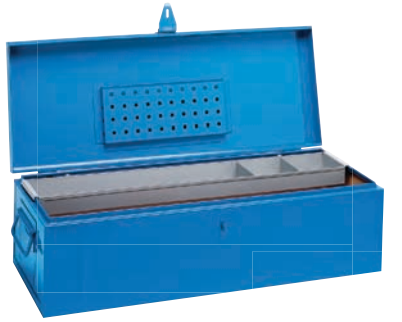


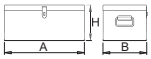
	A	B	C	L	H	H			
607137	560	210	235	585	225	275	6000	K	**247.32**

960/2

Cutie de scule

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *destinata pentru transportul si depozitarea sculelor, masinilor electrice si echipamentelor, documentelor in conditii climaterice diverse*





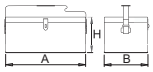
	A	B	H			
605897	840	420	335	23000	K	**1,146.33**

960/6

Cutie de scule pentru instalatori

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu curea sintetica*



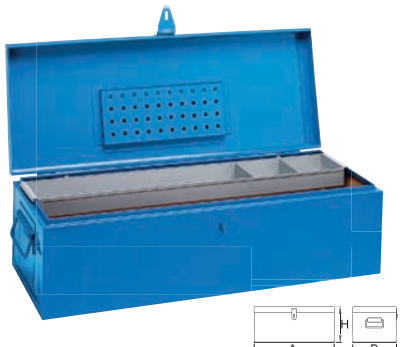


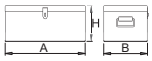
	A	B	H			
603673	550	200	230	5200	K	**416.99**
612989	620	200	230	4900	K	**470.05**

960/1

Cutie de scule

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *destinata pentru transportul si depozitarea sculelor, masinilor electrice si echipamentelor, documentelor in conditii climaterice diverse*



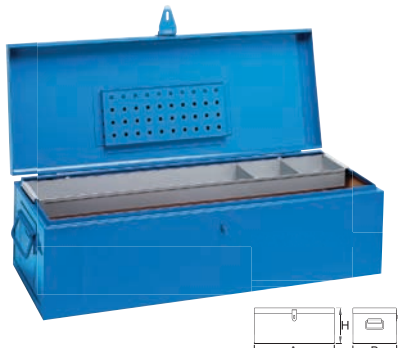


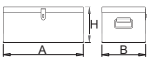
	A	B	H			
605896	700	380	310	18000	K	**1,025.24**

960/3

Cutie de scule

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *destinata pentru transportul si depozitarea sculelor, masinilor electrice si echipamentelor, documentelor in conditii climaterice diverse*



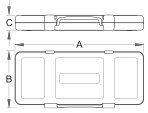


	A	B	H			
605898	910	530	430	31000	K	**1,356.43**

K

Cutie metalica





	№	A	B	C			
601918	1/4"	197	105	38	275	F	**48.80**
601913	3/8"	321	198	54	798	F	**111.67**
601954	1/2"	448	198	54	1456	F	**121.66**
602743	3/4"	505	215	75	2500	F	**345.17**
603521	1"	670	220	100	4800	F	**324.37**
621474	1/2VDE	448	198	54	1489	F	**121.66**
612694	3/8VDE	321	198	54	798	F	**111.67**



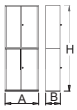


949

Dulap de scule

- *sistem de inchidere*
- *sertare pe rulmenti*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *tabla cu gauri perforate*





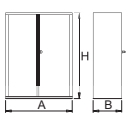
	A	B	H			
622671	695	660	2030	135000	K	**6,583.94**

949.1

Dulap de scule

- *sistem de inchidere*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *tabla cu gauri perforate*
- *element din 949*





	A	B	H			
622672	695	660	1023	48800	K	**2,632.12**

949.2

Dulap de scule

- *sistem de inchidere*
- *7 sertare dim. 560x605x70*
- *sertare pe rulmenti*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *element din 949*



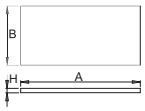
	A	B	H			
622673	695	660	1023	83400	K	**3,951.82**

949.3

Polita suplimentara pentru 949.1

- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *tabla cu gauri perforate*





	A	B	H			
622674	689	597	32	3700	K	**148.98**

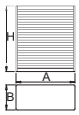


947

Dulap pentru documente

- *sertare perulmenti*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *suprafata de lucru de lemn*
- *23 de sertare dim. 920x36x42*
- *tabla cu gauri perforate*
- *capacitatea sertarelor: 30 kg*



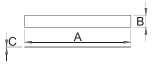


	A	B	H			
610954	1035	440	1150	160000	K	**7,351.65**

947S3

Elemente despartitoare pentru 947





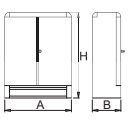
	A	B	C			
611961	355	40	0.8	973	K	**49.54**

948E1

Dulap de scule

- *sistem de inchidere*
- *sertare perulmenti*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *1 sertar, dim. 575x285x75*
- *interiorul dulapului este prevazut cu tabla perforata*
- *tabla gu gauri perforate*



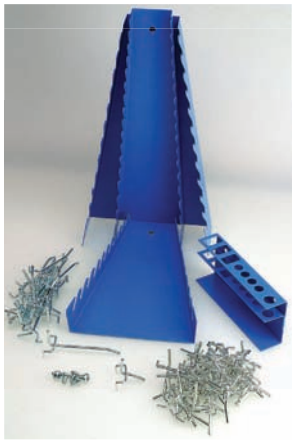


	A	B	H			
612215	700	300	900	27500	K	**1,823.62**

948E1.1

Accesorii pentru 948E1

- *accesorii: carlige de agatare (35 buc., dim. 35 mm, 10 buc., dim. 50 mm si 20 buc., dim. 100 mm) cu suport metalic pentru chei – 3 buc., si suport de dalta – 1 buc.*



612908	2600	K	614.24

948E2

Dulap de scule

- *sistem de inchidere*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *interiorul dulapului este prevazut cu tabla perforata*
- *tabla cu gauri perforate*



	A	B	H			
612216	700	300	900	26000	K	1,623.60

948E2.1

Accesorii pentru 948E2

- *accesorii: carlige de agatare (35 buc., dim. 35 mm, 10 buc., dim. 50 mm si 20 buc., dim. 100 mm) cu suport metalic pentru chei – 3 buc., si suport de dalta – 1 buc.*



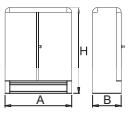
612909	2600	K	614.24

948E1S

Dulap de scule cu accesorii

- *sistem de inchidere*
- *sertare perulmenti*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *1 sertar, dimensiunea 575x285x75*
- *interiorul dulapului este prevazut cu tabla perforata*
- *accesorii: carlige de agatare (15 buc., dim. 35 mm, 10 buc., dim. 50 mm si 20 buc., dim. 100 mm) cu suport metalic pentru chei – 3 buc., si suport de dalta – 1 buc.*





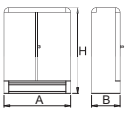
	A	B	H			
612583	700	300	900	30000	K	2,437.86

948E2S

Dulap de scule cu accesorii

- *sistem de inchidere*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *interiorul dulapului este prevazut cu tabla perforata*
- *accesorii: carlige de agatare (35 buc., dim. 35 mm, 10 buc., dim. 50 mm si 20 buc., dim. 100 mm) cu suport metalic pentru chei – 3 buc., si suport de dalta – 1 buc.*





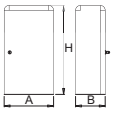
	A	B	H			
612584	700	300	900	28500	K	2,237.88

948E3S

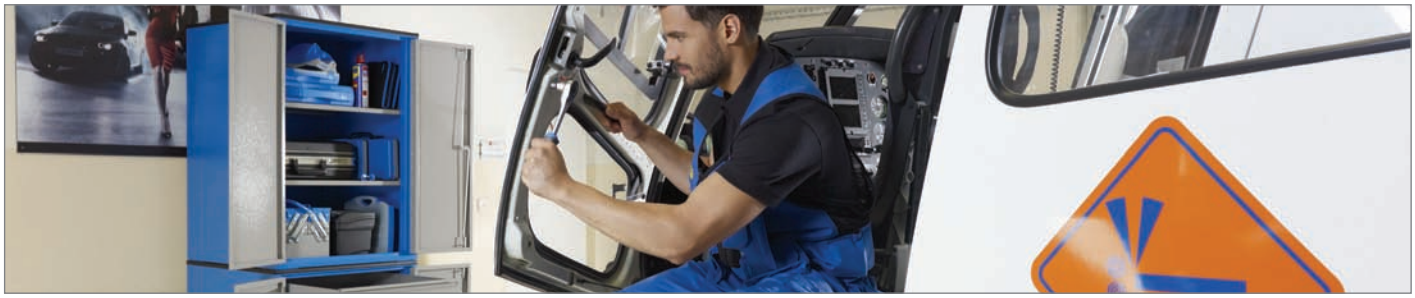
Dulap de scule

- *sistem de inchidere*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *interiorul dulapului este prevazut cu tabla perforata*
- *accesorii: carlige de agatare (20 buc., dim. 35 mm, 5 buc., dim. 50 mm si 10 buc., dim. 100 mm) cu suport metalic pentru chei – 1 buc., si suport de dalta – 1 buc.*





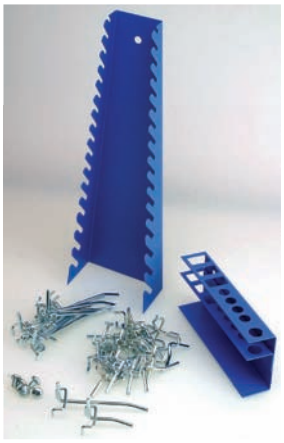
	A	B	H			
612585	500	300	900	18000	K	1,650.62



948E3.1

Accesorii pentru 948E3

- *accesorii: carlige de agatare (20 buc., dim. 35 mm, 5 buc., dim. 50 mm si 10 buc., dim. 100 mm) cu suport metalic pentru chei – 1 buc., si suport de dalta – 1 buc.*



612910	1200	K	327.01

955IND1

Dulap de scule industrial

- *aplicatii: productia industriala, sercice-uri auto, laboratoare… in situatiile in care masuratoarile sunt inregisrate pe computer*
- *dulapul in partea de sus are locas pentru monitor (dimensiunile interioare sunt 625x290x430mm)*
- *placa de lemn cu grosimea de 20 mm*
- *dulap pentru keyboard dimensiuni 560x450x40 mm*
- *in interiorul dulapului este un spatiu destinat computerului*
- *si echipamentele anexe. Este posibila reglarea rafturilor in 6 pozitii diferite. Dimensiunile interioare ale dulapului 635x630x810*
- *confectionat din tabla dublu galvanizata de 1 mm*
- *cilindru de inchidere cu cheie flexibila*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





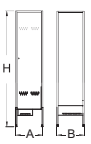
	A	B1	B2	H			
622816	715	680	310	1553	42500	K	3,706.74

950G1

Vestiar industrial

- *utilizat pentru depozitarea echipamentelor de lucru si a hainelor*
- *confectionat din tabla dublu decapata de 0.8 mm vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cilindru de inchidere cu cheie flexibila*





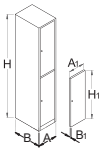
	A	B	H			
623022	500	504	2010	66000	K	2,350.17

950/2

Vestiar, 2 compartimente

- *Vestiarul este vopsit in camp electrostatic pentru a asigura protectia impotriva ruginei. Ca protectie suplimentara tabla este lacuita ecologic cu cadmiu si vopsea. Usile vestiarului in culori luminoase confera fiecarui compartiment o atmosfera placuta*
- *Corpul vestiarului din tabla de 0,8 mm de inalta calitate*
- *calitate*
- *Usile din tabla de 1 mm, ranforsate impotriva torsi-unii si indoirii.Usile sunt vopsite in sase culori diferite (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 si RAL 7035)*





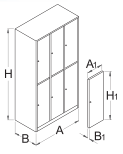
	A	B	H	A1	B1	H1			
617115	350	500	1880	300	20	875	35000	X	1,825.65

950/6

Vestiar, 6 compartimente

- *Vestiarul este vopsit in camp electrostatic pentru a asigura protectia impotriva ruginei. Ca protectie suplimentara tabla este lacuita ecologic cu cadmiu si vopsea. Usile vestiarului in culori luminoase confera fiecarui compartiment o atmosfera placuta*
- *Corpul vestiarului din tabla de 0,8 mm de inalta calitate*
- *Usile din tabla de 1 mm, ranforsate impotriva torsi-unii si indoirii.Usile sunt vopsite in sase culori diferite (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 si RAL 7035)*





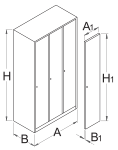
	A	B	H	A1	B1	H1			
616652	1000	500	1880	300	20	875	75000	X	4,228.18

950/3V

Vestiar cu 3 compartimente

- *Vestiarul este vopsit in camp electrostatic pentru a asigura protectia impotriva ruginei. Ca protectie suplimentara tabla este lacuita ecologic cu cadmiu si vopsea. Usile vestiarului in culori luminoase confera fiecarui compartiment o atmosfera placuta*
- *Corpul vestiarului din tabla de 0,8 mm de inalta calitate*
- *Usile din tabla de 1 mm, ranforsate impotriva torsiunii si indoirii. Usile sunt vopsite in sase culori diferite (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 si RAL 7035)*





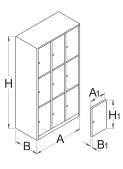
	A	B	H	A1	B1	H1			
617175	1000	500	1880	300	20	1775	75000	X	3,435.56

950/9

Vestiar cu 9 compartimente

- *Vestiarul este vopsit in camp electrostatic pentru a asigura protectia impotriva ruginei. Ca protectie suplimentara tabla este lacuita ecologic cu cadmiu si vopsea. Usile vestiarului in culori luminoase confera fiecarui compartiment o atmosfera placuta*
- *Corpul vestiarului din tabla de 0,8 mm de inalta calitate*
- *Usile din tabla de 1 mm, ranforsate impotriva torsiunii si indoirii. Usile sunt vopsite in sase culori diferite (RAL 1021, RAL 3020, RAL 5010, RAL 6029, RAL 2004 si RAL 7035)*





	A	B	H	A1	B1	H1			
617116	1000	500	1880	300	20	575	95000	X	5,223.68

950.1

Rama pentru eticheta



617188	24	V	17.25

950.3

Polite pentru (950/9, 6, 3, 2, 1



617177	2170	X	74.18

950.4

Suport din plastic pentru (950/9, 6, 3, 2, 1



617187	150	V	28.91

K950

Incuietoare cu cheie pentru vestiar



617180	70	V	85.58

K950COMB

Incuietoare cu cifru pentru vestiar



617183	216	X	239.71

969S

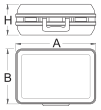
Trusa de scule

- *blatul confectionat din ABS*
- *rama robusta din aluminiu cu protectie pentru margini ascutite*
- *2 incuietori cu clame*
- *cifru*
- *despartitor pentru documente (format A4)*
- *sertar variabil de podea*
- *dimensiuni interior: 455x345x160 mm*
- *volum: 26 l*
- *greutate cand e plina: 25 kg*









			A	B	C			
1	969S	Trusa de scule						
		621631	485	380	175	4200	F	867.24
2	969.5S	Set de pereti cu buzunar pentru 9695						
		623152				1476	V	173.18
Alkatrészek								
	969.4S	Partitii 3 bucati pentru 969S						
		621643				645	V	113.39

969L

Trusa de scule

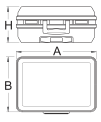
- *carucior mobil cu maner telescopic usor de folosit*
- *blatul confectionat din ABS*
- *rama robusta din aluminiu cu protectie pentru margini ascutite*
- *2 incuietori cu clame*
- *cifru*
- *despartitor pentru documente (format A4)*
- *sertar variabil de podea*
- *dimensiuni interior: 485x350x195 mm*
- *volum: 36 l*
- *greutate cand e plina: 30 kg*











			A	B	C			
1	969L	Trusa de scule						
		621633	510	405	270	6400	F	1,328.84
2	969.5L	Set de pereti cu buzunar pentru 969L						
		623153				1587	V	290.40
Alkatrészek								
	969.4L	Partitii 3 buc. pentru 969L						
		621645				825	V	113.39

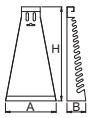


977/2

Stand metalic chei combinate - varianta lunga

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





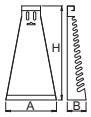
		A	B	H			
605161	6 - 22/17	215	55	420	590	F	51.57

977/5

Suport metalic pentru chei combinate, varianta lunga

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





		A	B	H			
607386	6 - 32/26	305	65	730	890	F	133.58

975

Stand metalic pentru cataloage

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



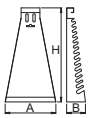
	A	B	H			
622592	632	640	1620	19600	K	1,538.37

977/3

Suport metalic pentru chei combinate - varianta scurta

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





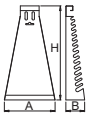
		A	B	H			
605162	6 - 22/17	115	60	420	790	F	51.57

977/6

Suport metalic pentru chei combinate, varianta scurta

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





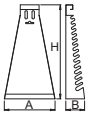
		A	B	H			
607387	6 - 32/26	205	65	730	890	F	151.67

977/1

Stand metalic pentru chei fixe

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





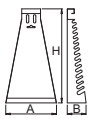
		A	B	H			
605160	6 - 32/12	180	50	330	420	F	51.57

977/4

Suport metalic pentru chei inelare dublu cotite

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





		A	B	H			
605163	6 - 32/12	220	80	410	890	F	57.11

977/7

Suport de metal pentru surubelnite cu maner in T



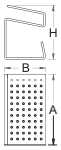
608355	890	F	94.03

978E

Stand expozitor pentru surubelnite pentru electronisti

- *material: material transparent acrilic*





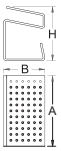
	A	B	H			
609950	230	135	185	813	F	**353.85**

978BICR

Stand expozitor pentru surubelnite TBI si CR

- *material: material transparent acrilic*





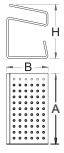
	A	B	H			
609951	330	205	206	2094	F	**292.78**

978VDE

Stand expozitor pentru surubelnite VDE

- *material: material transparent acrilic*





	A	B	H			
609952	330	205	240	2094	F	**323.75**

979

Suport metalic pentru masina de filetat buloane

- *tabla cu gauri perforate*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



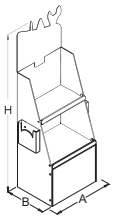


	A	B	H			
621375	500	415	1180	19400	K	**1,222.94**

ST.UNI1

Stand de carton pentru seturile CS



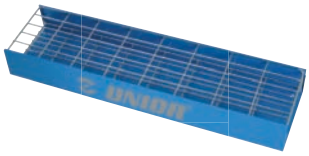


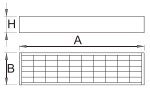
	A	B	H			
621018	670	430	1680	5600	K	**548.72**

980E

Suport metalic pentru foarfeci

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





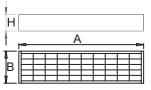
	A	B	H			
611898	530	136	63	1188	K	**143.70**

980F

Suport metalic pentru dalti si dornuri

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





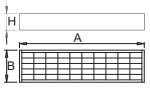
	A	B	H			
612211	410	110	78	1267	K	**148.94**

980G

Suport metalic pentru dalti si dornuri

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





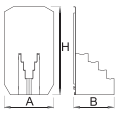
	A	B	H			
612212	530	136	63	821	K	**79.99**

980P2

Suport metalic pentru extractoare cu doua brate

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





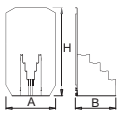
	A	B	H			
612653	240	200	430	2179	K	**157.12**

980P2S

Suport metalic pentru extractoare brate reglabile

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





	A	B	H			
615083	240	250	430	2179	K	**180.53**

980P3A

Stand metalic pentru extractoare cu trei brate

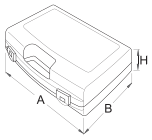


	A	B	H			
622675	283	329	428	3500	K	**483.21**

981PBS1

Cutie de plastic pentru capete chei tubulare, chei



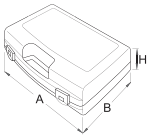


	A	B	H			
621620	197	167	35	140	F	**32.25**

981PBM1

Cutie de plastic pentru capete chei tubulare, chei



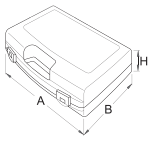


	A	B	H			
619768	197	167	47	152	F	**32.25**

981PBS2

Cutie de plastic pentru capete chei tubulare, chei



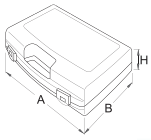


	A	B	H			
621621	307	260	55	380	F	**74.67**

981PBM2

Cutie de plastic pentru capete chei tubulare, chei



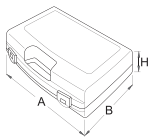


	A	B	H			
619769	307	260	74	420	F	**74.67**

981PBS3

Cutie de plastic pentru capete chei tubulare, chei



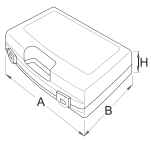


	A	B	H			
621622	346	292	62	510	F	**88.22**

981PBM3

Cutie de plastic pentru capete chei tubulare, chei



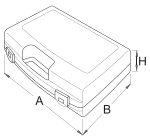


	A	B	H			
619770	346	292	83	568	F	**88.22**

981PB4

Cutii de plastic pentru capete chei tubulare, chei



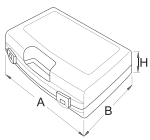


	A	B	H			
619771	393	331	95	771	F	164.78

981PBS5

Cutii de plastic pentru capete chei tubulare, chei



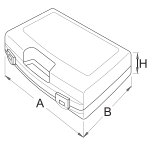


	A	B	H			
621618	244	207	44	290	F	70.88

981PBM5

Cutii de plastic pentru capete chei tubulare, chei



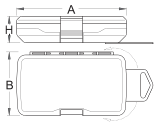


	A	B	H			
621619	244	207	59	240	F	70.88

982PB1

Cutie de plastic mica pentru biti



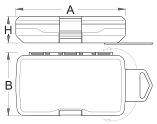


	A	B	H			
621425	145	85	30	76	X	11.66

982PB2

Cutie de plastic mare pentru biti



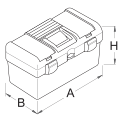


	A	B	H			
621426	145	85	40	92	X	11.66

917

Cutie din plastic





	№	A	B	H			
619765	A	514	280	260	1930	F	148.63
619766	B	406	252	244	1540	F	108.99
619767	C	394	215	195	920	F	80.87



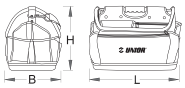


1100

Geanta textila mare pentru mentenanta

- *Material poliester 600D*
- *Suport de forma patrata asigura stabilitate cutiei si previne orice pericol de ameste-care a sculelor*
- *Buzunarele pentru scule asigura o buna organizare a acestora in interiorul cutiei*
- *Maner din metal pentru conditii grele cu forma ergonomica si partea de prindere protejata permitand o manevrare sigura si confortabila.*
- *Partile executate din otel nu ruginesc.Suprafata metalica a structurii este confectio-nata din otel inoxidabil.*
- *Nituirea ferma: Nituirea-pentru o mare rezistenta.Toate partile gentii care ar putea fi supuse deteriorarii sunt intarite cu o piesa suplimentara si prinsa cu nituri*
- *Ai posibilitatea de a organiza usor sculele in cutia de scule*
- *Design cu partea superioara deschisa pentru a vizualiza rapid sculele din interior.*





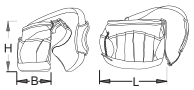
		L	B	H			
620585		530	360	355	2447	C	396.18

1101

Geanta textila mica pentru mentenanta

- *Material poliester 600D*
- *Design cu partea superioara deschisa pentru a vizualiza rapid sculele din interior.*
- *Buzunarul principal permite umplerea cu o varietate de scule*
- *Pentru protectia sculei partea inferiara este etansata cu cauciuc.*
- *Inelul de prindere de 13,5 cm lungime asigura accesul la rulete si flex.Destinata pent-ru transportul a una sau doua scule electrice.Se poate utiliza pentru diverse scule de mici dimensiuni sau elemente cu gauri interioare*
- *Agatatoare metalica pentru orice tip de ruleta*
- *Partile executate din otel nu ruginesc.Suprafata metalica a structurii este confectio-nata din otel inoxidabil.*
- *Nituirea ferma: Nituirea-pentru o mare rezistenta.Toate partile gentii care ar putea fi supuse deteriorarii sunt intarite cu o piesa suplimentara si prinsa cu nituri*
- *Cureaua de transport face manevrarea gentii confortabila*
- *Manere de cauciuc pentru transport usor*





		L	B	H			
620586		340	210	300	980	C	194.74

1102

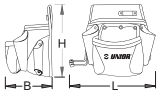
Geanta de uz general

- *Material poliester 600D*
- *Partea laterala cu agatatoare metalica pentru ciocan pentru a-l tine intr-o pozitie unghiulara confortabila, noua solutie permite agatarea ciocanului fara a-l asigura.*
- *Agatatoare metalica pentru orice tip de ruleta*
- *Locas din piele pentru cutit*
- *Suportul universal de scule permite accesul la acestea cu usurinta cand este nevoie*
- *Partile executate din otel nu ruginesc.Suprafata metalica a structurii este confectio-nata din otel inoxidabil.*
- *Nituirea ferma: Nituirea-pentru o mare rezistenta.Toate partile gentii care ar putea fi supuse deteriorarii sunt intarite cu o piesa suplimentara si prinsa cu nituri*









		L	B	H			
620587		315	195	260	496	G	117.92

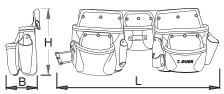
1103

Geanta port scule

- *Material poliester 600D*
- *O solutie profesionala pentru dulgheri si constructori fiind prevazuta cu 5 buzu-nare care acopera majoritatea nevoilor de agatare a sculeor*
- *Foarte usor de ajustat, curea de naylon cu 40 mm polipropilena si bucla de reglare.*
- *Nituirea ferma: Nituirea-pentru o mare rezistenta.Toate partile gentii care ar pu-tea fi supuse deteriorarii sunt intarite cu o piesa suplimentara si prinsa cu nituri*
- *Locasul pentru surubelnita confectionat din piele asigura o buna asezare*
- *Partea laterala cu agatatoare metalica pentru ciocan pentru a-l tine intr-o pozitie unghiulara confortabila, noua solutie permite agatarea ciocanului fara a-l asigura.*
- *Agatatoare metalica pentru orice tip de ruleta*







		L	B	H			
620588		675	150	250	825	G	208.30

1104

Curea cu prindere rapida

- *Material poliester 600D*
- *Acoperita cu un material 3D plasa pentru confort*
- *cand se transporta scule grele*
- *Proiectata sa preia orice husa sau agatatoare Unior*
- *Avand 40 mm este usor de deschis cu catarama din polipropilena. Proiectata sa previna deschiderea*
- *accidentala*
- *Profil curb pentru o mai buna ajustare a centurii*



		L	H			
620589		1300	60	201	G	52.98

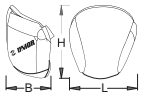


1105

Genunchere

- *Material poliester 600D*
- *Genunchere flexibile si usoare confectionate din*
- *material anti-alunecare pe suprafata de contact,*
- *utile pentru o varietate de aplicatii inclusiv zona*
- *de constructii.*
- *Materialul extra 3D cu gauri permite o amortizare perfecta pentru confortul pe intraga durata a zilei*
- *Totul se regleaza simplu.Banda este confectionata din material elastic VELCRO foarte usor de reglat pe masura Dumneavostra.*
- *Confort maxim cand se pedaleaza.*





		L	B	H			
620590		180	90	210	215	G	102.12

909

Geanta pentru electronisti



	A	B	H			
601939	420	140	320	2400	F	750.73

909/1

Geanta pentru electronisti

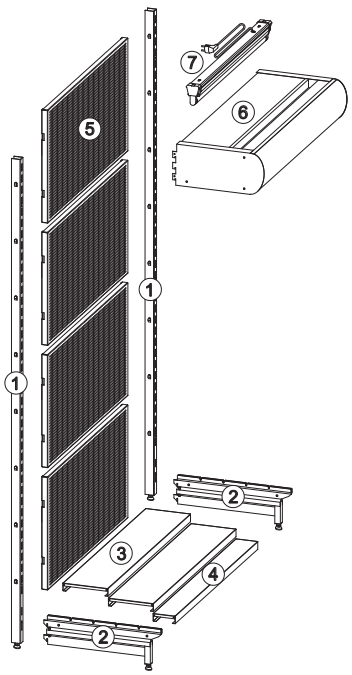


	A	B	H			
602552	350	110	300	1542	F	557.52

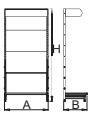
995D, 995DL, 995D1, 995D1L

Expozitor cu gauri perforate

- *material: tabla perforata*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 100 de carlige*





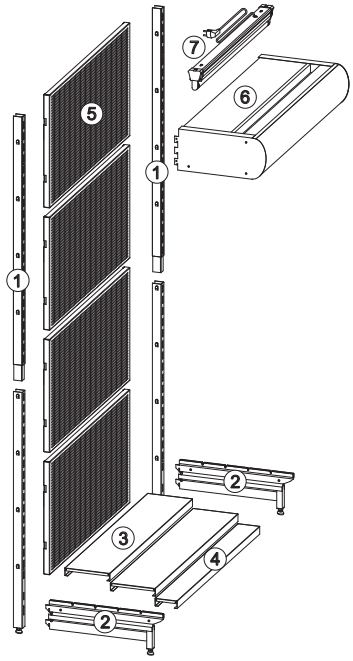


		A	B	H			1	2	3	4	5	6	7	
995D	Expozitor cu gauri perforate													
	616506	950	560	2200	38200	X	2	2	2	1	4	1		2,274 .14
995DL	Expozitor cu gauri perforate si iluminare													
	616508	950	560	2200	54000	X	2	2	2	1	4	1	1	2,728.97
995D1	Expozitor aditional cu gauri perforate													
	616507	935	560	2200	31800	X	1	1	2	1	4	1		2,00728
995D1L	Expozitor aditional cu gauri perforate si iluminare													
	616509	935	560	2200	32800	X	1	1	2	1	4	1	1	3,576.51

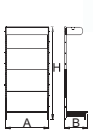
995DNL, 995DN1, 995DN1L

Expozitor cu gauri perforate si lumina

- *cu doua piciore separate*
- *material: tabla perforata*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 100 de carlige*





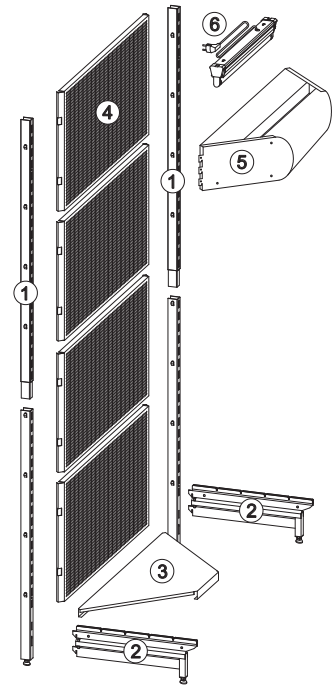


		A	B	C			1	2	3	4	5	6	7	
995DNL	Expozitor cu gauri perforate si lumina													
	620570	950	560	2200	55500	X	2	2	2	1	4	1	1	**2,800.03**
995DN1	Expozitor aditional cu gauri perforate													
	620571	935	560	2200	31800	X	1	1	2	1	4	1		**2,042.79**
995DN1L	Expozitor aditional cu gauri perforate si lumina													
	620572	935	560	2200	48400	X	1	1	2	1	4	1	1	**2,612.06**

995VDN, 995VDNL, 995ZDN, 995ZDNL

Expozitor de colt cu gauri perforate

- *cu doua piciore separate*
- *material: tabla perforata*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 100 de carlige*





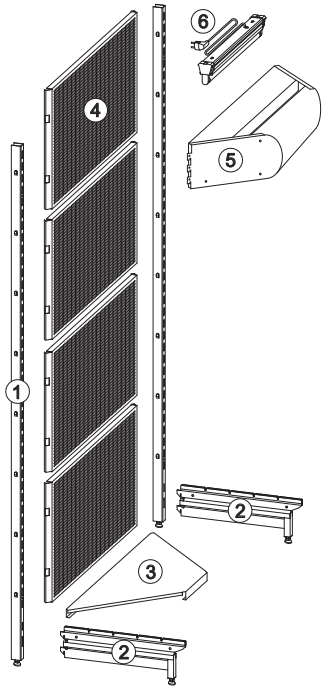


		A	B	H			1	2	3	4	5	6	
995VDN	Expozitor de colt cu gauri perforate												
	620573	1070	410	2200	50000	X	2	2	1	4	1		**2,351.36**
995VDNL	Expozitor de colt cu gauri perforate si lumina												
	620574	1070	410	2200	46000	X	2	2	1	4	1	1	**2,605.72**
995ZDN	Expozitor aditional de colt cu gauri perforate												
	620575	1050	410	2200	40500	X	1	1	1	4	1		**2,163.17**
995ZDNL	Expozitor aditional de colt cu gauri perforate si iluminare												
	620576	1050	410	2200	42400	X	1	1	1	4	1	1	**2,431.80**

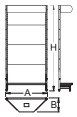
995VD, 995VD1, 995VDL, 995VD1L, 995ZD, 995ZDL

Expozitor de colt cu gauri perforate

- *material: tabla perforata*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*
- *cu 100 de carlige*
- *suport propriu*
- *utilizat pentru imbinarea a doua expozitoare la 90°*





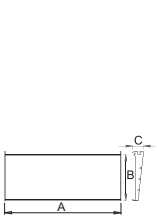


		A	B	H			1	2	3	4	5	6	
995VD	Expozitor de colt cu gauri perforate												
	617809	1070	410	2200	4560	X	2	2	1	4	1		2,280.34
995VDL	Expozitor de colt cu gauri perforate si lumina												
	617810	1070	410	2200	46900	X	2	2	1	4	1	1	2,534.71
995VD1	Expozitor aditional de unghi cu gauri perforate												
	617811	1030	410	2200	32000	X			1	4	1		1,894.86
995VD1L	Expozitor aditional de unghi cu gauri perforate si iluminare												
	617812	1030	410	2200	33300	X			1	4	1	1	2,162.95
995ZD	Expozitor aditional de colt cu gauri perforate												
	617813	1050	410	2200	38800	X	1	1	1	4	1		2,127.66
995ZDL	Expozitor aditional de colt cu gauri perforate si iluminare												
	617814	1050	410	2200	40100	X	1	1	1	4	1	1	2,396.33

995CH

Suport pentru polita

- *material: tabla*
- *de utilizat cu expozitoarele 995C, 995D, 995E*
- *pentru polita CP1 si 995 CP2*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



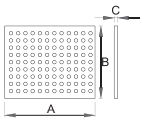


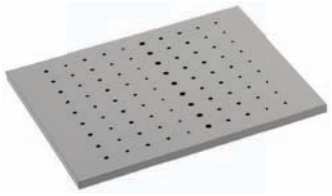
	A	B	C				
616621	950	410	90		3314	K	188.41

995CP1

Polita de surubelnite

- *material: tabla*
- *de utilizat cu expozitoarele 995C, 995D, 995E*
- *pentru polita CP1 si 995 CP2*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



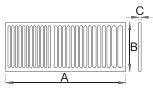


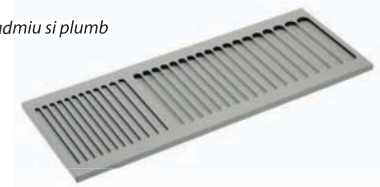
	A	B	C				
616622	475	410	20		3227	K	161.52

995CP2

Polita de capete chei tubulare 1/2" és 1/4"

- *material: tabla*
- *utilizat cu suportul de polita*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*



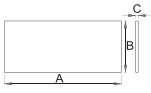


	A	B	C				
616623	950	410	20		6200	K	406.43

995CP3

Suport pentru etajere de la art. 995

- *material: tabla*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*





	A	B	C				
616624	950	410	20		3658	K	159.63

995.2A

Picior pentru expozitor



	A	B	C			
620560	2180	41	41	4670	K	241.12

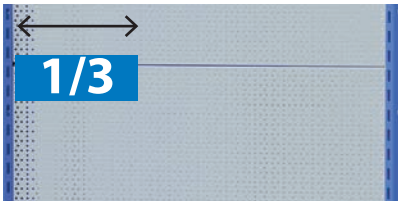
995MD

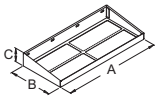
Suport modular pentru expozitor

- *material: tabla*
- *de utilizat cu expozitoarele 995C, 995D, 995E*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

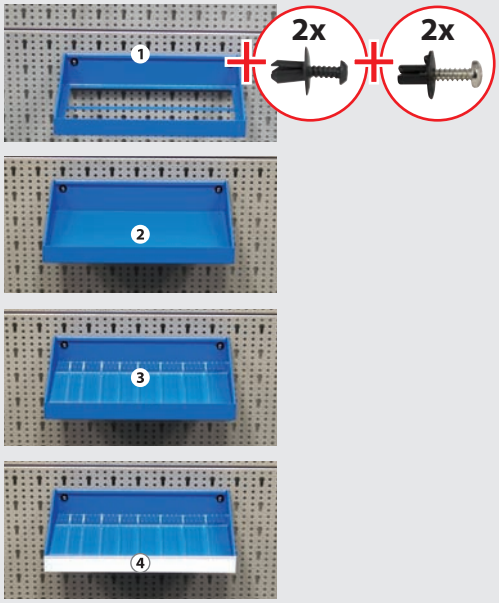






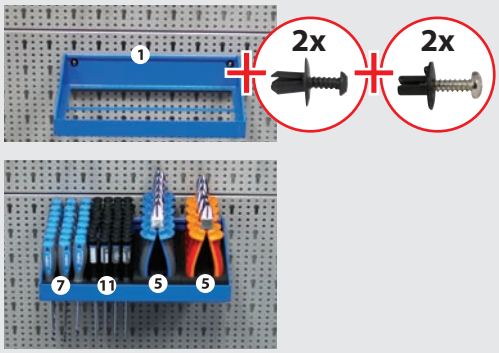


1



		A	B	C				
1 995.0MD	Suprot modular pentru expozitor							
	621484	320	215	63	1	759	K	123.90
2 995.1MD	Suprot inferior pentru modular pentru expozitor							
	621485	320	215	63	1	405	K	58.48
3 995.6MD7	Set format din 2 divizoare de partitii si 5 separatoare							
	621491				7	122	E	40.35
4 995.2MD	Suport pentru etichete							
	621486	315	45		1	60	E	10.91
Parti de schimb								
		Ø						
995.3MD5,5	Cui pentru stand expunere							
	621487	5,5				2,8	V	4.58
995.3MD6,5	Cui pentru stand expunere							
	621488	6,5				1,6	V	3.61
		L						
995.5MD5	Set de 5 separatoare							
	621490				5	100	E	22.92
995.4MD2	Set de 2 divizoare de partitii							
	621489	314			2	60	E	17.47

2



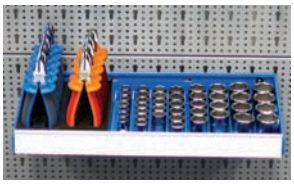
		A	B	C				
1 995.0MD	Suport modular pentru expozitor							
	621484	320	215	63	1	759	K	123.90
4 995.2MD	Suport pentru etichete							
	621486	315	45			60	E	10.91
5 995.7MDSOSPLIP6	modul SOS pentru clesti							
	623150					40	E	14.43
6 995.7MDSOSWP6	modul SOS pentru clesti instalatori							
	623149					40	E	14.43
7 995.7MDSOS85P24	modul SOS pentru surubelnite							
	621492					30	E	14.43
8 995.7MDSOS100P12	modul SOS pentru surubelnite							
	621493					28	E	14.43
9 995.7MDSOS110P12	modul SOS pentru surubelnite							
	621494					30	E	14.43
10 995.7MDSOS120P10	modul SOS pentru surubelnite							
	621495					27	E	14.43
11 995.7MDSOSEP40	modul SOS pentru surubelnite electronice							
	621496					29	E	14.43
Parti de schimb								
		Ø						
995.3MD5,5	Cui pentru stand expunere							
	621487	5,5				2,8	V	4.58
995.3MD6,5	Cui pentru stand expunere							
	621488	6,5				1,6	V	3.61

explicatii ale articolului: 995.7MDSOS85P24	
995.7MD	articol de baza
SOS	Modul
85	L-C este dimensiunea - lungimea manerului surubelnitei
P24	numar de produse introduse intr-un modul SOS
E	surubelnita de electronist
W	clesti reglabili dim. 240 (447/1HPP, 449/1PYTHON, 442/1HYPO, 445/1BI)
PLI	stand cu clesti dim. 160 si 180 mm (406/1BI, 461/1BI, ..)

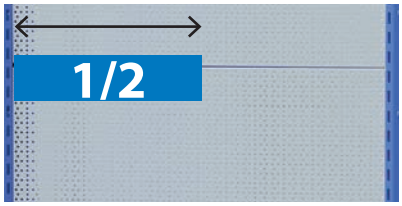
995MD

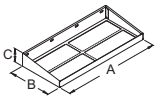
Suport modular pentru expozitor

- *material: tabla*
- *de utilizat cu expozitoarele 995C, 995D, 995E*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

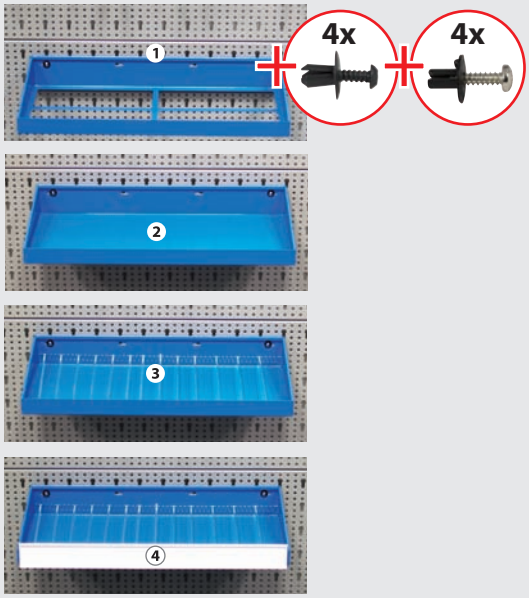






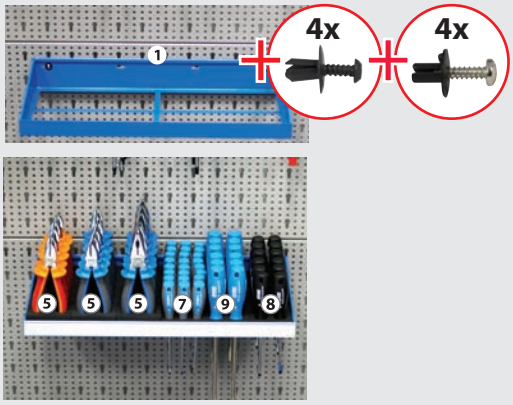


1



		A	B	C				
1 995.0MD1	Suprort modular pentru expozitor							
	621607	480	215	63	1	994	K	217.80
2 995.1MD1	Suprort inferior pentru suport modular							
	621609	472	207	1.5	1	641	K	99.09
3 995.61MD12	Set format din 2 divizoare de partitt si 10 separatoare							
	621614				12	250	E	70.93
4 995.2MD1	Suport pentru etichete							
	621611	475	45		1	75	E	25.52
Alkatrészek								
		Ø						
995.3MD5,5	Cui pentru stand expunere							
	621487	5,5				2,8	V	4.58
995.3MD6,5	Cui pentru stand expunere							
	621488	6,5				1,6	V	3.61
		L						
995.5MD5	Set de 5 separatoare							
	621490				5	100	E	22.92
995.41MD2	Set de 2 divizoare de partitii							
	621613	470			2	70	E	25.08

2



		A	B	C				
1 995.0MD1	Suport modular pentru expozitor							
	621607	480	215	63	1	994	K	217.80
4 995.2MD1	Suport pentru etichete							
	621611	475	45		1	75	E	25.52
5 995.7MDSOSPLIP6	modul SOS pentru clesti							
	623150					40	E	14.43
6 995.7MDSOSWP6	modul SOS pentru clesti instalatori							
	623149					40	E	14.43
7 995.7MDSOS85P24	modul SOS pentru surubelnite							
	621492					30	E	14.43
8 995.7MDSOS100P12	modul SOS pentru surubelnite							
	621493					28	E	14.43
9 995.7MDSOS110P12	modul SOS pentru surubelnite							
	621494					30	E	14.43
10 995.7MDSOS120P10	modul SOS pentru surubelnite							
	621495					27	E	14.43
11 995.7MDSOSEP40	modul SOS pentru surubelnite electronice							
	621496					29	E	14.43
parti de schimb								
		Ø						
995.3MD5,5	Cui pentru stand expunere							
	621487	5,5				2,8	V	4.58
995.3MD6,5	Cui pentru stand expunere							
	621488	6,5				1,6	V	3.61

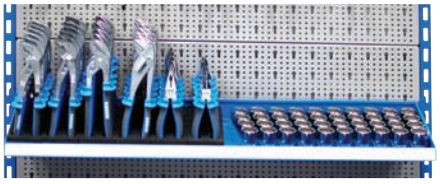
explicatii ale articolului: 995.7MDSOS85P24	
995.7MD	articol de baza
SOS	Modul
85	L - C este dimensiunea - lungimea manerului surubelnitei
P24	numar de produse introduse intr-un modul SOS
E	surubelnita de electronist
W	clesti reglabili dim. 240 (447/1HPP, 449/1PYTHON, 442/1HYPO,
PLI	445/1BI)

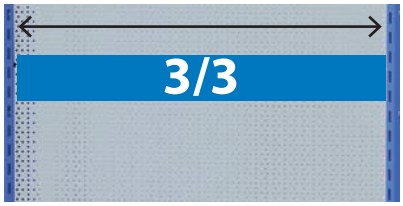
995MD

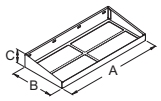
Suport modular pentru expozitor

- *material: tabla*
- *de utilizat cu expozitoarele 995C, 995D, 995E*
- *vopsite cu vopsele ecologice fara cadmiu si plumb*

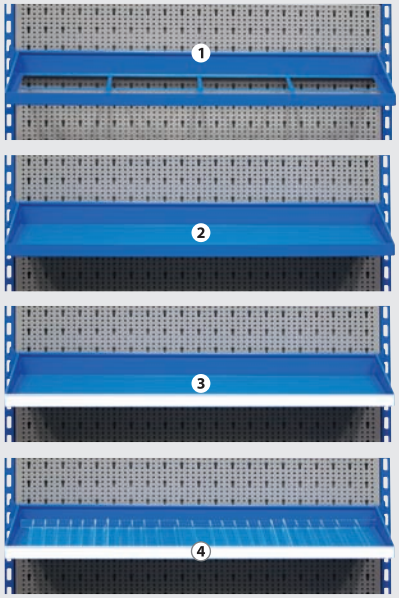






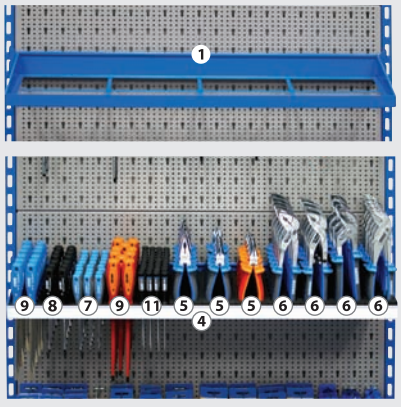


1



		A	B	C				
1	995.0MD2	Suport modular pentru expozitor						
	621608	960	215	63	1	2128	K	404.84
2	995.1MD2	Suport inferior pentru suport modular						
	621610	944	207	1.5	1	1285	K	132.48
3	995.62MD24	Set de 4 despartitoare plus inca 20 de despartitoare						
	623203				24	50	E	141.86
4	995.2MD2	Suport pentru etichete						
	621612	950	45		1	150	E	50.82
Parti de schimb								
		L						
995.5MD5	Set de 5 separatoare							
	621490				5	100	V	22.92
995.41MD2	Set de 2 divizoare de partitii							
	621489		314		2	70	/	17.47

2



		A	B	C				
1	995.0MD2	Suport modular pentru expozitor						
	621608	960	215	63	1	2128	K	404.84
4	995.2MD2	Suport pentru etichete						
	621612	950	45		1	150	E	50.82
5	995.7MDSOSPLIP6	modul SOS pentru clesti						
	623150					40	E	14.43
6	995.7MDSOSWP6	modul SOS pentru clesti instalatori						
	623149					40	E	14.43
7	995.7MDSOS85P24	modul SOS pentru surubelnite						
	621492					30	E	14.43
8	995.7MDSOS100P12	modul SOS pentru surubelnite						
	621493					28	E	14.43
9	995.7MDSOS110P12	modul SOS pentru surubelnite						
	621494					30	E	14.43
10	995.7MDSOS120P10	modul SOS pentru surubelnite						
	621495					27	E	14.43
11	995.7MDSOSEP40	modul SOS pentru surubelnite electronice						
	621496					29	E	14.43

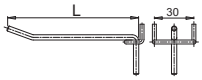
explicatii ale articolului: 995.7MDSOS85P24	
995.7MD	articol de baza
SOS	Modul
85	L-C este dimensiunea-lungimea manerului surubelnitei
P24	numar de produse introduse intr-un modul SOS
E	surubelnita de electronist
W	clesti reglabili dim. 240 (447/1HPP, 449/1PYTHON, 442/1HYPO, 445/1BI)
PLI	stand cu clesti dim.160 mm si 180 mm (406/1BI, 461/1BI, ..)

997.1

Carlig

- *pentru expunere pe dulap, panou de expozitor si bancuri de lucru*
- *este posibila fixarea carligelor intr-o pozitie ceruta*
- *cromate*





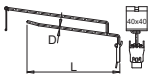
	L	D			
609478	35	4	20	V	2.51
609479	50	4	21	V	2.60
609480	80	4	15	V	2.73
609447	100	4	16	V	2.86
610559	150	4	30	V	4.05
610560	200	4	37	V	4.62

997.3

Carlig de expunere cu placuta pentru afisare pret

- *pentru expunere pe dulap, panou de expozitor si bancuri de lucru*
- *este posibila fixarea carligelor intr-o pozitie ceruta*
- *cromate*



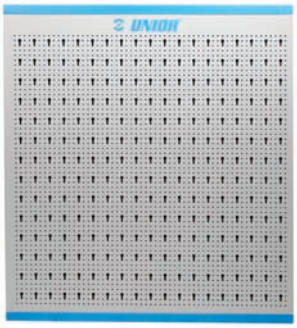


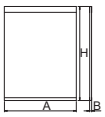
	L	D			
617085	150	5	50	F	9.68

996/2

Expozitor

- *material: tabla perforata*
- *utilizat pentru agatarea diferitelor tipuri de scule in diverse moduri*
- *este posibila fixarea permanenta a carligelor*
- *pozitionare usoara a sculelor*
- *posibilitate de combinare a diverselor panouri de dimensiuni diferite*
- *cu set 997.2*



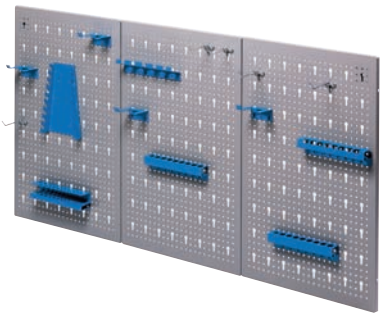


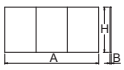
	A	B	H			
605114	900	22	972	10000	K	554.58

997

Panou expozitor

- *material: tabla perforata*
- *utilizat pentru agatarea diferitelor tipuri de scule in diverse moduri*
- *este posibila fixarea permanenta a carligelor*
- *amplasare usoara a sculelor*
- *posibilitate de combinare a diverselor panouri de dimensiuni diferite*
- *cu set 997.2*



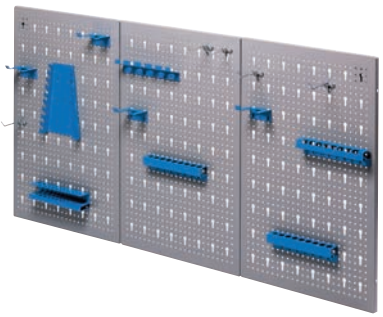


	A	B	H			
607154	1192	20	595	5000	K	592.72

997.2

Accesorii pentru panourile de expozitor

- *suport metalic pentru surubelnite 2 buc., suport metalic pentru dalti 1 buc., suporti de agatare metalici pentru ciocane 4 buc., suport de agatare pentru chei 1 buc., suport de agatare pentru pile 1 buc., suport de agatare pentru burghie 1 buc., carlige 5 buc.*



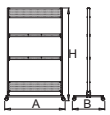
610453	845	K	175.16

998A

Expozitor mobil

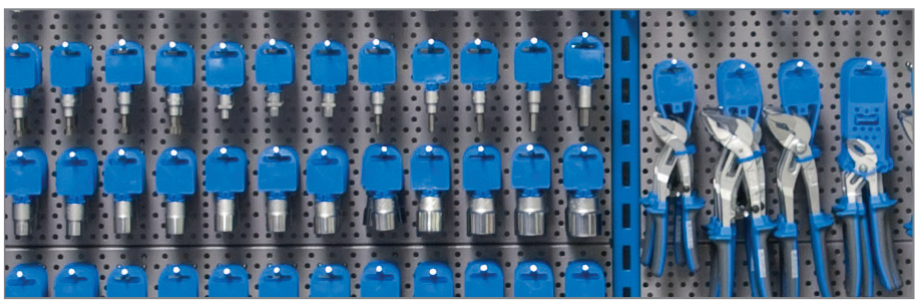
- *material: tabla perforata*
- *Vopsite cu vopsele ecologice fara cadmiu si plumb*





		A	B	H			
616514		1000	570	1590	25400	K	1,316.17

Producator European din 1919

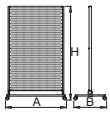


998B

Expozitor mobil cu perete plin

- *material: tabla perforata*
- *Vopsite cu vopsele ecologice fara cadmiu si plumb*





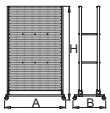
		A	B	H			
616514		1000	570	1590	25400	K	1917.87

998C

Expozitor mobil cu raft de mijloc

- *material: tabla perforata*
- *Vopsite cu vopsele ecologice fara cadmiu si plumb*



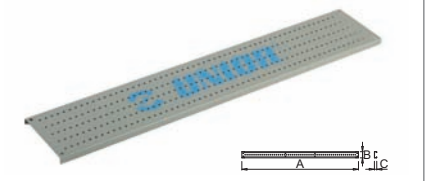


		A	B	H			
617076		1000	570	1590	52600	K	2,504.17

998.1A

Suport distantier pentru 998A

- *material: tabla perforata*
- *Vopsite cu vopsele ecologice fara cadmiu si plumb*

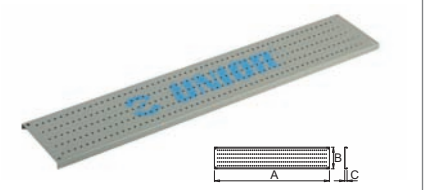


		A	B	C			
616516		890	47	18	1788	K	147.05

998.2A

Suport pentru 998A

- *material: tabla perforata*
- *Vopsite cu vopsele ecologice fara cadmiu si plumb*



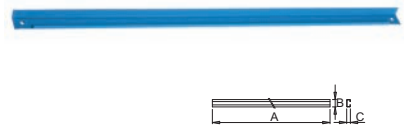
		A	B	C			
616517		890	167	18	3947	K	295.02



998.3

Coloana pentru 998B

- *material: tabla*
- *Vopsite cu vopsele ecologice fara cadmiu si plumb*

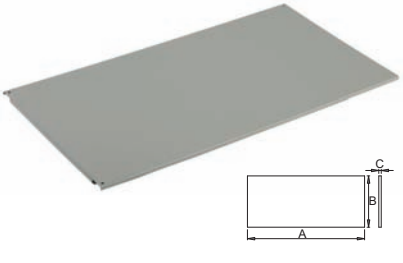


		A	B	C			
616519		1500	40	20	2000	K	236.02

998.4

Raft suplimentar pentru 998C

- *material: tabla*
- *Vopsite cu vopsele ecologice fara cadmiu si plumb*



		A	B	C			
616520		904	397	20	3658	K	243.28

Scule pneumatice si accesorii

Maner ergonomic

Sculele pneumatice Unior au un maner ergonomic pentru o manipulare usoara, in timp ce carcasa lor robusta garanteaza o durata lunga de viata chiar si in cele mai dificile conditii de lucru. Calitatea superioara a materialelor si realizarea de mare precizie a mecanismului de antrenare garanteaza functionarea perfecta la moment de torsiune mare, in timp ce capetele de antrenare sunt tratate termic pentru a rezista la momente de torsiune mari si utilizare de lunga durata.

Cele mai inalte standarde de siguranta

Sculele pneumatice Unior se disting prin inalta lor calitate si functionarea in conditii de siguranta indeplinind cele mai inalte standarde de siguranta. Utilizarea lor simpla face sculele potrivite pentru uz domestic precum si pentru utilizatori profesionisti, care pot alege dintro gama variata de antrenoare pneumatice, ciocane pneumatice si seturi ce contin accesorii diferite.

Executare eficienta

Datorita aerului comprimat, uneltele pneumatice Unior permit executarea de actiuni variate repede, eficient, simplu si in conditii de siguranta

1531

Antrenor reversibil pneumatic 3/8"

3/8"

- *viteza de rotatie 250 rot/min*
- *Moment de torsiune max. 27 Nm*
- *Presiunea maxima de aer comprimat:6, 2 Bar*
- *Consum de aer comprimat 62 l/min*
- *Racord de aer 1/4"*
- *Diametrul maxim de strangere M 6*

Avantaje:

- *scula mica si compacta*
- *calitatea productiei*
- *maner rotitor*
- *reglare rapida si usoara a sensului de rotatie*
- *supapa de protectie previne intrarea necontrolata a aerului in scula*

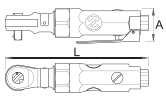
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *Folosirea capetelor de impact UNIOR este recomandata*







		A	L				
615318	3/8"	37	165	27	520	F	495,70




Scule pneumatice 3/8“ 268 - 272


Scule pneumatice 1/2“ 272 - 273


Scule pneumatice 3/4“ 273 - 274


Scule pneumatice 1“ 274


Scule pneumatice 1.1.2“ 274


Ciocan pneumatic percutor si dalti 275 - 276


Polizoare pneumatice, biaxuri pneumatice si masini de gaurit pneumatice 277 - 280


Accesorii scule pneumatice 280 - 283


Dalti SDS plus si SDS max 283

1535

Pistol pneumatic si set de capete chei tubulare 3/4 " in cutie metalica

3/8" 3/8"

- *Dimensiunea cutiei : 244 x 207 x 44*



№				
615513	1535	8 - 17 / 13	2450	860,73

1531 (3/8"), **230.4/4** (3/8" x 125, 3/8" x 75), **230.8/4** (6 - 12, 13 - 21), **230/4 6p** (8, 10, 11, 12, 13, 15, 17), **1374** (50ml)

1541

Pistol pneumatic 3/8"

3/8"

- *viteza de rotatie 10000 rot/min*
- *Moment de torsiune max. 271 Nm*
- *Presiunea maxima de aer*
- *comprimat: 6, 2 Bar*
- *Consum de aer comprimat 70 l/min*
- *Racord de aer 1/4"*
- *Diametrul maxim de strangere M10*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

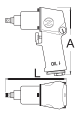
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

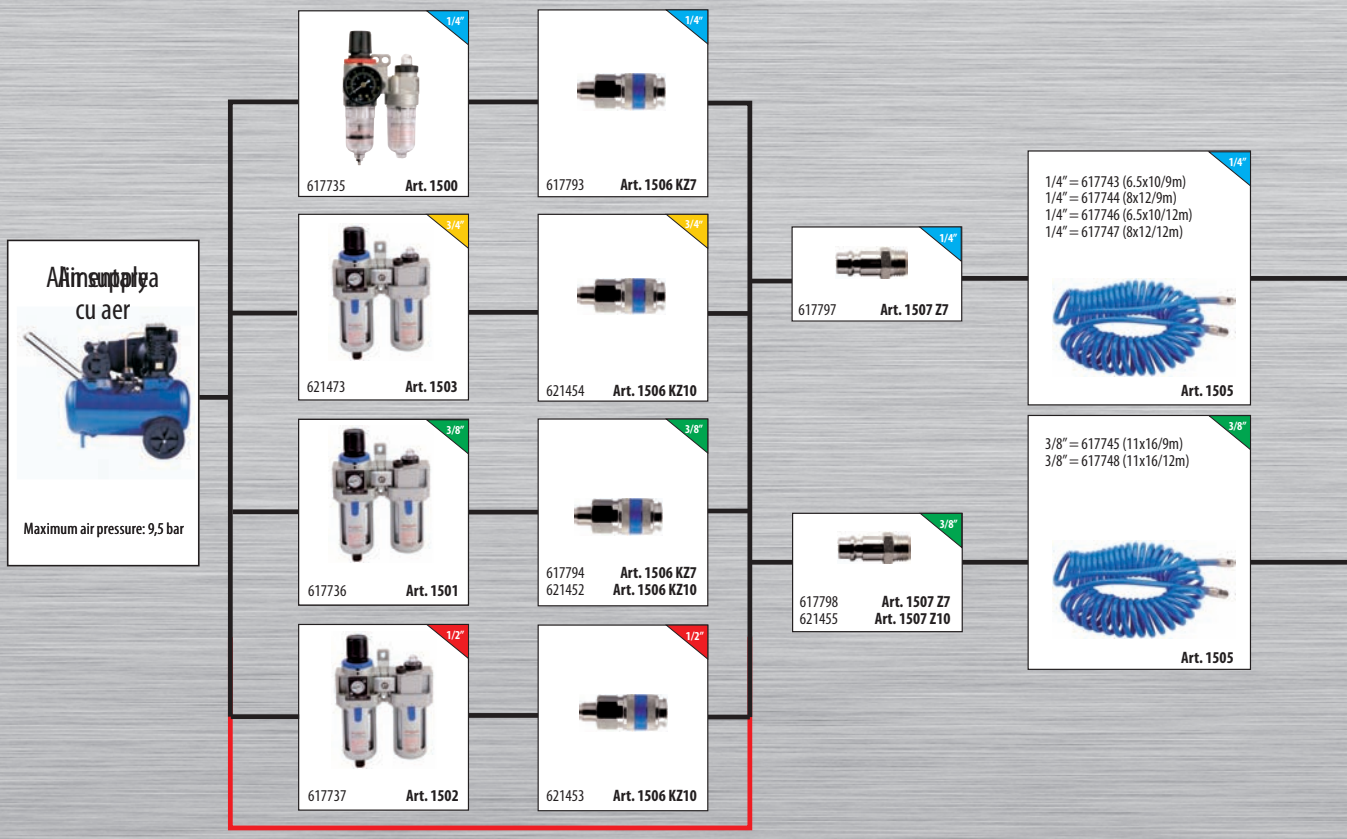
- *Folositi intotdeauna capetele chei tubulare de impact UNIOR*





		A	L				
615320	3/8"	175	139	244	1350	F	912,52

Cum se conectează uneltele pneumatice Unior?



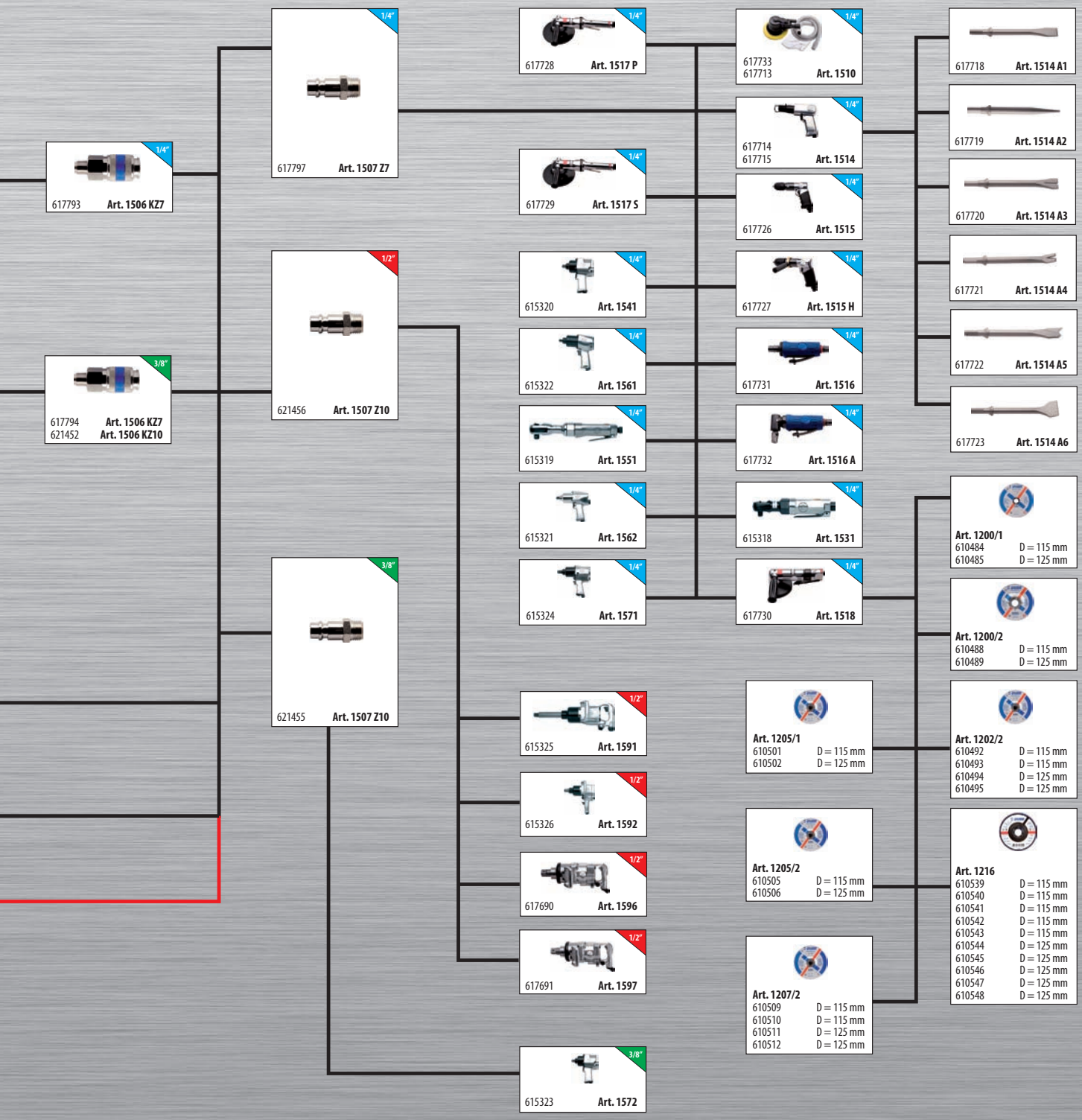
Conexiune alternativă conf. art. 1508A şi 1509B dacă se lucrează pe suprafeţe foarte curate (tabloul de bord al autovehiculului, ...)


617767 Art. 1508 A


617768 Art. 1508 B

Cum se strânge cu cheia potrivită?

	Codul	Firul de intrare	mm
1506KN7	617795	1/4"	20
1506KN7	617796	3/8"	20
1506KZ7	617793	1/4"	20
1506KZ7	617794	3/8"	20
1506KZ10	621452	3/8"	24
1506KZ10	621453	1/2"	24
1506KZ10	621454	3/4"	27
1507Z7	617797	1/4"	14
1507Z7	617798	3/8"	19
1507Z7	618483	1/2"	22
1507Z10	621455	3/8"	17
1507Z10	621456	1/2"	24
1507Z10	621457	3/4"	27


1/4"
617793 Art. 1506 KZ7
3/8"
617794 Art. 1506 KZ7
621452 Art. 1506 KZ10
1/4"
617797 Art. 1507 Z7
1/2"
621456 Art. 1507 Z10
3/8"
621455 Art. 1507 Z10
1/4"
617728 Art. 1517 P
1/4"
617729 Art. 1517 S
1/4"
615320 Art. 1541
1/4"
615322 Art. 1561
1/4"
615319 Art. 1551
1/4"
615321 Art. 1562
1/4"
615324 Art. 1571
1/2"
615325 Art. 1591
1/2"
615326 Art. 1592
1/2"
617690 Art. 1596
1/2"
617691 Art. 1597
3/8"
615323 Art. 1572
1/4"
617733
617713 Art. 1510
1/4"
617714
617715 Art. 1514
1/4"
617726 Art. 1515
1/4"
617727 Art. 1515 H
1/4"
617731 Art. 1516
1/4"
617732 Art. 1516 A
1/4"
615318 Art. 1531
1/4"
617730 Art. 1518
Art. 1205/1
610501 D = 115 mm
610502 D = 125 mm
Art. 1205/2
610505 D = 115 mm
610506 D = 125 mm
Art. 1207/2
610509 D = 115 mm
610510 D = 115 mm
610511 D = 125 mm
610512 D = 125 mm
617718 Art. 1514 A1
617719 Art. 1514 A2
617720 Art. 1514 A3
617721 Art. 1514 A4
617722 Art. 1514 A5
617723 Art. 1514 A6
Art. 1200/1
610484 D = 115 mm
610485 D = 125 mm
Art. 1200/2
610488 D = 115 mm
610489 D = 125 mm
Art. 1202/2
610492 D = 115 mm
610493 D = 115 mm
610494 D = 125 mm
610495 D = 125 mm
Art. 1216
610539 D = 115 mm
610540 D = 115 mm
610541 D = 115 mm
610542 D = 115 mm
610543 D = 115 mm
610544 D = 125 mm
610545 D = 125 mm
610546 D = 125 mm
610547 D = 125 mm
610548 D = 125 mm

1545

Pistol pneumatic si set de capete chei tubulare 3/4 " in cutie metalica

3/8" 3/8"

- *Dimensiunea cutiei: 307 x 260 x 70*



	№				
615514	1545	8 - 17 / 14	2515	G	1.298,92

1541 (3/8"), **230.4/4** (3/8" x 125, 3/8" x 75), **230.8/4** (6 - 12, 13 - 21), **230/4 6p** (8, 10, 11, 12, 13, 14, 15, 17), **1374** (50ml)

1555

Pistol pneumatic si set de capete chei tubulare 1/2 " in cutie metalica

1/2" 1/2"

- *Dimensiunea cutiei: 307 x 260 x 70*



	№				
615515	1555	10 - 24 / 14	3145	G	1.120,42

1551 (1/2"), **231.4/4** (1/2" x 125, 1/2" x 75), **231.8/4** (10 - 14, 15 - 32), **231/4 6p** (10, 13, 14, 17, 19, 21, 22, 24), **1374** (50ml)

1551

Antrenor reversibil pneumatic 1/2"

1/2"

- *viteza de rotatie 160 rot/min*
- *Moment de torsiune max. 81 Nm*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *Consum de aer comprimat 113 l/min*
- *Racord de aer 1/4"*
- *Diametrul maxim de strangere M10*

Avantaje:

- *scula mica si compacta*
- *calitatea productiei*
- *maner rotitor*
- *reglare rapida si usoara a sensului de rotatie*
- *supapa de protectie previne intrarea necontrolata a aerului in scula*

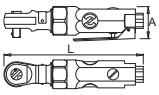
Utilizare

- *industria autoindustria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *Folosirea capetelor de impact UNIOR este recomandata*





		A	L				
615319	1/2"	45	254	81	1370	F	651,24

1561

Pistol pneumatic 1/2"

1/2"

- *viteza de rotatie 8000 rot/min*
- *Moment de torsiune max. 542 Nm*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *Consum de aer comprimat 113 l/min*
- *Racord de aer 1/4"*
- *Diametrul maxim de strangere M16*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

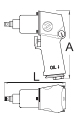
- *Folositi intotdeauna capetele chei tubulare de impact UNIOR*











		A	L				
615322	1/2"	190	188	678	2910	F	901,03

1562

Pistol pneumatic 1/2"

1/2"

- *viteza de rotatie 6500 rot/min*
- *Moment de torsiune max. 813 Nm*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *Consum de aer comprimat 124 l/min*
- *Racord de aer 1/4"*
- *Diametrul maxim de strangere M18*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

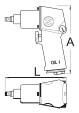
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *Folositi intotdeauna capetele chei tubulare de impact UNIOR*





		A	L				
615321	1/2"	192	204	813	2800	F	**1.144,62**

1565

Pistol pneumatic si set de capete chei tubulare 1/2 " în cutie de plastic

1/2" 1/2"

- *Dimensiunea cutiei: 346 x 292 x 83*



	№				
615516	**1565**	10 - 27 / 20	5600	G	**1.786,84**

1561 (1/2"), **231.4/4** (1/2" x 125, 1/2" x 75), **231.8/4** (10 - 14, 15 - 32), **231/4 6p** (10, 13, 17, 19, 21, 22, 24, 27), **1374** (50ml), **231/4L6p** (17, 19, 21, 22, 24, 27)

1571

Pistol pneumatic 3/4"

3/4"

- *viteza de rotatie 6500 rot/min*
- *Moment de torsiune max. 1016 Nm*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *Consum de aer comprimat 198 l/min*
- *Racord de aer 1/4"*
- *Diametrul maxim de strangere M 24*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

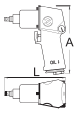
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *Folositi intotdeauna capetele chei tubulare de impact UNIOR*





		A	L				
615324	3/4"	240	236	1016	4550	F	**2.103,55**

1572

Pistol pneumatic 3/4"

3/4"

- *viteza de rotatie 5500 rot/min*
- *Moment de torsiune max. 1491 Nm*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *Consum de aer comprimat 269 l/min*
- *Racord de aer 3/8"*
- *Diametrul maxim de strangere M 30*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *Folositi intotdeauna capetele chei tubulare de impact UNIOR*





			A	L				
615323		3/4"	235	220	1491	6440	F	**3.468,61**

1575

Pistol pneumatic si set de capete chei tubulare 3/4 " in cutie

3/4"

- *Dimensiunea cutiei: 393 x 331 x 95*



№					
617161	1575	7	8330	G	2.663,63

1571 (3/4"), **232/4 6p** (19, 24, 27, 32, 36, 41)

1591

Pistol pneumatic 1"

1"

- *viteza de rotatie 4000 rot/min*
- *Moment de torsiune max. 2439 Nm*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *Consum de aer comprimat 255 l/min*
- *Racord de aer 1/2"*
- *Diametrul maxim de strangere M 36*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

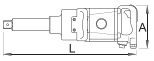
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *Folositi intotdeauna capetele chei tubulare de impact UNIOR*





		A	L				
615325	1"	180	495	2439	13600	F	4.144,40

1592

Pistol pneumatic 1"

1"

- *viteza de rotatie 4000 rot/min*
- *Moment de torsiune max. 2439 Nm*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *Consum de aer comprimat 255 l/min*
- *Racord de aer 1/2"*
- *Diametrul maxim de strangere M 36*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

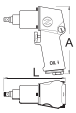
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *Folositi intotdeauna capetele chei tubulare de impact UNIOR*





		A	L				
615326	1"	280	307	2439	12800	F	4.144,40

1596

Ciocan pneumatic reversibil 1.1/2"

1½"

- *viteza de rotatie 3000 rot/min*
- *moment de torsiune max. 3388 Nm*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 410 l/min*
- *Racord de aer 1/2"*
- *dimensiunea maxima a surubului (piulitei) M 45*

Avantaje:

- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

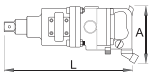
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *Folositi intotdeauna capetele chei tubulare de impact UNIOR*





		A	L				
617690	1.1/2"	145	450	3388	17800	F	11.974,25

1597

Ciocan pneumatic reversibil de 1.1/2"

1½"

- *viteza de rotatie 3000 rot/min*
- *moment de torsiune max.4065 Nm*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 435 l/min*
- *Racord de aer 1/2"*
- *diametrul maxim surub (piulita) M52*

Avantaje:

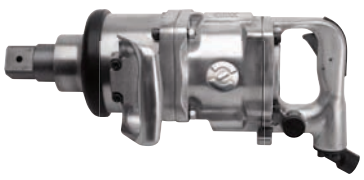
- *moment de torsiune controlat*
- *insurubare rapida*
- *o diversitate de utilizari*

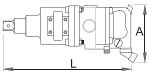
Utilizare

- *industria auto*
- *industria aerospatiala*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *montari individuale*

Important

- *Folositi intotdeauna capetele chei tubulare de impact UNIOR*





		A	L				
617691	1.1/2"	145	465	4065	18600	F	15.943,58

1514

Pistol pneumatic rotopercutor

- *utilizat pentru taierea tablelor, bolturilor si curatirea suprafetelor sudate, nituri,ipsos si tigle*
- *cu arc, inlocuire rapida ca parte de schimb*
- *piston percutor lungime: 70 - 67 mm, 225 - 92 mm*
- *diametrul interior 9,1 mm*
- *lovituri pe minut: 170 - 3000, 225 - 2100*
- *consum de aer comprimat 250 l/min*
- *Racord de aer 1/4"*

Avantaje:

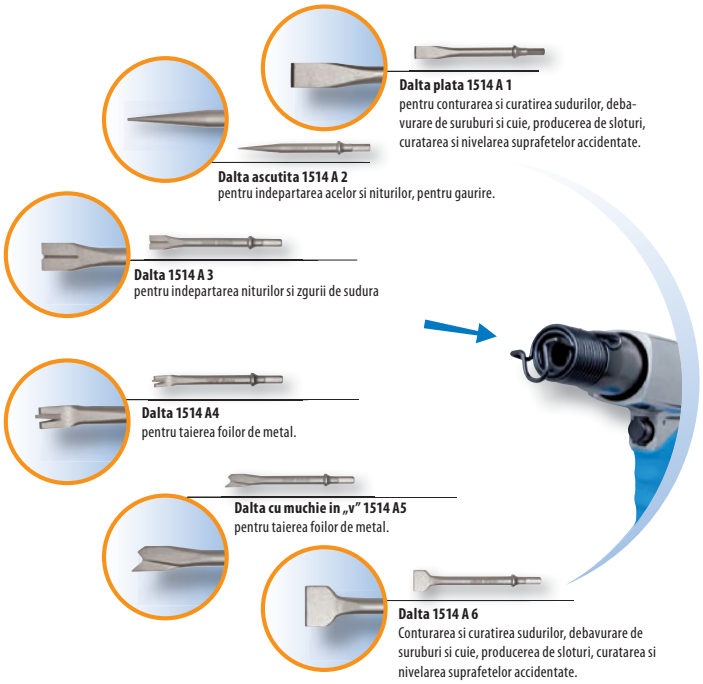
- *scula usoara si compacta, folosita de asemenea in camere mici*
- *o diversitate de utilizari*
- *sistem de retinere*

Utilizare

- *industria auto*
- *taierea bucatilor de metal si a suruburilor*
- *inlaturarea cordoanelor de sudura*
- *lucrul la pereti, beton, piatra, caramida, otel, metale usoare*



Dalti pentru pistolul pneumatic percutor art. 1514



	L	A	D			
617714	170	150	19	1810	F	**334,58**
617715	225	150	19	2160	F	**394,06**





1514.1

Arc pentru 1514



617716	69	E	**38,06**

1514.2

Dispozitiv de schimbare rapida pentru 1514

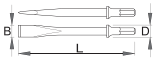


617717	351	F	**84,44**

1514A1

Dalta lata





	L	B	D			
617718	182	18	19	181	E	36,52

1514A5

Dalta cu varf in V





	L	B	D			
617722	190	19.2	19	187	E	36,52

1514A2

Dalta ascutita



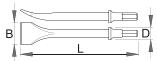


	L	B	D			
617719	180	2	19	154	E	36,52

1514A6

Dalta cu varf sapa



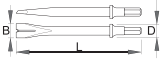


	L	B	D			
617723	178	32.8	19	207	E	36,52

1514A3

Dalta pentru nituri si curatat sudura



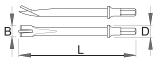


	L	B	D			
617720	180	20	19	179	E	36,52

1514A4

Dalta pentru taiat tabla





	L	B	D			
617721	180	16.7	19	178	E	36,52

1514PB

Pistol Pneumatic percutor cu set de dalti

- *Dimensiunea cutiei: 307 x 260 x 70*



	№				
619964	1514PB	7	3210	G	662,86

1514 (170), **1514A1** (182), **1514A2** (180), **1514A3** (180), **1514A4** (180), **1514A5** (190), **1514A6** (178), **981PBM2** (307 x 260 x 74)

1510

Polizor pneumatic

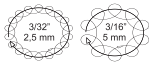
- *viteza de rotatie 1000 rotatii/minut*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 368 l/min*
- *Racord de aer 1/4"*
- *Masina pneumatica de slefuit*

Avantaje:

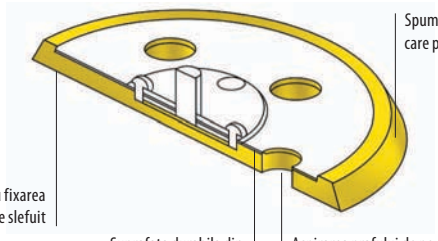
- *forma ergonomica a manerului asigura o prindere ferma si impiedica alunecarea*
- *utilizabil atat pentru mana dreapta cat si pentru mana stanga*
- *silentios si usor de manevrat*
- *buton manual de on/off*
- *exhaustarea particulelor intr-un sac pentru o suprafata de lucru curata.*
- *furtun robust si flexibil pentru curatirea prafului*
- *nu sunt permise colturi pe suprafata de lucru*
- *conditii mai bune de lucru datorita vibratiilor minime*
- *putere mare bazata pe greutate (1.2 kg)*

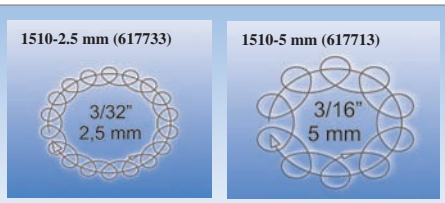
Utilizare

- *ateliere de tinichigerie*
- *pregatirea diferitelor suprafete de lucru pentru operatiile ulterioare*
- *ideal pentru slefuirea suprafetelor metalice, metale si lemn*
- *Baza slefuitorului este VELCRO™sistem care asigura slefuirea simpla,usoara,rapida*
- *si in siguranta a diferitelor parti de slefuit.Sistemul este utilizat pentru diverse*
- *ocazii , cel mai cunoscut exemplu pantofii de sport cu sistem VELCRO™*



Avantajul placii masinii de slefuit



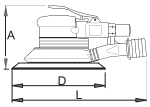


Principiul de functionare al masinii de slefuit

Aceasta functioneaza pe principiul miscarii circulare excentrice, asa cum reiese din imagine. Sistemul VELCRO permite o fixare simpla a partii de slefuire. O evacuare suplimentara a materialului slefuit previne prafuirea locatiei in care se lucreaza.







	№	L	A	D			
617733	2.5	220	105	150	1600	F	**1.465,11**
617713	5	220	105	150	1615	F	**1.506,47**





1516

Biax pneumatic

- *viteza de rotatie 25000 rotatii/minut*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 113 l/min*
- *Racord de aer 1/4"*
- *capacitate de prindere mandrina 6 mm*
- *diametrul interior furtun 10mm*

Avantaje:

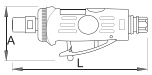
- *levier de siguranta care previne pornirea accidentala*
- *prindere simpla a discurilor de slefuire si a celorlalte parti/extensii*
- *putere mare bazata pe marime*
- *scula mica si compacta*
- *reglare continua si variabila a rotatiei*

Utilizare

- *polizare precisa*
- *polizare completa*
- *scula industriala*
- *industria auto*
- *industria aerospatiala*
- *curatarea sudurii*
- *curatarea betonului si a suprafetelor de pereti*
- *curatirea suprafetelor de lemn*
- *inlaturarea vopselelor si a lacurilor*
- *inlaturarea ruginii*
- *curatire rulmenti*
- *curatire valve motor*
- *curatire piniane si ambreiaje*
- *alte suprafete diverse*







	L	A			
617731	155	60	390	F	**414,30**





1516A

Biax pneumatic unghiular

- *viteza de rotatie 20000 rotatii/minut*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 113 l/min*
- *Racord de aer 1/4"*
- *capacitate de prindere mandrina 6 mm*
- *diametrul interior furtun 10mm*

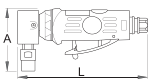
Avantaje:

- *aceasta varianta unghiulara permite accesul in zone dificile in care in mod normal nu se poate face polizarea*
- *levier de siguranta care previne pornirea accidentala*
- *prindere simpla a discurilor de slefuire si a celorlalte parti/extensii*
- *putere mare bazata pe marime*
- *scula mica si compacta*
- *reglare continua si variabila a rotatiei*

Utilizare

- *polizare precisa*
- *polizare completa*
- *scula industriala*
- *industria auto*
- *industria aerospatiala*
- *curatarea sudurii*
- *curatarea betonului si a suprafetelor de pereti*
- *curatirea suprafetelor de lemn*
- *inlaturarea vopselelor si a lacurilor*
- *inlaturarea ruginii*
- *curatire rulmenti*
- *curatire valve motor*
- *curatire piniane si ambreiaje*
- *alte suprafete diverse*









	L	A			
617732	162	76	740	F	**562,54**

1517S

Polizor pneumatic unghiular

- *viteza de rotatie 4500 rotatii/minut*
- *Presiunea maxima de aer comprimat: 6,2 Bar*
- *consum de aer comprimat 340 l/min*
- *Racord de aer 1/4"*
- *racord filetat 5/8"*

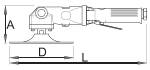
Utilizare

- *curatirea sudurii*
- *curatirea zunelor ascutite*
- *curatirea suprafetelor mici accidentate*

Avantaje:

- *scula mica si compacta*
- *utilizabil atat pentru mana dreapta cat si pentru mana stanga*
- *maner interschimbabil*
- *maner rotitor*





	L	A	D			
617729	375	100	175	2610	F	**651,24**

1517P

Polizor pneumatic unghiular

- *viteza de rotaie 2500 rotatii/minut*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 340 l/min*
- *Racord de aer 1/4"*
- *racord filetat 5/8"*

Utilizare

- *curatirea sudurii*
- *curatirea zunelor ascutite*
- *curatirea suprafetelor mici accidentate*

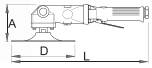
Avantaje:

- *scula mica si compacta*
- *utilizabil atat pentru mana dreapta cat si pentru mana stanga*
- *maner interschimbabil*
- *maner rotitor*









		L	A	D			
617728		375	100	175	2560	F	**732,64**

1518

Polizor pneumatic unghiular

- *viteza de rotatie 11000 rotatii/minut*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 170 l/min*
- *Racord de aer 1/4"*

Utilizare

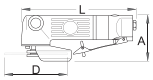
- *protectia partilor in miscare*
- *folosit de asemenea in locuri inguste*
- *scula industriala*
- *curatarea sudurii*
- *curatarea betonului si a suprafetelor de pereti*
- *curatirea suprafetelor de lemn*
- *inlaturarea vopselelor si a lacurilor*
- *inlaturarea ruginii*
- *taiere profile si table*
- *alti utilizatori casnici*

Avantaje:

- *maner interschimbabil*
- *levier de siguranta care previne pornirea accidentala*







	L	A	D			
617730	230	90	125	2175	F	**717,82**

1515

Pistol de gaurire pneumatic

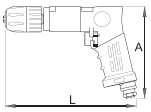
mm

- *cu schimbarea sensului de rotatie*
- *viteza de rotatie 1800 rotatii/minut*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 113 l/min*
- *Racord de aer 1/4"*
- *capacitate de prindere mandrina 1,0 - 10mm*
- *racord filetat 3/8", 24 UNF*
- *diametrul interior furtun 10mm*

Avantaje:

- *putere mare bazata pe marime*
- *greutate mica,compact si usor de manevrat*
- *maner rotitor*
- *maner cu forma ergonomica pentru lucru fara effort*
- *maner protejat pentru micsorarea vibratiilor*
- *schimbare de sens*
- *sistem de schimbare rapida*







	L	A			
617726	190	150	1360	F	**466,71**

1515H

Pistol pneumatic de gaurit cu maner

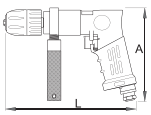
mm

- *cu schimbarea sensului de rotatie*
- *viteza de rotatie 800 rotatii/minut*
- *Presiunea maxima de aer comprimat: 6, 2 Bar*
- *consum de aer comprimat 113 l/min*
- *Racord de aer 1/4"*
- *capacitate de prindere mandrina 1,5 - 13mm*
- *racord filetat 3/8", 24 UNF*
- *diametrul interior furtun 10mm*

Avantaje:

- *putere mare bazata pe marime*
- *greutate mica,compact si usor de manevrat*
- *maner reglabil pentru o prindere buna*
- *maner rotitor*
- *maner cu forma ergonomica pentru lucru fara effort*
- *maner protejat pentru micsorarea vibratiilor*
- *schimbare de sens*
- *sistem de schimbare rapida*







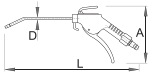
	L	A			
617727	220	150	1570	F	**750,77**

1508A

Pistol de curatire pneumatic

- *presiunea maxima de aer comprimat: 10,9 Bar*
- *consum de aer comprimat 220 l/min*





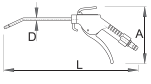
	L	A	D			
617767	260	135	6	153	E	**41,54**

1508B

Pistol pneumatic de curatire lung

- *presiunea maxima de aer comprimat: 10,9 Bar*
- *consum de aer comprimat 220 l/min*





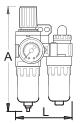
	L	A	D			
617768	420	135	6	178	E	**59,05**

1500

Filtru regulator si ungator pneumatic 1/4"

- *Racord de aer 1/4"*
- *presiune maxima de aer comprimat: 9,5 Bar*
- *consum de aer comprimat 600 l/min*
- *presiunea de lucru 0,5 - 8,5 Bar*
- *temperatura de lucru 5 - 60 °C*
- *grad de filtrare 5 microni*
- *capacitate filtru 15ml*
- *capacitate lubrificator 25ml*





	L	A			
617735	90	155	491	F	409,16

1500C

Set de pahare pentru 1500



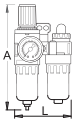
617738	71	E	102,17

1501

Filtru regulator si ungator pneumatic 3/8"

- *Racord de aer 3/8"*
- *presiune maxima de aer comprimat: 9,5 Bar*
- *consum de aer comprimat 1800 l/min*
- *presiunea de lucru 0,5 - 8,5 Bar*
- *temperatura de lucru 5 - 60 °C*
- *grad de filtrare 5 microni*
- *capacitate filtru 60ml*
- *capacitate ungator 90ml*





	L	A			
617736	150	220	1285	F	599,32

1501C

Set de pahare pentru 1501 si 1502



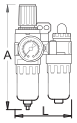
617739	175	E	159,94

1502

Filtru regulator si ungator pneumatic 1/2"

- *Racord de aer 1/2"*
- *presiune maxima de aer comprimat: 9,5 Bar*
- *presiunea de lucru 0,5 - 8,5 Bar*
- *temperatura de lucru 5 - 60 °C*
- *grad de filtrare 5 microni*
- *consum de aer comprimat 2300 l/min*
- *capacitate filtru 60ml*
- *capacitate ungator 90ml*





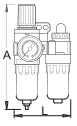
	L	A			
617737	150	220	1265	F	662,42

1503

Filtru regulator si gresor pneumatic 3/4"

- *admisie aer 3/4"*
- *presiune maxima de aer comprimat: 9,5 Bar*
- *presiunea de lucru 0,5 - 8,5 Bar*
- *temperatura de lucru 5 - 60 °C*
- *grad de filtrare 5 microni*
- *consum de aer 2500 l/min*
- *capacitate filtru 60ml*
- *capacitate ungator 90ml*





	L	A			
621473	190	240	1805	F	764,28

1500PG

Manometru de presiune pentru 1500



617741	63	F	44,26

1501PG

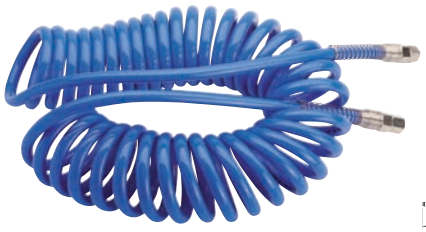
Manometru de presiune pentru 1501 in 1502



617742	16	F	52,23

1505

Furtun pneumatic elicoidal



	L (m)	D			
617743	9	6.5 x 10	850	E	126,59
617744	9	8 x 12	894	E	154,70
617745	9	11 x 16	1526	E	253,13
617746	12	6.5 x 10	835	E	194,96
617747	12	8 x 12	1076	E	246,71
617748	12	11 x 16	1847	E	328,28

1506PZ

Cuplaj, partea mama

- *carcasa de plastic*
- *filet exterior*



			L			
617788	R1/4"	19	72	133	E	157,78
617789	R3/8"	19	70	137	E	157,78
617790	R1/2"	22	75	145	E	157,78

1506KZ7

Cuplaj, partea mama

- *carcasa metalica*
- *filet exterior*



			L			
617793	R1/4"	20	58	98	E	37,97
617794	R3/8"	20	54	101	E	38,76

1506KZ10

Cuplaj, partea mama

- *carcasa metalica*
- *filet exterior*



			L			
621452	3/8"	24	62.5	149	E	114,75
621453	1/2"	24	65.0	156	E	114,75
621454	3/4"	27	67.1	191	E	128,57

1506KN7

Cuplaj,partea mama

- *carcasa metalica*
- *filet interior*

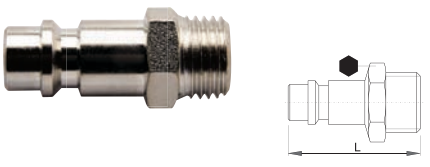


			L			
617795	R1/4"	20	54.5	113	E	39,56
617796	R3/8"	20	55	105	E	39,56

1507Z7

Cuplaj, partea tata

- *diametrul interior furtun O 7mm*
- *filet exterior*



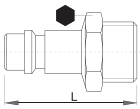
			L			
617797	R1/4"	14	34	24	E	9,06
617798	R3/8"	19	36.5	34	E	9,99
618483	R1/2"	22	39	40	E	16,15

1507Z10

Cuplaj, partea tata

- *filet exterior*
- *diametrul furtunului interior 10 mm*



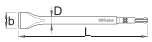


			L			
621455	3/8"	17	39.4	38	E	25,08
621456	1/2"	24	39.4	53	E	29,74
621457	3/4"	27	48.5	86	E	41,18

650.1/6

Dalta lata SDS plus



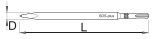


	L	D	b			
616831	250	14	20	260	B	58,52

650.2/6

Dalta ascutita SDS plus



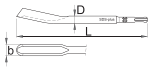


	L	D			
616832	250	14	246	B	58,52

650.3/6

Dalta canelata SDS plus



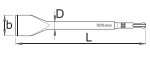


	L	D	b			
616833	250	16	22	347	B	103,09

650.4/6

Dalta cu varf lat SDS plus





	L	D	b			
616834	250	16	40	351	B	95,52

651.1/7

Dalta lata SDS max





	L	D	b			
616835	280	18	25	507	B	76,12
616836	400	18	25	740	B	78,32
616837	600	18	25	1133	E	113,43

651.2/7

Dalta ascutita SDS max



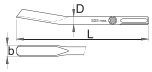


	L	D			
616838	280	18	482	B	76,12
616839	400	18	717	B	78,32
616840	600	18	1105	E	113,43

651.3/7

Dalta canelata SDS max



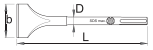


	L	D	b			
616842	300	18	26	518	B	173,80

651.4/7

Dalta cu varf lat SDS max





	L	D	b			
616841	300	18	80	729	B	182,34

Producator European din 1919

Scule pentru măsurat

Producator European din 1919

Precizie în măsurare

Rulete, chei de rotaţie cu protecţie contra supraîncărcării, şublere cu vernier (de asemenea şi digital), nivelă cu bulă de aer, trepiede şi nivela cu bulă de aer pentru zidari şi etaloane sunt elemente excelente de reprezentare a instrumentelor de măsurare precisă, fără de care o planificare şi execuţie a lucrărilor este imposibil de imaginat.

Versiuni multiple

Sculele de precizie Unior sunt disponibile în variante clasice şi în versiuni digitale cu cronometre şi alte accesorii. Toate sculele sunt proiectate şi fabricate în conformitate cu standardele internaţionale actuale.

Utilizare sigură

Sculele de măsurare sunt precise şi în acelaşi timp uşor de utilizat - atât în măsurătorile generale cu rulete clasice în diferite variante, precum şi în lucrări ale zidarilor şi lăcătuşilor, măsurare a filetelor, etc.

260

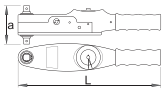
Cheie dinamometrica cu ceas 1/4" — 1/4"

- *toate modelele sunt dotate cu clichet reversibil*
- *toate modelele au protectie la suprasarcina*
- *toate modelele cu citire directa*
- *toate modelele sunt livrate in cutii robuste de protectie*
- *in conformitate cu standardul ISO 6789*
- *scala duala in lbf.ft si Nm*

Important

- *Nu folosiți cheia dinamometria pentru deșurubare!*
- *Aplicati momentul de torsiune numai in directia indicata pe stiker.Stikerul va indica sensul corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri de la data cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucrul.*
- *Cand momentul reglat este atins va rugam sa opriti actionarea cheii.*
- *Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*





	Nm	lbf.ft	a	L	■			
607138	2.4 - 12	4 - 120	61	244	1/4"	815	F	2.656,85

261

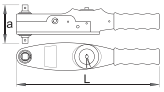
Cheie dinamometrica cu ceas 3/8" — 3/8"

- *toate modelele sunt dotate cu clichet reversibil*
- *toate modelele au protectie la suprasarcina*
- *toate modelele cu citire directa*
- *toate modelele sunt livrate in cutii robuste de protectie*
- *in conformitate cu standardul ISO 6789*
- *scala duala in lbf.ft si Nm*

Important

- *Nu folosiți cheia dinamometria pentru deșurubare!*
- *Aplicati momentul de torsiune numai in directia indicata pe stiker.Stikerul*
- *va indica sensul corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de stran-*
- *geri de la data cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucrul.*
- *Cand momentul reglat este atins va rugam sa opriti actionarea cheii.*
- *Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*

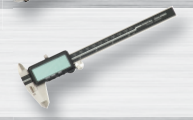




	Nm	lbf.ft	a	L	■			
607139	8 - 40	20 - 360	69	244	3/8"	813	F	2.656,85




Chei dinamometrice 284 - 288


Subler electronic; multiplicator de cuplu 288 - 289


Ruleta 289 - 290


Nivela 290 - 291


Echer 292


Rigla de zidarie 293


Ac de trasat, metru pliant, plumb, Scriber, flat rule, plumb, pencil creion de tamplarie 293

262

Cheie dinamometrica cu ceas 1/2"

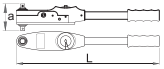
1/2"

- *toate modelele sunt dotate cu clichet reversibil*
- *toate modelele au protectie la suprasarcina*
- *toate modelele cu citire directa*
- *toate modelele sunt livrate in cutii robuste de*
- *protectie*
- *in conformitate cu standardul ISO 6789*
- *scala duala in lbf.ft si Nm*

Important

- *Nu folosiți cheia dinamometria pentru deșurubare!*
- *Aplicati momentul de torsiune numai in direc-tia indicata pe stiker.Stikerul va indica sensul*
- *corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este*
- *de 12 luni sau 5000 de strangeri de la data*
- *cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucrul.*
- *Cand momentul reglat este atins va rugam sa opriti actionarea cheii.*
- *Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*

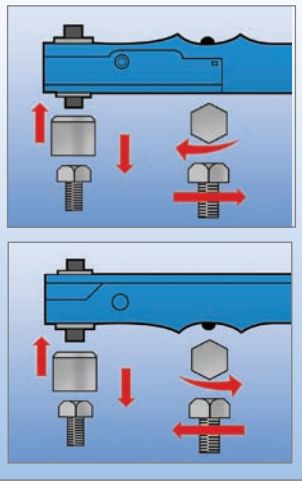




	Nm	lbf.ft	a	L	■			
607140	16 - 80	50 - 600	86	435	1/2"	1965	F	4.040,48

CARACTERISTICI ALE:

260, 262





263B

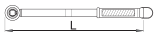
Ceheie dinamomentrica cu reglaj si declansator 1/2"

1/2"

- *Acuratete: +/-3%*
- *scala micrometrica pentru reglari simple si precise*
- *reglare cu sistem de blocare pentru setarile cheii*
- *Aplicarea momentului intr-un singur sens si intotdeauna in directia indicata*
- *pe manerul cheii*
- *clichetul lucreaza in ambele sensuri , are 75 de dinti si 5 grade unghiul de rotire*
- *maner bimaterial din doua componente*
- *scala duala in lbf.ft si Nm*

- ***Important***
- *Nu folosiți cheia dinamometria pentru deșurubare!*
- *Aplicati momentul de torsiune numai in directia indicata pe stiker.Stikerul va*
- *indica sensul corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri*
- *de la data cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucrul.*
- *Cand momentul reglat este atins va rugam sa opriti actionarea cheii.Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*





620109	8 - 50	8 - 35	280	1/2"	615	F	779,64

263A

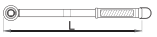
Cheie dinamometrica cu reglaj si declansator 1/2"

1/2"

- *Acuratete: +/-3%*
- *scala micrometrica pentru reglari simple si precise*
- *reglare cu sistem de blocare pentru setarile cheii*
- *Aplicarea momentului:in ambele sensuri, dar intotdeauna in directia*
- *indicata pe manerul cheii*
- *maner bimaterial din doua componente*
- *scala duala in lbf.ft si Nm*

- ***Important***
- *Nu folosiți cheia dinamometria pentru deșurubare!*
- *Aplicati momentul de torsiune numai in directia indicata pe stiker.Stikerul*
- *va indica sensul corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri*
- *de la data cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucrul.*
- *Cand momentul reglat este atins va rugam sa opriti actionarea cheii.Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*





620110	30 - 150	20 - 110	455	1/2"	1300	F	816,77
620111	50 - 250	40 - 185	560	1/2"	1645	F	928,14

263L

Cheie dinamometrica cu declansator 1/2"

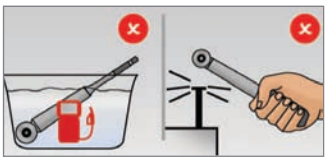
1/2"

- *toate modelele sunt dotate cu clichet reversibil*
- *Aplicarea momentului:in ambele sensuri, dar intotdeauna in directia indicata pe*
- *manerul cheii*
- *toate modelele au protectie la suprasarcina*
- *toate modelele cu citire directa*
- *toate modelele sunt livrate in cutii robuste de protectie*
- *scala duala in lbf.ft si Nm*
- *Recalibrarea cheii se efectueaza la un interval de 12 luni de utilizare sau aproximativ 5000 de cicluri!*
- *in conformitate cu standardul ISO 6789*

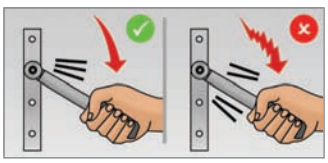
Important

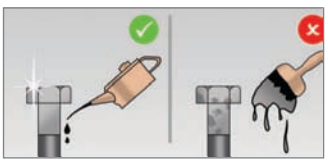
- *Nu folosiți cheia dinamometria pentru deșurubare!*
- *Aplicati momentul de torsiune numai in directia indicata pe stiker.Stikerul va*
- *indica sensul corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri de la*
- *data cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucrul.*
- *Cand momentul reglat este atins va rugam sa opriti actionarea cheii.Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*

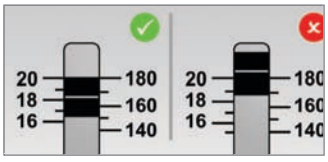


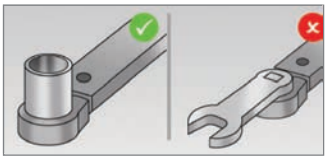














607948	60 - 330	45 - 250	675	1/2"	1710	F	1.517,82

264

Cheie dinamometrica cu declansator

- *capul cu clichet reversibil*
- *Aplicarea momentului intr-un singur sens si intotdeauna in directia indicata pe*
- *manerul cheii*
- *cheia lucreaza in sensul acelor de ceasornic si in sens invers acestora*
- *pentru actionare la stanga sau la dreapta*
- *nu lipseste semnalul la momentul prestabilit*
- *Recalibrarea cheii se efectueaza la un interval de 12 luni de utilizare sau aproxima-*
- *tiv 5000 de cicluri!*
- *in conformitate cu standardul ISO 6789*
- *scala dubla, N.M si lbf.ft*
-
- ***Important***
- *Nu folosiți cheia dinamometria pentru deșurubare!*
- *Aplicati momentul de torsiune numai in directia indicata pe stiker.Stikerul va indica*
- *sensul corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri de la data cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucrul.Cand momentul reglat este atins va rugam sa opriti actionarea cheii.Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*

PAS CU PAS mod de reglare cheie dinamometrica 264



1. descurubati boltul filetat pentru deblocarea manerului de reglaj al cheii dinamometrice

2. reglati momentul de torsiune dorit

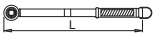


3. insurubati boltul filetat pentru a bloca cheia la momentul de torsiune reglat.

4. AJUSTAT si START pentru strangerea controlata (in sensul de rotatie prescris)

5. cand vei auzi un semnalul (click) ati ajuns la momentul de torsiune reglat si opriti manevrarea cheii.







			L			
615485	1/4"	2 - 24	275	686	F	**335,10**
615486	3/8"	5 - 110	306	1100	F	**335,10**
615487	1/2"	28 - 210	450	1680	F	**335,10**
615488	1/2"	35 - 350	635	2930	F	**512,47**
615489	3/4"	70 - 560	850	5600	F	**972,36**
615490	3/4"	140 - 700	1060	8200	F	**1.773,95**
615491	1"	140 - 980	1120	8800	F	**2.102,41**

265

Cheie dinamometrica industriala 3/4"

3/4"

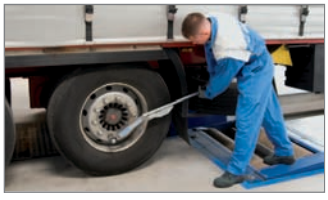
- *constructia robusta ii confera o acuratete in rezultate, de +/-4% , chiar in conditii*
- *grele de lucru*
- *fiecare cheie este livrata cu un certificat de calibrare in conformitate cu ISO*
- *9000:2000*
- *unghiul mare de frangere imbunatateste acuratetea reducand posibilitate de*
- *suprasarcina a momentului*
- *Cama de control a mecanismului confera o frangere controlata care nu va permi-*
- *te balansul operatorului*
- *Aplicarea momentului:in ambele sensuri, dar intotdeauna in directia indicata pe*
- *manerul cheii*
- *scala dubla N.m si lbf.ft*
- *in conformitate cu standardul ISO 6789*

Utilizare

- *echipament agricol*
- *sectorul de constructii*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *industria aerospatiala*
- *Nu folosiți cheia dinamometria pentru deșurubare!*

- ***Important***
- *Scula trebuie folosita cu o forta constanta si respectand instructiunile de utilizare*
- *Aplicati momentul de torsiune numai in directia indicata pe stiker.Stikerul va*
- *indica sensul corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri de la*
- *data cumpararii.*
- *INTOTDEAUNA aduceti mecanismul de reglare la punctul de start cand terminati lucrul.*
- *Cand momentul reglat este atins va rugam sa opriti actionarea cheii.Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*









				L			
616801	3/4"	150 - 700	100 - 500	1090	9000	F	**3.580,59**
616802	3/4"	200 - 800	150 - 600	1140	9200	F	**3.616,93**
616803	3/4"	300 - 1000	200 - 750	1470	7400	F	**3.668,54**

267A

Chei dinamometrice cu moment presetat pentru auto

1/2" Nm lbf.ft

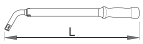
- *material: crom vanadiu*
- *indeplineste prevederile ISO 6789,ANSI 107.14M si US Fed GGG-W-686D*
- *Momentul este presetat*
- *usor de utilizat si calibrat*
- *calibrare di fabrica pentru acuratete de +/- 4%*

Important

- *Nu folosiți cheia dinamometria pentru deșurubare!*
- *Aplicati momentul de torsiune numai in directia indicata pe stiker. Stikerul va indica sensul corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri de la data cumpararii.*
- *Cand momentul reglat este atins va rugam sa opriti actionarea cheii.*
- *Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*







		Nm	lbf.ft		L			
618915		90	66.4		400	1340	F	251,20
618916		100	73.7		400	1335	F	251,86
618917		110	81.1		400	1335	F	252,65
618918		120	88.5		400	1335	F	261,67
618919		130	95.9		400	1335	F	262,28

267B

Chei dinamometrice cu moment presetat pentru camioane

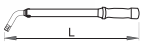
3/4" Nm lbf.ft

- *material: crom vanadiu*
- *indeplineste prevederile ISO 6789,ANSI 107.14M si US Fed GGG-W-686D*
- *Momentul este presetat*
- *usor de utilizat si calibrat*
- *calibrare di fabrica pentru acuratete de +/- 4%*

Important

- *Nu folosiți cheia dinamometria pentru deșurubare!*
- *Aplicati momentul de torsiune numai in directia indicata pe stiker. Stikerul va indica sensul corect de strangere.*
- *Intervalul dintre doua calibrari ale cheii este de 12 luni sau 5000 de strangeri de la data cumpararii.*
- *Cand momentul reglat este atins va rugam sa opriti actionarea cheii.*
- *Cheia dinamometrica poate fi deteriorata daca instructiunile din manualul de utilizare nu sunt respectate.*









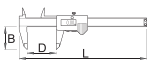
		Nm	lbf.ft		L			
618920		400	295		950	4650	F	566,10
618921		450	332		950	4650	F	570,15
618922		500	369		950	4680	F	571,12
618923		550	406		950	4665	F	577,19
618924		600	442		950	4670	F	578,56

270A

Subler electronic

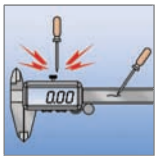
- *rezolutie: 0, 02mm/0,001"*
- *viteza de masurare: 1.5m/sec*
- *functii:masurarea dimensiunilor interioare, exterioare, adancimi si intervale*
- *in conformitate cu standardul DIN 862*
- *scala dubla inch si kgm*













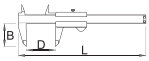
	D	B	L			
619881	0 - 150	40	235	460	F	226,60

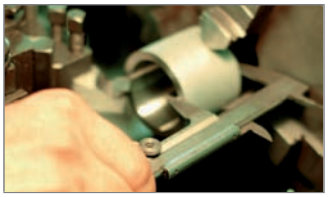
271

Subler

- *precizie: 0, 01mm/0,0005"*
- *functii: masurarea dimensiunilor interioare, exterioare, adancimi si intervale*
- *in conformitate cu standardul DIN 862*
- *scala dubla inch si kgm*









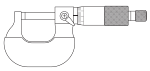
	D	B	L			
612035	0 - 150	40	235	240	F	117,26

272

micrometru de exterior

- *confectionat din otel de calitate. Suprafata de masurare confectionata din aliaj rezistent*
- *ax 6,5mm dia., cu maner ce se blocheaza si clichet*
- *in concordanta cu DIN 863*
- *domeniul de masurare 0 - 25mm, indicator minimal 0,01mm*
- *conform cu standardul DIN 863*





617698	300	F	**168,39**

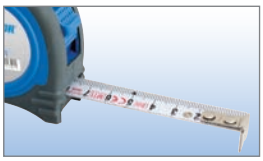


710P

Rulete

- *carcasa din doua materiale*
- *cu blocare si bratara de prindere*







	m	ft	d			
612131	2	0	16	113	A	**12,54**
612132	3	0	16	140	A	**17,95**
612133	5	0	19	230	A	**28,07**
612134	8	0	25	441	A	**53,59**
612135	10	0	25	470	A	**66,35**
612784	2	6	16	114	A	**12,54**
612785	3	10	16	142	A	**17,95**
612786	5	16	19	230	A	**28,07**
612787	8	26	25	442	A	**53,59**
612788	10	33	25	470	A	**66,35**

280

Multiplicator de cuplu

- *5:1 moment de multiplicare, acuratete garantata de +/-4%*
- *livrat cu doua modele de bare de antrenare pentru o maxima polivalenta*
- *Constructie robusta necesitand intretinere minima si durata de exploatare lunga*
- *Livrat intr-o cutie de protectie.Ideala pentru a fi inclusa intr-un kit de lucrari grele.*

Avantaje:

- *Definirea exacta a multiplicarii-nu este nevoie de un tabel de conversie*
- *utilizarea simpla nu necesita cunostinte suplimentare*

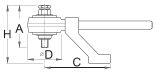
Utilizare

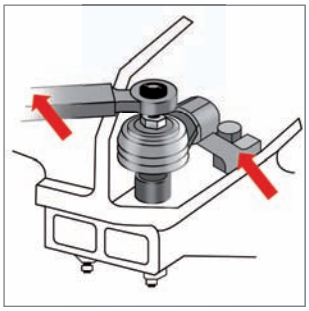
- *constructii*
- *echipament agricol*
- *industria grea*
- *constructia de masini*
- *industria de constructii navale*
- *industria aerospatiala*
- *elemente de agregate industriale*
- *rafinarii*

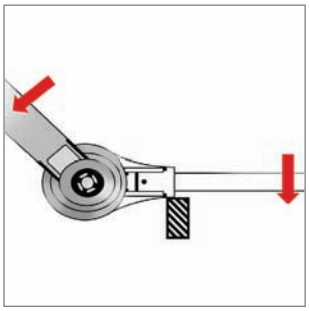
Important

- *Folosirea capetelor de impact UNIOR este recomandata*
- *Nu trebuie sa depasim niciodata momentul de torsiune indicat al multiplicatorului*









						D	A	C	H			
616804	1300	960	5 : 1	1/2" (32mm)	3/4"	108	126	210	180	7000	F	**5.934,32**
616805	2700	2000	5 : 1	3/4" (36mm)	1"	108	128	210	186	7000	F	**5.949,72**

710R

Rulete

- *carcasa palstic din doua materiale*
- *cu blocare si bratara de prindere*







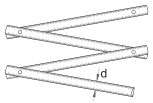
	m	ft	d			
612789	2	0	16	113	A	**8,80**
612790	3	0	16	140	A	**12,54**
612791	5	0	19	230	A	**19,67**
612792	8	0	25	441	A	**37,53**
612793	2	6	16	113	A	**8,80**
612794	3	10	16	140	A	**12,54**
612795	5	16	19	230	A	**19,67**
612796	8	26	25	441	A	**37,53**

710W

Metru pliant

- *metru din lemn de fag pliant*
- *mm - gradatii imprimate pe ambele parti*
- *Clasa de precizie III*





	m	d			
609365	2	16	125	E	**22,13**

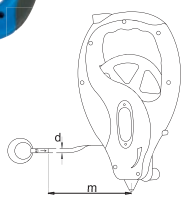
714

Ruleta lunga

- *carcasa de plastic din doua materiale*
- *banda de otel imbracata in invelis acrilic pentru o durata de viata mai lunga*
- *viteza de 6 ori mai mare la strangere*







	m	d			
621525	50	13	1100	G	**98,56**

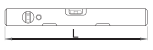


1250

Nivele de aluminiu

- *profil de aluminiu de calitate, dimensiune 48x22mm*
- *eloxat argintiu*
- *prevazute cu bule rezistenta la soc*
- *precizia de 0.5 mm/m*
- *acuratete prin testare electronica*





	L			
610716	300	220	K	**54,78**
610717	400	270	K	**62,48**
610718	500	340	K	**71,28**
610719	600	380	K	**73,92**
610720	800	510	K	**85,80**
610721	1000	600	K	**97,72**
610722	1200	680	K	**117,13**
610723	1500	900	K	**139,74**
610724	2000	1200	K	**176,00**

1252

Nivele de aluminiu cu bula de aer si cu magnet

- *profil de aluminiu de calitate, dimensiune 48x22mm*
- *eloxat argintiu*
- *prevazute cu bule rezistenta la soc*
- *precizia de 0.5 mm/m*
- *acuratete prin testare electronica*
- *suprafata de masurare este echipata cu doi magneti*



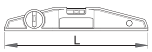
	L			
610725	400	530	K	107,49
610726	500	580	K	114,44
610727	600	640	K	125,18
610728	800	820	K	130,02
610729	1000	1080	K	192,41

1253

Nivela cu bula de aer

- *carcasa confectionata din aliaj de aluminiu Al Si12*
- *cu 2 fiole*
- *cu suprafata de masurare frezata*
- *Acuratete: 0,5mm/m*





	L			
617699	300	336	K	75,72
617700	400	435	K	84,26
617701	500	534	K	95,22
617702	600	640	K	104,72

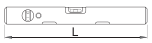


1255

Nivela profesionala

- *cu o bula orizontala si doua verticale din plastic*
- *Acuratetea de masurare in pozitie normala 0,5 mm/m*
- *Acuratetea de masurare in pozitie rasturnata normala 0,75 mm/m*
- *pereti rezistenti,cu intarituri pe exterior si peretii interiori permitand cresterea*
- *rigiditatii si rezistentei la deformare*
- *bula orizontala cu fundal fluorescent permitand lucrul in zone mai putin luminate*





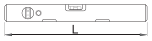
		L			
618874		300	326	K	136,71
618875		400	414	K	143,66
618876		500	503	K	151,76
618877		600	591	K	159,76
618878		800	766	K	178,60
618879		1000	940	K	199,36
618880		1200	1118	K	231,04
618881		1500	1389	K	268,97
618882		1800	1644	K	302,59
618883		2000	1806	K	357,24
618884		2500	2257	K	446,56

1255H

Nivela profesionala

- *cu o bula orizontala si doua verticale din plastic*
- *doua manere ergonomice*
- *Acuratetea de masurare in pozitie normala 0,5 mm/m*
- *Acuratetea de masurare in pozitie rasturnata normala 0,75 mm/m*
- *pereti rezistenti,cu intarituri pe exterior si peretii interiori permitand*
- *cresterea rigiditatii si rezistentei la deformare*
- *bula orizontala cu fundal fluorescent permitand lucrul in zone mai putin luminate*





		L			
618885		600	572	K	186,43
618886		800	748	K	205,30
618887		1000	924	K	226,07
618888		1200	1098	K	259,07
618889		1500	1365	K	296,74
618890		1800	1626	K	330,97
618891		2000	2020	K	385,79
618892		2500	2232	K	482,24

1260/7

Echere

- *mateial:confectionat din otel*
- *masuara suprafete de asezare*
- *acuratete: 0,01425° = 0,25mm/m*





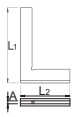
	L1	L2	A			
610730	125	85	5	140	E	**51,35**
610731	150	100	5	205	E	**60,24**
610732	200	130	5	385	E	**64,42**
610733	250	165	5	500	E	**82,19**
610734	300	200	5	575	E	**91,08**

1260/7A

Echere cu talpa

- *mateial: confectionat din otel*
- *masuara suprafete de asezare*
- *acuratete: 0,01425° = 0,25mm/m*
- *talpa este prinsa de bratul scurt*





	L1	L2	A			
610736	150	100	5	205	E	**109,34**
610738	250	165	5	500	E	**147,27**
610739	300	200	5	575	E	**158,93**

1262/5

Echere de zidarie

- *mateial: confectionat din otel*
- *acoperire:zincare*
- *precizie: +/- 0,0285° = 0,5mm/m*





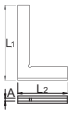
	L1	L2	A			
610740	125	85	5	140	E	**41,93**
610741	150	100	5	205	E	**50,29**
610742	200	130	5	385	E	**57,90**
610743	250	160	5	500	E	**68,20**
610744	300	175	5	470	E	**75,20**

1262/5A

Echer de tamplarie cu talpa

- *mateial:confectionat din otel*
- *acoperire: zincare*
- *precizie: +/- 0,0285° = 0,5mm/m*
- *talpa este prinsa de bratul scurt*





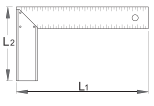
	L1	L2	A			
617154	125	85	5	140	E	**62,92**
617155	150	100	5	205	E	**75,37**
617156	200	130	5	385	E	**86,86**
617157	250	160	5	500	E	**102,39**
617158	300	175	5	470	E	**112,77**

1263

Echer

- *latura de masurare confectionata din otel rapid tratat termic,*
- *40×1,2mm, cu gradatii - mm*
- *Suportul talpii este confectionat din profil de aluminiu acoperit negru, forma- I 40×14mm*
- *Acuratete: 0,5mm/m*





	L1	L2			
617693	250	135	205	E	**46,99**
617694	300	135	225	E	**48,05**
617695	350	190	300	E	**51,66**
617696	400	190	315	E	**53,11**
617697	500	210	370	E	**58,87**

1270

Rigle de zidarie

- *profil special de aluminiu*
- *la capete cu protectii de plastic*
- *cu doua bule*
- *utilizate pentru masurarea si aplatizarea suprafetelor mari verticale si orizontale in constructii*



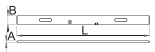
		L	B	A			
610745		2000	100	18	1800	K	**193,86**
610746		2500	100	18	2300	K	**216,35**
610747		3000	100	18	2700	K	**254,80**
610748		4000	100	18	3600	K	**323,27**

1272

Rigle de zidarie

- *profil special de aluminiu*
- *cu doua manere si doua bule*
- *utilizat pentru lucrari de fatade, pavaje,suprafete denivelate, in primul rand pentru lucrari in constructii mai usoare si mai precise.*





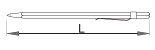
	L	B	A			
610751	1000	100	18	900	K	**160,95**
610752	1500	100	18	1350	K	**186,34**
610753	2000	100	18	1800	K	**211,68**
610754	2500	100	18	2300	K	**239,71**
610755	3000	100	18	2700	K	**275,35**
610756	4000	100	18	3600	K	**346,46**

1279

Ac de trasat

- *confectionat din otel de calitate*
- *echipat cu clip de buzunar*
- *cu varful confectionat din otel aliat de calitate care asigura o viata indelungata pe diferite suprafete dure.*





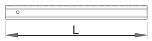
	L			
617692	150	34	A	**18,39**

1280

Rigla gradata

- *confectionata din aluminiu acoperit argintiu profilat de*
- *sectiune 60 x 5 mm cu fateta*
- *cu gradatii pe o partre in mm*





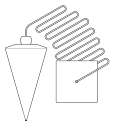
	L			
617703	400	262	E	**59,84**
617704	500	321	E	**66,26**
617705	600	386	E	**73,70**
617706	800	510	E	**88,22**
617707	1000	641	E	**101,46**

1290/5

Plumb

- *confectionat din otel de calitate*
- *cu sfoara de 4 metri lungime*





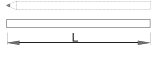
617725	170	F	**61,12**

1299

Creion de tâmplărie-set de 10 piese

- *confectionat din lemn de calitate*
- *grafit dur HB*





	L			
617724	180	7	F	**20,55**

Scule pentru electronisti

Producator European din 1919

Precizie

Sculele pentru electronisti se disting prin acuratetea fabricarii si functionalitatea excelenta care garanteaza o adaptare corespunzatoare fata de obiectul la care se lucreaza, chiar si in locatii greu accesibile.

Eficacitate

Unealta asigura mai multe functii, precum debitarea, inlaturarea si presarea cablurilor, ceea ce asigura o executie mai rapida si fara efort fizic suplimentar.

Durabilitate

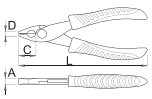
Materialele de caliate impiedica uzura rapida a sculei, elementele de siguranta faciliteaza efectuarea reparatiilor fara riscul de ranire si forma ergonomica asigura utilizarea simpla, confortabila si in conditii de siguranta.

406/4E

Cleste combinat pentru electronisti

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial pentru conditii grele*





	L	B	C	A			
620069	120	13.6	15.8	8.2	90	B	**76.21**

Sarcina maxima (10N=1kg)

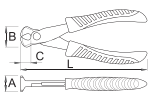
	L	max 750 N/mm² TØ
620069	120	1,5

455/4E

Cleste cu tais fata pentru electronisti

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *manere bimaterial pentru conditii grele*





	L	B	C	A			
620071	110	16.6	8.1	13.2	94	B	**92.80**

Sarcina maxima (10N=1kg)

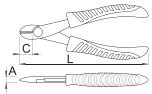
	L	max 750 N/mm² TØ
620071	110	1,5

461/4E

Cleste tais lateral pentru electronisti

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *manere bimaterial pentru conditii grele*





	L	B	A	C			
620072	115	13	8.2	13.5	95	B	**74.05**

Sarcina maxima (10N=1kg)

	L	max 750 N/mm² TØ
620072	115	1,5



 Clesti 294 - 296

 Surubelnite late 296

 Surubelnite cu profil PH 296

 Surubelnite cu profil Torx 296

 Surubelnite cu profil PZ si surubelnita cu cap tubular 296

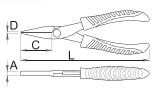
 Seturi 296 - 297

472/4E

Cleste cu varfuri plate pentru electronisti

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partea de prindere dintata*
- *manere bimaterial pentru conditii grele*





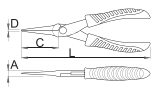
	L	C	A			
620070	135	32.5	8.2	105	B	74.05

506/4E

Cleste cu varfuri semirotunde drepte pentru electronisti

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *manere bimaterial pentru conditii grele*





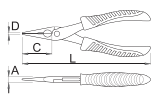
	L	B	D	A	C			
620073	140	12.6	3.2	2.4	41.8	99	B	76.21

508/4E

Cleste cu varfuri semirotunde pentru electronisti

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *partile taietoare tratate prin inductie*
- *partea de prindere dintata*
- *manere bimaterial pentru conditii grele*





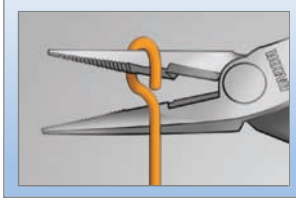
	L	B	D	A	C			
620074	135	12.6	3.2	2.4	32.5	90	B	74.05

Sarcina maxima (10N=1kg)

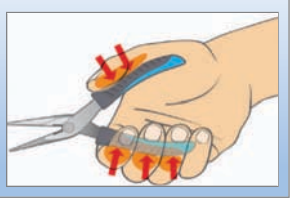
	L	max 750 N/mm²
620074	135	1,5

SPECIFIC PENTRU:

508/4E





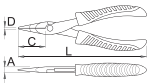


512/4E

Cleste cu varfuri semirotunde pentru electronisti

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *manere bimaterial pentru conditii grele*





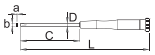
	L	B	D	A			
620075	140	12.6	3.2	8.2	97	B	**76.21**

605E

Surubelnite varf plat pentru electronisti

- *material: tija - crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *manercu cap rotitor*





	a x b	C	L	D			
608296	0.25 x 1.2	60	153	2.5	10	A	**17.12**
608297	0.23 x 1.5	60	153	2.5	11	A	**16.76**
608298	0.3 x 1.8	60	153	2.5	12	A	**16.54**
608299	0.4 x 2.5	75	168	2.5	12	A	**15.44**
608300	0.5 x 3.0	100	193	3	13	A	**14.17**
608301	0.5 x 3.0	150	243	3	18	A	**15.58**
608302	0.8 x 4.0	100	193	4	23	A	**15.97**
608303	0.8 x 4.0	150	243	4	28	A	**16.63**

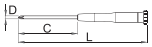
615E

Surubelnite pentru electronisti

- *material: tija - crom vanadiu tratat complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *manercu cap rotitor*







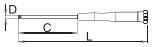
		C	L	D			
608304	PH 000	60	153	2.5	12	A	**22.84**
608305	PH 00	60	153	2.5	12	A	**19.54**
608306	PH 0	60	153	3	14	A	**13.73**
608307	PH 1	80	173	4.5	22	A	**14.17**

621E

Surubelnite pentru electronisti TX

- *material: tija - crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *manercu cap rotitor*





		C	L	D			
604546	TX 4	60	153	3	12	A	**17.29**
604547	TX 5	60	153	3	12	A	**17.29**
608310	TX 6	60	153	3	13	A	**17.29**
608311	TX 7	60	153	3	14	A	**17.29**
608312	TX 8	60	153	3	12	A	**17.29**
608313	TX 9	60	153	3	15	A	**17.51**
608314	TX 10	60	153	3	14	A	**17.51**
608315	TX 15	60	153	3.5	17	A	**17.51**
608316	TX 20	80	173	4	19	A	**18.48**

625E

Surubelnite pentru electronisti PZ

- *material: tija - crom vanadiu tratat complet*
- *maner ergonomic rezistent bimaterial*
- *model cu protectie anticoroziva*
- *manercu cap rotitor*





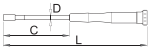
		C	L	D			
608308	PZ 0	60	153	3	13	A	**14.34**
608309	PZ 1	80	173	4.5	26	A	**14.83**

629E

Cap cheie tubulara cu maner pentru electronist

- *material: tija - crom vanadiu tratata complet*
- *maner ergonomic rezistent bimaterial*
- *manercu cap rotitor*





			C	L	D			
618903		2.5	60	153	4.5	21	A	**40.44**
618904		3	60	153	4.5	23	A	**40.44**
618905		3.2	60	153	4.5	24	A	**41.54**
618906		3.5	60	153	4.5	25	A	**41.54**
618907		4	60	153	4.5	27	A	**41.51**
618908		5	60	153	4.5	29	A	**41.54**
618909		5.5	60	153	4.5	28	A	**41.54**

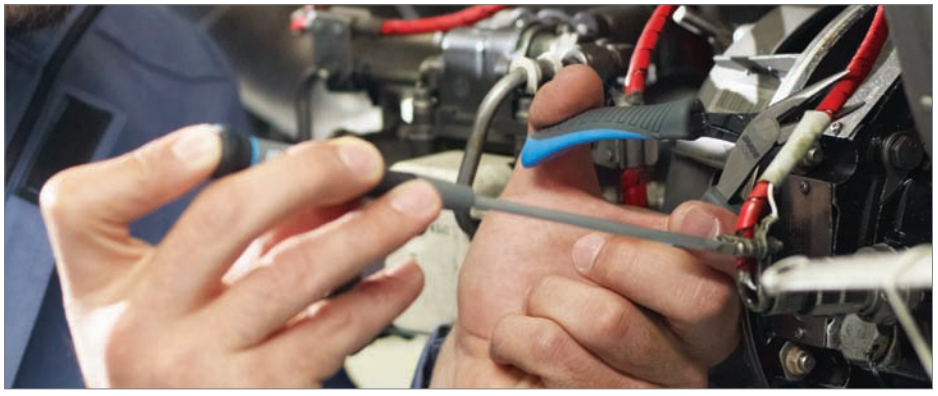
403A

Set de clesti electronisti in husa



	№				
620212	**403A**	6	733	E	**553.12**

406/4E (120), **455/4E** (110),
461/4E (115), **472/4E** (135),
506/4E (140), **512/4E** (140)





607CS7E

Set de surubelnite pentru electronisti in cutie de carton



	№				
620960	607CS7E	7	170	G	109.56

605E (0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100),
615E (PH 00 x 60, PH 0 x 60, PH 1 x 80)

403B

Set de clesti electronisti in display de carton



	№				
620963	403B	3	350	G	224.27

406/4E (120), **461/4E** (115), **508/4E** (135)

608CS5E

Set de surubelnite pentru electronisti in cutie de carton



	№				
620962	608CS5E	5	133	G	84,61

615E (PH 000 x 60, PH 00 x 60, PH 0 x 60, PH 1 x 80),
625E (PZ 0 x 60)

621CS7E

Set de surubelnite pentru electronisti in cutie de carton



	№				
620961	621CS7E	TX 6 - TX 20 / 7	166	G	122.94

621E (TX 6, TX 7, TX 8, TX 9, TX 10, TX 15, TX 20)

403C

Set de clesti pentru electronisti si surubelnite in cutie de plastic

- *Diemnsiunea cutiei: 307 x 260 x 55 mm*



	№				
621692	403C	11	975	G	530,60

605E (0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100), **615E** (PH 00 x 60, PH 0 x 60, PH 1 x 80),
472/4E (135), **455/4E** (110), **461/4E** (115), **508/4E** (135)

606CS5E

Set de surubelnite pentru electronisti in cutie de carton



	№				
620959	606CS5E	5	131	G	78.89

605E (0.23 x 1.5 x 60, 0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100)

Producator European din 1919

607S50E

Set de surubelnite electronice pe stand tip display



	№				
609953	607S50E	50	1600	F	1,143.82

605E (0.25 x 1.2 x 60, 0.23 x 1.5 x 60, 0.3 x 1.8 x 60, 0.4 x 2.5 x 75, 0.5 x 3.0 x 100),
615E (PH 000 x 60, PH 00 x 60, PH 1 x 80), **625E** (PZ 0 x 60, PZ 1 x 80),
978E (230 x 135 x 185)

Scule auto

Suprafata de protectie

Sculele auto sunt fabricate din otel de calitate cu compozitia imbunatatita. Cateva modele prezinta suplimentar fata de aceasta suprafata de protectie cromata.

Mâner ergonomic

Cu manere ergonomice si o suprafata speciala de prindere, sculele auto Unior ofera maxim de confort la locul de munca si eficienta inalta cu minimum de efort.

Precizie inalta

Cu design-ul lor perfect si tehnologia superioara, sculele auto Unior asigura o interventie de mare precizie in caz de utilizare generala sau speciala.

Usor de utilizat

Adaptate complet pentru utilizarea speciala, ce nu necesita efort inutil.

2076/1

Extractor de prezoane

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *polizate*
- *sistemul blocheaza prezoanele in ambele directii*
- *extragere usoara a prezoanelor*

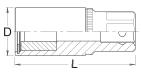
Mod de utilizare

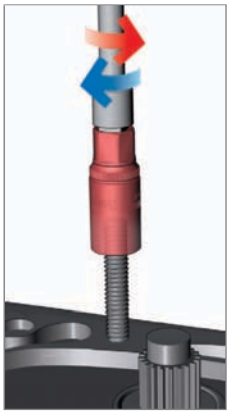
1. *Pozitionati extractorul pe prezon*
2. *START rotiti extractorul in sensul acelor de ceasornic*
3. *Cand prezonul a fost extras in mod simplu impingeti extractorul*

IMPORTANT: nu utilizati extractorul pentru strangerea prezoanelor!

- *Prezoanele sunt suruburi fara o suprafata de actionare, fiind necesara actionarea lor fara deteriorarea filetului. Aceasta scula este destinata extragerii prezoanelor protejand zona filetata. Extractorul lucreaza cu ajutorul a trei role interioare care blocheaza prezonul in trei puncte in timpul desfiletarii fara a afecta zona filetata. Cele trei role nu au suprafete ascutite ceea ce duce la protectia filetului. Cu toate acestea scula poate lucra in ambele sensuri de rotatie. Insurubarea prezoanelor cu aceasta scula nu este recomandata, deoarece o forta mare la strangere poate duce la deteriorarea celor trei role care sunt dimensionate doar pentru eliberarea prezoanelor.*









		L	D						
619238	M 5	60	21.5	19	3/8"	-	133	E	**71,90**
619239	M 6	60	23.5	21	1/2"	-	134	E	**71,90**
619240	M 7	60	23.5	21	1/2"	-	131	E	**71,90**
619241	M 8	60	23.5	21	1/2"	-	128	E	**71,90**
619242	M 10	69	27.5	21	1/2"	-	186	E	**75,86**
619243	M 12	69	27.5	21	1/2"	-	190	E	**75,86**
619244	M 14	72	34.3	21	-	16	271	E	**109,60**
619245	R 1/4"	60	23.5	21	1/2"	-	133	E	**69,87**
619246	R 5/16"	60	23.5	21	1/2"	-	129	E	**69,87**
619247	R 3/8"	69	27.5	21	1/2"	-	188	E	**75,86**
619248	R 7/16"	69	27.5	21	1/2"	-	187	E	**75,86**
619249	R 1/2"	72	34.3	21	-	16	275	E	**109,60**




Scule pentru intretinere 298 - 304


Scule pentru lubrifiere si filtrare 304 - 307


Scule pentru caroserie 307 - 314


Scule pentru roti, pentru directie si pentru centrare 314 - 320


Scule pentru suspensie si pentru butuci 320 - 321


Scule pentru instalatia electrica auto 321 - 329


Scule pentru motor 329 - 334


Seturi de scule SOS 334 - 335

2077/2BI

Cleste coliere

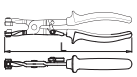
- *material: otel carbon de scule*
- *material varf pivotant otel special de scule*
- *pentru majoritatea tipurilor de coliere*
- *pentru coliere la sistemul de alimentare, racire, spalare stergator etc.*
- *pozitia inchisa permite inlocuirea usoara a colierelor.*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *Clesti pentru coliere sunt folositi pentru deschiderea colierelor, asigurand schimbarea rapida si in siguranta a furtunelor elastice. Scula este utilizata si pentru strangerea colierelor pe furtune asigurand fixarea acestora in pozitia corecta si curgerea corecta a lichidelor prin furtune. Clestele a fost proiectat ca sa lucreze cu un efort minim pentru a crea presiunea de deschidere a colierelor, cu protejarea furtunelor. Forma clestelui a fost gandita pentru a putea lucra in locurile inguste, permitand manuirea usoara a acestuia. Strangerea ferma si rapida este asigurata de forma manerelor. Utilizati pentru: Alfa Romeo, Audi, Citroen, Ford, Fiat, Hunday, Lancia, MAN, Opel/Vauxwall, Peugeot, Porche, Renault, Seat, Toyota, VW, Volvo, etc.*











	L			
619250	235	301	B	198,57

2078/2BI

Clesti de coliere pentru forma OETKER

- *material: otel carbon de scule*
- *pentru industraia auto, presarea colierelor OETKER*
- *Deformarea precisa a urechilor colierelor*
- *forma lunga pentru deformarea usoara a urechilor de fixare*
- *pentru aproape toate tipurile de autoturisme*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *Clesti pentru coliere sunt folositi pentru deschiderea colierelor, asigurand schimbarea rapida si in siguranta a furtunelor elastice. Scula este utilizata si pentru strangerea colierelor pe furtune asigurand fixarea acestora in pozitia corecta si curgerea corecta a lichidelor prin furtune. Clestele a fost proiectat ca sa lucreze cu un efort minim pentru a crea presiunea de deschidere a colierelor, cu protejarea furtunelor. Forma clestelui a fost gandita pentru a putea lucra in locurile inguste, permitand manuirea usoara a acestuia. Strangerea ferma si rapida este asigurata de forma manerelor*
- *Pentru: Audi, BMW, Chreysler, Ford, GM, Honda, Mazda, Mercedes, Nissan, Opel/ Vauxhall, VW*



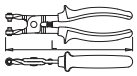
	L			
619251	230	316	B	**227,92**

2079/2BI

Cleste pentru racordurile de combustibil

- *material: otel carbon de scule*
- *pentru deconectarea furtunelor de combustibil*
- *arc de redeschidere*
- *finisare: cromat in conformitate cu standardul EN12540*
- *varfuri brunate*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *Clestele este destinat decuplarii si cuplarii rapide a colierelor furtunelor*
- *de combustibil. Clestele este prevazut cu doi pini pe falci ce comprima cuplele in timpul operatiilor de reparatii sau schimbare a furtunelor (furtunele pot fi inlocuite). Falcile sunt dimensionate si reglate in asa fel incat sa asigure o munca usoara si in siguranta, asigurand de asemenea o forta mare de actionare intr-un spatiu restrans.*
- *Utilizat pentru Opel/Vauxwall, Fiat, GM, VW, Renault etc.*





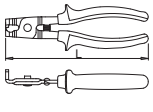
	L			
619252	206	264	B	**137,54**

2080/2BI

Cleste pentru coliere CLIC

- *material: otel carbon de scule*
- *pentru montarea si demontarea clierelor cu arc-clips*
- *separarea si inchiderea cu rotire de 180 grade a clestelui*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *Clesti pentru coliere sunt folositi pentru deschiderea colierelor, asigurand schimbarea rapida si in siguranta a furtunelor elastice.Scula este utilizata si pentru strangerea colierelor pe furtune asigurand fixarea acestora in pozitia corecta si curgerea corecta a lichidelor prin furtune. Clestele a fost proiectat ca sa lucreze cu un efort minim pentru a crea presiunea de deschidere a colierelor, cu protejarea furtunelor. Forma clestelui a fost gandita pentru a putea lucra in locurile inguste, permitand manuirea usoara a acestuia. Strangerea ferma si rapida este asigurata de forma manerelor*
- *pentru: Audi, Citroen, Fiat, Mercedes, Opel/Vauxhall, Peugeot, VW, Renault etc.*





	L			
619253	190	244	B	**135,17**

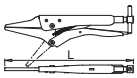
2081/3

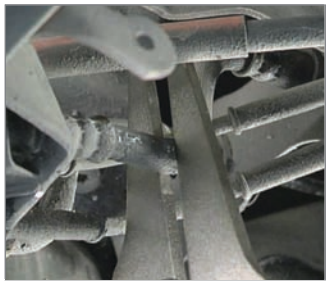
Cleste pentru blocarea furtunelor de lichide

- *material: falci din otel special de scule*
- *manere din tabla*
- *utilizat pentru oprirea lichidelor din furtune:ulei, benzina, motorina….*
- *forma falcilor este plata ceea ce nu duce la deteriorarea furtunelor*
- *Manerul in forma de T acoperit cu plastic asigura blocarea suplimentara.*
- *oprire rapida si simpla a curgerii lichidelor prin furtune*
- *mecanism universal de blocare*
- *Scula de obturare a scurgerii lichidelor este indispensabila la schimbarea diverselor componente la autoturisme, componente racordate la furtune. Functionalitatea principala a sculei este de a obtura scurgerea de fluid prin furtune, putand astfel interveni la diversele componente racordate cu acestea fara a intrerupe sau a pierde lichidul ce trece prin aceste componente. Scula se foloseste pentru furtunele de la autoturisme, camioane, masini agricole sau diverse motoare ale ambarcatiunilor nautice, pentru furtune cu diametrul maxim de 55 mm, peste acest diametrul scurgerea de lichid nu mai este garantata.*











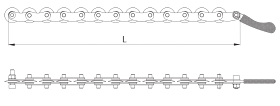
	L				
619254	285	55	611	E	163,94

2082.1

Lant d eschimb pentru art.2082

- *material: otel aliat*





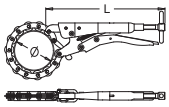
	L			
619256	305	184	E	167,95

2082/3

Cleste pentru taierea conductelor de esapare.

- *material: falci din otel special de scule*
- *manere din tabla*
- *utilizat pentru taierea conductelor de esapare si inlocuirea partiala a acestora*
- *Capacitatea de taiere 25-85 mm*
- *manerul in forma de T din plastic asigura o strangere mai buna in utilizare*
- *mecanism universal de blocare*
- *lant lung d etaiere*
- *Dispozitivul este in primul rand destinat taierii tevilor de esapare, dar datorita designului si cutitelor dispuse pe zalele lantului poate fi folosit si pentru taierea tevilor de cupru, plastic, si altor tevi cu diametre cuprinse intre 25 si 85 mm. Scula este usoara si sigura in utilizare datorita accesoriilor acesteia: lant lung de taiere asigura utilizarea pana la diametre de 85 mm, lame de taiere ce asigura taieri de tevi de otel pan ala grosimi de 3 mm, tevi de cupru pana la 4 mm, PVC pana la 5 mm, manerul in forma de T plasizolat asigura o forta minima de taiere, mareste prinderea si impiedica alunecarea*















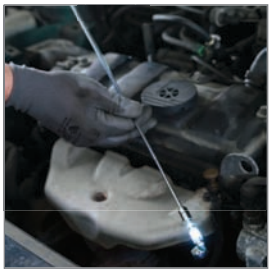
	L	ØI	ØT			
619255	330	25	85	765	G	366,70

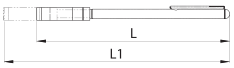
2083

Recuperator magnetic telescopic cu lumina

- *pentru recuperarea suruburilor, piulitelor si saibelor*
- *bateriile protejate contra umiditatii*
- *include set de 3 baterii 3 LR41*
- *Cu iluminare pentru zonele intunecoase ale masinii*
- *Scula este destinata recuperarii pieselor mici cazute in spatii greu accesibile. Este prevazuta cu lumina care se activeaza in mod automat la deschiderea telescopului. Se foloseste in spatii inguste si greu accesibile ale motorului. Cand partea telescopica nu este necesara rotiti capul si aceasta se stinge. Scula are un clips de agatare.*







	L	L1				
619741	170	660	0.5	55	F	**68,38**

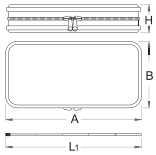
2084

Set de inspectie auto profesional

- *cu LED de utilizare indelungata*
- *livrata in cutie de plastic*
- *capacitatea de ridicare magnetica 3,5 kg*
- *Setul include: 1 buc oglinda rotunda de O60, 1 buc oglinda dreptunghiulara 65x*
- *42 mm, 2 buc biti, 3 baterii L1154F, geanta cu suport SOS*
- *Aditional la partea cu led setul include oglinzi suplimentare care dau posibilitatea de a vizualiza zonele intunecate si greu accesibile. Scula este destinata de asemenea recuperarii obiectelor mici metalice din zone greu accesibile ale motorului ca suruburi, piulite, saibe etc. Setul este prevazut cu o husa cu suport SOS pentru fixarea componentelor.*







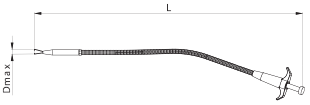
	A	B	H	L1				
619742	240	110	45	650	3.5	360	E	**265,72**

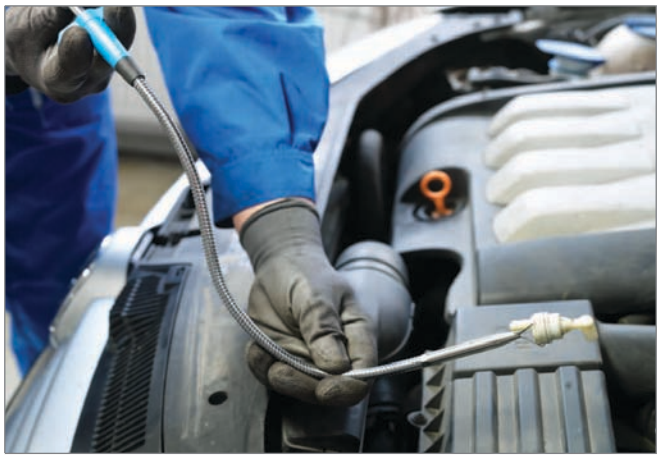
2085

Scula de agatare obiecte mici

- *pentru agatarea si recuperarea obiectelor mici nemetalice, bolturi, suruburi, piulite.*
- *Aceasta scula reglabila permite accesul in zone greu accesibile. Ea asigura apucarea obiectelor, are trei brate care realizeaza prinderea sau destinderea prin presarea butonului de capat.*







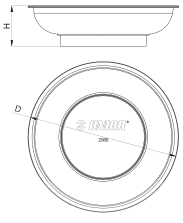
	L	D			
619883	510	15	150	A	**112,90**

2086

Farfurie magnetica

- *Material: otel inox rezistent la oxidare*
- *magnet permanent puternic cu cauciuc de protectie pe partea de jos a acesteia*
- *poate fi folosita in orice pozitie*
- *asigura gestionarea pieselor mici in acelasi loc*
- *pentru utilizare in garaje, motoare si bancuri de lucru.*
- *pentru orice piese mica, bolturi si piese metalica*
- *Cu ajutorul magnetului puternic protejat de cauciuc, farfuria magnetica este recomandata pentru orice aplicatie industriala, de la magazia de piese de schimb oriunde unde exista parti metalice la care poate fi atasata. Se poate utiliza in toate pozitiile, magnetul este atat de puterc incat farfuria poate fi atasata si cu fata in jos. Este recomandata pentru suruburi, piulite pentru a nu fi ratacite sau pierdute in timpul lucrului si pentru a le stoca unitar intr-un singur loc, usurand astfel operatiile de remontare a diverselor componente.*





	D	H				
619728	150	40	3	387	F	**31,42**



2087

Recuperator magnetic flexibil

- *Recuperatorul magnetic flexibil este destinat recuperarii obiectelor mici*
- *metalice din locuri greu accesibile*
- *Este prevazut cu un brat flexibil si un magnet puternic*
- *Magnetul este capabil de a ridica obiecte de pana la 1 kg*
- *Scula este prevazuta cu un maner ergonomic care asigura eficienta operatiilor de executat*

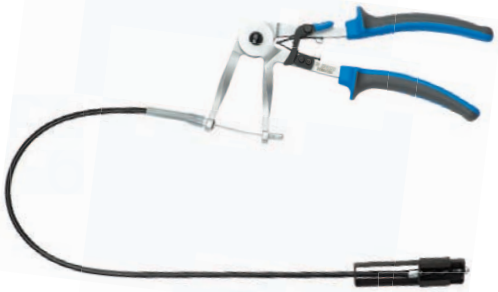


619929	1	127	B	**70,75**

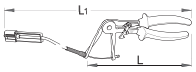
2089/2BI

Clesti cu clema arc automata

- *material: otel carbon de scule*
- *material varf pivotant otel special de scule*
- *pentru majoritatea tipurilor de coliere*
- *pentru coliere la sistemul de alimentare, racire, spalare stergator etc.*
- *pozitia inchisa permite inlocuirea usoara a colierelor.*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*
- *Clestii sunt folositi pentru deschiderea clemelor cu arc pentru tevi folosite la sistemele de racire si incalzire, care asigura indepartrea rapida si sigura a tevilor de pe extensiile de tevi. Recomandate pentru clemelecu arc cu prinderi intre 18 si 54 mm. Cablul Bowden de 600 mm lungime asigura o folosire eficienta in locurile greu accesibile unde nu se poate ajunge la cleme cu alti clesti. Clestele are un blocator dintat cu 8 pozitii pentru deschiderea clemelor sau fixarea lor intr-o pozitie data care face ca demontarea clemelor sa se faca usor si fara nici un efort suplimentar. Manerele sunt proiectate in asa fel incat atunci cand falcile clestelui sunt deschise la maxim sunt usor de strans cu minimul de efort posibil. Folositi pentru: Alfa Romeo, Audi, Citroen, Fiat, Ford, Hyundai, Lancia, MAN, Mercedes, Opel/Vauxhall, Peugeot, Porsche, Renault, Seat, Toyota, VW, Volvo, etc.*







620234	230	600	415	C	**250,93**



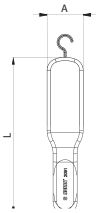
2091

Lanterna cu LED

- *cu 26 LED-uri (21 in fata si 5 deasupra)*
- *21de LED-uri pot lumina intre 4 si 5 ore, cele 5 LED-uri de deasupra 13 ore*
- *cu 2 carlige ajustabile*
- *cu 3 magneti*
- *unghi de ajustare simplu de la 0 la 180 grade*
- *facut din plastic user friendly*
- *cu 2 adaptoare (12/24V in 100-240 V)*
- *magnetul de dedesupt insumeaza toata greutatea lanternei cu LED*
- *baterie Li-Ion*





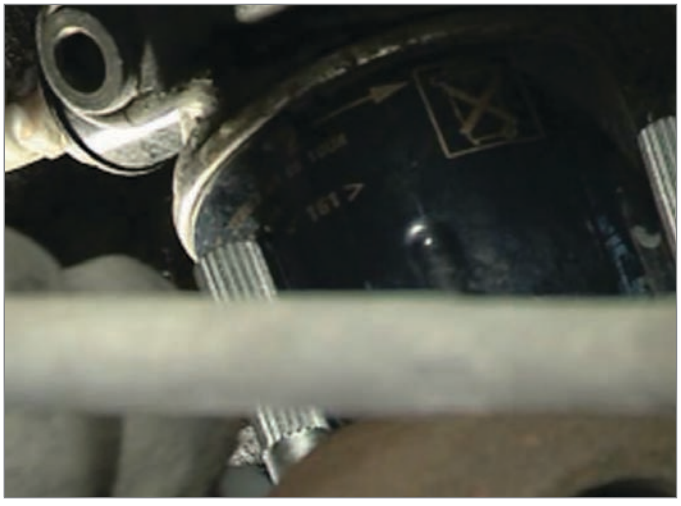



	L	A			
620237	250	55	512	G	**364,32**

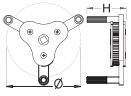
1976/2

Cheie reglabila filtru de ulei

- *material brate reglabile: otel carbon*
- *se utilizeaza pentru toate tipurile de filtre de la 60 la 120 mm*
- *bratele sunt nervurate pentru o mai buna priza a filtrului*
- *pentru montarea si demontarea filtrelor de ulei*
- *utilizat cu antrenor cu clichet reversibil 3/8" si prelungitorul adecvat*
- *Un service are de obicei nevoie sa efectueze operatia de inlocuire a filtrelor de*
- *ulei, de aceea am creat aceasta scula cu utilizare la majoritatea tipurilor de*
- *autoturisme. Cand se utilizeaza in functie de tipul filtrului se strange blocandu-l.*
- *Cheia poate fi utilizata pentru filtre de la 60 la 120 mm diametru.Datorita spa-*
tiului restrans in timpul schimbarii, scula este proiectata sa aiba nevoie de cat mai putin spatiu de manevra. Datorita formei bratelor si a nervurilor se poate utiliza la filtre fara striuri permitand strangerea filtrelor ce nu ar putea fi utilizate cu metodele conventionale. Scula lucreaza in ambele directii ceea ce permite strangerea si desfacerea filtrelor, cu efort minim.









	Ø⤓	Ø⤒		H			
619257	60	120	3/8"	60	635	G	**256,56**

1977/6

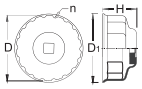
Cheie pentru filtrul de ulei

- *utilizat cu antrenor cu clichet reversibil 3/8" si prelungitorul adecvat*
- *pentru montarea si demontarea filtrelor de ulei*
- *Pentru inlocuirea filtrelor de ulei in locuri greu accesibile*
- *acoperire prin electroeroziune pentru protectie impotriva ruginei*
- *Scula functioneaza in 8 pozitii fapt ce permite utilizarea ei la majoritatea autoturismelor pentru schimbarea filtrelor de ulei. Utilizaera ei este foarte simpla, necesitand montarea pe filtru si rotirea usoara. Scula poate fi utilizata si pentru montarea filtrelor de ulei, prin designul cheii de filtru aceasta asigura o strangere optima. Suprafata de protectie a cheii ii confera rezistenta la zgarieturi si la agentii atmosferici si chimici.*



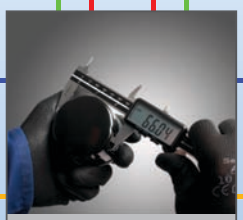


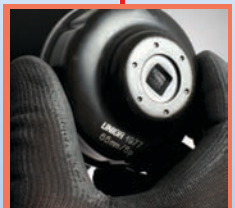




	D	360°/n	D1	H			
620949	27	6	37.5	33.5	68	E	**31,06**
620950	32	6	43.5	34.6	81	E	**31,90**
620951	36	6	48.4	34.9	89	E	**32,56**
619258	66	6	73	37	124	E	**27,54**
619259	65	14	70.7	36.8	129	E	**27,54**
619260	74	15	81	36	146	E	**29,04**
619261	75 - 77	15	81.4	41.8	165	E	**29,04**
619262	76	12	82	35	137	E	**29,04**
620952	76	14	81.3	37	160	E	**27,54**
619263	86	16	96	47.2	201	E	**29,04**
619264	86	18	92	39.5	171	E	**29,04**
619265	96	18	102	36.8	190	E	**29,04**







6 laturi
12 laturi
14 laturi
15 laturi
16 laturi
18 laturi

27mm (620949) plat
32mm (620950) plat
76mm (619262) nervurat
36mm (620951) plat
65mm (619259) plat
76mm (620952) plat
74mm (619260) plat
75/77mm (619261) nervurat
86mm (619263) plat
86mm (619264) nervurat
96mm (619265) nervurat
nervurat

plat
nervurat

1977PB12

Set de chei filtru de ulei în cutie de plastic



	№				
622702	1977PB12	12	2300	S	487,52

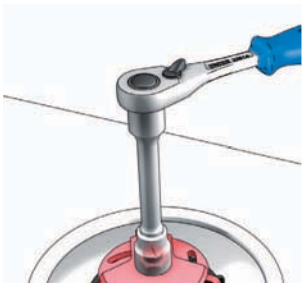
◎ **1977/6** (27 x 6, 32 x 6, 36 x 6, 66 x 6, 65 x 14, 74 x 15, 75 - 77 x 15, 76 x 12, 76 x 14, 86 x 16, 86 x 18, 96 x 18)

1978/2

Cheie pentru rezervorul de benzina

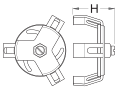
- *material otel carbon de scule*
- *pentru demontarea busonului de la rezervorul de benzina*
- *acces rapid la piulita rezervorului de combustibil*
- *se utilizeaza cu un cap cheie tubulara sau cheie fixa cu deschiderea 22 mm*
- *pentru montare si demontare*
- *Scula are trei brate mobile care strange capacul rezrvorului de benzina ferm. Accesul la acest buson este dificil cand trebuie inlocuit, aceasta scula necesita minim de spatiu. Utilizarea este simpla, se monteaza scula pe buson si se roteste in directia dorita. Scula se strange pe forma busonului si il roteste usor. Inlocuirea busonului de la rezervorul de combustibil este simpla.Scula este sigura si fiabila in timp.*









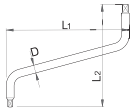


	D⇩	D⇧		H			
619266	120	155	22	73	670	G	203,28

175/2

Cheie shimbat ulei la cutia de viteze

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*





		L1	L2	D			
605112	8 x 10	203	169	10	305	A	29,66

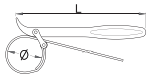
205/2

Cheie filtru de ulei

- *material: crome vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *banda din invelis de cauciuc*







	L	Ø⇩	Ø⇧			
601024	220	60	140	225	E	59,80

205.1

Banda pentru 205/2

- *banda din invelis de cauciuc*



602841	62	E	38,59

206/2

Cheie cu lant

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*



	L	Ø↓	Ø↑			
601025	220	60	140	330	E	**115,24**

206.1

Lant pentru art. 206



	L			
620938	500	150	E	**22,53**

1900

Set pentru repararea caroseriei



	№				
619226	**1900**	6	7200	F	**888,58**
	1923 (86), **1925** (133), **1927** (121), **1929** (236), **1934** (325), **1936** (325)				

1980

Tester optic in cutie de plastic









621403	315	G	**455,09**

1901

Set pentru repararea caroseriei

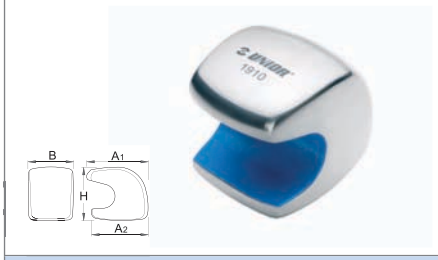


	№				
619227	**1901**	7	7270	F	**1.080,46**
	1932 (325), **1934** (325), **1936** (325), **1924** (76), **1925** (133), **1926** (79), **1927** (121)				

1910

Nicovala curbata

- *material: otel carbon de scule*
- *cap polizat oglinda*



	A1	A2	B	H			
619206	80	74	58	70	1573	E	181,41

1911

Nicovala de mana profilata

- *material: otel carbon de scule*
- *cap polizat oglinda*



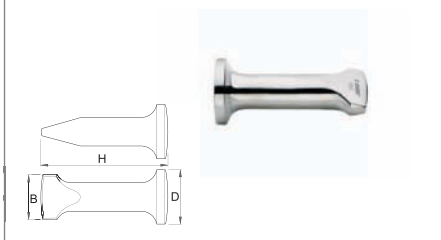


	A	B	H			
619207	102	72	62	1444	E	178,86

1912

Nicovala cu cap de ciocnire

- *material: otel carbon de scule*
- *cap polizat oglinda*

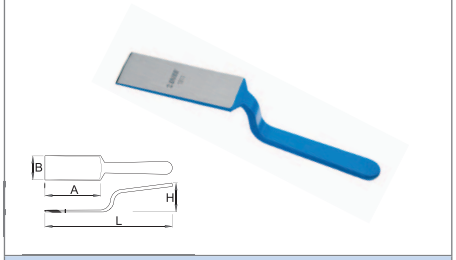


	D	B	H			
619208	54	44	425	759	E	140,93

1913

Nicovala lingura

- *material: otel carbon de scule*
- *cap polizat oglinda*



	L	A	B	H			
619209	250	110	48	51.5	382	E	73,83

1914

Nicovala ciuperca

- *material: otel carbon de scule*
- *cap polizat oglinda*

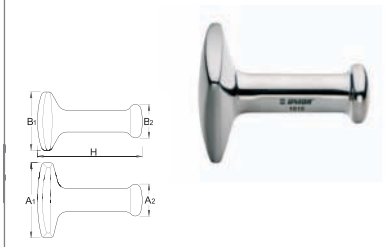


	D1	D2	H			
619210	56	56	58	756	E	130,68

1915

Nicovala cu cap mare profilat

- *material: otel carbon de scule*
- *cap polizat oglinda*

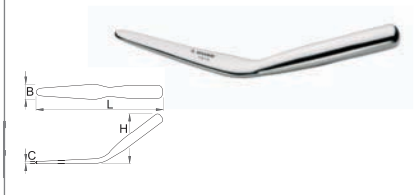


	A1	B1	A2	B2	H			
619211	90	70	39.9	38.2	125	1434	E	190,87

1916

Nicovala lingura plata

- *material: otel carbon de scule*
- *cap polizat oglinda*



	L	B	C	H			
619212	250	29.5	4	99	589	E	133,23

1917

Nicovala cu doua lame profil lingura

- *material: otel carbon de scule*
- *cap polizat oglinda*

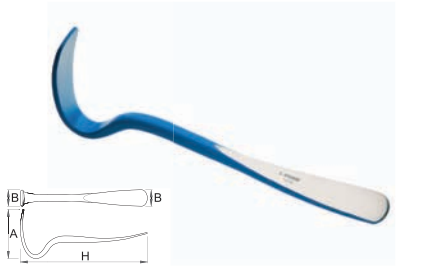


	A	B	H			
619213	171	58.5	401	1747	E	261,18

1918

Nicovala cu doua lame profil lingura

- *material: otel carbon de scule*
- *cap polizat oglinda*



	A	B	H			
619214	179	59	510	2408	E	309,32

1919

Nicovala lingura plata

- *material: otel carbon de scule*
- *cap polizat oglinda*



	L	B	H			
619215	266	51	68.5	839	E	157,78

1920

Nicovala unghiulara

- *material: otel carbon de scule*
- *cap polizat oglinda*

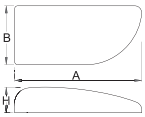


	A	B	H			
619216	109	59	17	634	E	106,00

1921

Nicovala subtire

- *material: otel carbon de scule*
- *cap polizat oglinda*



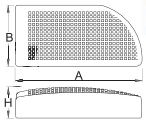


	A	B	H			
619217	118	55	24	950	E	118,67

1922

Nicovala curbata

- *material: otel carbon de scule*
- *cap polizat oglinda*



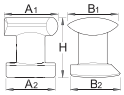


	A	B	H			
619218	122	59.5	30	1378	E	144,10

1923

Nicovala cu doua capete

- *material: otel carbon de scule*
- *cap polizat oglinda*



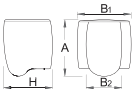


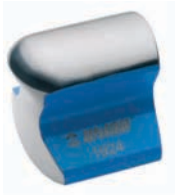
	A1	B1	A2	B2	H			
619219	86	61	61	61.5	74.5	1162	E	130,68

1924

Nicovala profilata

- *material: otel carbon de scule*
- *cap polizat oglinda*



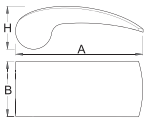


	A	B1	B2	H			
619220	76	73	48	66	1230	E	132,35

1925

Nicovala virgula

- *material: otel carbon de scule*
- *cap polizat oglinda*



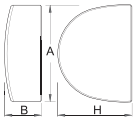


	A	B	H			
619221	133	58.5	45	1175	E	133,23

1926

Nicovala calcai

- *material: otel carbon de scule*
- *cap polizat oglinda*



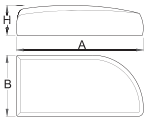


	A	B	H			
619222	79	30	61	899	E	114,49

1927

Nicovala bombata

- *material: otel carbon de scule*
- *cap polizat oglinda*





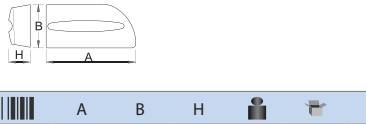


	A	B	H			
619223	121	58.5	29	1329	E	138,38

1928

Nicovala de contractie

- *material: otel carbon de scule*
- *cap polizat oglinda*



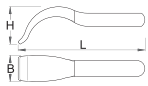
	A	B	H			
619224	122	59.5	25.5	1289	E	139,96

1929

Nicovala lingura curbata

- *material: otel carbon de scule*
- *cap polizat oglinda*





	L	B	H			
619225	236	49	70	1223	E	147,62

1930

Ciocan tinichigerie curb

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner: forma octogonala, lemn hickory*



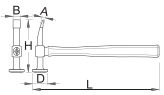
	L	A	D	H			
619228	325	27	29.6	106	395	C	129,76

1931

Ciocan de tinichigerie cu varf curb si de finisare

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner: forma octogonala, lemn hickory*
- *partea de lovire:rotunda 40 mm*





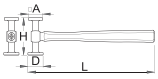
	L	A	B	D	H			
619229	325	8	19.6	40	140	445	C	**127,20**

1932

Ciocan tinichigerie standard

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner: forma octogonala, lemn hickory*
- *partea de lovire:rotunda 40mm, patrata 38 mm*





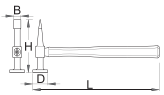
	L	A	D	H			
619230	325	38	40	100	445	C	**140,93**

1933

Ciocan de tinichigerie cu varf creion si de finisare

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner: forma octogonala, lemn hickory*
- *partea de lovire:rotunda 40 mm*





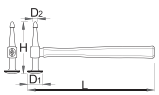
	L	A	B	D	H			
619231	325	8	19.6	40	140	420	C	**127,20**

1934

Ciocan de tinichigerie cu cioc si de finisare

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner: forma octogonala, lemn hickory*
- *partea de lovire:rotunda 40 mm*





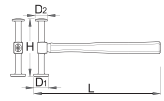
	L	D1	D2	H			
619232	325	40	12	138	406	C	**127,20**

1935

Ciocan de tinichigerie cu doua capete bombate

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner: forma octogonala, lemn hickory*
- *partea de lovire: rotunda 40 mm si 32 mm*





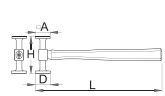
	L	D1	D2	H			
619233	326	40	32	155	475	C	**155,94**

1936

Ciocan de tinichigerie de corectie

- *material: otel carbon de scule*
- *cap polizat oglinda*
- *maner:forma octogonala, lemn hickory*
- *partea de lovire: rotunda 40mm, patrata 38 mm*
- *capul patrat este zimtat*





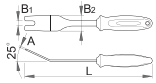
	L	A	D	H			
619234	325	38 x 38	40	100	465	C	**146,65**

1940/2BI

Scula de extras dopuri de plastic

- *material: otel carbon de scule*
- *pentru inlocuirea dopurilor pana la 8 mm*
- *varf unghiular*
- *maner ergonomic rezistent bimaterial*
- *Scula este destinatapentru extragerea dopurilor de plastic, inlocuirea*
- *ornamentelor si pentru tapiterii*
- *Forma ergonomica permite utilizarea usoara si sigura in diverse pozitii si in locuri greu accesibile fara a deteriora dopurile extrase sau inlocuite*





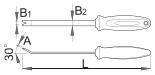
	L	B1	B2	A			
619267	230	8.5	28	2.5	130	A	**54,82**

1940.2/2BI

Scula de extras dopuri de plastic

- *material: otel carbon de scule*
- *varf unghiular*
- *varf unghiular*
- *maner ergonomic rezistent bimaterial*
- *Scula este destinatapentru extragerea dopurilor de plastic, inlocuirea*
- *ornamentelor si pentru tapiterii*
- *Forma ergonomica permite utilizarea usoara si sigura in diverse pozitii si in locuri greu accesibile fara a deteriora dopurile extrase sau inlocuite*





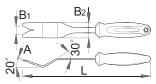
	L	B1	B2	A			
619269	230	5	10	2.5	109	A	**60,90**

1940.1/2BI

Scula de extras dopuri de plastic

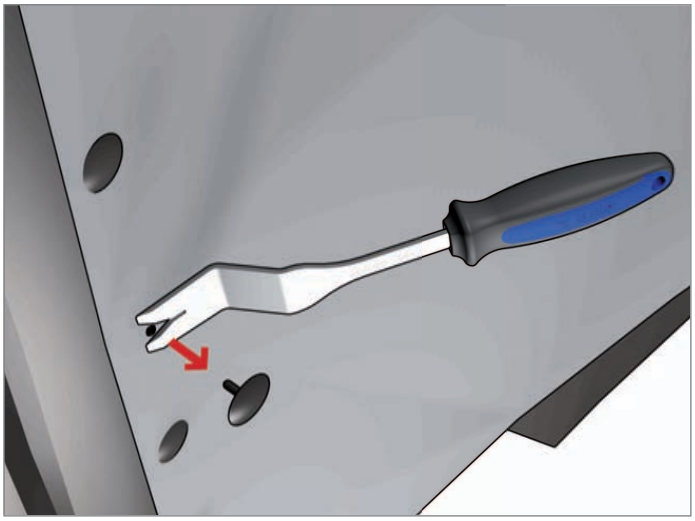
- *material: otel carbon de scule*
- *pentru inlocuirea dopurilor de plastic de la 2 mm la 15 mm*
- *varf unghiular*
- *maner ergonomic rezistent bimaterial*
- *Scula este destinatapentru extragerea dopurilor de plastic, inlocuirea*
- *ornamentelor si pentru tapiterii*
- *Forma ergonomica permite utilizarea usoara si sigura in diverse pozitii si in locuri greu accesibile fara a deteriora dopurile extrase sau inlocuite*





	L	B1	B2	A			
619268	230	16.3	28	2.5	135	A	**59,71**





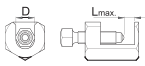


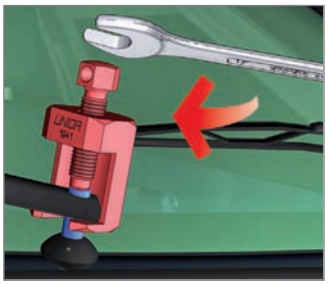
1941/2

Extractor pentru bratul stergatorului de parbriz fata

- *material carcasa si surub otel carbon de scule*
- *pentru inlocuirea stergatoarelor fata*
- *pentru majoritatea tipurilor de autoturisme*
- *protectie de plastic in interiorul extractorului*
- *se foloseste cu o chei de 17 mm*
- *Scula se foloseste la schimbarea stergatoarelor fata avand o constructie robusta si*
- *fiind destinat aplicatiilor de extragere ce necesita o forta importanta,tinand cont de*
- *faptul ca acesta este aproate lipit de axul de antrenare. Este utilizata pentru inlocuirea stergatoarelor de pe caroserie.Utilizarea sculei este rapida si eficace.*









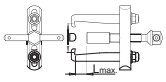
	L	D			
619270	32	18	252	G	126,50

1942/2

Extractor pentru bratul stergatorului de parbriz spate

- *material brate crom vanadiu*
- *pentru stergatoare spate*
- *adaptor special pentru protectia axului*
- *utilizat cu o chei de 13 mm*
- *livrat cu dorn*
- *Scula este destinata schimbarii stergatoarelor spate si asigura o schimbare simpla a*
- *tuturor tipurilor de stergatoare spate.Adaptorul pentru schimbarea axului este prote-*
- *jat in timpul lucrului de o carcasa.Axul face posibila rotirea rapida a surubului, facand schimbarea rapid, pentru marirea forteii utilizati o cheie de 13 mm.Constructia cheii ii confera o indelungata fiabilitate.*









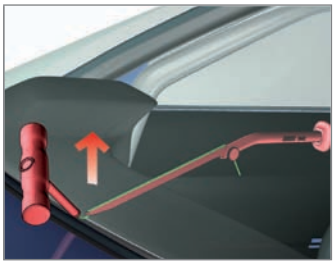


	L	D			
619271	103	22 - 25	288	G	299,64

1943/2BI

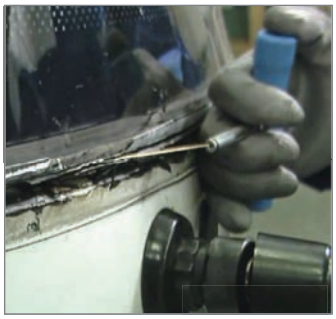
Set de schimbare parbrize

- *material: otel carbon de scule*
- *pentru schimbare parbrize fata si spate*
- *levier cu varf lung pentru accesibilitate usoara la schimbarea parbrizelor*
- *Set de schimbare parbrize lipite cu ajutorul unui fir. Folositi levierul, faceti un locas intre parbriz si caroserie pe unde introduceti firul de otel care se ataseaza la ambele scule.Utilizati scula in forma de T, inserati sarma intre caroserie si parbriz, apoi separati parbrizul de caroserie. Dispozitivul este conceput pentru a permite un lucru rapis si in siguran-ta , fara un efort prea mare.*

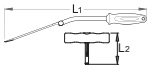












	L1	L2			
619272	354	78	330	G	179,30

1943.1SQ

Fir de otel patrat pentru setul de schimbare parrbrize



	L (m)			
619611	22	101	E	46,73

1943.2/2

Scula scurta cu maner pentru 1943/2BI

- *material: otel carbon de scule*
- *pentru schimbare parbrize fata si spate*





	L2			
621405	78	95	E	80,70

1943.1R

Fir de otel rotund pentru setul de schimbare parbrize



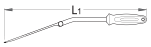
	L (m)			
619612	22	98	E	32,82

1943.3/2

Scula lunga cu maner BI pentru 1943/2BI

- *material: otel carbon de scule*
- *pentru schimbare parbrize fata si spate*
- *levier cu varf lung pentru accesibilitate usoara la schimbarea parbrizelor*





	L1			
621406	354	195	E	98,60

1944/6

Ventuza dubla pentru parbriz

- *pentru transportul si pozitionarea parbrizelor in timpol operatiilor de fixare si*
- *inlocuire*
- *ventuzele puternice pentru o siguranta maxima*
- *corp din plastic rezistent*
- *capacitatea de ridicare : 75 kg*
- *ventuzele pot fi utilizate la parbrize plate si profilate*
- *Scula este utilizata pentru schimbarea si transportul parbrizelor (operatie de schimbare) Dispozitivul se utilizeaza prin fixarea ventuselor pe parbriz si creerea vacumului necesar pentru demontare manuala.Ventuzele se lipesc ferm pe parbriz dand posibilitatea de demontare si montare a acestuia*

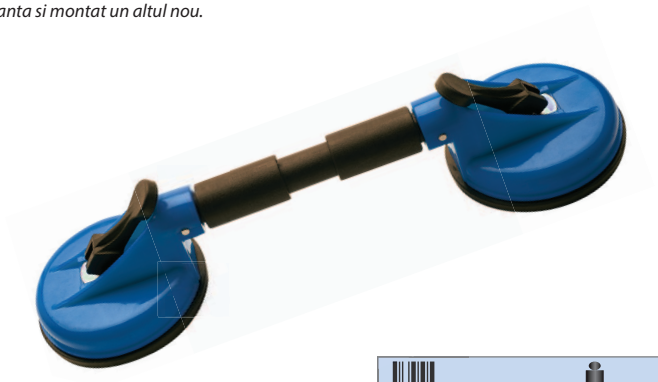
Mod de utilizare

1. Pozitionati ventuzele pe parbriz
2. actionati manerele pentru a creea vacumul necesar de lipire
3.Acum parbrizul poate fi demontat in siguranta si montat un altul nou.









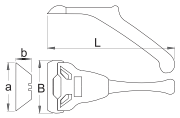
619740	925	F	239,76

1945

Razuitor multifunctional cu protectie a lamei

- *Material plastic*
- *lama din otel carbon aliat*
- *cu protectie a lamei*
- *Scula este destinata curatirea depunerilor de praf. Datorita suprafetei mari active scula curata uniform pe intreaga suprafata. Este recomandata pentru inlaturarea chitului siliconic din capul motorului ,etansari si curatarea vignete*





	L	B	a x b			
620240	165	70	60.8 x 18.9	37	E	**8,54**

1945.1

Set de 5 lame pentru 1945

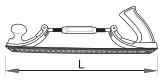


621042	33	E	**5,59**

1946

Suport pila





	L			
621477	350	770	F	**137,37**

1946.1

Lama de rezerva pentru 1946





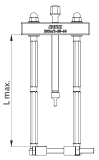
	L	B			
621478	350	35	274	E	**100,63**

2026/2

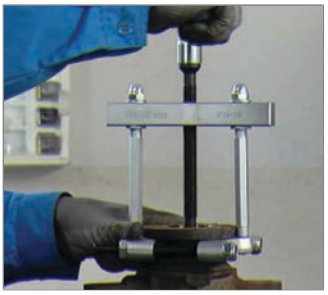
Extractor

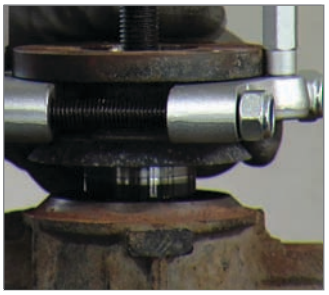
- *Extractorul este destinat la demontarea usoara a diverselor componente de pe axe.*
- *Este indispensabil pentru demontarile sigure si fara deformari ale componentelor fixate pe diverse parti ale masinii.*
- *Extractorul este compus din jug, surub, doua brate si un ansamblu de blocare care toate in ansamblu permit o demontare uniforma*
- *Gama acestui produs cuprinde tri dimensiuni de extractoare utilizate pentru extragerea pieselor de pe arbori de la Ø5mm la Ø115mm*
- *Extractorul asigura lucrul eficient si in siguranta*
- *Extractorul este confectionat din otel de inalta calitate.*
- *Protectia surubului:brunat, celelalte elemente sunt cromate*











	D	L			
619273	5 - 60	229	2160	G	**615,30**
619274	12 - 75	234	2930	G	**671,04**
619275	22 - 115	325	7180	G	**1.079,32**



2027/2

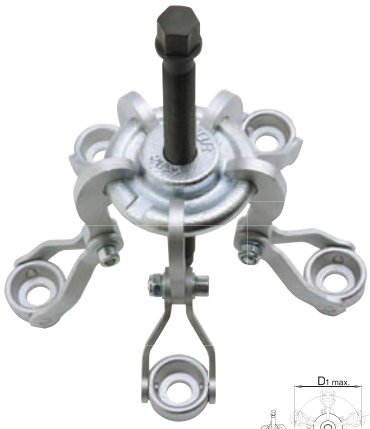
Extractor de tamburi

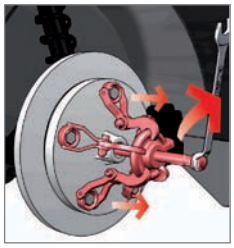
- *material ochiuri de agatare crom-molibden*
- *cu cinci brate*
- *pentru extragere tamburi pana la diametrul prezoanelor de 250 mm*

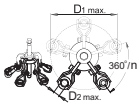
Utilizare:

Ansamblati extractorul alegand numarul de brate adecvat
Montati bratele pe tambur
Rotiti surubul si incepeti demontarea tamburului

- *Scula este destinata demontarii diversilor tamburi.Este proiectata pentru o utilizare*
- *simpla si flexibila.Cu bratele ajustabile tamburii pot fi inlocuiti cu trei, patru sau cinci*
- *brate extractoare in functie de tipul tamburului. Utilizare extrem de flexibila datorata celor cinci brate detasabile, se preteaza la majoritatea tipurilor cu prezoane pe un cerc de pan ala 250 mm.Extractorul se compune din surub, cinci brate si placa de agatare.Placa de agatare este prevazuta cu caneluri pentru a preveni alunecarea bratelor in timpul actionarii.Fiabilitate inalta.Nu se recomanda actionarea acestuia cu pistole pneumatice*











	D1	D2		n			
619278	250	18.5	24	3 - 5	4640	F	**1.050,50**

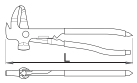


2028/2P

Cleste contragreutai

- *material: crom vanadiu*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere de plastic*







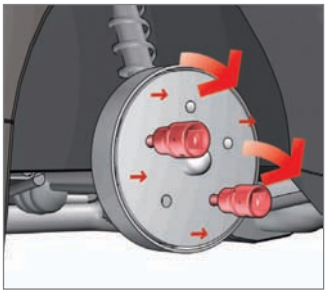


	L			
619288	250	406	B	**81,05**

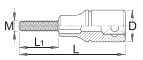
2029/2

Capete chei 1/2" pentru extragere discurilor de frana

- *material: crom molibden*
- *surub otel special de scule*
- *pentru schimbarea discurilor de frana*
- *doua bucati in set*
- *Datorita uzurii discurilor de frana acestea devin greu de schimbat, necesitand*
- *o scula speciala*
- *Scula este compusa din doua bolturi filetate care se monteaza simetric pe*
- *discul de frana*
- *Prin insurubarea uniforma a acestora folosin un antrenor cu clichet sau o cheie adecvata, discul este extras in mod lin.*
- *Dupa schimbarea discurilor demontati scula*







		L	D	L1			
619148	M 8	64	22.9	28	167	E	**64,50**

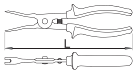
2030/2BI

Cleste pentru cablul de frana

- *material: otel carbon de scule*
- *pentru schimbarea cablului de frana*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *Utilizat pentru montarea sau demontarea cablului de frana.Clestele are o utilizare simpla pentru o tensionare dorita, montati sau demontati cablul discurilor de frana.*







	L			
619734	234	256	B	**157,26**

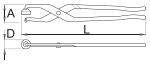
431/2

Clesti pentru arcuri frana

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap tratat, suprafata fosfatata, finisare:cromare*







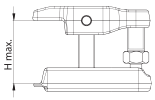
	L	A	Ø			
601554	325	53	25	423	E	**91,52**

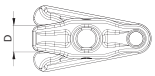
2032/2

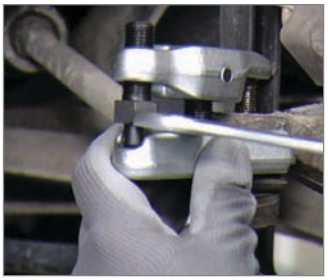
Extractor de pivoti

- *material: otel carbon*
- *capacitate falci 23 mm*
- *cursa maxima 53 mm*
- *pentru extragerea pivotilor de la mecanismul de suspensie*
- *Pentru extragere pivoti.Capacitatea extractoului la prindere 23 mm*









	D	H			
619736	23	53	780	G	**280,28**

2033/2

Dispozitiv de comprimarea pistonaselor de frana

- *material: otel carbon de scule*
- *set utilizat la o gama mare de autoturisme*
- *pentru filete pe dreapta si pe stanga*
- *in cutie de plastic si suport pentru componente*
- *Pentru: Audi, Fiat, Ford, Nissan, Renault, VW, Citroen, Seat, Mercedes-Benz, Opel*
- *Cele 8 adaptoare ce sunt impreuna cu scula fac pozibila comprimarea majoritatii pistonaselor de frana in timpul schimbarii placutelor de frana*

Utilizare

- *Introduceti scula intre placute si rotiti usor si constant pentru comprimarea pistonaselor, in acest fel eralizand spatiu suficient pentru schimbarea placutelor*







	L			
619737	151	2130	F	**667,70**

2033/2PB

Dispozitiv de comprimarea pistonaselor de frana

- *material: otel carbon de scule*
- *set utilizat la o gama mare de autoturisme*
- *pentru filete pe dreapta si pe stanga*
- *in cutie de plastic si suport pentru componente*
- *Pentru: Audi, Fiat, Ford, Nissan, Renault, VW, Citroen, Seat, Mercedes-Benz, Opel*
- *Cele 8 adaptoare ce sunt impreuna cu scula fac pozibila comprimarea majoritatii pistonaselor de frana in timpul schimbarii placutelor de frana*

. Utilizare

- *Introduceti scula intre placute si rotiti usor si constant pentru comprimarea pistonaselor, in acest fel eralizand spatiu suficient pentru schimbarea placutelor*



622637	700	G	771,10

2035

Perie pentru curatarea discurilor de frana

- *pentru curatarea discurilor de frana inaintea instalarii precum si a altor parti metalice*
- *forma ingusta pentru acces in spatii inguste*
- *Franarea cauzeaza uzura discurilor si acumularea de material pe acestea.Acesta trebuie curatat. Forma ingusta a periei permite curatirea rapida precum si curatirea altor suprafete metalice ce necesita acest lucru.*





619739	73	E	29,61

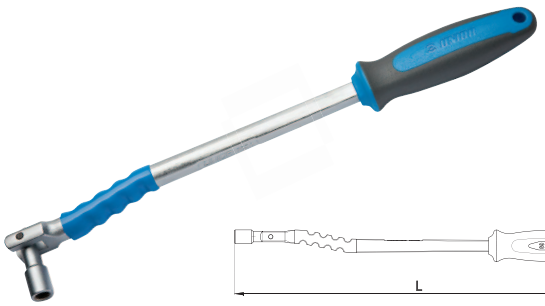
2034/2BI

Scula pentru schimbare valve de pe janta

- *material: crom vanadiu*
- *maner ergonomic rezistent bimaterial*
- *marcaj injectat UNIOR*
- *pentru valve Schrader*
- *maner de plastic ce impiedica alunecarea si deteriorarea jentii. Scula adecvata pentru aproape toate tipurile de jenti*

. Utilizare

- *1 Introduceti valva in locasul jentii*
- *2 Insurubati scula pe valva*
- *3 Utilizati levierul pentru fixarea valvei in pozitia corecta pe janta*







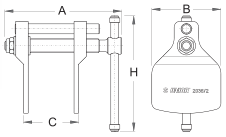
L				
619738	325	273	A	139,39

2036/2

Scula pentru presat placute de frana

- *material: compozitie speciala pentru calire revenire*
- *Scula pentru compresie e folosita pentru compresia pistoanelor de frana cand se inlocuiesc sabotii de frana. Este folositor pentru sabotii de frana care se inchid din faa. Scula este folositoare pentru compresia pistoanelor duble sau simple, in special pentru rotile din fata. Este folosit pentru a usura mutarea pistoanelor de frana inapoi in sabot fara a deteriora nici sabotul nici pistonul.*









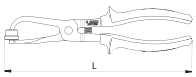
A	B	C	H				
620224	153	90	12 - 97	150	1505	G	234,30

2037/2BI

Cleste pentru arc frana

- *material: compozitie speciala pentru calire revenire*
- *tratat complet*
- *cap tratat, suprafata fosfatata, finisare:cromare*
- *Scula destinata demontarii si montarii arcurilor de la discul de frana.Datorita formei compacte permite accesul in locuri inguste ca si art 431 Unior care este mai mare si destinat autovehicolelor comerciale. Camioane etc.Scula este prevazuta cu o prelungire canelata pentru a impiedica alunecarea*









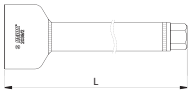
	L			
620227	244	265	B	118,14

2039/2

Scula pentru cuplarea interna a canalului de pana director

- *Scula este folosita pentru a demonta si monta rapid si usor articulatia de pe canalul director. Scula este impinsa prin canalul director spre articulatie; prin rotirea ei, cele 3 atasamente sunt cuplate pe articulatie care este apoi desurubata cu ajutorul cheii S27. Poate fi folosita pentru diametre de la 32 ~ 40 mm. Diametrul exterior al capului sculei este de 77 mm care se potriveste cu deschiderea din caroserie prin care cheia trebuie impinsa. Lungimea sculei de 400mm este potrivita pentru toate dimensiunile sau lungimile de raft director. Avantajul este ca folosirea sculei nu necesita desubarea initiala a rackului director pentru ca diametrul interior al sculei este mai mare decat bucsa si scula poate fi impinsa usor peste bucsa.*





	L			
620230	400	1885	F	353,54



2038

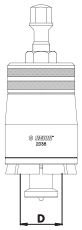
Extractor pentru inele interioare ale rulmentilor

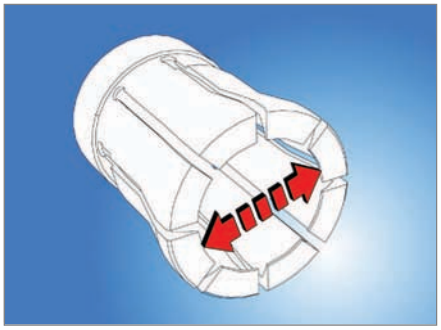
- *Este folosit pentru a extrage usor, rapid si fara murdarie*
- *rulmentii interiori din butucul rotii. Scula este conceputa pentru a inlatura inelul de rulare al rulmentilor interiori fara riscul deteriorarii fara a avea nevoie de nici o alta scula cum ar fi pile, ciocane sau clesti. Scula are 4 bucse de urmarire care sunt folosite pentru a inlatura inelele de rulare ale rulmentilor interiori cu diametre de la 40 pana la 60 mm. Bucsa de urmarire strange inelul de rulare ferm si in felul acesta evita orice posibil derapaj. Scula poate fi folosita pentru: AUdi, BMW, Ford, Mercedes-Benz, Peugeot, Renault, Toyota, VW etc.*
- *cu 4 falci; dimensiunea 1 - de la 40 la 45, dimensiunea 2 - de la 45 la 50, dimensiunea 3 - de la 50 la 55, dimensiunea 4 - de la 55 la 60*











620228	3585	G	1.922,14

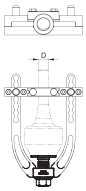
2041/2

Dispozitiv de extras garnituri de instalatie homocinetice

- *Extractorul este folosit la demontarea si repararea garniturilor homocinetice de dimensiuni variate. Inainte de a demonta garnitura, verificati daca articulatiile homocinetice pot fi deontate. Intai, indepartati capacul mobil si apoi introduceti articulatia in inel si, prin pozitionarea capacului ajustabil fixati articulatia in extractor. Articulatia homocinetica include o piulita care poate fi folosita la insurubarea sau desurubarea articulatiei. Inainte de a insuruba piulita, indepartati inelul de siguranta care sustine partea superioara si inferioara a articulatiei. Prin apasarea simultana a doua butoane, suportul poate fi ajustat la lungimea potrivita a articulatiei. Avantaje: Scula poate fi folosita la masini, nu deterioreaza articulatia, scurteaza timpul de demontare a articulatiei etc.*







	D			
620232	18 - 36	2130	G	**735,28**

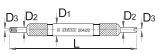
2042/2

Scule pentru valve de cauciucuri

- *material: compozitie speciala pentru calire revenire*
- *pentru montarea și demontarea mecanismului Schrader al valvelor*
- *un capăt este destinat montării si demontării mecanismului, celalalt capăt pentru*
- *eșaparea ușoara a aerului*
- *Corpul mânerului striat pentru o mai buna strângere*
- *acoperire:cromare în concordanta cu EN12540*







	L	D1	D2	D3			
621998	115	11	4,5	2	65	G	**21,08**



210/2

Cheie pentru roti

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*



		L1	L2			
600782	17	255	27	476	A	**50,78**
600783	19	285	29.5	541	A	**58,48**

212/2

Chei in T pentru roti

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*
- *in concordanta cu ISO DIN 3112*

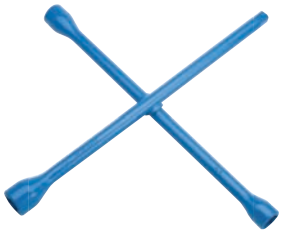


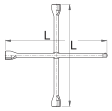
		L1	D1	L2	D2			
600785	17	260	26	300	12	720	C	**85,14**
600786	19	280	28.5	300	12	800	C	**89,01**
600787	22	300	32	300	12	815	C	**112,86**
600788	24	315	33.5	400	14	1280	C	**119,50**
600789	27	355	38.5	400	20	2220	C	**133,76**
600790	30	425	42.5	400	20	2450	C	**147,18**
600791	32	430	48	400	20	2815	C	**174,28**
609815	33	430	48	400	20	2875	C	**188,36**

213/6

Cheie cruce pentru roti

- *material: crom vanadiu*
- *vopsite*
- *forjata, calire si revenire totala*
- *in conformitate cu standardul ISO 6788 (numai dimensiuni in mm)*





600810	17	19	11/16"	1/2"	370	1355	F	**149,95**
600811	17	19	22	1/2"	370	1430	F	**149,95**
600809	17	19	21	23	370	1511	F	**133,54**
600812	17	19	22	24	370	1500	F	**133,54**
600813	24	27	30	3/4"	700	4400	F	**302,98**
600814	24	27	30	32	700	4600	F	**302,98**

300/5

Leviere

- *material: crom vanadiu*
- *forjat*
- *tratat*
- *acoperire:zincare*
- *forjata, calire si revenire totala*





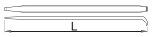
	L			
617661	200	111	C	31,50
601755	300	253	C	43,82
601756	400	452	C	53,06
601757	500	648	C	62,70

300/5A

Leviere

- *material: crom vanadiu*
- *acoperire:zincare*
- *forjata, calire si revenire totala*





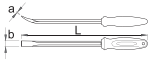
	L			
601758	537	992	C	101,77

300/5C

Leviere

- *material:otel special de scule*
- *acoperire cromare conform EN12540*
- *maner ergonomic rezistent bimaterial*





	L	a x b			
613103	320	1.1 x 13	252	C	30,89
613104	410	1.5 x 15	499	C	37,05
613105	610	1.5 x 21	837	C	54,30

300CCB

Set leviere pentru cauciucuri cu maner



	№				
613106	300CCB	3	878	F	122,28
	300/5C (320, 410, 610)				

2051/4

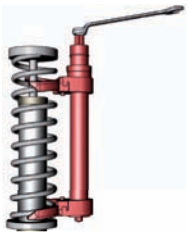
Scula pentru demontarea amortizoarelor si suspensiilor

Utilizare

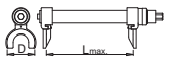
Alegeti ghiarele adecvate
Atasatile pe arc
START Comprimati arcul

- *Aceasta scula profesionala sub nr art 2051 destinata comprimarii arcurilor si*
- *demantarii suspensiilor McPherson. Are 3 seturi de gheare pentru diversitatea tipurilor*
- *existente.Demontarea arcurilor cere o forta mare si este riscanta, fapt pentru care s-a*
- *creat aceasta scula.Ghearele sunt ferm atasate de arc in timpul lucrului. Incarcarea*
- *recomandata 9000 N. Incarcarea maxima. 37000 N Scula se livreaza in cutie de plastic*
- *pentru siguranta si transport usor.*
- *in set 2 gheare 80-115, 2 gheare 110-150 si 2 gheare 140-195*

















	L		D			
619279	300	21	80 - 195	14600	G	2.386,69

2052/4

Scula pentru demontarea arcurilor varianta usoara

- *pentru schimbare arcuri*
- *incarcarea max pana la 11000 N*
- *Unior are sistemul de la art 2051, dar autoturismele mai mici nu au nevoie de un dispozitiv asa de mare fapt ce a dus la creerea acestui art. Cu aceiasi functionalitate ce art 2051 dar incarcarea recomandata este de 2750 N. Are un element de protectie suplimentar care sa permita lucrul intotdeauna paralel*







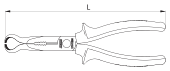
619733	19	4070	G	1.007,69

2151/2BI

Cleste pentru bujii

- *material: otel carbon de scule*
- *pentru inlocuirea bujiilor*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *Scule este destinata pentru schimbarea in siguranta si rapida a bujiilor fara deteriorarea acestora.Ca o functie suplimentara scula permite taierea cablurilor de alimentare sau comprimarea cablurilor atasate.*









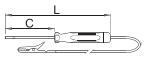
L				
619732	192	206	B	104,63

631

Tester auto 6 - 12/24 V

- *Utilizare numai la verificarea instalatiilor auto pentru tensiuni de 12V,24V*
- *Utilizat in alte scopuri sau la tensiuni diferite fata de cele indicate poate*
- *pune viata utilizatorului in pericolProdusul nu va fi folosit la verificarea prezentei tensiunii in retea*





601688	6 - 12	0.5 x 3.0	60	140	25	E	13,55
601689	6 - 24	0.6 x 3.5	90	180	25	E	13,51

631B

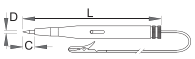
Tester auto 6-12/24 V

- *Scula indispensabila in orice service auto*
- *Protectie a varfului testerului pentru prevenirea incidentelor in utilizare*
- *Utilizat pentru verificari la instalatiile electrice ale masinilor de la 6-12 V*

UTILIZARE:

- *Conectati cleste la o masa*
- *Intepati izolatia cu varful testerului pentru a verifica firul cu curent.*
- *Faceti verificarea dealungul firului pana cand testerul se stinge, fapt ce*
- *indica defectiune pe fir.*
- *Utilizat in alte scopuri sau la tensiuni diferite fata de cele indicate poate pune viata utilizatorului in pericol*
- *Produsul nu va fi folosit la verificarea prezentei tensiunii in retea*





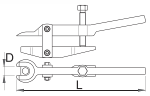
619856	6 - 24	12	1.8	110	38	E	24,82

686/5

Extractor profesional pentru pivoti

- *material: otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire:zincare conform standardului 12329, surubul brunat*
- *pentru masini*





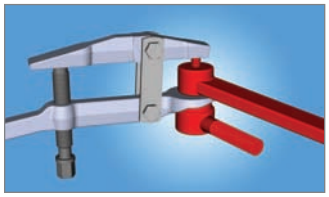
	D	L			
601772	16	260	925	H	**235,40**

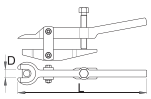
686/5A

Extractor profesional pentru pivoti

- *material: otel special de scule*
- *forjata, calire si revenire totala*
- *acoperire:zincare conform standardului 12329, surubul brunat*
- *pentru camioane*







	D	L			
602369	18	260	1055	H	**273,28**

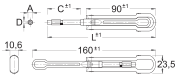


2177.01

Scula de eliberare cablu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacti de tip priza circulari 1.5mm*
- *Pentru modelele: BMW, Daimler, Chrysler, Fiat, Mercedes-Benz, Porche, Volvo, VW, Audi, Seat, Skoda*
- *Pentru camioane si autobuze: Man, Mercedes-Benz*





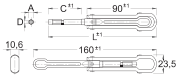
	A	C	D	L			
620969	6	44	3.3	142	29	A	**71,06**

2177.02

Scula de eliberare cablu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacti de tip priza circulari 3.5mm*
- *Pentru modelele: BMW, Daimler, Chrysler, Fiat, Opel, Mercedes-Benz, Porche, Volvo, VW, Audi, Seat, Skoda, Toyota*
- *Pentru camioane si autobuze:Mack,Man,Mercedes-Benz,Renault,Volvo*





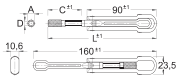
	A	C	D	L			
620970	8	43	5	141	34	A	**75,06**

2177.03

Scula de eliberare cablu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacti de tip priza circulari 4mm*
- *Pentru camioane si autobuze: Fendt, Iveco, Mack, Man, Mercedes-Benz, Renault, Scania, Volvo*



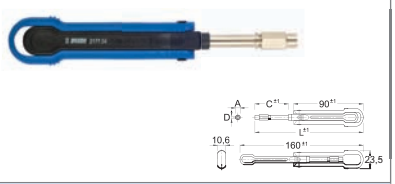


	A	C	D	L			
620971	9	45,5	6,5	144	37	A	**75,06**

2177.04

Scula de eliberare cablu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacti de tip priza circulari 2.5mm (ex. Vks)*
- *Pentru modelele: BMW,Daimler,Chrysler,Opel,Merced es-Benz,Porche,Saab,VW,Audi,Seat,Skoda*
- *Pentru camioane si autobuze:Man,Volvo*

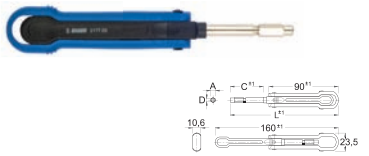


	A	C	D	L			
620972	8	42,5	4.5	140	34	A	75,06

2177.05

Scula de eliberare cablu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacti de tip priza circulari 2.3mm*
- *Pentru autoturisme: Ford, Jaguar, Opel, PSA, Renault*
- *Pentru camioane si autobuze: Mack*

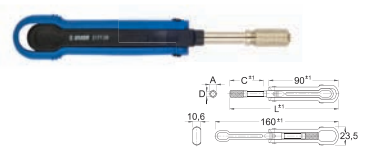


	A	C	D	L			
620973	6	44	3.3	142	28	A	71,06

2177.06

Scula de eliberare cablu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacti de tip priza circulari 4mm*
- *Pentru autoturisme: Daimler, Chrysler*
- *Pentru camioane si autobuze: Fendt, Iveco, Mack, Man, Mercedes-Benz, Renault, Scania, Volvo*

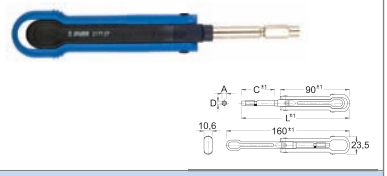


	A	C	D	L			
620974	9	45,5	6	144	38	A	75,06

2177.07

Scula de eliberare cablu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacti de tip priza circulari 1.5mm*
- *Pentru camioane si autobuze: Fendt,Scania*

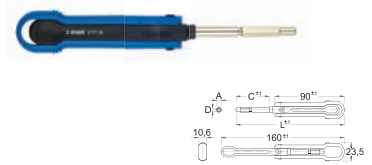


	A	C	D	L			
620975	6	43	1.9	141	28	A	67,98

2177.08

Scula de eliberare cablu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacti de tip priza circulari (ex. Lks) 1.5mm*
- *Pentru autoturisme: BMW, Daimler, Chrysler, Ford, Mercedes-Benz*
- *Pentru camioane si autobuze: Mercedes-Benz*



	A	C	D	L			
620976	6	56	3.6	154	29	A	71,06

2177.011

Priza de deconectare pentru 2177.01



	D	d	L			
620977	3.3	3	30	6	E	4,00

2177.021

Priza de deconectare pentru 2177.02



	D	d	L			
620978	5	4.4	24	6	E	4,00

2177.031

Priza de deconectare pentru 2177.03



	D	d	L			
620979	6.5	6	27	6	E	4,00

2177.041

Priza de deconectare pentru 2177.04



	D	d	L			
620980	4.4	4	28	6	E	4,00

2177.051

Priza de deconectare pentru 2177.05



	D	d	L			
620981	3.3	3	35	6	E	4,00

2177.061

Priza de deconectare pentru 2177.06



	D	d	L			
620982	6	5.5	20	6	E	4,00

2177.071

Priza de deconectare pentru 2177.07



	D	d	L			
620983	2.8	2.3	30	5	E	4,00

2177.081

Priza de deconectare pentru 2177.08



	D	d	L			
620984	3.6	2.8	30	7	E	7,83

2177.032

Priza de asamblare pentru 2177.03

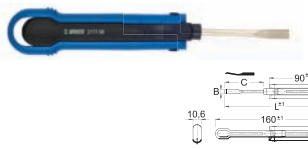


	D	d	L			
620985	6.5	4	50	10	E	32,69

2177.09

Scula de eliberare cablu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacte canal simplu JPT*

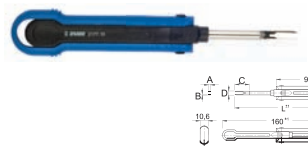


	A	B	C	D	L			
620986	6	4,7	50	3,3	148	20	A	**63,23**

2177.10

Scula de eliberare cablu cap deschis simetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacte iso autoradio*
- *Pentru autoturisme: BMW, Ford, Opel, Porche, VW, Audi, Seat, Skoda*



	A	B	C	D	L			
620987	2	1	19	5,0	143	23	A	**75,06**

2177.11

Scula de eliberare cablu cap deschis simetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *Pentru autoturisme: BMW, Ford, Opel, Porche, VW, Audi, Seat, Skoda*

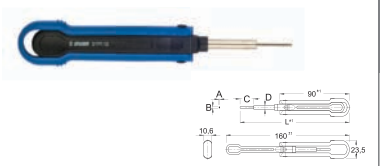


	A	B	C	D	L			
620988	1,7	1,05	19	5,0	143	24	A	**75,06**

2177.12

Scula de eliberare cablu cu gamalie

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *Pentru autoturisme: BMW, Daimler, Chrysler, Fiat, Ford, Honda, Jaguar, Opel, Mazda, Mercedes-Benz, Mitsubishi, Porsche, PSA, Renault, Toyota, Volvo, VW, Audi, Seat, Skoda.*
- *Pentru camioane si autobuze: Fendt, Man, Mercedes-Benz, Volvo*

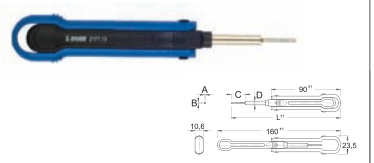


	A	B	C	D	L			
620989	1	1,4	18,5	5	143	26	A	**64,64**

2177.13

Scula de eliberare cablu cu gamalie

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru intrerupator junior/standard, FASTIN-FASON*
- *Pentru autoturisme: BMW, PSA, Renault, Volvo.*

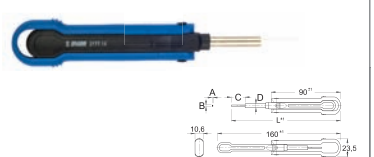


	A	B	C	D	L			
620990	1	1,9	17,5	5	142	26	A	**66,31**

2177.14

Scula de eliberare cablu cu gamalie

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru conectori tip stea*
- *Pentru autoturisme: BMW, PSA, Renault*

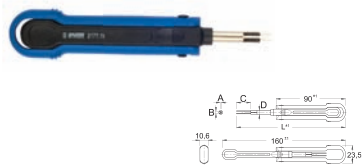


	A	B	C	D	L			
620991	1	2,7	18	5	142	26	A	**67,98**

2177.15

Scula de eliberare cablu cap deschis simetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru Micro-Timer II si III, MFK/MFS*
- *Pentru autoturisme: BMW, Daimler, Chrysler, Jaguar, Opel, Mercedes-Benz, PSA, Renault, Volvo, VW,Audi, Seat, Skoda*
- *Pentru camioane:Fendt*

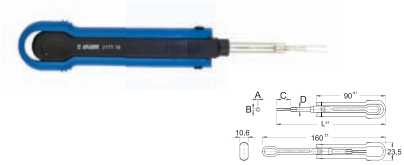


	A	B	C	D	L			
620992	1	2,1	20	5	142	25	A	**67,01**

2177.16

Scula de eliberare cablu cap deschis simetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *Pentru autoturisme: Daimler, Chrysler, VW, Audi, Seat, Skoda*

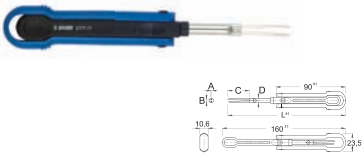


	A	B	C	D	L			
620993	1	1,4	20,5	5	146	24	A	**64,64**

2177.17

Scula de eliberare cablu cap deschis nesimetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *Pentru autoturisme: VW, Audi, Seat, Skoda*
- *Pentru camioane si autobuze: Fendt, Man*

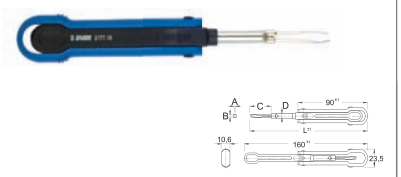


	A	B	C	D	L			
620994	1,6	2,4	26	6	153	27	A	**55,18**

2177.18

Scula de eliberare cablu cap deschis nesimetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *Pentru autoturisme: Daimler, Chrysler, VW, Audi, Seat, Skoda*

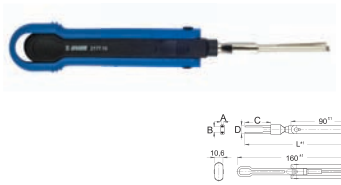


	A	B	C	D	L			
620995	1,6	3,2	27	6	155	28	A	55,18

2177.19

Scula de eliberare cablu cap deschis simetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru MCP 9.5mm*
- *Pentru autoturisme: Daimler, Chrysler, Mercedes-Benz, VW, Audi, Seat, Skoda*
- *Pentru camioane si autobuze: Fendt, Iveco, Mack, Man, Mercedes-Benz, Renault, Scania, Volvo*



	A	B	C	D	L			
620996	2,8	6,5	34	10,2	151	34	A	67,01

2177.20

Scula de eliberare cablu cu gamalie

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru conectori pit-pot 6,3 mm*
- *Pentru autoturisme: BMW, Daimler, Chrysler, Fiat, Ford, Opel, Mazda, Porsche, PSA ,Renault, Saab, Toyota, Volvo, VW, Audi, Seat, Skoda*
- *Pentru camioane si autobuze: Fendt, Iveco, Mack, Man, Mercedes-Benz, Renault, Scania, Volvo*



	A	B	C	D	L			
620997	1,3	0,8	19	6	145	27	A	71,06

2177.21

Scula de eliberare cablu cu gamalie

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru Ducon*
- *Pentru autoturisme: Opel*



	A	B	C	D	L			
620998	1	1	6	4	130	21	A	67,01

2177.22

Scula de eliberare cablu cu gamalie

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru Ducon*
- *Pentru autoturisme: Opel*

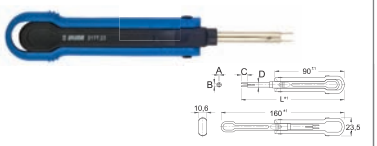


	A	B	C	D	L			
620999	1,1	1,5	6	5,5	3,3	26	A	67,01

2177.23

Scula de eliberare cablu cap deschis simetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru Ducon*
- *Pentru autoturisme: Opel*

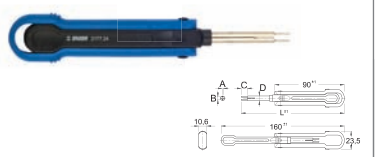


	A	B	C	D	L			
621000	1	3,3	6	5	135	24	A	69,39

2177.24

Scula de eliberare cablu cap deschis simetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru Ducon*
- *Pentru autoturisme: Opel*

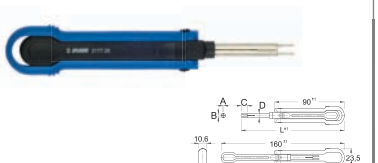


	A	B	C	D	L			
621001	1,1	3,5	7,8	5,5	136	25	A	69,39

2177.25

Scula de eliberare cablu cap deschis simetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru Ducon*
- *Pentru autoturisme: Daimler Chrysler*
- *Pentru camioane si autobuze: Mack, Mercedes-Benz, Renault, Volvo*



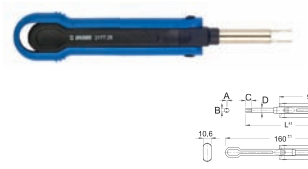
	A	B	C	D	L			
621002	1,1	4,0	7,8	6	135	28	A	69,39

Producator European din 1919

2177.26

Scula de eliberare cablu cap deschis simetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru Ducon, mcp, mak*
- *Pentru autoturisme: Opel*
- *Pentru camioane si autobuze: Man, Mercedes-Benz*

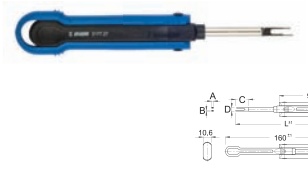


	A	B	C	D	L			
621003	1,1	5,1	10,4	7	134	29	A	**71,06**

2177.27

Scula de eliberare cablu cap deschis simetric

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru Ducon*
- *Pentru autoturisme: Ford, Renault*

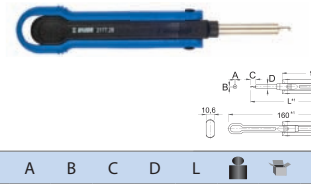


	A	B	C	D	L			
621004	1,7	0,8	17	4,6	144	24	A	**75,06**

2177.28

Scula de eliberare cablu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*

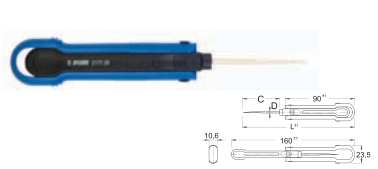


	A	B	C	D	L			
621005	1,0	1,5	6,1	5	134	26	A	**64,64**

2177.29

Scula de eliberare cablu cu gamalie

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru Micro-Timer I*
- *Pentru autoturisme: Fiat, Ford, Honda, Jaguar, Opel, Mazda, Mitsubitshi, Porsche, PSA, Renault, Toyota, VW, Audi, Seat, Skoda*
- *Pentru camioane si autobuze: Fendt, Iveco, Mack, Mercedes-Benz, Renault, Scania, Volvo*

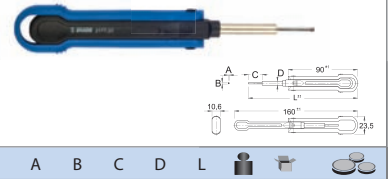


	C	D	L			
621006	47	2	145	17	A	**55,18**

2177.30

Scula de eliberare cablu cu gamalie

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru LKS*
- *Pentru autoturisme: Fiat, Ford, Mazda, Porsche*

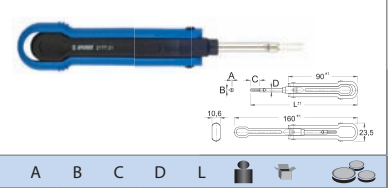


	A	B	C	D	L			
621007	1,0	1,45	18,6	5	144	26	A	**67,01**

2177.31

Scula de eliberare cablu cu cap simetric deschis

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru prize plate fara cutie*
- *Pentru autoturisme: Daimler, Chrysler, VW, Audi, Seat, Skoda*

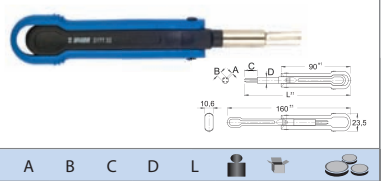


	A	B	C	D	L			
621008	1,2	2,1	13,2	5	141	24	A	**71,06**

2177.32

Scula de eliberare cablu cu cap gamalie multiplu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru VKR*
- *Pentru camioane si autobuze: Mack, Man, Renault, Volvo*

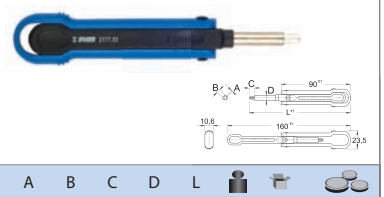


	A	B	C	D	L			
621009	1,5	6,2	17	8	136	30	A	**76,47**

2177.33

Scula de eliberare cablu cu cap gamalie multiplu

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru MKS/MKR*
- *Pentru camioane si autobuze: Mack, Man, Renault, Volvo*

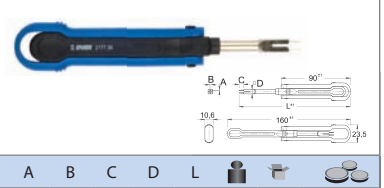


	A	B	C	D	L			
621010	1	4,2	6,8	6	128	25	A	**76,47**

2177.34

Scula de eliberare cablu cu cap simetric deschis

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacte SLK (primare)*
- *Pentru autoturisme: BMW, Daimler, Crysler, Ford, Mercedes-Benz*

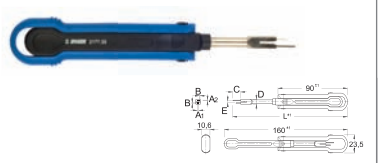


	A	B	C	D	L			
621011	0,55	1,7	6	6	136	26	A	**76,47**

2177.35

Scula de eliberare cablu cu cap simetric deschis

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacte SLK eliberare primara si secundara*
- *Pentru autoturisme: BMW, Daimler Crysler, Ford, Mercedes-Benz*

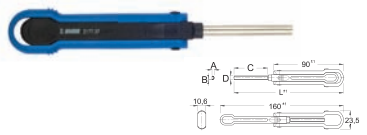


	A	B	C	D	E	L			
621012	1,7/1,0	0,6	10	6	2,7	141	26	A	**78,85**

2177.37

Scula de eliberare cablu cu cap gamalie

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacte lipite*
- *Pentru autoturisme: Fiat, Mercedes-Benz, Saab, Volvo*

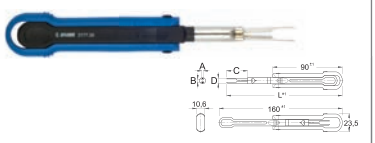


	A	B	C	D	L			
621014	3	0,4	44	5	146	18	A	**63,23**

2177.39

Scula de eliberare cablu cu cap simetric deschis

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru LSK 8*

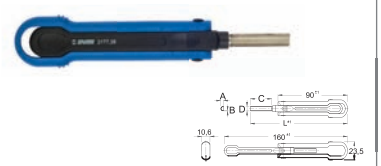


	A	B	C	D	L			
621016	2,5	3,7	26	8	150	30	A	**71,06**

2177.36

Scula de eliberare cablu cu cap gamalie

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru contacte lipite*
- *pentru autoturisme: Fiat, Ford, Honda, Jaguar, Opel, Mazda, Mitsubitshi, Porsche, PSA, Toyota, VW, Audi, Seat, Skoda*

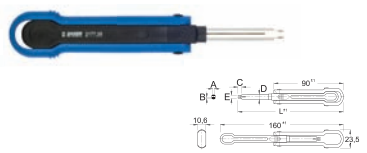


	A	B	C	D	L			
621013	3,8	0,5	28,5	6	128	18	A	**59,22**

2177.38

Scula de eliberare cablu cu cap simetric deschis

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de conectori de pe piata*
- *usor si sigur de folosit*
- *pentru E95*
- *Pentru autoturisme: BMW, Daimler Chrysler*
- *Pentru camione si autibuze:Man*

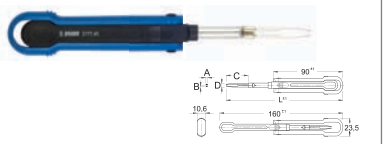


	A	B	C	D	E	L			
621015	1,4	0,7	5	6	3,7	138	32	A	**78,85**

2177.40

Scula de eliberare cablu cu cap simetric deschis

- *pentru repararea conectorilor contact stricati*
- *varful sculei este confectionat din otel de calitate*
- *carcasa protejeaza varful sculei de deteriorari*
- *se poate folosi pentru majoritatea tipurilor de*
- *conectori de pe piata*
- *usor si sigur de folosit*
- *pentru timerele de tnsiune de tip Junior/Standard,*
- *MDK/DFK*
- *pentru autoturisme: BMW, Daimler Crysler, Fiat, Ford, Jaguar ,Opel, Mercedes-Benz, Porsche, PSA, Renault, Saab, Volvo, VW, Audi, Seat, Skoda*
- *Pentru camioane si autobuze: Fendt, Iveco, Mack, Man, Mercedes-Benz, Renault, Scania, Volvo*



	A	B	C	D	L			
621017	1,6	0,8	29,5	6	155	27	A	**67,01**



2178/2BI

Clește de extras relee

- *material: otel carbon de scule*
- *manere bimaterial pentru conditii grele*
- *pentru instalarea și schimbarea releelor cubice la majoritatea vehiculelor.*
- *vârfuri subțiri și zimțate pentru o mai buna prindere a releului*



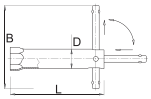
	L			
622585	232	250	B	**120,91**

185/2

Cheie de bujii

- *material: otel carbon de scule*
- *acoperire cromare conform EN12540*





		D	L	B			
600771	16	19	145	120	182	E	**19,27**
607956	19	22	115	120	199	E	**19,84**
600772	21	24	115	120	177	E	**20,15**
600773	21	24	180	120	248	E	**21,25**

186BI

Set de capete si accesorii pentru bujii 3/8"

3/8"



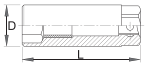
	№				
619401	**186BI**	4	627	F	**304,66**
	238.1/1FBI (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **186.4/2** (21)				
619402	**186BI**	4	615	F	**293,17**
	238.1/1FBI (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **186.4/2** (19)				
619403	**186BI**	4	560	F	**290,44**
	238.1/1FBI (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **186.4/2** (16)				

186.4/2

Cheie de bujii cu patrat de 3/8"

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*





		D	L				
620819	13	17.9	63		68	B	**15,58**
603193	16	22	63	19	68	B	**16,63**
620820	18	24.7	63	22	68	B	**17,91**
603192	19	26	63	22	68	B	**19,32**
600776	21	27	66	19	68	B	**30,80**

186.4/2A

Cheie de bujii 3/8"

- *material: crom molibden*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*

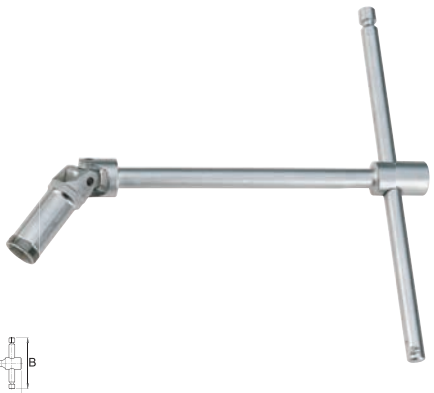


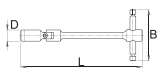
		D	L				
622513	14	18	63	17	58	B	**33,44**

194/2D1

Chei in T articulate pentru bujii

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*





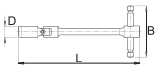
		D	B	L			
608111	16	21	250	300	336	A	**162,23**
608112	20.8	27	250	300	382	A	**162,23**

194/2D1L

Chei in T articulate pentru bujii lungi

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *capul cheii este tratat in intregime*





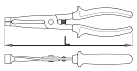
		D	B	L			
608115	16	21	250	500	468	A	**181,81**
608116	20.8	27	250	500	504	A	**181,81**

2201/2BI

Cleste pentru schimbat supate

- *material: otel carbon de scule*
- *finisare: cromat in conformitate cu standardul EN12540*
- *falci extra lungi*
- *forma subtire permite inlocuirea supapelor situate in interiorul motorului*
- *pentru tija supapelor*
- *marcaj injectat UNIOR*
- *manere bimaterial pentru conditii grele*
- *Clestele pentru supape permite accesul la tijele supapelor chiar si in spatii inguste cu 4 supape pe cilindru.Caracteristica acestui cleste consta in forma varfurilor care permite o prindere ferma, constructia si tratamentul termic al clestelui precum si forma manerelor ii confera caracteristici bune in utilizare*









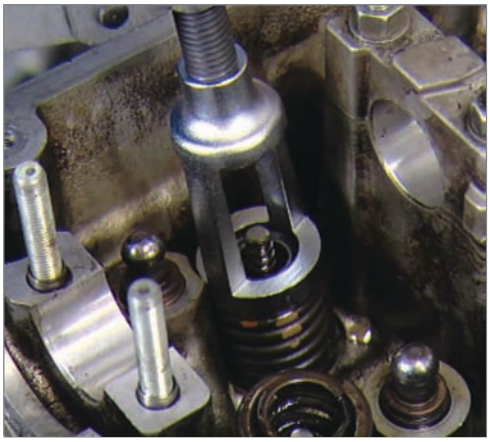
	L			
619721	275	287	B	**153,21**

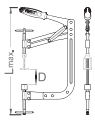
2202/2BI

Scula de comprimare arcuri de pistoane

- *material: otel carbon de scule*
- *tratament termic integral*
- *Acoperire:cromare*
- *recomandata la majoritatea tipurilor de motoare datorita varietatii de reglaje de care dispune*
- *Scula de comprimare arcuri de supape nu contine piesa de presare*
- *4 piese de presare (art.2201.1) permite lucrul la majoritatea tipurilor de motoare si sunt disponibile si ca piese de schimb*
- *folositi-le rapid si sigur cu levierul de blocare*
- *dupa reglarea sculei pe primul piston, viteza de lucru creste deoarece reajustarea pentru celelalte pistoane nu mai este necesara.*
- *reglarea bratelor asigura persiunea dorita pe arc*
- *bratul consola extra lung pentru motoarele mari*
- *Scula este utilizata pentru detasarea arcurilor de pistoane si asigura o blocare a bratului si reglare rapida, fapt ce permite utilizaera la toate tipurile de motoare*







	L	D			
619722	430	20 - 250	1810	G	**395,16**

2202.1/2

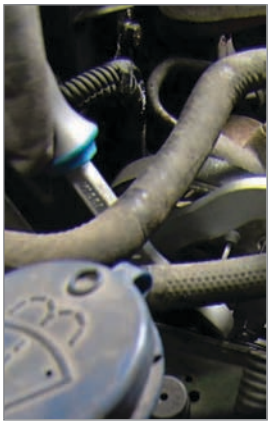
Piesa de presare pentru comprimare arcuri pistoane



	D			
620567	21	46	E	**42,37**
620208	25	54	E	**48,84**
620209	30	62	E	**56,89**
620210	35	84	E	**64,28**
620211	43	106	E	**98,30**

2203/2BI

Scula pentru rotirea arborelui cu came



- *material: crom vanadiu*
- *material pini otel special de scule*
- *pentru pozitionarea arborelui cu came, pompei de injectie*
- *pentru reglare distributie de la 24 la 160 mm*
- *siponibil pentru dimensiunile: Ø5.7, Ø7.7, Ø9.7, Ø11.7, Ø18*
- *manere bimaterial pentru conditii grele*
- *marcaj injectat UNIOR*
- *Utilizat pentru pozitionarea arborelui cu came in pozitia in care surubul central poate si desurubat anterior inlocuirii arborelui. Scula extrem de usor de utilizat pentru toate tipurile de arbori cu came*



	L			
619723	525	1435	F	**289,56**

2204

Kit pentru controlul intinderii curelei de distributie



- *foarte usor de utilizat*
- *buton de reglare progresiva*
- *scala pe doua parti permite citirea pe ambele parti*
- *Scula este destinata intinderii curelei de distributie.Este recomandata pentru majoritatea tipurilor de curele de distributie.*

Utilizare

1. *Selectati pozitia ce amai apropiata pentru setarea curelei de distributie functie de recomandarile producatorului.*
2. *Pozitionati scula pentru controlul intinderii*
3. *Raportati-va la tabelul atasat pentru a gasi tensiunea recomandata pentru curea*
4. *Setati scula pentru controlul intinderii.*
5. *Verificati aerarea curelei de distributie*
6. *Reglati si ajustati tensiunea din cureaua de distributie.*
7. *Pozitionati scula pentru controlul intinderii curelei si verificati din nou daca aceasta este intinsa corect.*



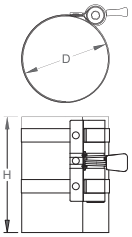
	L			
619724	98	393	G	**381,74**

2205

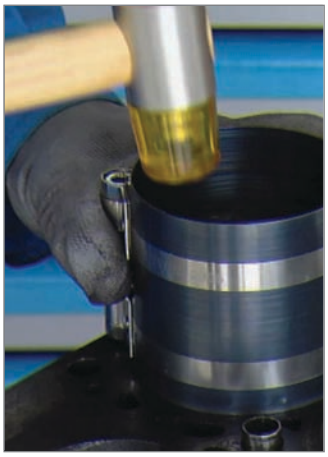
Dispozitiv de montat pistoane

- *utilizat pentru montarea pistoanelor la majoritatea autoturismelor*
- *constructie de inalta calitate cu carcasa din otel de arc*
- *cu surub de inchidere si reglare*
- *disponibil intr-o mare varietate de marimi*
- *Aceasta scula este utilizata pentru montarea pistoanelor si inelelor de*
- *pistoane in cilindru. Diferite dimensiuni sunt disponibile.*
- *Introduceti pistonul si garniturile in interiorul dispozitivului si introduceti-le in camasa cilindrului*













	H	D	D			
619725	50	1 3/4" - 3 1/2"	40 - 90	178	G	**58,48**
619726	80	2 1/4"- 5"	57 - 125	291	G	**65,34**
619727	80	3 1/2" - 7"	90 - 175	320	G	**72,16**
619729	165	3 1/2" - 7"	90 - 175	587	G	**138,16**

2206

Scula universala de aliniere a ambreiajului

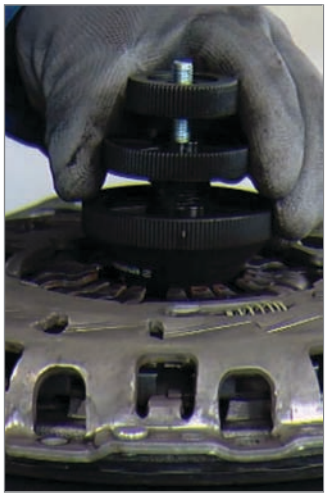
- *proiectata pentru majoritatea vehicolelor cu un singur ambreiaj*
- *pentru ambreiaj pana la 15-28 mm*
- *usor de utilizat*
- *Dispozitivul cu nr de art 2206 este singura scula de aliniat ambreiajul pentru majoritatea ambreiajelor de autoturisme. Aceasta se face direct intre disc si placa de presiune utilizand dispozitivul de aliniere pentru a le monta impreuna. Dupa ce dispozitivul este retras cele doua parti sunt legate si aliniate cu axele lor*



















619730	211	G	**66,53**

2207/2

Cheie tubulara cu patrat de 1/2" pentru injectoare

- *recomandata la o varietate de motoare diesel*
- *Capul de injectoare este utilizat la inlocuirea si remontarea injectoarelor fara a deteriora rampa de combustibil*









619887	6P - 22mm	DIESEL	224	E	**77,26**
619731	12P - 22mm	DIESEL	162	E	**74,40**
619888	12P - 27mm	BMW. Fiat. Ford	217	E	**74,40**
619889	12P - 28mm	Scania. Volvo HGV	227	E	**74,40**

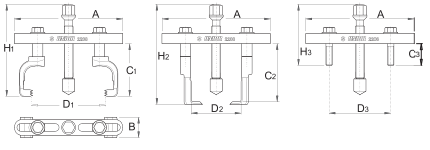
2208

Extractor ramificat pentru scripeti

- *Extractorul este folosit pentru demontarea scripetilor de forme diferite, folositi mai ales petru autovehicule pentru persoane. Scula este potrivita pentru scripeti cu urmatoarele diametre: min 45mm; max 235mm. Extractorul este folosit la inde-partarea scripetilor din zonele greu acce-sibile, si in special fara rscul de a deteriora scripetele. Scula are 2 tipuri de gheare de extragere, care se potrivesc pentru mai multe tipuri de scripeti.*







	A	B	C1	C2	C3	D1	D2	D3	H1	H2	H3			
620223	171	32	60 - 82.5	69 - 91	34	80 - 150	40 - 120	40 - 150	200	213	152	2340	G	**991,28**

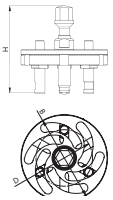
2210/2

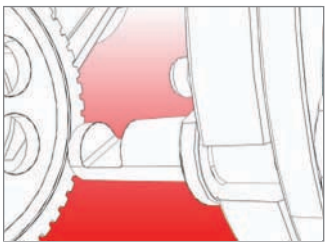
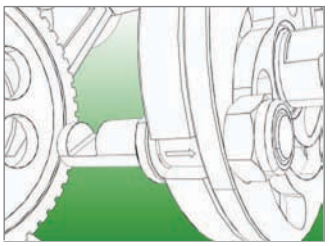
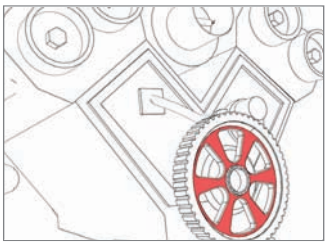
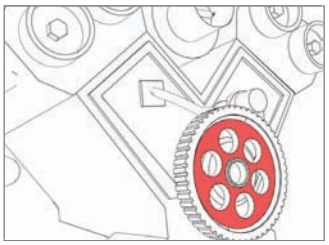
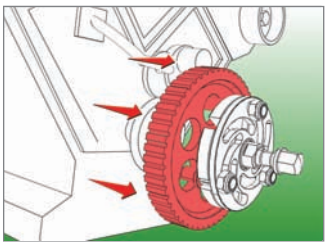
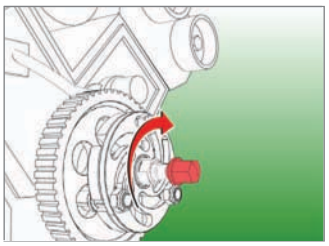
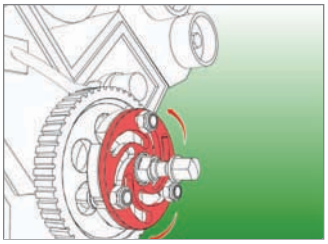
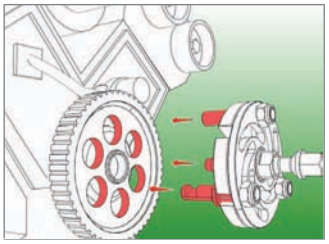
Extractor volante

- *material: otel carbon*
- *capul cheii este tratat in intregime*
- *acoperire: cromare in conformita-*
- *te cu EN 12540, surubul brunat*
- *Scula este destinata inlocuirii vo-lantelor cu suprafata canelata.Se executa demontarea fara niciun pericol de deteriorare a volantului. Scula este reglabila pe diverse diametre, ca si bratele reglabile*
- *pentru inlocuirea rotilor cu 3,6,9 canele*







	B	D	H			
620226	100	48 - 82	135	1085	G	**268,58**

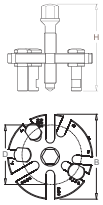
2210/2A

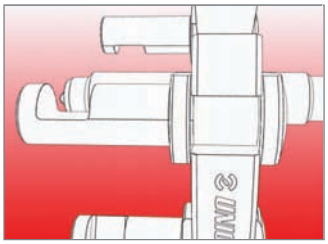
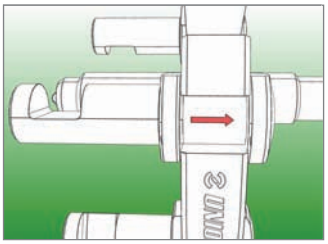
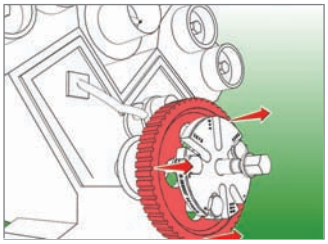
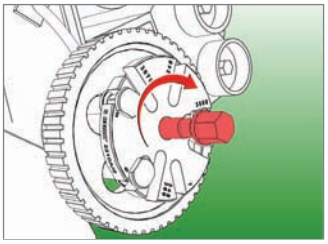
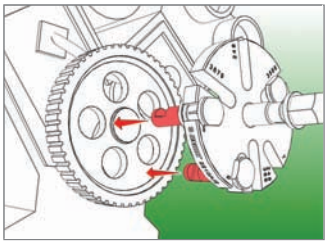
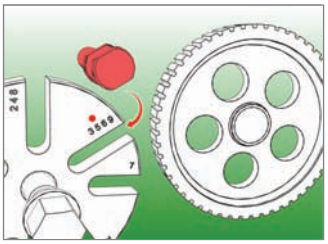
Extractor universal pentru roata distributie

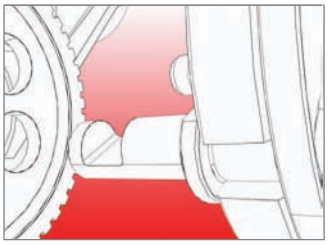
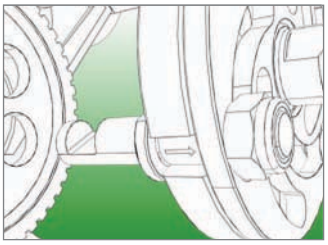
- *material: otel carbon*
- *capul cheii este tratat in intregime*
- *acoperire: cromare in conformitate cu EN 12540, surubul brunat*
- *pentru inlocuirea tuturor tipurilor de roti (cu 2,3,4,5,6,7,8,9 canale)*







	B	D	H			
621780	100	48 - 82	135	750	G	**301,36**

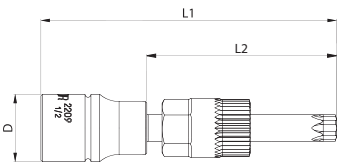
2209

Cheie combinata pentru alternator

- *Cele doua parti ale cheii pentru alternator permit o demontare usoara si o montare a acestuia pe suport precum si demontarea acestuia pentru reparare.Alternatorul este blocat cu un profil XZN multispline interior simultan, suportul retine surubul pe ax realizand eliberarea sau strangerea acestuia.Scula este disponibila cu patrat de 1/2" cu profil ZXN-M10 bit si patrat d e1/2" cu TX 50 Bit*







		D	L1	L2			
620225	M 10	23.8	113	75	178	E	**48,53**
620948	TX 50	23.8	113	75	176	E	**48,53**

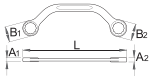
200/2

Chei inelare semiluna

- *material: crom vanadiu*
- *acoperire cromare conform EN12540*
- *forjata, calire si revenire totala*







		L	B1	B2	A1	A2			
600671	11 x 13	150	16.5	19	7	8.5	54	A	**34,23**
600672	13 x 17	185	19.2	24.2	8.7	10.3	99	A	**38,59**
600673	14 x 17	185	20.5	24.2	8.7	10.3	104	A	**38,59**
600674	15 x 16	185	21.6	23.6	8.7	10.3	104	A	**38,59**
600675	15 x 17	185	21.6	24.2	8.7	10.3	101	A	**38,59**
600676	19 x 22	230	27.2	31.8	10	11.5	178	A	**49,46**

200/2CB

Set de chei inelare semiluna in cutie de carton



	№				
600677	**200/2CB**	11 - 22 / 5	605	F	**199,41**

200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)

2211

Set pentru demontarea ambreiajelor SAC

- *material: otel carbon*
- *capul cheii este tratat in intregime*
- *Acest dispozitiv permite o demontare si o montare rapida a ambreiaje-*
- *lor auto-reglabile SAC. Autoreglarea ambreajului se realizeaza su mici*
- *arcuri de reglare in interiorul discului. Fara aceasta scula montarea*
- *corecta a ambreiajului este practic imposibila, ducand de asemenea la*
- *stress sau deteriorarea ambreiajului. Ca regula a unui ambreiaj acesta*
- *nu poate decupla sau patina. Scula protejeaza ambreiajul impotriva deteriorarilor in timpul montarii si demontarii si previne orice rotire ale inelelor de reglare in interiorul discului. Scula este recomandata pentru ambreiaje cu autoreglare la VW, Audi, BMW, Mercedes, Volvo, Opel/ VAuxhall, Renault si alte marci*

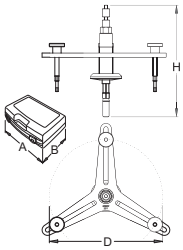
Avantaje:

1. *pre-tensionarea discului de ambreiaj in timpul dezinstalarii si instalarii (acest lucru este important pentru a evita solicitarea ambreiajului)*
2. *centrarea ambreiajului insprre directia rulmentului sau insprre discul de ambreiaj*
3. *retragerea inelului ajustabil cu ajutorul sculelor extractoare*

- *Dimensiunea cutiei: 393 x 331 x 95*







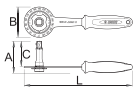
	A	B	D	H			
620233	305	268	322	267	7400	G	**1.649,87**

2213/2BI

Dispozitiv de verificare unghiulara

- *acesta este folosit pentru suruburile din capul motorului cat si a*
- *celorlalte elemente de ansamblare ce necesita a fi stranse la moment,*
- *strangerea la unghi este de asemenea posibila.*
- *opriti scara de unghi cu manerul acesteia penru a evita rotatia in timpul insurubarii, setati indicatorul la zero si apoi strangeti surubul la unghiul prescris cu o alta scula cu anrenare de 1/2"(ex cu un prelungitor cu cardan care este mai lung, tinand cont ca fortele de strangere sunt considerabile)*
- *dacă spațiul de manevra este limitat, se poate folosi un prelungitor pentru obținerea lungimii dorite*
- *scala este de 360°, cu diviziuni de 2°*





	L	B	A	C				
622815	270	75	80	63	428	428	G	131,91

2301SOS1

Set de scule auto în suport SOS

- *pentru schimbarea bujiilor*



	№				
623122	2301SOS1	10	1455	F	536,32

186.4/2 (13, 16, 18, 19, 21), **186.4/2A** (14), **238.1/1FBI** (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **2151/2BI** (192), **vl2301SOS1** (188 x 364 x 30)

2301SOS2

Set de scule auto în suport SOS

- *pentru demontarea butucului si tamburului de frâna*



	№				
623123	2301SOS2	1	5190	F	1.100,75

2027/2 (250), **vl2301SOS2** (374 x 364 x 30)

2301SOS3

Set de scule auto în suport SOS

- *pentru sistemele de frânare*



	№				
623124	2301SOS3	4	995	F	395,65

2029/2 (M 8), **2030/2BI** (234), **2035**, **2037/2BI** (244), **vl2301SOS3** (188 x 364 x 30)

2301SOS4

Set de scule auto în suport SOS

- *pentru coliere si cleme (arcuri,clipsuri,oetiker) furtune*



	№				
623125	2301SOS4	7	2650	F	1.164,33

2077/2BI (235), **2078/2BI** (230), **2079/2BI** (206), **2080/2BI** (190), **2081/3** (285), **2089/2BI** (230), **vl2301SOS4** (374 x 364 x 30)

2301SOS5

Set de scule auto în suport SOS

- *pentru schimbarea filtrelor de ulei*



	№				
623126	2301SOS5	4	1780	F	487,43

175/2 (8 x 10), **205/2** (220 x 60 x 140), **206/2** (220 x 60 x 140), **1976/2** (60), **vl2301SOS5** (188 x 364 x 30)

2301SOS6

Set de scule auto în suport SOS

- *pentru schimbarea filtrelor de ulei*



	№				
623127	2301SOS6	12	2040	F	402,69

1977/6 (27 x 6, 32 x 6, 36 x 6, 66 x 6, 65 x 14, 74 x 15, 75 - 77 x 15, 76 x 12, 76 x 14, 86 x 16, 86 x 18, 96 x 18), **vl2301SOS6** (374 x 364 x 30)

2301SOS9

Set de scule auto în suport SOS

- *pentru schimbarea cauciucurilor*



	№				
623130	2301SOS9	4	1025	F	297,22

2042/2 (115), **2034/2BI** (325), **2035**, **2028/2P** (250), **vl2301SOS9** (188 x 364 x 30)

2301SOS7

Set de scule auto în suport SOS

- *pentru operații generale de întreținere*



	№				
623128	2301SOS7	6	3280	F	1.272,30

2091 (250), **2087** (1), **2086** (150), **2085** (510), **2084** (240), **264** (1/2" x 28 - 210), **vl2301SOS7** (564 x 364 x 30)

2301SOS10

Set de scule auto în suport SOS

- *pentru schimbarea cauciucurilor*



	№				
623131	2301SOS10	15 - 21 / 8	4605	F	1.363,56

1561 (1/2"), **231/4PL** (17, 19, 21), **231/4 6p** (15, 17, 19, 21), **vl2301SOS10** (188 x 364 x 30)

2301SOS8

Set de scule auto în suport SOS

- *pentru demontarea piuliților nervurate*



	№				
623129	2301SOS8	1	2135	F	854,44

2208 (171), **vl2301SOS8** (188 x 364 x 30)



Scule pentru servisarea bicicletelor

O procedura speciala pentru fabricarea sculelor pentru bicicleta

AX

1. **Tratament termic (calire si revenire):** tratamentul termic prin calire si revenire este destinat imbunatatirii structurii otelului, pentru a oferi o mai mare duritate, tenacitate si alte calitati necesare depasirii incarcarii datorate lucrului cu un astfel de produs.



2. **Polizarea:** confera axului aspectul profesional corespunzator precum si protectia de suprafata solicitata.



AC

3. **Prelucrare cu ajutorul unei masini cu comanda numerica CNC:** axul este realizat in intregime din material solid. O atentie deosebita este conferita filetului care asigura o miscare lina a arborelui in carcasa si astfel o functionalitate optima.



4. **Tratament termic (calire si revenire):** tratamentul termic prin calire si revenire este destinat imbunatatirii structurii otelului, pentru a oferi o mai mare duritate, tenacitate si alte calitati necesare depasirii incarcarii datorate lucrului cu un astfel de produs.



5. **Sablarea:** curatirea suprafetei inainte de polizare este importanta pentru asigurarea unei protectii durabile si de calitate a suprafetei.

6. **Polizare:** confera axului un aspect corespunzator, profesional, impreuna cu uleiul corespunzator asigura de asemenea si protectia de suprafata solicitata.



MANER MIC

7. **Frezarea** portiunii drepte a manerului

8. **Tratament termic (calire si revenire):** tratamentul termic prin calire si revenire este destinat imbunatatirii structurii otelului, pentru a oferi o mai mare duritate, tenacitate si alte calitati necesare depasirii incarcarii datorate lucrului cu un astfel de produs.



9. **Sablare:** curatirea suprafetei inainte de polizare este importanta pentru asigurarea unei protectii durabile si de calitate a suprafetei.

10. **Cromare:** carcasa clichetului este placata cu un strat subtire, solid de oxid de crom, care protejeaza impotriva coroziunii si uzurii, precum si a altor deteriorari mecanice.



CARCASA

11. **Prelucrarea cu ajutorul masinii cu comanda numerica CNC:** carcasa este realizata in intregime din material solid. Se acorda o atentie deosebita centrarii si pozitionarii, ceea ce asigura functionalitatea optima a uneltei.

12. **Tratamentul termic (calire si revenire):** tratamentul termic prin calire si revenire este destinat imbunatatirii structurii otelului, pentru a imbunatatii duritatea si rezistenta produsului, precum si a altor proprietati necesare depasirii sarcinilor muncii cu astfel de produse.



13. **Sablarea:** curatarea suprafetei inainte de polizare este importanta pentru calitatea si protectia suprafetei.

14. **Cromarea:** carcasa este placata cu un strat subtire, solid de oxid de crom, care protejeaza impotriva uzurii si coroziunii, precum si a altor deteriorari mecanice. In acelasi timp confera intregului produs - uneltei Unior pentru montarea lantului - un aspect lucios si profesional.



MONTAJ

15, 16. **Asamblarea finala:** muncitorii instruiti, calificati si meticulosi efectueaza asamblarea finala a produsului intr-un ansamblu solid, asigurand astfel functionarea si calitatea ridicata a extractorului Unior.

Noua tehnologie avansată

Utilizarea unor noi metode tehnologice și a a materialelor de înaltă calitate asigură scule cu o durată mare de exploatare, design sigur ce garanteaza efectuarea unor lucrări de reparare fără pericole. Soluţiile personalizate, eficienţa excelentă, materialele moderne și designul ergonomic oferă o imagine frumoasă și o utilizare sigură.

Soluţii personalizate pentru cele mai bune rezultate

Soluţiile noastre oferă adaptabilitate pieselor de bicicletă apartinand tuturor producătorilor. Tradiţia noastră, propriul nostru design, dezvoltarea tehnică constantă precum și tehnologia modernă, ne menţin în frunte.

Durabilitate excelentă

Sculele manuale Unior finalizează multe lucrări și faciliteaza lucrul în zone înguste. Acestea sunt adaptate la lucrul pe cele mai noi modele de biciclete.


Scule pentru cadru si furca 338 - 343


Scule pentru directie 343 - 354

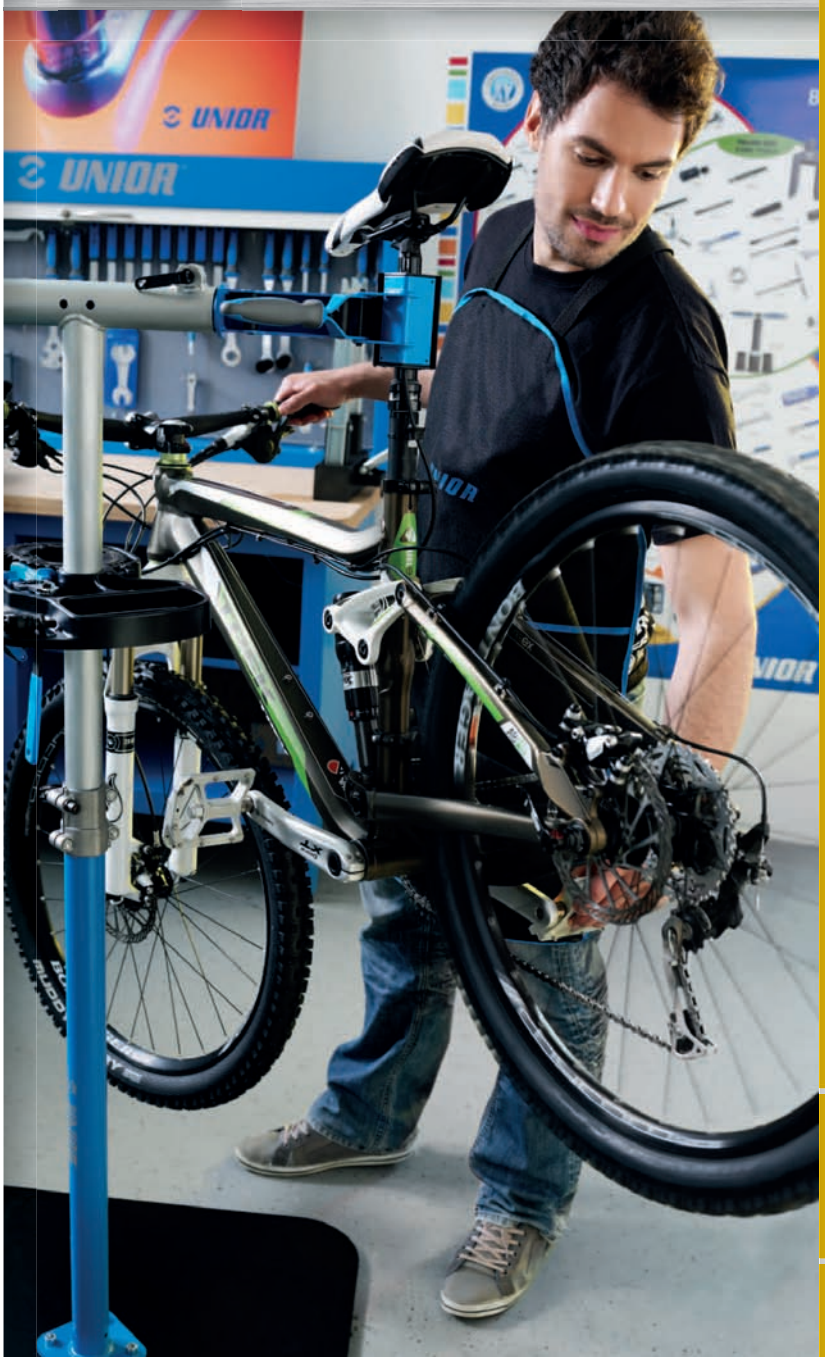

Scule pentru roti 354 - 359


Scule multifunctionale 360 - 361


Standuri pentru reparare si centrare 361 - 366


Seturi de scule 366 - 368


Truse de scule SOS pentru Europlus, Eurovision, Carucioare de scule Eurostyle 368 - 369



UNIOR®

1614/4BI

Extractor universal

- *Material: otel Carbon de scule calit si revenit*
- *Acoperire prin brunare conform DIN 50938*
- *Extractorul este un dispozitiv pentru inlocuirea rapida si precisa a bucsii de fixare a ghidonului pentru 1",1 1/8",1 1/2". Pentru utilizarea acestuia montati extractorul in capatul furcii si rotiti manerul de actionare, veti reusi schimbarea bucsii filetate fara a utiliza ciocanul. Este utilizat atat de profesionisti cat si de pasionatii de biciclete.*

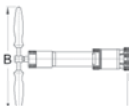












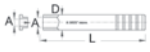
	D	D	D	L	B			
620195	1"	1.1/8"	1.1/2"	351	320	3510	F	**1.048,85**

1683/4A

Set bucsi ghidare ghidon

- *Material: Otel Carbon*
- *Acoperire prin brunare conform DIN 50938*
- *Dimensiuni: 1", 1.1/4"; 1.1/8" ca elemente separate si 1.1/2" dimensiunea tevii.*
- *Acesta scula este destinata pentru montarea ghidonului în cadrul bicicletei pentru țevi de 1", 1.1 / 4", 1.1 / 8", 1,1 / 2 ",diametrele introduse sunt inter-schimbabile.. Acest instrument permite o munca rapidă și eficientă .*





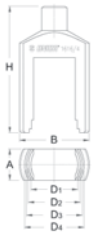
	A	A	A	A	L	D			
620255	1"	1.1/8"	1.1/4"	1.1/2"	319	46	2500	F	**193,25**

1616/4

Dispozitiv pentru inlocuire cap furca

- *Material: Otel Carbon*
- *Acoperire prin brunare conform DIN 50938*
- *Aceasta scula este utilizata pentru înlocuirea capului de furca a diferitelor modele mai vechi de biciclete.Pentru înlocuirea carcasei rulmentului loviți în scula cu ciocanul.*



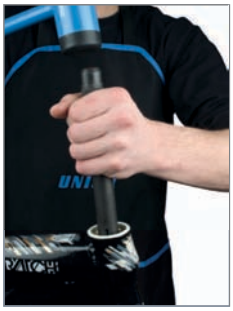


	A	B	H	D1	D2	D3	D4			
615527	25	55	100	37	41	44	47	422	E	**199,82**

1681/4

Extractor pentru locas furca

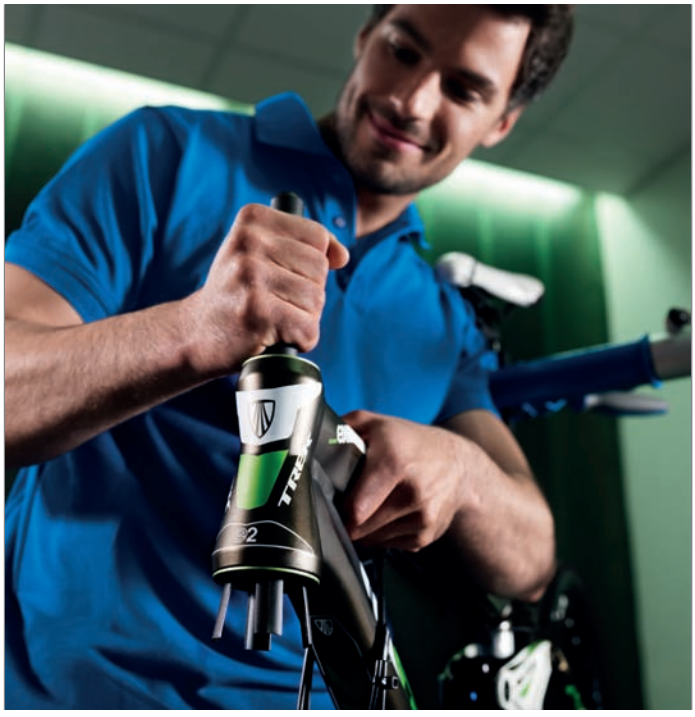
- *Material: Otel Carbon*
- *Acoperire prin brunare conform DIN 50938*
- *Extractorul de cap cadru este utilizat la înlocuirea capetelor uzate 1", 1 1/8" și 1 1/4" din cadru în mod ușor.*







				L	D			
616291	1"	1.1/8"	1.1/4"	300	40	327	E	**77,91**



1681.1/4

Extractor pentru locas furca

- *Material: Otel Carbon*
- *Acoperire prin brunare conform DIN 50938*
- *Scula face posibila schimbarea parților uzate din ghidon 1 1/4" și 1 1/2" din ghidon în mod ușor.*







			L	D			
619705	1.1/4"	1.1/2"	300	56	326	E	**76,76**

1682/4

Dispozitiv de montat ax ghidon

- *Material: Otel Carbon*
- *Acoperire prin brunare conform DIN 50938*
- *Setul de filetare piulita este utilizat pentru montarea capului de prindere furca pentru 1" si 1 1/4" .Este utilizat atat de profesionist cat si de amatori.*



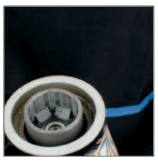












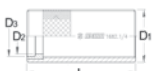
	L	D1	D2	D3			
616292	124	29,5	15,2	24	557	E	**57,17**

1682.1/4

Bucsa de fxidare

- *Material: Otel Carbon*
- *acoperire prin brunare*
- *Bucșa de ghidare este destinata ghidării în cazul montării piuliților de ghidare de 1" la 1/8"Este destinata atât profesioniștilor cat și pasionaților de biciclete.*





	L	D1	D2	D3			
619618	80	38	25,7	28,9	286	E	**42,42**

1680/4

Scula de presat rulment

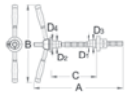
- *Material: Otel Carbon*
- *Aceasta scula de acuratete preseaza coaxial bucsile de capat pentru 1" 1 1/8", 1 1/4 si 1 1/2" in capatul cadrului de furca.Aditional exista un surub mai lung pentru furcile de BMX cu teava mai groasa.Aceasta scula precisa permite lucrul fara deteriorari ale componentelor.*



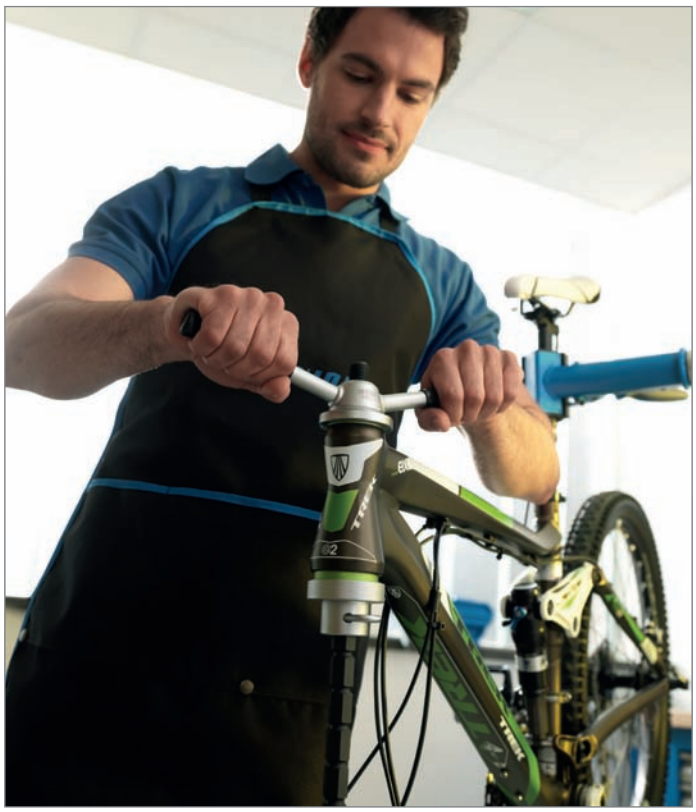








	D1	D2	D3	D4	C	A	B		
616290	1"	1.1/8"	1.1/4"	1.1/2"	320	410	340	2730	**389,87**



1618/2DP

Cheie de roata simpla indoita

- *Designul sculei asigura lucrul în locuri dificile.Forma unica a cheii este*
- *destinata pentru demontarea și montarea piuliților de la ghidonul*
- *modelului Sun Tour.Este folosit împreună cu cheia simpla art.1617.*
- *Noul design asigura un moment de torsiune mai mare și reducerea efortului fizic.*
- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Manere din doua straturi de plastic*







		L	A			
615372	36	270	4	275	A	33,86

1692/4

Scula pentru alinierea cadrului si furcii

- *Material: Otel Carbon de scule calit si revenit*
- *Acoperire prin brunare conform DIN 50938*
- *Pentru folosirea scule demontați roata și introduceți scula in cadru.Scula este utilizata pentru centrarea furcii spate si obținerea paralelismului.*







	D	B	L			
618412	30	84	309,5	1222	F	253,47

1602/2

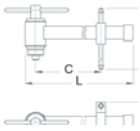
Dispozitiv de control și aliniere mecanism de schimbare viteze

- *material: otel special de scule,corpul din otel carbon*
- *Dispozitivul de reglare transmisie montat dea lungul furcii și filetat pe aceasta, tre-*
- *buie sa fie paralel cu angrenajul rotii spate, aceasta fiind baza pentru funcționarea*
- *corecta a lanțului si pentru o rapida si eficienta cuplare. Dacă bicicleta cade pe partea dreapta, defecțiunea este la schimbătorul spate și reprezinta o deformare a schimbătorului. Atunci când se efectuează lucrări de reparații, în primul rând roata*
- *din spate trebuie să fie centrata, deoarece roata din spate da alinierea de baza pentru ajustarea dispozitivului schimbătorului.Instrumentul este ușor de utilizat și foarte precis. Acesta este folosit pentru a verifica paralelismul dintre pârghia schimbătorul și roata, și pentru a alinia pârghia, dacă paralelismul nu este atins.*
- *In cazul caderilor bicicletei pe partea dreapta se deterioreaza roata spate si se deformeaza furca spate.Aceasta este cauza pierderii paralelismului intre cele doua si functionarea incorecta a transmisiei cu lant.*
- *Cand se incepe interventia in primul rand se centraza roata spate deoarece ea este baza in reglarea paralelismului intre roata si furca.*
- *Scula este foarte precisa si usor de utilizat.Este utilizata pentru verificarea paralelismului intre furca piniomului de antrenare si roata si de a regla paralelismul in caz de dereglare*

Cum sa utilizați scula:

- *Cum se utilizează dispozitivul:montați dispozitivul pe furca spate.Deplasați palpatorul dea lungul genții și poziționați-l în asa fel încât acesta sa atingă ușor geanta. Dupa aceasta fixați-l ferm prin infiletarea acestuia in capătul axului spate.Executați verificarea prin deplasarea ușoara a dispozitivului în diferite poziții de lungul jentii rotii spate.Daca dispozitivul este paralel cu roata, palpatorul din capătul diapozitivului va atinge ușor geanta în toate pozițiile.In caz contrar se va regla ansamblul pana la obținerea paralelismului.*





	L	A	B	C			
617587	430	150	48	392	1058	G	241,50

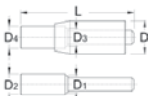


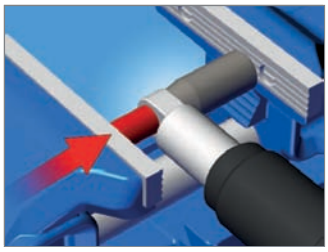
1701/5

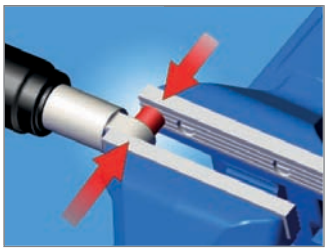
Set extractor bucsa

- *Scula este folosita pentru inlocuirea bucsilor vechi din amortizoare*
- *prin folosirea acestei scule și a unei menghine, înlocuirea bucșii este*
- *extrem de ușoara.*
- *Extractor bucsa suspensie*









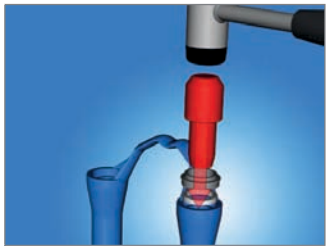
		D1	D2	D3	D4	D5	L			
623006	12 - 12,7	11,8	13,9	12,5	14,9	22	76	310	G	**84,58**

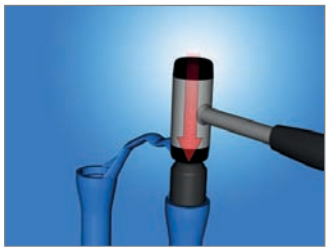
1702

Scula de montare a furcii ghidonului

- *Scula este destinata instalarii furcii ghidonului in partea din fata a furcii cu suspensia.Avand la baza cota de etansare,versiunile corespunzatoare ale sculei pentru dimensiunile - 32mm, 34mm, 35mm/36mm or 40mm.Scula este confectionata din plastic dur care nu deterioreaza carcasa furcii.*







623024	32	84	E	**39,59**
623025	34	92	E	**39,59**
623026	35/36	100	E	**46,04**
623027	40	123	E	**46,04**

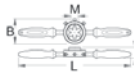
1696

Scula de filetat furca

- *Material: otel aliat*
- *maner ergonomic rezistent bimaterial*
- *Scula pentru filetat axul furcii este destinata retusarea filetului existent si inlaturarea prafului si vopselei ramasa pe filet.Confectionata dintr-un otel de calitate are o durata lunga de exploatare.Set de scule pentru axul furcii sub un unghi de 90°.Cand se utilizeaza filetarea folositi vaselina speciala pentru filetare.Manerul cu o forma ergonomica asigura transmiterea unei forte optime si un lucru eficient.*







	M	L	A	B			
616074	1" x 24 tpi	370	31	84	1100	F	**685,44**
619633	1.1/8" x 24 tpi	370	31	84	1130	F	**685,44**

1696.1

Ghidaj de taiere

- *Material: otel aliat*
- *a se folosi cu scula art 1696*





	M	D	A			
616075	1" x 24 tpi	55	15	162	E	**474,08**

1696.2

Filiera

- *Material: otel aliat*
- *a se folosi cu scula art 1696*





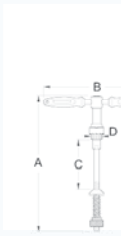
	M	D	A			
617898	1.1/8" x 24 tpi	55	16	155	E	**474,08**

1694

Largirea capului tevii 1 1/8"

- *Material: otel aliat*
- *maner ergonomic rezistent bimaterial*
- *lungimea maxima a capului furcii - 190 mm*
- *adancimea maxima de largire - 15 mm*
- *PENTRU SIGURANTA RULARII ROTII DIN FATA.Functionarea ireprosabila a rotii din fata si a directiei depinde de rulmentul care face legatura dintre furca si cadrul bicicletei.Atunci cand lagarul incepe sa se uzeze , vom repara*
- *paralelismul suprafetei tevii.Prin bordurarea tubuli de la directie obtinem o*
- *forma optima pentru calea de rulare a rulmentului directiei.*
- *Avantajul special al dispozitivului de bordurat Unior este optiunea rapida de decuplare și reglare.Forma conului de centrare este montat pe lagăr ceea ce asigura funcționarea fina a sculei. Toate suprafețele de taiere sunt caracterizate printr-un înalt nivel calitativ.*







	D	A	B	C			
617593	1.1/8"	425	335	180	2070	F	798,00

1694.1

Alezor pentru 1694

- *Material: otel aliat*





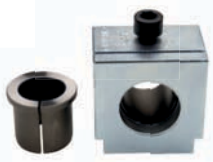
	D	A	B			
617824	1.1/8"	39	44,1	295	E	528,52

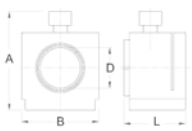
1605/2

Ghidaj de taiere pentru ghidon 1", 1.1 /8"

- *Material: otel aliat*
- *pentru cadru cu dimensiunea de 1" si 1 1/8"*
- *Când țeava unei noi furci este mai lunga decât este necesar, o vom tăia la dimensiunea dorita.Suportul pentru taiere asigura o taiere dreapta și precisa fără filet dimensiunile fiind 1" și 1 1/8". .Strângeți furca în ghidajul de taiere.Mișcați ghidajul pana în poziția acestuia deschisa și marcata a țevii apoi strângeți ușor bolțul.Închideți capul de ghidare și furca apoi prindeți-o într-o menghina de banc.Tăiați furca folosind un bomfaier (art. 750) pana la semnul de pe ghidaj.Confecționata compact și precis carcasa nu lasă sa se deplaseze semnul de pe țeava furcii.*







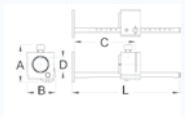
	D	D	A	B	L			
618419	1"	1.1/8"	70	55	44	821	F	235,57

1604/2

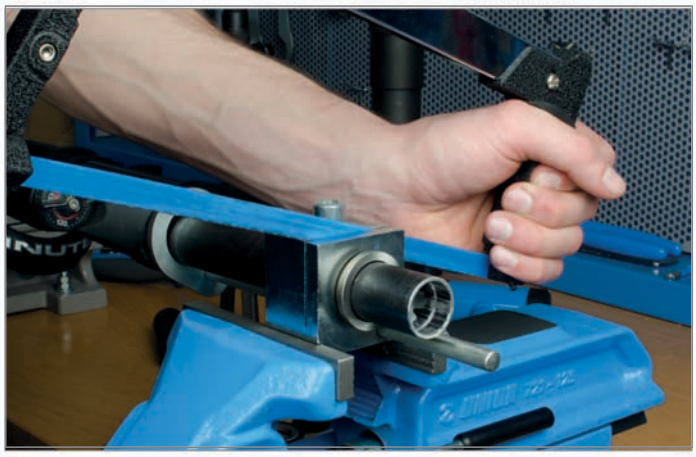
Dispozitiv de taiere ghidon, profesional

- *Material: otel aliat*
- *pentru cadru cu dimensiunea de 1" si 1 1/8"*
- *Cand ghidonul este prea lung decât este necesar,este nevoie de scurtarea acestuia la lungimea dorita.Dispozitivul permite tăierea acestuia precis,fără a fi nevoie de o filetare a furcii la dimensiunea de 1"si 1 1/8", obținând în acest fel lungimea dorita a furcii pentru montarea în cadru.Introduceți furca în diapozitiv și poziționat-o pentru lungimea dorita.Partea de tăiat trebuie poziționata precis in dispozitiv.Strângeți ușor șurubul de fixare.Fixați apoi dispozitivul cu furca în menghina.Tăiați furca cu bomfaierul (art 750).Carcasa este făcuta într-un mod compact și precis, nu lasă zgârieturi pe tubul ghidonului.*





	D	D	A	B	C			
618409	1"	1.1/8"	77	57,5	200	1030	F	312,32



1678/2BI

Scula pentru cadrul bicicletei

- *Material: Otel Carbon de scule calit si revenit*
- *maner ergonomic rezistent bimaterial*
- *finisare:cromat in conformitate cu standardul EN12540*
- *Clestele pentru cadrul bicicletei este destinat schimbarii rapide a cauciucurilor la*
- *modelele mai vechi cu cadru metalic*
- *Manerele lungi permit generarea unei forte suficiente pentru eliberarea de pe geanta, pemitand un spatiu suficient pentru schimbarea cauciucurilor sau camerelor pentru roti fara a fi necesara demontarea completa a rotii. Datorita arcului de blocare scula va ramane in permanenta in pozitia dorita de Dumneavoastra, permitand utilizarea fara un alt ajutor.*





	L	A	B	C			
620077	465	50	220	65	1405	G	367,45

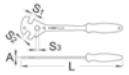
1613/2BI

Cheie de pedala, profi

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *tratament termic complet*
- *maner ergonomic rezistent bimaterial*
- *Cheia profesionala pentru pedala are trei deschideri de 15 mm orientate sub diferite unghiuri astfel încât utilizatorul poate realiza precizie și eficienta în înlocuirea pedalei indiferent de poziția axului pedalei.Designul și acoperirea cheii dau durabilitate, forța și precizie în utilizare.Un mâner lung permite o pârghie pentru înlocuirea chiar și a pedalelor foarte compacte.De asemenea incorporat în aceasta cheie este un desfăcător de sticla.*







	S1	S2	S3	L	A			
615537	15	15	15	350	5	381	A	102,74

1610/2

Cheie de pedala

- *material:crome vanadium*
- *acoperire cromare in conformitate cu EN12540*
- *tratament termic complet*
- *Cheia pentru pedala este utilizata pentru o montare si o demontare simpla si eficienta a pedalei.Forma lunga si zvelta precum si designul deschiderii o fac perfect adaptata pentru pedala.Viteza si siguranta in insurubarea si desurubarea pedalei in comparatie cu o cheie traditionala asigurand un lucru confortabil fara deteriorari. Cheia de pedala este disponibila in trei dimensiuni diferite:15 x 15 pentru pedale, in timp ce 15 x 17 si 15 x 9/16" pentru butucul rotii.*







	mm	L	A			
615011	15 x 15	340	22	269	A	35,39
615012	15 x 17	340	24	261	A	35,39
615127	15 x 9/16	340	22	269	A	35,39



1695/4BI

Maner pentru scula de filetat pedala

- *Manerul filierei este folosit cu o singura filiera,spre exemplu filiera*
- *pentru bratul pedalei 1695.1AR.*
- *Manerele lungi asigura o utilizare precisa si usoara.*



623190	420	E	113,98

1695

Tarod pedala

- *Material: otel aliat*
- *Functionarea are rolul de a elimina rugina si a reface filetele uzate.Este disponibil*
- *in trei dimensiuni diferite.*
- *Finisarea protejeaza impotriva eventualelor deteriorari exterioare.*
- *M10 - tarod pentru inelul schibbatorului de pinioane (616079)M5 - tarod pentru butelia de apa, inel de tractare, aripa, parghie de reazem.(616078)M3 - tarod pentru schimbatorul de pinioane (616077)*





	M	L			
616077	3	60,5	8	E	**24,57**
616078	5	60,5	11	E	**24,57**
616079	10	60,5	22	E	**53,81**

1695.1

Tarod pedala

- *Material: otel aliat*
- *Design precis, tratat,precum și forma art 1695.1 îl fac util pentru tăierea de filete noi înainte de introducerea bucsilor filetate 1695.3 sau 1695.4 și este disponibil în set (stânga și dreapta).Se folosește în varianta de tarod unic conform variantei franceze.*





	M	L			
616080	14 x 1.25	60,5	79	E	**168,11**

1695.2

Tarod pedala

- *Material: otel aliat*
- *Design precis, tratat,precum și forma art 1695.2 îl fac util pentru tăierea de filete noi înainte de introducerea bucsilor filetate 1695.3 sau 1695.4 și este disponibil în set (stânga și dreapta).Tarodul 1695.2 curata filetul vechi înainte de realizarea unui nou filet, nu mai este necesar un alt tarod și o alta trecere după.*





	M	L			
616081	16 x 1	90,5	140	E	**511,67**

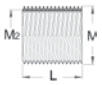


1695.3

Set de 10 piese pentru corectarea filetului pedalei

- *Material: otel aliat*
- *diametrul interior:M14 x 1,25*
- *diametrul exterior: M16 x 1*
- *Setul de reparare a filetelor este utilizat pentru înlocuirea filetelor deteriorate.Acesta este utilizat împreună cu tarodul apropiat (art. 1695.2) și este disponibil în set de 10 piese.*





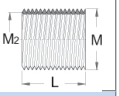
	M1	M2	L			
616082	M 16 x 1	M 14 x 1,25	13,2	45	E	**158,18**

1695.4

Set de10 piese pentru corectarea filetului pedalei

- *Material: otel aliat*
- *diametrul interior:M14 x 1,25*
- *diametrul exterior: M16 x 1*
- *Setul de reparare a filetelor este utilizat pentru înlocuirea filetelor deteriorate.Acesta este utilizat împreună cu tarodul apropiat (art. 1695.2) și este disponibil în set de 10 piese.*





	M1	M2	L			
616083	M 16L x 1	M 14L x 1,25	13,2	42	E	**158,18**

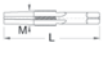


1695.1AL

Bucsa filetata pedala

- *Material: otel aliat*
- *Forma precisa, tratat termic și forma art.1965.1AL se folosește pentru tăierea filetelor pe stânga înainte de introducerea bucșii filetate 1695.3L.Filiera 1695.1AL înlătura vechiul filet înainte de tăierea unuia nou, nu mai este necesara o alta operație de filetare.*





	M	L			
616554	5/8" x 24 TPI	85,5	81	E	**93,98**

1695.1AR

Bucsa filetata pedala

- *Material: otel aliat*
- *Design și forma precisa a art 1965.1AR care este destinat tăierii filetelor pe dreapta înainte de introducerea bucșii filetate pe dreapta 1695.3A. Tarodul 1695.1AR înlocuiește vechiul filet și realizează filetarea unuia nou, nefiind necesara o alta operație.*





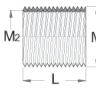
	M	L			
616553	5/8" x 24 TPI	85,5	80	E	**93,98**

1695.3A

Set de 10 piese pentru corectarea filetului pedalei

- *Material: otel aliat*
- *diametrul interior:9/16 x 20 TPI*
- *diametrul interior:9/16 x 20 TPI*
- *Setul de reparare a filetelor este utilizat pentru înlocuirea filetelor deteriorate. Acesta se utilizează împreună cu tarodul apropiat (art. 1695.1AR) și este disponibil în set de 10 piese.*





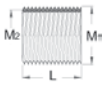
	M1	M2	L			
616551	5/8 x 24	9/16 x 20	16,3	49	E	**151,88**

1695.4A

Set de 10 piese pentru corectarea filetului pedalei

- *Material: otel aliat*
- *diametrul interior:9/16 x 20 TPI*
- *diametrul interior:9/16 x 20 TPI*
- *Setul de reparație filete este folosit la înlocuirea filetelor deteriorate.Sunt folosite împreună cu tarodul apropiat (art. 1695.1AL) și este disponibil în set de 10 piese.*





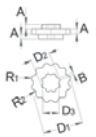
	M1	M2	L			
616552	5/8L x 24	9/16L x 20	16,3	50	E	**151,88**

1609.1/2

Cheie pentru bolțul de plastic Shimano

- *Scula este destinata schimbării și instalării bolțului de plastic pentru Shimano*
- *care este folosit în axul Hollowtech II*
- *Scula poate fi folosita manual sau folosind o cheie cu deschiderea de 13 mm*
- *Magnetul puternic de pe spatele cheii ii permite sa fie așezat în locul dorit.*





	A	B	D1	D2	D3	R1	R1			
623120	4	1,85	32	15,4	13	2,3	2,5	33	E	**45,47**

1608/2BI

Scula ansamblu ax pedala

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *maner ergonomic rezistent bimaterial*
- *Aceasta scula este destinata pentru instalatii si inlocuirea partilor adanci ale piulitelor canelate XTR ® si Dura Ace si permit o munca usoara fara alunecare si avarierea componentelor.*







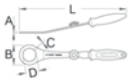
	L	A	S	D			
615534	350	4	3,8	37,3	296	A	**60,17**

1609/2BI

Scula ansamblu ax pedala

- *Acesta cheie este destinata pentru inlocuirea si remontarea piulitelor*
- *canelate pentru Shimano ® XTR - FC - M960, XT FC-M 760, SAINT FC -M*
- *800, RACE FACE ® X-TYPE, FSA ® MEGAE X, Truativ ® Giga X- Pipe fara*
- *alunecari sau deformari.Cheia are si o alta caracteristica, desfacerea pinului de plastic al piulitei canelate de la ax pedala.*
- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *maner ergonomic rezistent bimaterial*









	L	A	B	D	C			
615536	350	4	66	42,7	2,8	316	A	**88,94**

1672/2

Scula pentru ghidarea lagărelor, pentru modelele mai vechi.

- *Material: Otel Carbon de scule calit si revenit*
- *Scula este folosita pentru demontarea și montarea lagărelor la modelele mai vechi de biciclete.Cheia este perfect adaptata mâinii pentru acționare în locuri strâmte și locașuri mici asigurând o instalare ușoară a ghidajelor pentru modelele mai vechi de biciclete.Lungimea cheii este de 204 mm.*





	L	B1	B2	A	C	D			
618414	204	27,3	31	2,5	3	16,5	113	A	**28,88**

1621/1BI

Antrenor pentru montarea piulitelor pedalier

- *material:compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *75 de dinti*
- *Forma antrenorului pentru piulite pedala asigura lucrul in locuri dificile*
- *si imbunatateste accesibilitatea la butuci.Noua forma asigura un*
- *moment marit, reduce efortul fizic si asigura o viata indelungata sculei. Momentul maxim este asigurat de forma manerului.O asezare perfecta in mana il face confortabil in timpul lucrului.*
- *Antrenorul pentru piulițe este destinat pentru reglarea și slăbirea piulițelor de 14 mm si 15 mm.Este folosit în mod particular pentru montarea și demontarea butucilor.Forma acestuia previne căderea capului cheie tubulara*
- *Capete chei tubulare interschimbabile:14 mm si 15 mm*







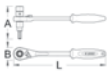
		L	A	B			
615248	14 x 15	260	71	35	380	E	**190,73**

1621/1ABI

Antrenor pentru montarea piulitelor pedalier cu cap tubular 14 mm si cap locas hexagonal 8 mm

- *material:compozitie speciala pentru calire revenire*
- *75 de dinti*
- *maner ergonomic rezistent bimaterial*
- *Capete interschimbabile hehagon 8 mm si cap cheie tubulare de 14 mm.Este utilizat in mod special pentru montarea si demontarea pedalierului.*





			L	A	B			
616288	14	8	260	91	35	381	E	**191,21**

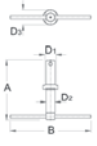


1607/4

Scula de montat ax pedalier

- *Material: Otel Carbon*
- *Acoperire prin brunare conform DIN 50938*
- *Scula este utilizata pentru montarea sau schimbarea carcasei axului pedala de 35, 8 si 36, 3 mm.Este confectionata din otel de calitate cu tratament termic si suprafata protejata.Avantajul sculei este acela ca preintampina patinarea carcasei*





	A	B	D1	D2	D3			
616293	220	290	36,5	32	54	1750	F	**195,77**

1661/4

Extractor ax pedala

- *Scula este destinata pentru inlocuirea pinioanelor de lant si piulitelor*
- *de 14 mm.Scula este destinata pentru înlocuirea pinioanelor de lanț*
- *.Cu adaptor suplimentar al sculei pentru alt standard ca ISIS și Octalink*
- *acestea pot fi înlocuite la fel de bine.*
- *Material: Otel Carbon de scule calit si revenit*
- *tratament termic complet*
- *Acoperire prin brunare*





	S1	S2	M	L	D			
615529	16,9	14	22 x 1	74,5	13	139	E	**83,06**

1626A

Setul complet Campagnolo Power si Ultra Torque de asemenea si pentru Fulcrum Ultra Torque

- *Setul complet include brat si rulment de schimb si scula pentru montare pentru Campagnolo® si Fulcrum® Ultra Torque cranksets cat si pentru Campagnolo® Power Torque system*



623207	570	E	**283,45**

1626.1A

Campagnolo set extractor rulmenti ax pedalier

- *Setul de scule 1226A se folosește împreuna cu 1626/2 setul de demontare și montare a rulmentului Campagnolo Ultra Torque*



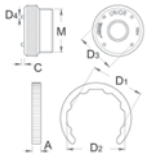
623086	100	E	**66,89**

1664

XTR Extractor

- *Material: Otel Carbon de scule calit si revenit*
- *Extractorul XTR este utilizat pentru inlocuirea arborelui XTR.Pentru utilizare scoateti inelul de plastic de pe partea exterioara a extractorului folosind cei patru pini de pe partea stanga a extractorului.Desurubati piulita interioara cu piulita de plastic. Insurubati extractorul cu partea lui dreapta si folositi o cheie locas hexagonal pentru desurubarea piulitei de ficare a axului.Insurubati extractorul, inserati-l cu partea cilindrica in piulita axului pana la decuplarea de pe ax.Scula are mare eficacitate si este recomandata profesionistilor si pasionatilor de biciclete.*





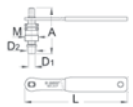
	D1	D2	D3	D4	A	M	C			
619710	37	40	26,9	1,8	5,9	M 30 x 1	2	84	E	**82,48**

1661.3/4P

Extractor cu maner folosit pentru Standard, Shimano Octalink si Isis

- *Extractorul este folosit pentru inlocuirea pedalelor la Shimano Octalink si ISIS cat si pentru pedalele cu prindere patrata.Un maner robust asigura folosirea usoara si rapida a acestuia.Produsul este extrem de eficient si poate fi folosit atat de pasionati cat si de profesionisti.*





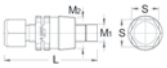
	D1	D2	M	A	B	L			
623088	11,5	16	M22 x 1	75	24	165	215	E	**76,70**

1662/4

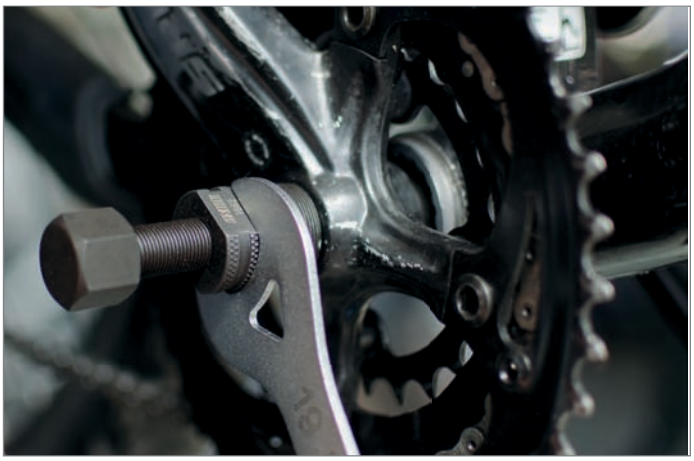
Extractor filetat

- *Material: Otel Carbon de scule calit si revenit*
- *Extractorul filetat este utilizat pentru schimbarea arborelui pedalier cu deformarea filetului interior cand acesta nu poate fi schimbat cu un extractor normal*





	M1	M2	S			
619707	12 x 1	22 x 1	19	126	E	**55,13**



1671.1/4

Scula pentru ax pedalier

- *Material: Otel Carbon de scule calit si revenit*
- *Pentru: ShimanoZ, ISIS*
- *Folositi scula de pinioane impreuna cu antrenorul de 1/2" art.190.1A Bl.*



616068	112	E	**64,73**

1671.2/4

Scula pentru ax pedalier

- *Material: Otel Carbon de scule calit si revenit*
- *Pentru Shimano ®, XTR BB-950, Bontrager ®, si TruVativ ® (ISIS Drive ® tip)*



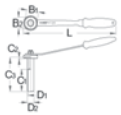
616069	211	E	**62,06**

1671.5/2Bl

Shimano hollowtech® scula pentru ax pedalier, cu maner

- *Material: Otel Carbon de scule calit si revenit*
- *.Scula se compune din cheie,șurub, piulița și mâner.Pentru utilizare montați cheie în piulița axului și înșurubați șurubul, prevenind alunecarea și deteriorarea axului când se aplica presiunea de lucru.Munca este mai ușoara când se folosește mânerul de 350 mm lungime bi-material. Partea adițională a șurubului este 19 mm AF spre a fi folosita cu cheia de 19 mm AF și antrenor cu clichet pentru verificarea momentului de strângere. Cheia poate fi folosita si independent cu o cheie de 19 mm fără șurub, cu piulița și mâner*





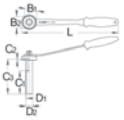
	L	B1	B2	D1	D2	C1	C2	C3			
619713	348	42,7	46	18	23,8	90	5,5	128,5	780	E	**236,25**

1671.6/2Bl

Campagnolo® ultra-torque- scula pentru ax pedalier, cu maner

- *Material: Otel Carbon de scule calit si revenit*
- *Scula se compune din cheie,șurub, piulița și mâner.Pentru utilizare montați cheie în piulița axului și înșurubați șurubul, prevenind alunecarea și deteriorarea axului când se aplica presiunea de lucru.Munca este mai ușoara când se folosește mânerul de 350 mm lungime bi-material. Parte adițională a șurubului este 19 mm AF spre a fi folosita cu cheia de 19 mm și antrenor cu clichet pentru verificarea momentului de strângere. Cheia poate fi folosita și independent cu o cheie de 19 mm fără șurub, cu piulița și mâner*





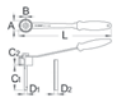
	L	B1	B2	D1	D2	C1	C2	C3			
619714	348	42,7	46	18	24,5	90	10,5	117	770	E	**248,43**

1671.7/2BI

Truvativ® scula pentru ax pedalier, cu maner

- *Material: Otel Carbon de scule calit si revenit*
- *Scula se compune din cheie,șurub, piulița și mâner.Pentru utilizare montați cheie în piulița axului si înșurubați șurubul, prevenind alunecarea și deteriorarea axului când se aplica presiunea de lucru.Munca este mai ușoara când se folosește mânerul de 350 mm lungime bi-material. Parte adiționala a șurubului este 19 mm AF spre a fi folosita cu cheia de 19 mm si antrenor cu clichet pentru verificarea momentului de strângere. Cheia poate fi folosita si independent cu o cheie de 19 mm fără șurub, cu piulița și mâner.Scula are un manșon reglabil de 13.9 mm.*





	L	D1	D2	C1	C2	A	B			
620206	335	10,8	13,9	89	5	37,4	4,0	677	E	**222,71**

1671.8/2BI

Scula pentru ax pedalier

- *Material: Otel Carbon de scule calit si revenit*
- *maner ergonomic rezistent bimaterial*
- *Surubul cu doua filete permite utilizarea sculei atat pentru ax pedalier standard de*
- *Shimano cat si pentru ax pedalier de la Shimano Octalink si Truvativ*
- *Este formata din cheiea art. 1671.1, surub cu piulita si maner*
- *Acesta scula ne permite fixarea în cheia în ax cu un șurub suplimentar, care vine cu scula. Acest lucru previne alunecarea cheii și deteriorarea piuliței. Munca se face ușor datorita mânerului lung de 350 mm, din doua componente cu forma ergonomica. Același procedeu poate fi folosit pentru instalare.Șurubul este de 24 mm AF și este acționat cu o cheie de 24 mm, pentru verificarea cuplului se utilizează o cheie dinamometrica. Mânerul poate fi detașat, dacă este necesar.*

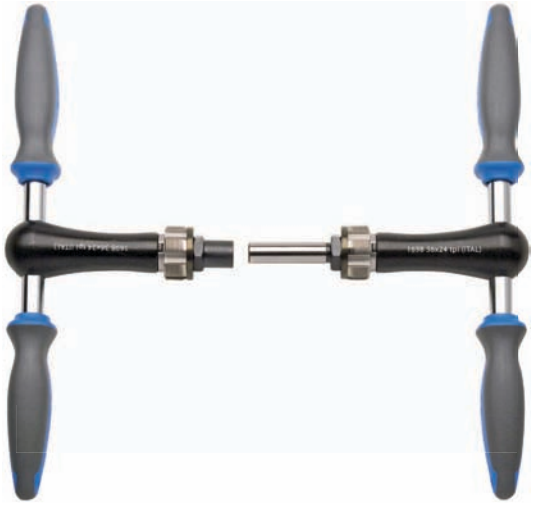


623087	490	E	**170,10**

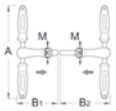
1697

Scula de filetat locas furca (BSA)

- *Material: otel aliat*
- *Scula este destinata pentru filetarea in carcasa cadrului.Cand se*
- *fileteaza stanga sau dreapta introduceti scula paralel fata de ambele parti al carcasei cadrului.Forma asigura o munca eficienta si precisa*
- *maner ergonomic rezistent bimaterial*







	M	A	B1	B2			
616076	1.3/8 x 24 tpi	335	145	180	2200	F	**779,52**

1697.1

Filiere de schimb pemtru 1697

- *Material: otel aliat*
- *filiere stanga si dreapta sunt disponibile in setul pentru articolul 1697*



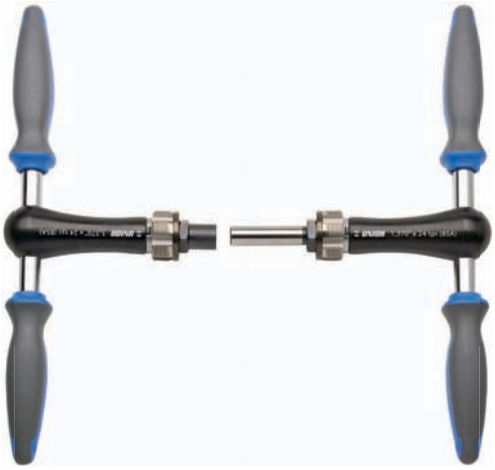


		A			
617310	1.3/8 x 24 tpi (BSA)	18	117	E	**505,21**

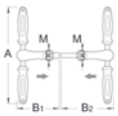
1698

Scula de filetare locas furca, ITAL

- *Material: otel aliat*
- *maner ergonomic rezistent bimaterial*
- *Pentru refacerea si taierea filetelor in cadru cu locasurile de rulmenti,foloseste un cutit de filete.Este destinata in mod special pentru roti de origine Italiana care are filet pe dreapta pe ambele parti a locasului pentru rulmenti (36 mm x 24t pi), aceasta insemnand o derulare in ambele parti in sensul acelor de ceasornic.Poti de asemenea sa repari filetele folosind cutitul de filet.*







	M	A	B1	B2			
617589	36 x 24 tpi (ITAL)	335	145	180	2300	F	**767,45**

1698.1

Tarozi de schimb pentru 1698

- *Material: otel aliat*
- *Tarod stânga și dreapta disponibili în set pentru art 1698*



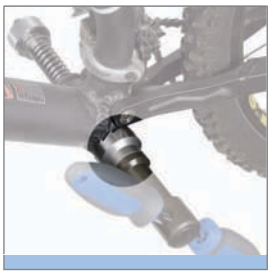


	M	A			
617590	36 x 24 tpi (ITAL)	18	122	E	**505,21**

1699.1

Scula de strunjit pentru 1699

- *Material: otel aliat*





	A	D			
617592	29	44	197	E	**325,92**

1699

Scula pentru frezare frontala (BSA si ITAL)

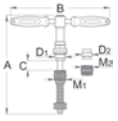
- *Material: otel aliat*
- *maner ergonomic rezistent bimaterial*
- *Pentru a curăța suprafața carcasei butucului, utilizați setul complet de scule pentru tratament frontal și tăiate.*

Utilizarea este simplă:

- *Strângeți bițiile cu partea filetata in jos si fixați arcul si piulița*
- *pentru a asigura o forța axiala suficienta.Cu un design excelent si o execuție de înalt nivel calitativ, scula va asigura atât pe dreapta cat si pe stânga o strângere simultana si coaxiala.*







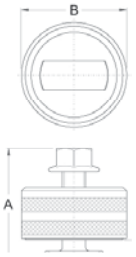
	M1	M2	A	B	C	D1	D2			
617591	36 x 24 tpi (ITAL)	1.3/8 x 24 tpi (BSA)	325	335	90	34,8	33,5	2340	F	**751,12**

1625/2

Scula brat inferior pentru BB30

- *Aceasta scula este construita pentru a dezinstala si a instala rulmentii bratelor inferioare nefiletati ai sistemelor de brate inferioare BB30. Scula vamuta rulmentii din carcasa cratelor inferioare BB30*









	A	B	C	D				
621660	60	54	17	35	19	346	G	**120,02**

1625/2BB90

Scula pentru inlocuirea axului pedalie BB90

- *Scula este destinata inlocuirii axului pedalier nefiletat cu rulment si bucsa de la sistemul BB90.Supora si alte sisteme de presare standard cu arbore de 24 mm cum ar fi BB86, BB92, SRAM Press Fit GXP.Scula va impinge afara rulmentul si bucsa din cadru.Se introduce cu atentie capul de ghidare al sculei prin bucsa axului pedalier (marcata cu verde)*



623085	283	G	**160,44**



1626/2

Extractor de rulmenti si set de montare de la Campagnolo si Fulcrum Ultra Torque

- *Destinat si realizat pentru montarea si demontarea rulmentului de presiune uzat la Campagnolo® si Fulcrum® Ultra-Torque.*
- *Bratele forjate ale extractorului si marginile conice se strang sub rulment in timp ce sistemul pistonului scoate rulmentul.*
- *Scula de instalare fixeaza cu precizie atat axul macaralei cat si rulmentul presat potrivit pentru a asigura instalarea exacta. Doar pozitionati rulmentul in locul potrivit folosind scula si un ciocan*





	L	D	D			
621661	75	40	75	500	E	**227,12**

1659/2

Scula de inlocuit pinioane 1/8"

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Scula este destinata schimbarii pinionelor .Lantul se aseaza corect de dintii pinionului si asigura o antrenare lina fara alunecari sau deteriorari a pinionului.Arcul de retragere cu care este prevazuta scula o fac deosebita de produsele similare cu aceiasi destinatie.*





	L	C			
619589	350	1/2" x 1/8"	357	E	**87,57**

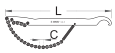
1660/2

Scula pentru pinioane

- *Cheia pentru pinioane este destinata pentru toate tipurile de pinioane cu lant inclusiv cele tip caseta. Lucreaza cu eficienta si precizie fara alunecare si deteriorarea pinionului. Adaugand un arc de retragere este o scula comparabila cu produsele similare.*
- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*







	L	C			
615528	350	1/2" x 3/32"	361	E	89.51

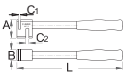
1667/2

Scula de ajustat foaia de lant pedalier

- *Material: Otel Carbon de scule calit si revenit*
- *Scula este destinata reparării și ajustării micilor deformări ale foii de lanț pedalier. Deschiderile înguste deformate ale dinților, precum și îndreptarea foii de lanț.*







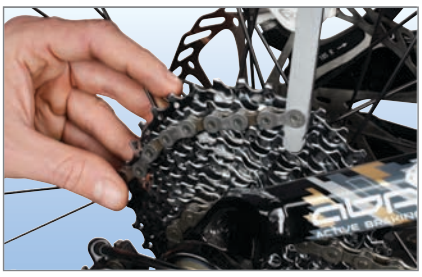
	L	A	B	C1	C2			
619704	243	42	25	4,5	7	542	A	107.31

1658/2P

Indicator de pozitionare lant pe pinion

- *Material: Otel Carbon de scule calit si revenit*
- *pentru HG si IG roti de lant*
- *Scula este utilizata pentru determinarea pozitionarii lantului pe pinioane. Poate fi utilizata pentru pinioane de la 12 la 21 de dinti. Mod de utilizare: lantul este montat pe pinion si scula pozitionata cu partea din spate rotunda intre doi dinti pe partea de sus a pinionului. Ultima za a lantului este miscata pe pinion si o forta de 100 N sau 10 Kg este aplicata pe scula in directia de rotire a lantului. In acest moment ultima za a lantului este miscata pe pinionul de lant. Daca zaua calca corect pe dintele roatii de lant inseamna ca roata de lant este in buna stare si va functiona bine si cu un lant nou. Totusi, daca lantul calca gresit pe dinte roata de lant este defecta si trebuie schimbata. De asemenea cand lantul sare de pe roata repetat este nevoie de a inlocui roata de lant.*
- *acoperire cromare in conformitate cu EN12540*







	L	B	A	C			
619717	250	12	42	1/2"	86	A	63.63

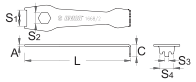
1668/2

Cheie pentru piulitele frontale ale pinionului de lant

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Cheia este utilizata pentru desurubarea si strangere piulitelor de la pinionul de lant. Strangerea incepe cu partea larga a cheii, iar cand piulita este suficient de stransa se finalizeaza cu partea stramta care este indoita pentru a realiza o mai mare forta la finalizarea strangerii. La desurubarea piulitei cheia este folosita in ordine inversa.*
- *Dimensiunea cheii locas hexagonal are deschiderea de SW10. Este utilizata pentru insurubarea si desurubarea piulitelor de aceasta dimensiune, in acelasi timp poate fi folosita la agatarea cheii*







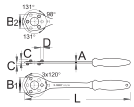
	S1	S2	S3	S4	L	A	C			
618415	14,8	10,2	3,6	12,5	98	1,5	11	18	A	11.18

1670/2BI

Schimbator de pinioane

- *Schimbatorul de pinioane este folosit pentru toate tipurile de pinioane de lant incluzand si cele tip casete. Este util pentru pinioane cu 11 si 12 dinti.*
- *Codul 622881 este folosit pentru roata libera cu 13 si 14 dinti*
- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *maner ergonomic rezistent bimaterial*





	L	D	A	C	B1	B2			
617235	350	8,6	4	6,4	49,8	46	238	A	**128.36**
622881	350	8,6	4	6,4	53,1	57,7	238	A	**128.36**



1670.1/4

Cap pentru inlocuire pinioane Shimano

- *Pentru Shimano, SRAM si Sachs Aris, SunRace Z*
- *folositi scula de pinioane impreuna cu antrenorul de 1/2" art, 190.1ABI*





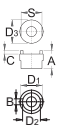
	A	B	D1	D2	S			
616062	44,7	3,0	22,72	21,24	21	57	E	**35.86**

1670.2/4

Cap pentru inlocuire pinioane Suntour

- *Pentru Suntour Z*





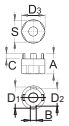
	A	B	C	D1	D2	D3	S			
616063	19,9	6,5	3,9	23,9	19,6	25,5	23	37	E	**21.68**

1670.3/4

Cap pentru inlocuire pinioane Suntour

- *Pentru Suntour Z*





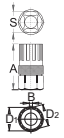
	A	B	C	D1	D2	D3	S			
616064	23	6,8	5,4	23,9	19,9	26,7	24	42	E	**22.21**

1670.4/4

Schimbarea cuplajului torpedou Campagnolo

- *Scula de scoatere a cuplajului liber torpedou este folosita pentru schimbarea ansamblului la modelul Campagnolo® freewheels.*
- *Folositi scula de pinioane impreuna cu antrenorul de 1/2" art.190.1A Bl.*





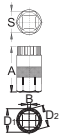
	A	B	D1	D2	S			
616707	44,2	3,0	22,63	21,35	21	54	E	**42.42**

1670.5/4

Cap pentru inlocuire pinioane Shimano

- *ShimanoZ, SRAMZ, Sun TourZ, Chris KingZ si Sun RaceZ si altele.*
- *Folositi scula de pinioane impreuna cu antrenorul de 1/2" art.190.1A Bl.*





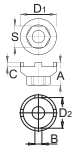
	A	B	D1	D2	S	Type			
616065	45,4	2,1	23,40	21,20	21	Sram	66	E	**32.87**

1670.6/4

Cap pentru inlocuire pinioane BMX

- *Scula pentru BMX*



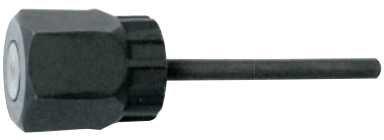


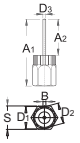
	A	B	C	D1	D2	S			
616066	25,4	7,8	5,0	40,9	35	24	84	E	**40.16**

1670.7/4

Cap pentru inlocuire pinioane cu ghidaj cu bolt

- *Schimbator de pinioane cu ax de ghidare pentru ShimanoZ, SRAMZ Sun RaceZ, SuntourZ si altele.*





	A1	A2	B	D1	D2	D3	S			
616067	69,1	37,5	2,3	23,40	21,25	3,0	24	85	E	**39.80**

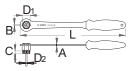
1670.8/2BI

Cheie pentru pinioane roata spate cu maner

- *Cheia este utilizata pentru Simano®SRAM®Sun Race®Suntour® si alte casete de pinioane, ca si cheia nr. 1670.7*







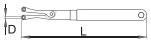
	L	B	A	C	D1	D2			
617908	337	1,5	4	7,9	23,6	5,0	340	A	95.97

253/2DP

Cheie reglabila cu stifturi

- *material: crom vanadiu*
- *Bolturi: brunate*
- *capul cheii este tratat in intregime*
- *acoperire cromare conform EN12540*
- *Manere din doua straturi de plastic*
- *Bolțurile de 2, 3 mm si 2, 8 mm sunt interschimbabile, distanta dintre ele este reglabila. Distanta cea mai mare intre bolțuri este 50 mm în poziție deschisa și 10 mm în poziție închisa.*





616294	123	A	86.31

253.1/4A

Set de stifturi filetate pentru art. 253 A



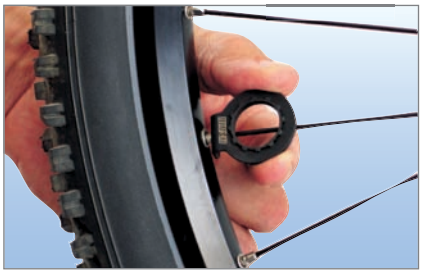
621020	7	E	23.42

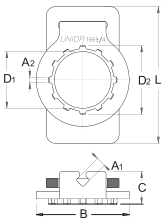
1669/4

Cheie de buzunar pentru spite si cheie de schimbat torpedou

- *Material: Otel Carbon de scule calit si revenit*
- *Acoperire prin brunare conform DIN 50938*
- *Cheia ete scula de baza pentru ciclisti*
- *Schimbarea niplurilor rupte pe partea dreapta a rotii din spate, piulițele se vor înlocui primele.*
- *Mai întâi se demontează roata spate, apoi se fixează scula în locașul de piuliță din roata.*
- *Am instalat la loc roata din spate, astfel încât marginea pătrata a sculei presează pe cadru sau suport. După aceea, se rotesc pedalele în direcția înainte și slăbiți piulița rotii libere. Putem scoate caseta și înlocuiți spițele rupte. În scopul de a preveni posibilitatea ca vopseaua de pe cadrul bicicletei sa fie deteriorata, o farfurie de plastic de protecție ar trebui să fie introdusa între cheie ş i cadru.*







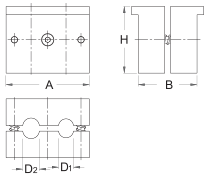
	L	B	D1	D2	A1	A2	C			
616758	47	32	19,5	23,6	3,4	1,8	12	20	E	20.32

1639/2

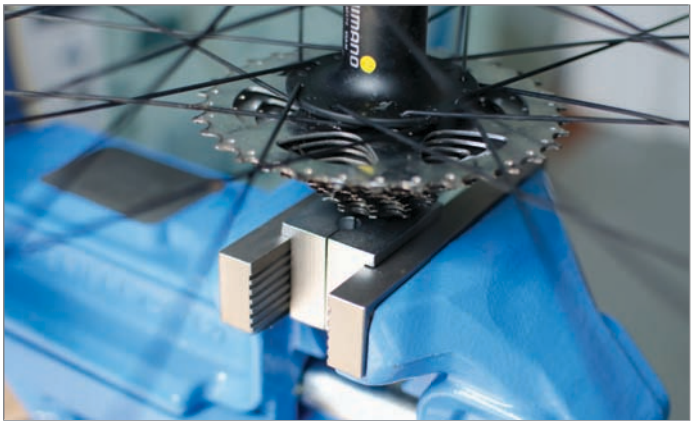
Menghina de ax

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Menghina permite utilizarea pentru doua diametre de 9 mm si 10 mm pentru introducerea axului fata si spate. Menghina este usor de utilizat. Doua arcuri interioare deschis falcile automat cand axul a fost schimbat.*





	D1	D2	A	B	H			
619715	9	10	50	35,5	40	488	F	105.79





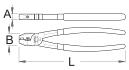
1640/1DP

Cleste de lant

- *Material: Otel Carbon de scule calit si revenit*
- *tratat complet*
- *acoperire cromare in conformitate cu EN12540*
- *Capetele clestelui tratate prin inductie*
- *Manere din doua straturi de plastic*
- *Clestele pentru montare demontare lant a fost dezvoltat pentru a asigura atat reparatii profesionale in service-uri sau acasa a lantului. Functionalitatea, eficienta si usurinta sunt avantajele clestelui pentru lant. Cu forma sa unica se asigura mai putin efort pentru extragerea bolturilor de pe lant. Munca va fi eficienta si confortabila fara a deteriora bolturile. Forma ergonomica asigura folosirea cu o singura mana.*







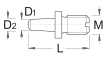
	L	B	A			
615377	243	29	13	426	E	146.90

1640.1/4

Inlociurea boltului pentru clestele de lant

- *acoperire prin brunare conform DIN 50938*





	D1	D2	M	L			
605956	2,8	3,8	M 5	16	7	E	9.14

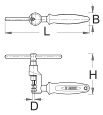
1647/2ABI

Scula pentru montare demontare lant de tip surub

- *Material: Otel Carbon de scule calit si revenit*
- *Surubelnita de lant este destinata atat profesionistilor cat si utilizatorilor amatori.*
- *Simpla reglare a axului pozitioneaza perfect boltul.Cu o forma ergonomica este usor de folosit si asigura o mare precizie.*
- *maner ergonomic rezistent bimaterial*
- *pentru Compagnolo, compatibila cu 11 viteze*





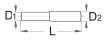


	D	B	L	H			
621662	3,4	22	150	72	175	E	129.26

1647.1/4A

Bolt de schimb pentru scula montare demontare lant, 2 buc. pe set





	D1	D2	L			
621734	3,4	4	24	10	E	6.35

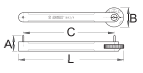
1643/4

Verificator de profil lant

- *Pentru a usura cuplarea trenului de schimbare pinioane, majoritatea producatorilor recomanda inlocuirea lantului la sau inainte de 1 % alungire. Acum puteti simplu si precis sa determinati starea si alungirea oricarui lant. In mod simplu introduceti Verificatorul de bolt intre doua zale, apasati bratul de intindere si etalonare dupa care verificati pe fereastra de etalonare pentru acuratetea masuratorii.*







		L	B	A	C			
617170	0 - 1,2	137	25,5	20	137	168	G	83.53

1644/2

Indicator de uzura lant

- *Executat prin taiere cu laser, de precizie a otelului*
- *Un lant uzat si pinion de lant uzat rapid.Scula este „trece" „nu trece" verificator destinat unei masuratori de acuratete cand lantul este uzat.*
- *Masuratori: de la 0 la 0, 6 mm - lant fara uzura. De la 0, 7 la 1, 2 mm lantul este uzat si este necesara inlocuirea lui.*





	L	A	B	C			
617171	122,5	2	37	12,7	40	E	**30.71**

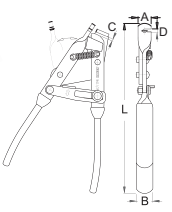


1642.1/2P

Cleste pentru cablu cu sistem de siguranta

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Manere din doua straturi de plastic*
- *Functionarea acestuia consta in tensionarea cablului de frana si a schimbatorului de viteze. Este utilizat pentru pentru pozitionarea si intinderea cablului in locasul acestuia. Partea de siguranta a clestelui este activata cu o clapeta. Cablul se fixeaza pe cleste. Blocarea se realizeaza automat prin inchiderea manerelor. Siguranta suplimentara asigura o utilizare rapida si usoara.*



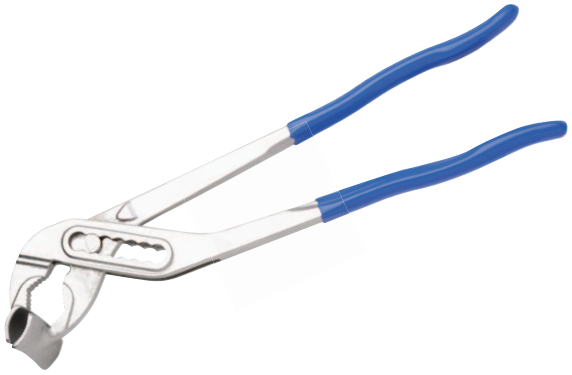


	L	A	B	C	D			
619719	185	14	18	2,3	4	246	E	**114.19**

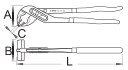
1601/2DP

Scule pentru demontarea cauciucului

- *material: crom vanadiu*
- *tratat complet*
- *finisare: cromat in conformitate cu standardul EN12540*
- *Manere din doua straturi de plastic*
- *Clestele pentru demontarea cauciucurilor este destinat pentru o rapida demontare a cauciucului in mod special cauciucurile care sunt deja lipite de janta. Folosind clestele, vom comprima cauciucul si acesta se va desprinde de geanta. Cu o asemenea strangere este asigurata schimbarea rapida a cauciucului. Forma bine gandita a clestilor asigura separarea cauciucului de geanta si nu vom ciupi camera la schimbarea cauciucului. Clestii sunt cromati si placati cu plastic pentru o strangere mai confortabila.*







	L	A	B	C			
617586	300	61	64	7	588	E	**183.49**

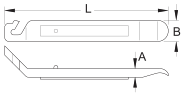
1657

Set de doua leviere de roti

- *Setul de doua leviere te ajuta la schimbarea ușoara a cauciucurilor.*
- *Sunt executate din plastic dur și asigura lucrul fără deformarea genții*
- *Utile pentru orice mecanic profesionist sau amator*







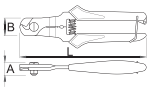
		L	A	B			
621984	2	115	6	15	18	E	**6.09**

584/2POLLY

Cleste de taiat otel

- *material: compozitie speciala pentru calire revenire*
- *tratament termic complet*
- *finisare: cromat in conformitate cu standardul EN12540*
- *manere bimaterial pentru conditii grele*





	L	A	B			
620591	180	17.5	25	224	B	**147.95**



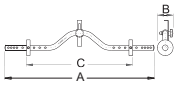
1690/1

Scula pentru verificarea simetriei rotii

- *Material: otel de constructie, otel inox, si polipropilena*
- *Scula este destinata pentru verificarea simetriei dintre cadru si geanta rotii. Prima operatie, se monteaza scula la o distanta convenabila intre cadru si geanta funtie de dimesiunea rotii. Se apropie partea din mijloc de cadru si partea extrema trebuie sa fie in contact cu roata. Se fixeaza cu un surub se se verifica si fata cealalta a rotii. In acest fel ne putem convinge ca geanta rotii este centrata fata de cadru. Daca centrarea nu este corecta se face reglarea acesteia.*
- *Forma precisa a sculei permite verificarea rotilor cu dimensiunea de la 16 la 29 de inchi, cu sau fara cauciucuri montate.*







	C ↓	C ↑	A	B			
618486	320	660	667	70	850	F	**238.09**

1633/2P

Cheie de spite

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *corpul cheii este acoperit cu plastic*
- *Cheia de spițe este utilizata pentru centrarea spițelor cu dimensiuni de 4.0 și 4.4 mm ale rotii. Protecția de plastic a mânerului cheii permite o stringhere ușoara și deșurubare a piulițelor de la spițe.*





	S1	S2	L	A			
620179	4	4,5	100	4	29	E	**21.84**
622789	3,3	3,45	100	4	29	E	**21.68**

1634/2P

Cheie de spite Shimano

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *corpul cheii este acoperit cu plastic*
- *Cheia de spițe Shimano este utilizata pentru centrarea spițelor cu dimensiuni de 4,3 și 4,4 mm la Shimano® Wheel System. Mânerul acoperit cu plastic asigura strângere confortabila și împiedica deșurubarea piulițelor de fixare a spițelor. Lungimea cheii este de 100 mm, asigurând acces la piulițele de pe janta.*





	S1	S2	L	A			
618410	4,3	4,4	100	4	29	E	**21.68**



1635/2P

Cheie de spite Mavic

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *corpul cheii este acoperit cu plastic*
- *Partea mica este folosita pentru nipluri cu diametrul exterior de 6.4 mm, in timp ce partea mare este folosita pentru montarea și demontarea cauciucurilor fără camera Mavic. Acoperirea cu plastic a manerului asigura o strângere și o deșurubare confortabila a niplurilor.*







	S1	S2	L	C1	C2	A			
618411	6	10,9	120	3,7	5,4	4	41	E	**23.21**

1636/2P

Cheie de spite 5 si 5,5 mm

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *corpul cheii este acoperit cu plastic*
- *Aceasta cheie este destinata centrării spițelor de 5 si 5,5 mm.Învelișul de plastic asigura o strângere ușoara și împiedica deșurubarea piulițelor de fixare.*





	S1	S2	L	A			
619718	5	5,5	100	4	29	E	**21.26**

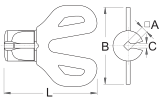


1630/2P

Cheie de spite

- *Manere din doua straturi de plastic*
- *Cheia de spite este destinata pentru intinderea piulitelor plate cu diametrul de 3, 3 mm pana la 3, 45 mm.*
- *Forma ergonomica face munca usoara si eficienta.Cheia de 3, 3 mm are culoare albastra iar cea de 3, 45 mm are culoarea gri*
- *Material: Otel Carbon de scule calit si revenit*





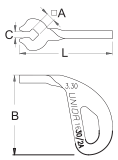
		A	B	C			
615532	3.3	3,3	42	2,2	27	E	**50.66**
615533	3.45	3,45	42	2,2	27	E	**50.66**

1630/2A

Cheie de spite

- *Cheia de spite este destinata pentru intinderea niplurilor plate cu diametrul de 3, 3 mm pana la 3, 45 mm.Forma cheii asigura o perfecta actionare a niplurilor fara patinare si asigurand un lucru eficient*





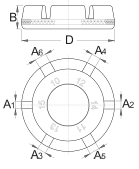
		A	B	C			
616759	3.3	3,3	30	2,2	15	E	**11.29**
616845	3.45	3,45	30	2,2	15	E	**11.29**

1631/2

Cheie tripla pentru spite

- *Material: Otel Carbon*
- *tratament termic complet*
- *Cheia este utilizata pentru cele mai populare piulite de spite de marimea 3, 3 mm, 3, 45 mm, 3, 7 mm, 3, 96 mm, 4, 4 mm si 5mm. Forma acesteia se adapteaza perfect mainii asigurand confort si o stringere usoara.*





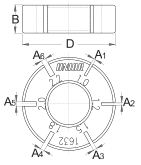
	D	B	A1	A2	A3	A4	A5	A6			
616289	40	10	3,3	3,45	3,7	3,96	4,4	5	50	E	**49.67**

1632

Cheie pentru fixarea spitelor

- *material: poliamida*





	D	B	A1	A2	A3	A4	A5	A6			
617588	40	12	1	1,2	1,5	1,8	2	2,2	22	E	**38.85**

1629

Rigla calibru pentru masurare rulmenti si distante intre elemente

- *Acesta este ușor de folosit și permite măsurarea dimensiunii spițelor și rulmenților precum și a diametrelor.*





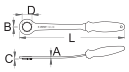
	L	B			
620561	357.5	30.8	129	P	**46.73**

1663/2BI

Cheie pentru piulita discului de frana Saint

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *maner ergonomic rezistent bimaterial*
- *Cheia este destinata instalarii si demontarii discurilor de frana Shimano Saint. Deschiderea cheii este in intregime adecvata pentru piulita discurilor de frana avand corpul cotit, asigurand un lucru rapid si de calitate. Manerul din doua componente confera o prindere ferma asigurand o forta maxima de antrenare a cheii, o desurubare si o strangere a discului rapida.*





	L	D	B	A	C			
618413	342	31,7	3,0	4,0	3,5	285	A	**89.51**



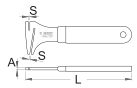
1666/2DP

Scula de ajustare foaie de lant

- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Scula destinata repararii micilor deformari ale foii de lant. Prezinta doua fante de dimensiuni diferite, alegand-o pe cea optima intervention-tiei.*







	S	L	A			
619716	2,2	183	4	177	A	**45.36**

1750/2BI

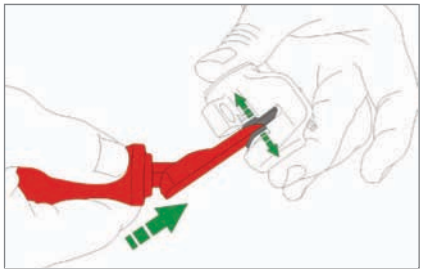
Intinzator pentru discul de frana

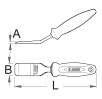
- *material: compozitie speciala pentru calire revenire*
- *maner ergonomic rezistent bimaterial*
- *suprafata: cromata in concordanta cu standardul EN 12540*
- *scula este indoita la 30 grade*
- *utilizata pentru schimbarea discurilor de frana.*

Utilizare:

1. *demontati roata de pe bicicleta*
2. *introduceti scula intre discurile de frana, impingeti pana cele doua pistoane reintra in locasul din cadru*
3. *scoateti scula*
4. *montati discuri noi*
5. *reinstalati roata de bicicleta*







	A	B	L			
621889	3,5	25	160,5	130	E	**66.94**

1612PB

Set chei ax roata

- *Material: Otel Carbon de scule calit si revenit*
- *Cheia pentru butuc este destinata atat amatorilor cat si profesionistilor. Forma acesteia din tabla cu varf si falca de strangere pentru dimensiunile uzuale. Aceasta cheie de butuc este folosita de orice biciclist pentru reparatii rapide si lucrari de intretinere curenta a bicicletei.*
- *acoperire cromare in conformitate cu EN12540*



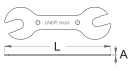
615120	2	13/14 x 15/17. 13/14 x 15/16	152	P	**37.38**

1612/2

Cheie ax roata

- *Material: Otel Carbon de scule calit si revenit*
- *Cheia pentru butuc este destinata atat amatorilor cat si profesionistilor. Forma acesteia din tabla cu varf si falca de strangere pentru dimensiunile uzuale. Aceasta cheie de butuc este folosita de orice biciclist pentru reparatii rapide si lucrari de intretinere curenta a bicicletei.*
- *acoperire cromare in conformitate cu EN12540*





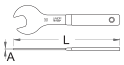
			L	A			
615125	13 x 14	15 x 17	155	2,2	69	A	**18.69**
615126	13 x 14	15 x 16	155	2,2	69	A	**18.69**

1617/2DP

Cheie simpla pentru ax roata

- *Designul si dimensiunile sculelor noastre se adapteaza permanent noilor standarde si noilor modele de biciclete. Cheia fixa simpla are o remarcabila rezistenta, duritate și fixare precisa a ghidonului si la reglarea jocului în rulmenți. Cheia asigura o înșurubare și deșurubare ușoara a piulitelor ghidonului. Mznerul ergonomic asigura o buna functionalitate. Cheia se aseaza perfect in mana facand munca usoara si confortabila.*
- *Material: Otel Carbon de scule calit si revenit*
- *acoperire cromare in conformitate cu EN12540*
- *Manere din doua straturi de plastic*





		L	A			
615518	13	200	2	86	A	**31.19**
615519	14	200	2	82	A	**31.19**
615520	15	200	2	84	A	**31.19**
615521	16	200	2	81	A	**31.19**
615522	17	200	2	80	A	**31.19**
615523	18	200	2	97	A	**31.19**
615524	19	200	2	81	A	**31.19**
615525	20	200	2	96	A	**31.19**
617840	22	220	3	134	A	**31.24**
621918	23	220	3	132	A	**31.24**
617841	24	220	3	130	A	**31.24**
619554	27	240	3	151	A	**31.61**
615367	30	275	4	293	A	**32.50**
615368	32	275	4	286	A	**32.50**
615369	34	275	4	289	A	**32.50**
615370	36	275	4	279	A	**32.50**
615371	40	275	4	275	A	**32.50**
615456	42	275	4	277	A	**32.50**
615457	44	275	4	270	A	**32.50**





1612/2A

Cheie ax roata

- *Confectionata din otel crom vanadiu, aceasta cheie combina extrema rezistenta, duritate si fiabilitate. Forma si designul scurt permit lucrul in locuri dificile.*
- *material: crom vanadiu*
- *forjata, calire si revenire totala*
- *acoperire cromare in conformitate cu EN12540*





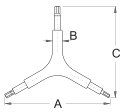
		L	A			
615373	8 x 9	109	4,1	21	A	**12.71**
615374	10 x 11	125	4,9	32	A	**12.97**
615375	12 x 13	139	5,3	46	A	**18.11**
615376	14 x 15	154	5,8	69	A	**19.32**

1606

Cheie locas hexagonal cu trei brate

- *material: crom vanadiu*
- *Cheia locas hexagonal este destinata strangerii si desurubarii suruburilor cu cap cilindric si locas ingropat. Partea din mijloc acoperita cu plastic, oferind o actionare rapida si confortabila, permitand un lucru usor si o fiabilitate inalta a cheii datorita materialului de inalta calitate din care este confectionata.*





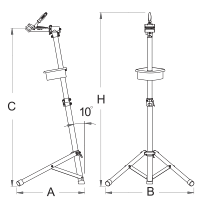
618405	2	2.5	3	128	111	12,5	86	A	**20.95**
618406	4	5	6	128	111	12,5	89	A	**20.95**

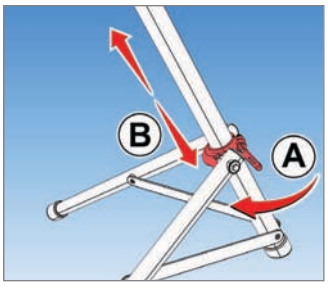
1693A

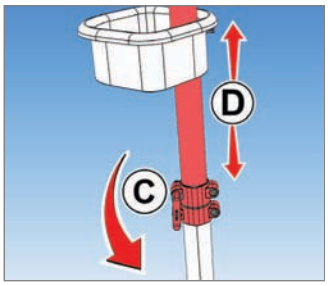
Stand pentru repararea bicicletei cu tuburi suport

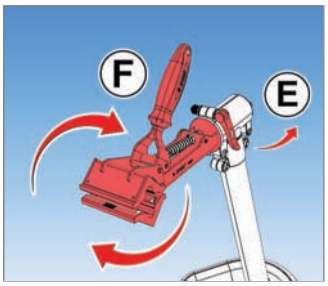
- *Standul pentru repararea bicicletei este scula de baza pentru service-uri si amatorii pasionati*
- *Este usor de asamblat iar tuburile suport se pot plia asfel incat mutarea locului de lucru se face usor*
- *Caoacitatea maxima de incarcare este de 19 kg*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*
- *greutatea standului este de 6.5 kg*
- *Înlocuiți fălcile de cauciuc, art.1693.11*
- *Cod 623222 art 1693AS este stand cu suport din teava si falca cu piulita reglabila*

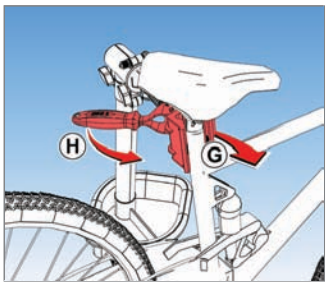


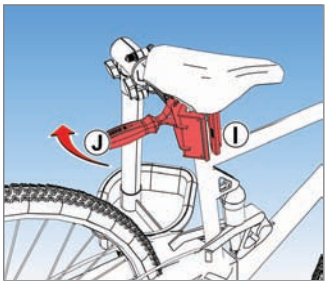


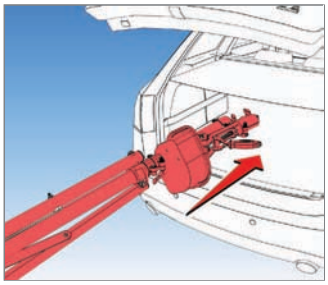












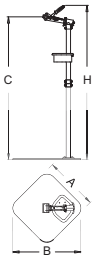
	№	C ↓	C ↑	B	A	H ↑			
621470	1693A	980	1550	870	665	1680	8600	F	**1,099.82**
623222	1693AS	980	1550	870	665	1680	8600	F	**1,097.83**

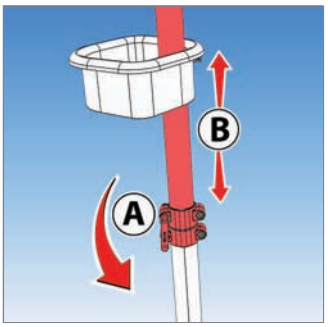
1693B

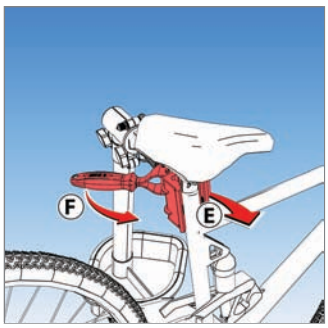
Stand pentru repararea biciletei cu placa fixa

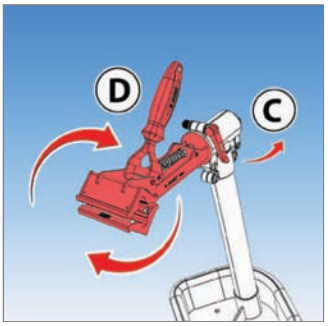
- *Standul pentru repararea bicicletei cu placa fixa este produs pentru service-uri si utilizarea de zi cu zi*
- *Placa fixa este ergonomica. Capacitatea maxima de incarcare este de 30 kg, ceea ce permite servisarea bicicletelor mai grele folosite la downhill.*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*
- *greutatea standului este de 36 kg*
- *Înlocuiți fălcile de cauciuc, art.1693.11*
- *Cod 623223 art 1693BS este stand cu falca cu arc si fara farfurie plata*
- *Cod 623223 art 1693BS este stand cu farfurie plata si falca cu piulita reglabila*
- *Cod 623223 art 1693BS este stand cu falca cu piulita reglabila si fara farfurie plata*
- *Standul de reparatii 1693B1 este destinat pentru montarea acestuia pe podea sau pe un suport*

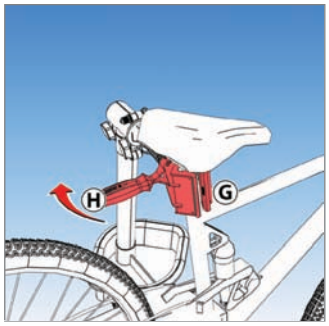












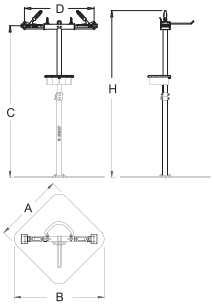
	№	C ↓	C ↑	B	A	H ↑			
621471	1693B	985	1570	726	572	1700	36800	F	**1,768.88**
623226	1693B1	985	1570			1700	6800	F	**981.80**
623223	1693BS	985	1570	726	572	1700	36800	F	**1,766.89**
623227	1693BS1	985	1570			1700	6800	F	**979.81**

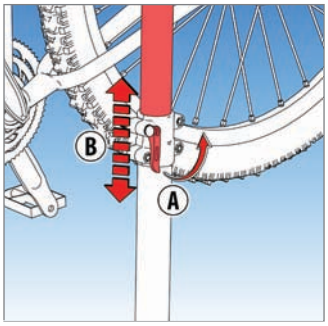
1693C

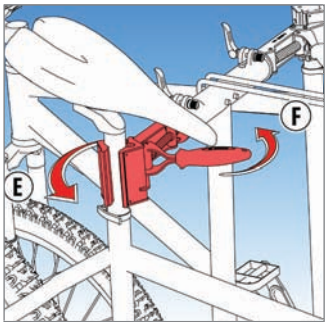
Stand pentru repararea biciletelor cu doua falci cu arc

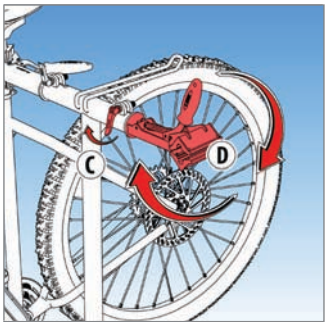
- *Standul pentru repararea bicicletei cu placa fixa este produs pentru service-uri si utilizarea de zi cu zi*
- *Standul permite lucrul a doi mecanici la doua biciclete în același timp*
- *Farfuria de plastic asigura aranjarea și accesul ușor la scule si la piesele demontate.*
- *Partea plata are un design ergonomic.Încărcarea max.45 de kg care permite service pentru bicicletele foarte grele.*
- *Greutatea standului este de 56,5kg.*
- *Accesorii adiționale: suport de hârtie*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*
- *Înlocuiți fălcile de cauciuc, art.1693.11*
- *Cod 623228 art 1693C1 este stand cu 2 falci cu arc si fara farfurie plata*
- *Cod 623228 art 1694CS este stand cu farfurie plata si doua falci cu piulita reglabila*
- *Cod 623228 art 1694CS1 este stand fara farfurie plata si doua falci cu piulita reglabila*
- *Cod 623228 art 1696CS2 este stand cu 2 falci (cu arc si piulita reglabila) si fara farfurie plata*
- *Standul de reparat biciclete 1693C1,1693CS1 si 1693CS2 este destinat pentru montarea pe podea sau pe un suport.*

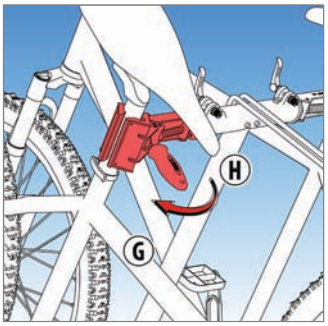












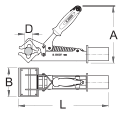
	№	H	D	C ↓	C ↑	A	B			
622581	1693C	1680	704	985	1570	700	905	56500	F	**2,474.06**
623228	1693C1	1680	704	985	1570			11500	F	**1,564. 55**
623224	1693CS	1680	704	985	1570	700	905	56500	F	**2,470.07**
623229	1693CS1	1680	704	985	1570			11500	F	**1,560.56**
623230	1693CS2	1680	704	985	1570			11500	F	**1,561.30**

1693.1

Falca menghina mobila pentru 1693A si 1693B

- *Standul este compatibil cu tuburi de diametru de min. 24 si maxim de 32 mm*





	D⭳	D⭱	B	A	L			
621472	24	32	96,5	192	305	3000	F	320.51

1693.3

Suport SOS pentru 1693

- *Suportul de plastic se remarca prin compartimentarea acestuia si spatii pentru manevrarea sculelor de lucru. Suportul se poate monta pe orice stand de reparație biciclete UNIOR*



623023	230	V	73.66

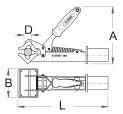


1693.1S

Falca cu piulita reglabila pentru 1693

- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø38 mm*
- *Accesul simplu la surub asigura reglarea falcilor si a presiunii de strangere. Surubul poate fi actionat cu mana fara a folosi o cheie.*





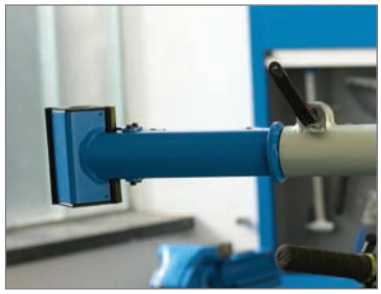
	D⭳	D⭱	B	A	L			
623206	24	38	96,5	192	305	1850	F	318.52

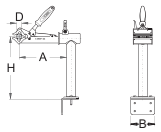
1693.2

Falci pentru menghina de banc si perete

- *Opțiune de montare pe un banc sau pe perete*
- *Destinat profesioniștilor și pasionaților de biciclete*
- *Standul este compatibil cu tuburi de diametru de min. Ø24 mm si max. Ø32 mm*
- *Surubul de reglare accesibil permite modificarea deschiderii falcilor si forta de inchidere.*
- *Surubul poate fi reglat cu mana fara a folosi o cheie.*





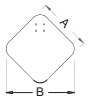


	Nº	D⭳	D⭱	B	A	H			
622589	1693.2	24	32	120	239	313	4280	F	785.30
623225	1693.2S	24	38	120	239	313	4280	F	783.30

1693.4B

Farfurie pentru 1693B



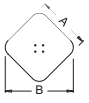


	B	A			
623231	726	572	30000	K	787.08

1693.4C

Farfurie pentru 1693C



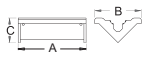


	B	A			
623232	905	700	45000	K	909.51

1693.11

Falci de schimb de cauciuc pentru 1963.1





	A	B	C			
621961	96,5	66	35	64	E	33.23

1693.12

Accesorii pentru 1693.1

- *Inocuirea arcului cu surub permite modificarea deschiderii falcilor si a fortei de strangere. Surubul poate fi actionat cu mana fara a folosi o cheie.*



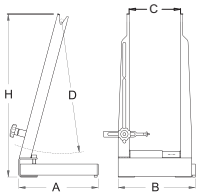
623205	150	E	51.50

1688

Stand de centrare roti pentru pasionati de biciclete

- *material: otel special de scule*
- *Standul este destinat intervențiilor ocazionale.Este foarte ușor de utilizat, greutate ușoara (2,3 kg) și nu necesita un spațiu special. Partea din stânga este fixata pe suport în timp ce partea dreapta este mobila funcție de diferitele lungimi ale axului rotii.*
- *Standul poate fi pliat prin rabaterea piciorului spre cadru.*
- *De asemenea standul poate fi fixat pe bancul de lucru cu suruburi, fapt ce-i confera mai mare stabilitate*
- *Este posibila fixarea rotilor cu dimensiuni de la 16 la 29 inch cu sau fara cauciuc.*
- *Senzorul de centrare estesituat pe o singura parte ceea ce inseamna ca se face centrarea pe o parte dupa care se intoarce roata si se centreaza pe cealalta parte.*
- *Ca o functie suplimentara se poate face o verificare si a pinioanelor dintate.*
- *Suportii butucului pana la lățimea de 157 mm*





	D	C	C	A	B	H			
623060	760	90	172	218	217	463	2300	G	**348.55**

1688.2

Etrier de frana pentru 1688

- *piese de schimb pentru 1688 stand de centrare roata*





	A			
621616	96	74	E	**67.41**



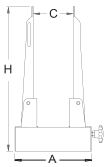
1689

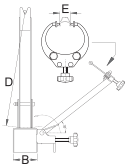
Stand de centrare pentru uz profesional

- *material: otel special de scule*
- *Acest stand este destinat in special pentru profesionist si este conceput pentru atelierele de reparatii. Poate fi montat pe bancul de lucru sau prins in menghina.*
- *Calibrul asigura controlul simultan al rotii pe ambele fete cu posibilitatea suplimentara de a controla simetria radiala in raport cu butucul*
- *Geometria calibrului de reglare asigura un control axial simultan pentru acuratețea reglării rotii*
- *Calibrul are o protectie de plastic pe varfuri pentru a preveni lasarea de urme pe roata.*
- *Bratul din dreapta sus poate fi reglat cu un buton rotativ si fixat axul cu acesta.*
- *Bratul calibrului poate fi reglat pe raza rotii iar varful calibrului se regleaza pentru a palpa geanta*
- *Cand se schimba roata, arcul actioneaza pe bratul drept al calibrului si aceasta este retras dand posibilitatea de introducere a unei alte roti pentru centrare. Se asigura reglarea rapida a mai multor roti de aceiasi dimensiune.*
- *accepta roti de la 16 la 29 inch cu sau fara cauciuc*
- *pentru axe ale rotii de 20 mm este nevoie de un adaptor suplimentar*
- *controlul discului de frana poate fi facuta cu un calibru suplimentar introdus in canalul bratului drept.*
- *1689 stand profesional de centrare, brațul standului se poate descentra după ce a fost utilizat frecvent. Controlul brațul etrier ne permite, calibrarea bratului înapoi, la poziția de centru.*
- *suportii butucului pana la lățimea de 157 mm*
- *găurile adiționale sunt utile pentru depozitarea tuturor celor trei dimensiuni de inserturi 1689.3 (12, 15 si 20 mm)*
- *piulițele suplimentare din partea inferioara a standului asigura strângerea acestuia de bancul de lucru*









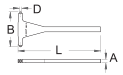
	D	C	C	E	E	A	B			
623059	385	40	206	24	80	282	80	7300	G	**995.61**

1689.1

Brat compas de grosime pentru 1689

- *Art 1689 stand profesional de centrare a roților poate fi ușor scos după utilizare. Bratul de calibrare al acestuia asigura operația de calibrare a bratului spate în poziția sa centrala.*





	D	B	L	A			
621615	8	139,5	330	14	1159	E	**315.16**

1689.2

Compas grosime frane pentru 1689

- *Etrierul de frână este folosit la art 1689 stand profesional de centrare roata.*
- *Aceasta permite verificarea reală a discurilor de frână*





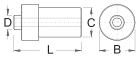
	A			
622603	61	45	G	**71.24**

1689.3

Adaptor pentru ax de roti de 20 mm

- *Adaptor pentru reglarea rotii cu 20 mm ax butuc*





			C	D	B	L			
623004	12	2	11,9	9,8	17	46	46	E	**58.75**
623005	15	2	14,9	9,8	20	46	46	E	**60.48**
621617	20	2	19,9	9,8	24,5	46	46	E	**65.89**

1684

Suport de bicicleta

- *Suportul de bicicleta este un dispozitiv simplu ce permite agatarea bicicletei. Sistemul este fixat de perete. Ansamblul de agatare este fixat de perete. Bicicleta poate fi ridicata sau coborata folosind o franghie.*
- *Montare: instructiunile sunt cuprinse in set*
- *Greutate suportata: 50 lb sau 22,5 kg.*



618371	1675	F	**84.95**

1655FH

Set de scule multifunctionale pentru bicilete

- *Scula multifuncționala este o excelenta soluție pentru fiecare biciclist*
- *Se adaptează perfect în orice buzunar sau husa de biciclist*
- *Scula te ajuta la mici reparații a bicicletei*

Setul Unior cuprinde:

- *chei hexagonale 2, 2.5, 3, 4, 5, 6*
- *chei profil TX marimile 25 si 30*
- *bit surubelnita profil PH (inlocuibil)*
- *scula pentru lant*
- *cheie nipluri dim. 3.5, 3.3, 4.0, 4.2*
- *Suport pentru pin lant Shimano*



621983	135	E	**124.43**

1600A1

Set de scule de bicicleta cu 13 piese in husa

- *Set de baza ca scule de bicicleta pentru reparații curente. Acesta trebuie sa fie în dotarea fiecărui biciclist.*



№				
622878	**1600A1**	13	650	Z	**293.37**

1631/2 (3,3 x 3,45 x 3,7 x 3,96 x 4,4 x 5), **220/3PH,** **1647/2ABI,** **1644/2,** **1657**

1600A2

Set de scule de bicileta cu 19 piese in husa

- *Set de scule de baza pentru reparatii curente de biciclete. Utile pentru intretinerea curenta si mici reparatii.*



№				
622879	**1600A2**	19	2000	Z	**708.17**

1610/2 (15 x 15), **584/2POLLY** (180), **1657,** **1612/2** (13 x 14 x 15 x 17, 13 x 14 x 15 x 16), **220/3LPH,** **1631/2** (3,3 x 3,45 x 3,7 x 3,96 x 4,4 x 5), **1647/2ABI,** **1660/2,** **1670.5/4** (Sram), **1644/2**

1600A3

Set de scule de bicicleta cu 22 piese in husa

- *Set de scule pentru bicicleta pentru mecanici și fani ai bicicletelor*



№				
622880	**1600A3**	22	2700	Z	**883.68**

1610/2 (15 x 15), **1644/2,** **584/2POLLY** (180), **615TBI** (PH 2 x 100), **1612/2** (13 x 14 x 15 x 17, 13 x 14 x 15 x 16), **220/3LPH,** **1609/2BI,** **1631/2** (3,3 x 3,45 x 3,7 x 3,96 x 4,4 x 5), **1647/2ABI,** **1660/2,** **1670.5/4** (Sram), **1657,** **1666/2DP** (2,2)

1600AT

Punga goala pentru 1600A



	A	B			
617229	210	200	160	E	**49.09**

1600BT

Punga goala pentru 1600B



	A	B			
617230	390	270	280	E	85.89

1600CT

Punga goala pentru 1600C



	A	B			
617231	380	460	453	E	98.12



1600EN

Set de scule de bicicleta cu 37 de piese

- *Sculele intermediare de bicicleta satisfac majoritatea nevoilor mecanicilor*

	Nº				
622875	1600EN	37	7200	K	2,260.81

1609/2BI, **1613/2BI** (15), **1666/2DP** (2,2), **1657,** **1617/2DP** (13, 14, 15, 16, 17), **1630/2P** (3.3, 3.45), **1750/2BI,** **1660/2,** **1661/4,** **1670.5/4** (Sram), **1671.1/4,** **1671.2/4,** **1682/4,** **1647/2ABI,** **250/1** (300), **193HX** (2.5, 3, 4, 5, 6, 8, 10), **220/3L** (2), **193TX** (TX 25), **615TBI** (PH 1 x 80), **1683/4A** (1" x 1.1/8" x 1.1/4" x 1.1/2"), **605TBI** (0.5 x 3.0 x 80), **1642.1/2P,** **1681/4** (1" x 1.1/8" x 1.1/4"), **1644/2,** **584/2POLLY** (180), **AP1**

1600E1N

Set de scule de bicicleta in cutie metalica

- *Sculele intermediare de bicicleta satisfac majoritatea nevoilor mecanicilor*



	Nº				
623008	1600E1N	37	11000	K	2,529.77

1600EN, **911VSOS** (95 x 447 x 30), **911/5** (460 x 210 x 220)

1600GN

Set de scule de bicicleta cu 50 de piese

- *Sculele avansate de bicicleta satisfac majoritatea cerințelor mecanicilor*

	Nº				
622876	1600GN	50	12700	F	3,447.26

190.1/1ABI (1/2"), **1609/2BI,** **1612/2A** (8 x 9, 10 x 11), **1666/2DP** (2,2), **1657,** **1613/2BI** (15), **1750/2BI,** **1617/2DP** (13, 14, 15, 16, 17, 32), **1630/2P** (3.3, 3.45), **1647/2ABI,** **1660/2,** **1661/4,** **1670.5/4** (Sram), **1671.2/4,** **1680/4** (1" x 1.1/8" x 1.1/4" x 1.1/2"), **1681/4** (1" x 1.1/8" x 1.1/4"), **1682/4,** **1683/4A** (1" x 1.1/8" x 1.1/4" x 1.1/2"), **253/2DP,** **1642.1/2P,** **1606** (2 x 2.5 x 3), **193HX** (2.5, 3, 4, 5, 6, 8, 10), **220/3L** (2), **193TX** (TX 25), **615TBI** (PH 1 x 80, PH 2 x 100), **605TBI** (0.5 x 3.0 x 80, 0.8 x 4.0 x 100), **449/1PYTHON** (240), **449.1** (240), **1643/4** (0 - 1,2), **1670/2BI,** **45/2BI,** **250/1** (300), **1671.1/4,** **584/2POLLY** (180), **AP1**

1600G1N

Set de scule de bicicleta cu 50 piese in geanta tip roler

- *Sculele avansate de bicicleta satisfac majoritatea cerințelor mecanicilor*



	№				
622877	1600G1N	50	20700	F	5,310.64

1600GN, 969L (510 x 405 x 270), **969.2L, 969.21L**

1600N

Set de scule de bicicleta in carucior de scule



	№				
622977	1600N	54	86200	K	13,347.76

1600SOS7, 1600SOS8, 1600SOS9, 1600SOS10, 1600SOS11, 1600SOS12, 940E4 (720 x 440 x 895)

1600SOS7

Set de scule de bicicleta in modul SOS

- *Setul de scule pentru bicicleta include majoritatea sculelor necesare pentru reparații manuale și întreținere a furcii ghidonului.*



	№				
622862	1600SOS7	8	7300	F	2,089.76

1680/4 (1" x 1.1/8" x 1.1/4" x 1.1/2"), **1683/4A** (1" x 1.1/8" x 1.1/4" x 1.1/2"), **1681/4** (1" x 1.1/8" x 1.1/4"), **1682/4,** **1681.1/4** (1.1/4" x 1.1/2"), **1696** (1" x 24 tpi), **1696.2** (1.1/8" x 24 tpi), **1618/2DP** (36), **vl1600SOS7** (564 x 364 x 30)

vl1600SOS7

Modul SOS pentru 1600SOS7



	B	L	H		
622868	564	364	30	168	F	101.38

1600SOS8

Set de scule de bicicleta in modul SOS

- *Set scule bicicleta pentru suport lanț și reparații de baza la roata*



	№				
622863	1600SOS8	12	3000	F	1,091.11

1601/2DP, **1658/2P,** **466/1BI** (180), **1612/2** (13 x 14 x 15 x 17, 13 x 14 x 15 x 16), **183/2** (8 x 10), **193TX** (TX 25), **1647/2ABI,** **1666/2DP** (2,2), **1642.1/2P,** **584/2POLLY** (180), **1663/2BI,** **vl1600SOS8** (564 x 364 x 30)

vl1600SOS8

Modul SOS pentru 1600SOS8

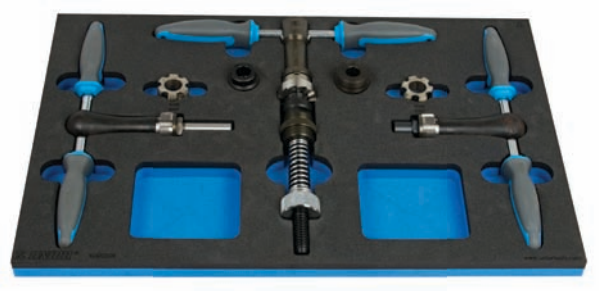


	B	L	H		
622869	564	364	30	128	F	101.38

1600SOS9

Set de scule de bicicleta in modul SOS

- *Set de scule pentru bicicleta pentru diverse lucrări de taiere și filetare a axului pedalier.*



	№				
622864	1600SOS9	3	5000	F	2,137.28

1699 (36 x 24 tpi (ITAL) x 1.3/8 x 24 tpi (BSA)), **1698.1** (36 x 24 tpi (ITAL)), **1697** (1.3/8 x 24 tpi), **vl1600SOS9** (564 x 364 x 30)

vl1600SOS9

Modul SOS pentru 1600SOS9

	B	L	H			
622870	564	364	30	128	F	101.38

1600SOS10

Set de scule de bicicleta in modul SOS

- *Set de scule pentru bicicleta pentru lucrări la cadrul acesteia.*



	№				
622865	1600SOS10	3	6500	F	2,183.79

1614/4BI (1" x 1.1/8" x 1.1/2"), **1694** (1.1/8"), **1605/2**, **vl1600SOS10** (564 x 364 x 30)

vl1600SOS10

Modul SOS pentru 1600SOS10

	B	L	H			
622871	564	364	30	128	F	101.38

1600SOS11

Set de scule de bicicleta in modul SOS

- *Set de scule de bicicleta destinat lucrului la diverse angrenaje și furci standard*



	№				
622866	1600SOS11	12	4800	F	1,512.79

1625/2 (60), **1664**, **1613/2BI** (15), **1608/2BI**, **1609/2BI**, **190.1/1ABI** (1/2"), **1671.6/2BI**, **1671.5/2BI**, **1671.1/4**, **1671.2/4**, **1661.1/4P** (M 22 x 1), **1661.2/4PGR** (16), **vl1600SOS11** (564 x 364 x 30)

vl1600SOS11

Modul SOS pentru 1600SOS11

	B	L	H			
622872	564	364	30	128	F	101.38

1600SOS12

Set de scule de bicicleta in modul SOS

- *Setul de scule de bicicleta este destinat spițelor și casetei de pinioane.*



	№				
622867	1600SOS12	15	2500	F	807.08

1635/2P, **1636/2P** (5 x 5,5), **1634/2P** (4,3 x 4,4), **1670.1/4**, **1670.4/4**, **1606** (2 x 2.5 x 3, 4 x 5 x 6), **1667/2**, **1630/2P** (3.3, 3.45), **1670/2BI**, **1660/2**, **1670.5/4** (Sram), **1669/4**, **1670.7/4**, **vl1600SOS12** (564 x 364 x 30)

vl1600SOS12

Modul SOS pentru 1600SOS12

	B	L	H			
622873	564	364	30	128	F	101.38

Menghine, Menghine rapide, fierastraie, pile, discuri, leviere, cuttere

Usor de manevrat

Gama larga de scule este destinata unei game largi de utilizatori. Menghinele rapide asigura o prindere sigura si rapida.Discurile de taiere si slefuire

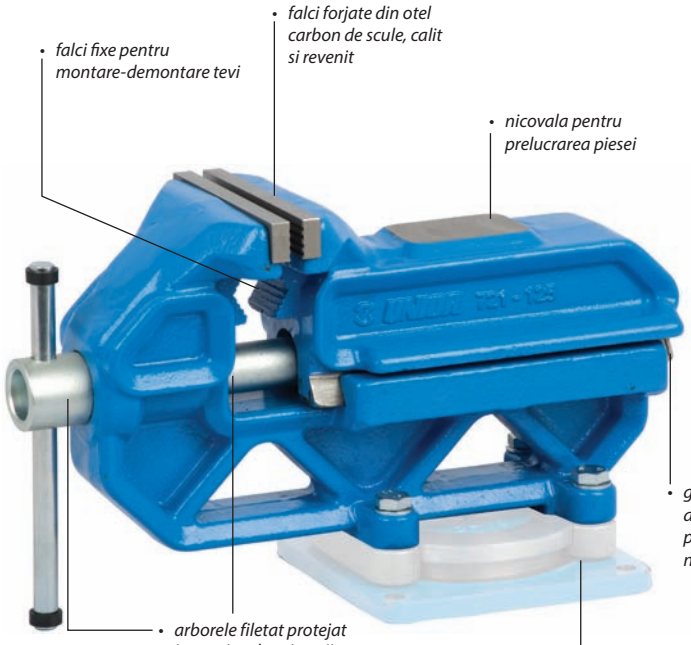
Strangere ferma

Sculele Unior se disting printr-o strangere optima, evitandu-se orice pericol in timpul utilizarii.Ghidajele precise ale menghinelor asigura o miscare rapida a bacurilo si asigura o strangere usoara gratie sistemului rapid de blocare.Montate pe un suport rotitor usureaza prinderea obiectelor de forme diferite.

Materiale de caliatte

Designul studiat pentru a asigura un optim atat din punct de vedere al rezistentei cat si al ergonomiei asigura un lucru in deplina siguranta chiar si atunci cand apare o suprasarcina.Sculele UNIOR sunt adaptate profesionistilor cu o inalta exigenta calitativa, cu o durata de viata indelungata.

Caracteristici ale Menghinei Unior tip IRONGATOR

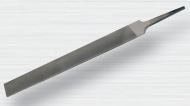




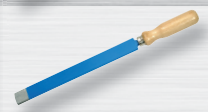

Menghine 372 - 373


Menghine rapide 373 - 375


Fierastraie 375 - 376


Pile 376 - 380


Raspile 380


Razuitoare si extractoare 380 - 381


Discuri abrazive 382 - 383


Discuri 383


Leviere 383


Cuttere,calibre,pistoale nituri pop 383 - 385


Topoare,pensete 385


Pompe de gresat 386


Spray-uri 387



Alte caracteristici și opțiuni:

- *construcție rezistenta din otel turnat,*
- *pot fi montate pe masa de lucru sau carucior de scule,*
- *Modelul optional cu sistem pivotant cu mișcare rapidă,*
- *Carcasă lăcuită,*
- *bacuri protejate anticoroziune*

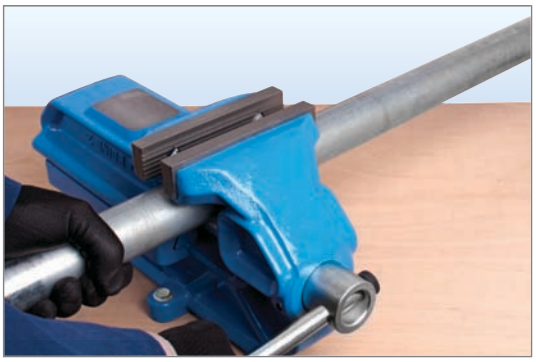
UNIOR®

721/6

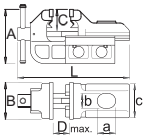
Menghina de banc tip IRONGATOR

- *corpul din otel turnat*
- *bacuri forjate din otel carbon, calite si revenite*
- *carcasa vopsita,bacuri protejate anti-coroziune,celelalte parti zincate*
- *ax protejat impotriva deteriorarii*
- *glisirele uniPRO asigira miscarea exacta a partii mobile*
- *menghina poate fi combinata cu un suport rotitor*









	B	D	L		C	a	b	c	A			
621564	80	100	215	11 - 35	46	42	28	64	113	3500	G	**433,97**
621481	125	160	336	17 - 62	73	66	44	95	176	14400	G	**806,92**
621567	150	190	400	20 - 66	88	80	53	117	211	24200	G	**1.207,93**
621570	200	220	461	24 - 80	103	93	62	140	265	37800	G	**1.688,02**

721Q/6

Menghina de banc tip IRONGATOR cu sistem mobil rapid

- *corpul din otel turnat*
- *bacuri forjate din otel carbon, calite si revenite*
- *carcasa vopsita,bacuri protejate anti-coroziune,celelalte parti zincate*
- *glisirele uniPRO asigira miscarea exacta a partii mobile*
- *menghina poate fi combinata cu un suport rotitor*
- *sistem rapid de miscare*

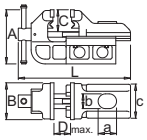












	B	D	L		C	a	b	c	A			
621482	125	120	336	17 - 62	77	66	44	95	176	14500	G	**1.179,73**
621568	150	190	400	20 - 66	88	80	53	117	211	23500	G	**1.459,26**

721.1/6

Corp pivotant principal pentru 721/6 si 721Q/6

- *corpul din otel turnat*
- *materialul altor parți:otel special de scule*
- *baza menghinei poate fi rotita cu 360°*



621566	80	2570	F	122,41
621483	125	2575	F	238,83
621569	150	2580	F	298,06
621572	200	2585	F	399,74

722.1/7

Bacuri de schimb pentru art 722

- *material: otel special de scule*
- *forjate,tratate complet*
- *set de 2 piese*



	B			
623083	80	240	E	81,75
619020	125	378	E	88,13
619021	150	1030	E	147,00
619023	200	1365	E	172,79

722.1AL

Bacuri de schimb din aluminiu pentru 722/6

- *material: aluminiu*
- *set de 2 piese*



	B			
623084	80	110	E	81,75
619026	125	156	E	87,74
619027	150	400	E	147,00
619029	200	541	E	172,79

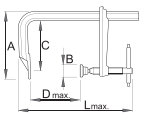
702/5MH

Menghina de tamplarie

- *material: otel special de scule*
- *tratament termic total*
- *acoperire:zincare conform standardului 12329, surubul brunat*
- *destinate pentru industria de prelucrare a lemnului si constructii*
- *maner metalic*







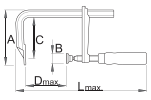
	D	C	L	A	B			
608433	120	100	330	155	25	705	H	87,82
608434	160	100	370	155	25	750	H	95,61
608435	200	100	410	155	25	800	H	115,02
608436	250	100	460	155	25	855	H	139,35
608360	300	120	550	180	35	1765	H	171,34
608437	400	120	650	180	35	1975	H	201,96
608438	500	120	750	180	35	2205	H	216,30
608439	600	120	850	180	35	2395	H	229,42
608440	800	120	1050	180	35	2880	H	276,94
608441	1000	120	1250	180	35	3250	H	310,55

702/5WH

Menghina de tamplarie

- *material: otel special de scule*
- *tratament termic total*
- *acoperire:zincare conform standardului 12329, surubul brunat*
- *destinate pentru industria de prelucrare a lemnului si constructii*
- *maner din lemn lacuit*





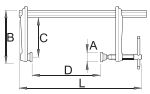
	D	C	L	A	B			
601783	120	100	330	155	25	740	H	88,04
601784	160	100	370	155	25	800	H	102,21
601785	200	100	410	155	25	840	H	123,20
601786	250	100	460	155	25	900	H	149,20
601787	300	120	550	180	35	1795	H	178,42
601788	400	120	650	180	35	1995	H	210,19
601789	500	120	750	180	35	2220	H	225,15
601790	600	120	850	180	35	2410	H	244,64
601791	800	120	1050	180	35	2855	H	288,20
601792	1000	120	1250	180	35	3270	H	323,22

703/5MH

Menghina de tamplarie universala

- *material: otel special de scule*
- *tratament termic total*
- *acoperire:zincare conform standardului 12329, surubul brunat*
- *destinate pentru industria de prelucrare a lemnului si constructii*
- *maner metalic*
- *pentru strangeri interioare sau exterioare*





	D	C	L	A	B			
608230	1000	120	1250	35	180	3515	H	**342,54**

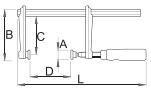


703/5WH

Menghina de tamplarie universala

- *material: otel special de scule*
- *tratament termic total*
- *acoperire:zincare conform standardului 12329, surubul brunat*
- *destinate pentru industria de prelucrare a lemnului si constructii*
- *maner din lemn lacuit*
- *pentru strangeri interioare sau exterioare*





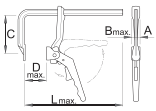
	D	C	L	A	B			
607346	1000	120	1250	35	180	3625	H	**342,54**

704/5

Menghina rapida

- *siguranta si forta in strangere obtinuta cu minim de efort*
- *Axul are filet rulat care asigura o miscare usoara si forta maxima*
- *de strangere*
- *falca fixa si cea glisanta sunt forjate din otel special de scule, tratate si acoperite galvanic*
- *deschiderea accidentala a strangerii este realizata cu o siguranta*





	D	C	L	A	B			
609961	160	120	360	25	25	1135	H	**167,99**
609962	200	120	400	25	25	1185	H	**173,98**
609963	250	120	450	25	25	1250	H	**184,67**
609964	300	140	570	35	25	2515	H	**247,28**
609965	400	140	670	35	35	2775	H	**274,08**
609966	500	140	770	35	35	3045	H	**298,54**
609967	600	140	870	35	35	3320	H	**325,86**
609972	800	140	1070	35	35	3850	H	**350,33**
609973	1000	140	1270	35	35	4305	H	**374,75**

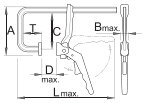


704/5A

Menghina U cu blocare rapida

- *siguranta si forta in strangere obtinuta cu minim de effort*
- *Axul are filet rulat care asigura o miscare usoara si forta maxima*
- *de strangere*
- *falca glisanta este forjata din otel special de scule , tratata si acoperita galvanic*
- *deschiderea accidentala a strangerii este realizata cu o siguranta*





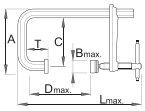
	D	T	C	L	A	B			
617528	250	60	120	530	170	40	1470	H	**214,54**
617529	300	100	140	655	190	40	3070	H	**235,31**
617530	400	150	140	805	190	40	3550	H	**257,80**

705/5AMH

Menghina pentru conditii grele

- *falca glisanta este forjata din otel special, tratata si acoperita galvanic*
- *partea mobila este interschimbabila asigurand strangeri ale pieselor*
- *profilate.Filetul executat prin rulare asigura o miscare usoara si o forta maxima de strangere*
- *Partea mobila, surubul si manerul sunt protejate impotriva coroziunii*





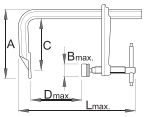
	D	T	C	L	A	B			
617531	250	60	140	450	170	40	2520	H	**194,61**
617539	300	100	140	560	190	40	2870	H	**243,85**
617540	400	150	140	710	190	40	3350	H	**267,34**

705/5MH

Menghina pentru conditii grele

- *falca glisanta este forjata din otel special, tratata si acoperita galvanic*
- *partea mobila este interschimbabila asigurand strangeri ale pieselor*
- *profilate.Filetul executat prin rulareasigura o miscare usoara si o forta maxima de strangere*
- *Partea mobila, surubul si manerul sunt protejate impotriva coroziunii*



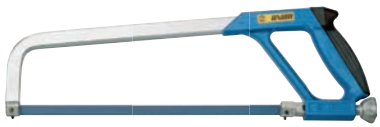


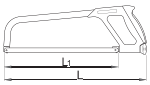
	D	C	L	A	B			
609974	160	140	370	155	30	1940	H	**152,86**
609968	200	140	410	155	30	2040	H	**182,91**
609982	250	140	460	155	30	2185	H	**190,08**
609969	300	140	550	180	40	2295	H	**231,70**
609970	400	140	650	180	40	2545	H	**235,93**
609971	500	140	750	180	40	2810	H	**268,14**
609975	600	140	850	180	40	3030	H	**286,57**
609983	800	140	1050	180	40	3550	H	**314,03**
609984	1000	140	1250	180	40	4100	H	**346,72**

750

Rama bomfaier

- *constructie usoara cu design al manerului ergonomic*
- *trei pozitii ale lamei*
- *max 5 lame de schimb depozitate in rama*
- *rama cromata, maner vopsit albastru*
- *art. 750/1 cu o lama*





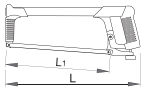
	L	L1	L1			
601890	407	310	12"	780	Z	**141,46**

750B

Fierastrau

- *constructie usoara cu design al manerului ergonomic*
- *rama cromata, maner vopsit albastru*
- *2 pozitii ale lamei*

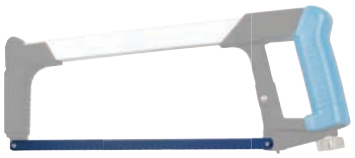




	L	L1			
621531	400	300	731	Z	**90,86**

750.1B

Lama de rezeva pentru 750B, 2 buc/set



621532	2	40	F	**20,15**



750.1CAR

Panza pentru fierastrau 750B, 2 buc/set



623099	40	F	45,01

753.1

Lame de schimb pentru 753P,753W si 753 VDE, 2 buc/set



617281	3	F	10,52

760B

Pile dreptunghiulare, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*

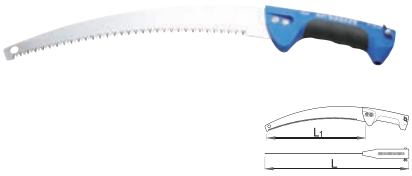


		a x b			
619289	100	3.5 x 12	40	P	14,92
619290	150	4 x 16	83	P	15,84
612911	200	5 x 20	195	P	21,43
612912	250	7 x 26	275	P	26,00
612913	300	8 x 30	510	P	34,94

752

Fierastrau coada de vulpe

- *material:lama otel special de scule*
- *maner din polistiren*

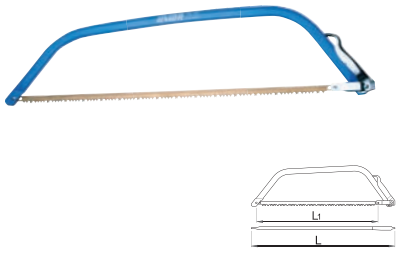


	L1	L			
609424	330	497	270	Z	63,32

755

Fierastrau cu coarda, joagar

- *material:lama otel C75*
- *maner din otel*



	L1	L1	L			
612236	610	24"	700	580	Z	31,81
609407	762	30"	850	750	Z	35,51
609408	914	36"	1000	810	Z	41,62

760 1/2S

Pile dreptunghiulare, semifine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*

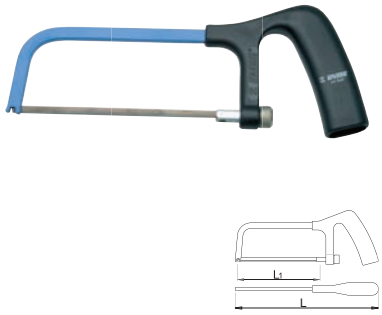


		a x b			
619293	100	3.5 x 12	40	P	15,40
619294	150	4 x 16	82	P	16,32
612914	200	5 x 20	175	P	23,58
612915	250	7 x 26	315	P	28,60
612916	300	8 x 30	417	P	36,04

753P

Fierastrau

- *maner de plastic*
- *lama interschimbabila*



	L1	L			
612164	150	260	192	Z	41,89

755.1

Lama de schimb pentru 755

	L1	L1			
612237	610	24"	50	F	9,50
609409	762	30"	78	F	10,52
609410	914	36"	95	F	12,01

760S

Pile dreptunghiulare, fine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*

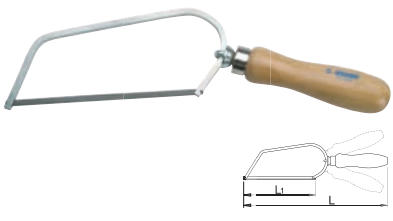


		a x b			
619297	100	3.5 x 12	58	P	15,84
619298	150	4 x 16	86	P	16,85
612917	200	5 x 20	195	P	23,58
612918	250	7 x 26	285	P	28,60
612919	300	8 x 30	432	P	36,04

753W

Fierastrau

- *maner de lemn*
- *maner reglabil*
- *lama interschimbabila*



	L1	L			
612163	150	305	127	Z	28,82

757

Bomfaier

- *material:lama otel special de scule*
- *maner din polistiren*



	L1	L			
609423	400	493	408	C	50,07

760HB

Pile dreptunghiulare cu maner, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		L	a x b			
619291	100	190	3.5 x 12	68	P	22,57
619292	150	240	4 x 16	120	P	23,50
612992	200	325	5 x 20	270	P	27,15
612993	250	375	7 x 26	385	P	33,04
612994	300	425	8 x 30	587	P	44,18

760H1/2S

Pile dreptunghiulare cu maner, semifine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		L	a x b			
619295	100	190	3.5 x 12	68	P	**22,53**
619296	150	240	4 x 16	120	P	**24,02**
612995	200	325	5 x 20	270	P	**29,88**
612996	250	375	7 x 26	385	P	**36,17**
612997	300	425	8 x 30	577	P	**45,63**

760HS

Pile dreptunghiulare cu maner, fine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*

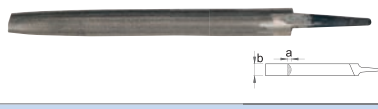


		L	a x b			
619299	100	190	3.5 x 12	68	P	**23,50**
619300	150	240	4 x 16	120	P	**24,46**
612998	200	325	5 x 20	270	P	**29,88**
612999	250	375	7 x 26	385	P	**36,17**
613001	300	425	8 x 30	577	P	**45,63**

761B

Pile semirotunde, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		a x b			
619301	100	4 x 11	40	P	**16,32**
619302	150	5 x 16	80	P	**21,12**
612920	200	7 x 21	154	P	**25,65**
612921	250	8 x 24	267	P	**29,96**
612922	300	10 x 30	387	P	**40,61**

761 1/2S

Pile semirotunde, semifine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		a x b			
619305	100	4 x 11	40	P	**16,85**
619306	150	5 x 16	81	P	**21,60**
612923	200	7 x 21	155	P	**28,64**
612924	250	8 x 24	315	P	**33,57**
612925	300	10 x 30	408	P	**48,05**

761S

Pile semirotunde, fine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		a x b			
619309	100	4 x 11	42	P	**17,29**
619310	150	5 x 16	78	P	**22,13**
612926	200	7 x 21	135	P	**28,64**
612927	250	8 x 24	251	P	**33,57**
612928	300	10 x 30	409	P	**48,05**

761HB

Pile semirotunde cu maner, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		L	a x b			
619303	100	190	4 x 11	67	P	**24,02**
619304	150	240	5 x 16	112	P	**28,29**
613002	200	325	7 x 21	250	P	**32,47**
613003	250	375	8 x 24	355	P	**37,97**
613004	300	425	10 x 30	557	P	**51,35**

761H1/2S

Pile semirotunde cu maner, semifine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		L	a x b			
619307	100	190	4 x 11	67	P	**22,57**
619308	150	240	5 x 16	112	P	**27,02**
613005	200	325	7 x 21	250	P	**36,30**
613006	250	375	8 x 24	355	P	**42,50**
613007	300	425	10 x 30	557	P	**60,76**

761HS

Pile semirotunde cu maner, fine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		L	a x b			
619311	100	190	4 x 11	67	P	**24,82**
619312	150	240	5 x 16	112	P	**29,79**
613008	200	325	7 x 21	250	P	**36,30**
613009	250	375	8 x 24	355	P	**42,50**
613010	300	425	10 x 30	557	P	**60,76**

762/5B

Set de pile bastard



	№				
619467	**762/5B**	5	500	P	**129,89**
	760HB (150), **761HB** (150), **763HB** (150), **764HB** (150), **765HB** (150)				
612929	**762/5B**	5	1020	P	**131,82**
	760HB (200), **761HB** (200), **763HB** (200), **764HB** (200), **765HB** (200)				
612930	**762/5B**	5	1430	P	**165,40**
	760HB (250), **761HB** (250), **763HB** (250), **764HB** (250), **765HB** (250)				

762/5 1/2S

Set de pile semifine



	№				
619468	**762/5 1/2S**	5	500	P	**129,98**
	760H1/2S (150), **761H1/2S** (150), **763H1/2S** (150), **764H1/2S** (150), **765H1/2S** (150)				
612931	**762/5 1/2S**	5	1020	P	**145,99**
	760H1/2S (200), **761H1/2S** (200), **763H1/2S** (200), **764H1/2S** (200), **765H1/2S** (200)				
612932	**762/5 1/2S**	5	1560	P	**179,48**
	760H1/2S (250), **761H1/2S** (250), **763H1/2S** (250), **764H1/2S** (250), **765H1/2S** (250)				

762/5S

Set de pile fine



	№				
619469	762/5S	5	500	P	133,06
	760HS (150), **761HS** (150), **763HS** (150), **764HS** (150), **765HS** (150)				
612933	762/5S	5	1020	P	145,99
	760HS (200), **761HS** (200), **763HS** (200), **764HS** (200), **765HS** (200)				
612934	762/5S	5	1560	P	179,48
	760HS (250), **761HS** (250), **763HS** (250), **764HS** (250), **765HS** (250)				

763B

Pile rotunde, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





	L	D			
619313	100	4	15	P	13,20
619314	150	6	42	P	13,68
612935	200	8	85	P	19,54
612936	250	10	165	P	24,99
612937	300	12	260	P	33,97

763 1/2S

Pile rotunde, semifine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



	L	D			
619317	100	4	15	P	13,68
619318	150	6	42	P	14,21
612938	200	8	86	P	22,18
612939	250	10	155	P	27,54
612940	300	12	265	P	37,36

763S

Pile rotunde, fine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



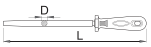
	L	D			
619321	100	4	15	P	14,21
619322	150	6	40	P	14,70
612941	200	8	86	P	22,18
612942	250	10	171	P	27,54
612943	300	12	277	P	37,36

763HB

Pile rotunde cu maner, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





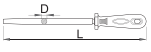
		L	D			
619315	100	190	4	52	P	21,30
619316	150	240	6	76	P	21,78
613011	200	325	8	167	P	24,73
613012	250	375	10	225	P	31,68
613013	300	425	12	327	P	43,08

763H1/2S

Pile rotunde cu maner, semifine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





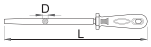
		L	D			
619319	100	190	4	52	P	21,78
619320	150	240	6	76	P	22,31
613014	200	325	8	167	P	27,98
613015	250	375	10	225	P	34,89
613016	300	425	12	327	P	47,34

763HS

Pile rotunde cu maner, fine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





		L	D			
619323	100	190	4	52	P	22,31
619324	150	240	6	76	P	22,79
613017	200	325	8	167	P	27,98
613018	250	375	10	225	P	34,89
613019	300	425	12	327	P	47,34

764B

Pile triunghiulare, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





		B			
619325	100	8	30	P	15,22
619326	150	11	92	P	15,75
612944	200	14	170	P	18,57
612945	250	17	265	P	24,02
612946	300	20	348	P	34,76

764 1/2S

Pile triunghiulare, semifine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





		B			
619329	100	8	25	P	15,75
619330	150	11	94	P	16,72
612947	200	14	136	P	20,42
612948	250	17	260	P	26,40
612949	300	20	357	P	38,28

764S

Pile triunghiulare, fine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





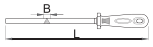
		B			
619333	100	8	22	P	16,24
619334	150	11	92	P	17,25
612950	200	14	155	P	20,42
612951	250	17	260	P	26,40
612952	300	20	347	P	38,28

764HB

Pile triunghiulare cu maner, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*





		L	B			
619327	100	190	8	60	P	23,32
619328	150	240	11	100	P	23,85
613020	200	325	14	210	P	23,54
613021	250	375	17	285	P	30,45
613022	300	425	20	467	P	44,00

764H1/2S

Pile triunghiulare cu maner, semifine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		L	B			
619331	100	190	8	60	P	23,85
619332	150	240	11	100	P	24,82
613023	200	325	14	210	P	25,87
613024	250	375	17	285	P	33,44
613025	300	425	20	467	P	48,44

765S

Pile patrate, fine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		A			
619345	100	4	18	P	13,68
619346	150	6	50	P	14,70
612959	200	8	93	P	20,55
612960	250	10	181	P	25,65
612961	300	12	332	P	34,67

766A1

Mâner pentru pile 763,764,765 dim. 100



		L			
621927	100	90	30	E	8,18

764HS

Pile triunghiulare cu maner, fine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*

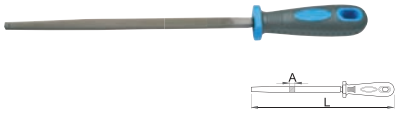


		L	B			
619335	100	190	8	60	P	24,33
619336	150	240	11	125	P	24,99
613026	200	325	14	210	P	25,87
613027	250	375	17	285	P	33,44
613028	300	425	20	467	P	48,44

765HB

Pile patrate cu maner, bastard

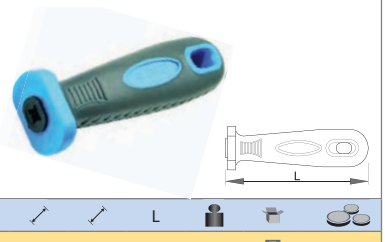
- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		L	A			
619339	100	190	4	70	P	20,77
619340	150	240	6	85	P	23,01
613029	200	325	8	187	P	23,89
613030	250	375	10	285	P	32,25
613031	300	425	12	437	P	41,84

766A2

Mâner pentru pile 760,761 dim.100, 763,764,765,769 dim.150



			L			
621928	100	150	90	30	E	8,18

765B

Pile patrate, bastard

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		A			
619337	100	4	20	P	12,67
619338	150	6	50	P	13,68
612953	200	8	95	P	18,88
612954	250	10	193	P	25,52
612955	300	12	282	P	33,09

765H1/2S

Pile patrate cu maner, semifine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		L	A			
619343	100	190	4	70	P	21,30
619344	150	240	6	85	P	22,31
613032	200	325	8	187	P	25,96
613033	250	375	10	285	P	32,47
613034	300	425	12	437	P	43,87

766A3

Mâner pentru pile 760,761,767,768 dim. 150



		L			
621929	150	90	29	E	8,18

765 1/2S

Pile patrate, semifine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*



		A			
619341	100	4	20	P	13,20
619342	150	6	48	P	14,21
612956	200	8	91	P	20,55
612957	250	10	194	P	25,65
612958	300	12	304	P	34,67

765HS

Pile patrate cu maner, fine

- *material: otel inalt aliat*
- *toate pilele au dubla taiere*

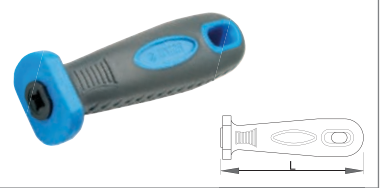


		L	A			
619347	100	190	4	70	P	21,30
619348	150	240	6	85	P	22,31
613035	200	325	8	187	P	25,96
613036	250	375	10	285	P	32,47
613037	300	425	12	437	P	43,87

766B

Maner pentru pile: 763, 764, 765

- *maner ergonomic rezistent bimaterial*

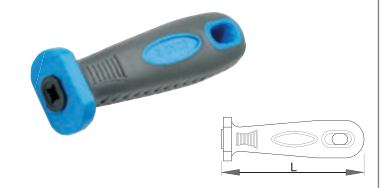


		L			
612962	200	115	78	E	8,18

766C

Maner pentru pile: 760, 761

- *maner ergonomic rezistent bimaterial*



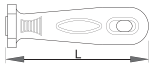
		L			
612963	200	115	77	E	8,18

766D

Maner pentru pile:763, 764, 765

- *maner ergonomic rezistent bimaterial*





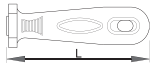
612964	250	300	115	74	E	8,18

766E

Maner pentru pile:760, 761

- *maner ergonomic rezistent bimaterial*





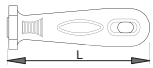
612965	250	115	74	E	8,18

766F

Maner pentru pile:760, 761

- *maner ergonomic rezistent bimaterial*





612966	300	115	68	E	8,18

767 1/2S

Raspila dreptunghiulara, semifina

- *material: otel inalt aliat*





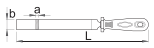
619772	150	5 x 16	88	P	18,74
612967	200	5 x 20	168	P	23,45
612968	250	7 x 26	270	P	31,68
612969	300	8 x 30	407	P	40,17

767H1/2S

Raspila dreptunghiulara cu maner, semifina

- *material: otel inalt aliat*





		L	a x b			
619773	150	240	5 x 16	120	P	25,78
613038	200	325	5 x 20	270	P	29,79
613039	250	375	7 x 26	405	P	40,08
613040	300	425	8 x 30	577	P	50,95

768 1/2S

Raspila semirotunda, semifina

- *material: otel inalt aliat*





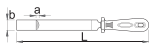
		a x b			
619774	150	5 x 16	82	P	24,86
612970	200	7 x 21	137	P	29,83
612971	250	8 x 24	285	P	33,13
612972	300	9 x 28	317	P	41,01

768H1/2S

Raspila semirotunda cu maner, semifina

- *material: otel inalt aliat*





		L	a x b			
619775	150	240	5 x 16	110	P	31,90
613041	200	325	7 x 21	240	P	37,71
613042	250	375	8 x 24	355	P	41,98
613043	300	425	9 x 28	522	P	51,83

769 1/2S

Raspila rotunda, semifina

- *material: otel inalt aliat*



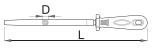
		D			
619776	150	6	47	P	24,86
612973	200	8	95	P	29,66
612974	250	10	176	P	32,25
612975	300	12	308	P	34,76

769H1/2S

Raspila rotunda cu maner, semifina

- *material: otel inalt aliat*





		L	D			
619777	150	240	6	73	P	31,90
613044	200	325	8	167	P	37,58
613045	250	375	10	225	P	40,88
613046	300	425	12	327	P	44,00

777/6A

Razuitor plat

- *material: otel aliat*
- *lama grunduita, corp vopsit albastru*
- *maner de lemn*





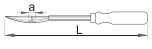
		a x b	L			
612227	150	5 x 20	255	172	P	50,78
612228	200	5 x 20	325	233	P	59,58
612229	250	6 x 20	370	283	P	66,48

777/6C

Razuitor cu trei muchii

- *material: otel aliat*
- *lama grunduita, corp vopsit albastru*
- *maner de lemn*





		A	L			
612233	150	8	255	113	P	53,68
612234	200	8	325	213	P	60,72
612235	250	8	370	370	P	65,25

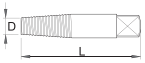
Producator European din 1919

778/4

Extractor de suruburi

- *pentru desurubarea suruburilor ruginite si bolturilor*
- *filetate fara a afecta filetele*
- *material:crome vanadium*
- *tratate complet*
- *brunat*





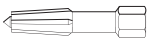
	№	D	■	L	⬣	mm			
616812	1	1.75	3.6	50	M3 - M6	2.5	9	E	**10,60**
616813	2	2.2	5.0	57	M6 - M8	3.0	13	E	**10,60**
616814	3	3.3	6.5	64	M8 - M11	4.5	19	E	**12,01**
616815	4	4.75	8.8	71	M11 - M14	6.0	33	E	**14,56**
616816	5	6.35	11.0	78	M14 - M18	8.0	53	E	**18,17**
616817	6	9.50	15.0	85	M18 - M24	11	102	E	**25,74**
616818	7	12.70	19.0	92	M24 - M33	13.5	171	E	**45,54**
616819	8	17.50	24.0	100	M33 - M45	18.5	298	E	**75,28**

778/4A

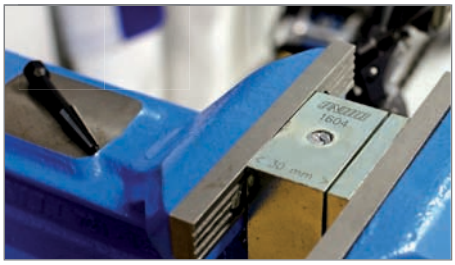
Extractor dublu ascutit de suruburi

- *pentru desurubarea suruburilor ruginite si bolturilor*
- *filetate fara a afecta filetele*
- *Aplicabil pentru filete dreapta si stanga*
- *Extractorul este antrenat in alezaj pentru o ferma si*
- *sigura gaurire*
- *Cu varf de centrare*
- *Fara alunecare si dubla ascutire pentru extragerea*
- *surubului sau boltului.*
- *material:crome vanadium*
- *tratate complet*
- *brunat*
- *Partile taietoare polizate*



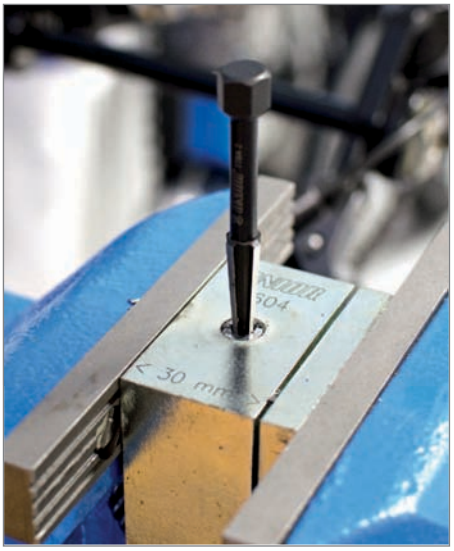


	№	⬢	⬣	mm			
616823	1	6.35 (1/4")	M5 - M6	3.2 - 4.8	12	E	**36,34**
616824	2	9.5 (3.8)	M8 - M10	4.8 - 7.1	21	E	**36,34**
616825	3	12.7 (1/2")	M10 - M12	6.4 - 9.5	35	E	**43,56**
616826	4	15.9 (5/8")	M12 - M16	8.7 - 12.7	65	E	**46,68**
616827	5	19.0 (3/6")	M16 - M20	11.1 - 15.9	107	E	**63,98**
616828	6	22.0 (7/8")	M20 - M24	14.0 - 19.1	167	E	**69,12**
616829	7	25.4 (1")	M24 - M33	19.1- 23.8	276	E	**82,54**









778/4PB

Set extractor de suruburi



	№				
616820	**778/4PB**	1 - 5 / 5	120	E	**75,94**
	778/4 (1, 2, 3, 4, 5)				
616821	**778/4PB**	1 - 6 / 6	225	E	**103,58**
	778/4 (1, 2, 3, 4, 5, 6)				
616822	**778/4PB**	1 - 8 / 8	720	E	**249,61**
	778/4 (1, 2, 3, 4, 5, 6, 7, 8)				

778/4APB

Set extractor dublu ascutit de suruburi



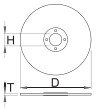
	№				
616830	**778/4APB**	1 - 5 / 5	245	E	**238,92**
	778/4A (1, 2, 3, 4, 5)				

1200/1

Discuri de taiere pentru otel

- *Partea plata intarita pentru pentru taierea unghiulara, viteza discului 80 m/s, prevazute cu o insertie metalica*
- *Disc de taiere OSA in conformitate cu standardul European EN 12413 (nu este permisa polizarea pe partea laterala)*
- *material: A30S1BF*



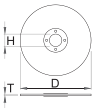


	D	T	H			
610484	115	3	22	72	F	6,25
610485	125	3	22	87	F	7,00
610486	180	3	22	160	F	9,28
610487	230	3	22	282	F	13,02

1200/1INOX

Sicuri pentru inox



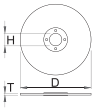


	D	T	H			
619421	115	3	22	65	F	8,05
619393	125	3	22	75	F	8,58
619422	180	3	22	165	F	12,36

1200/1ALU

Discuri pentru aluminiu





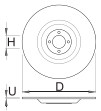
	D	T	H			
619423	115	3	22	79	F	8,58
619424	125	3	22	80	F	9,11
619425	180	3	22	171	F	13,11

1200/2

Disc de taiere cu gaura micsorata, pentru otel

- *Centrul discului de taiere ranforsat pe o parte pentru taierea unghiulara cu polizorul, viteza de rotatie 80m/s cu o insertie metalica*
- *Discul de taiere in conformitate cu cerintele OSA ale Standardului European EN 12413 (folosirea partii laterale interzisa)*
- *material: A30S1BF*





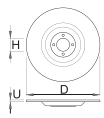
	D	U	H			
610488	115	3	22	68	F	6,25
610489	125	3	22	88	F	7,00
610490	180	3	22	155	F	9,28
610491	230	3	22	257	F	13,02

1202/2

Disc de taiere cu gaura micsorata, pentru otel

- *Centrul discului de taiere ranforsat pe o parte pentru taierea unghiulara cu polizorul, viteza de rotatie 80m/s cu doua insertii metalica*
- *Folosit la operatii in locuri greu accesibile*
- *Unghiul optim de lucru intre material si centrul discului este 20° la 35°.*
- *Discul de taiere in conformitate cu cerintele OSA ale Standardului European EN 12413*
- *material: A30S1BF*



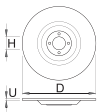


	D	U	H			
610492	115	4	22	90	F	7,52
610493	115	6	22	147	F	8,98
610494	125	6	22	162	F	10,12
610495	125	8	22	235	F	11,70
610496	180	6	22	334	F	15,14
610497	180	8	22	476	F	17,34
610499	230	6	22	554	F	23,06
610500	230	8	22	743	F	26,66

1202/2INOX

Discuri de taiere pentru otel inoxidabil



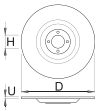


	D	U	H			
619395	125	4	22	110	F	12,45
619396	125	6	22	165	F	14,52
619394	180	6	22	365	F	18,61

1202/2GC

Discuri pentru piese turnate





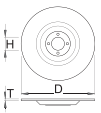
	D	U	H			
619426	180	6	22	320	F	19,18

1207/2

Disc de taiere cu gaura micsorata, pentru piatra

- *Centrul discului de taiere ranforsat pe o parte pentru taierea unghiulara cu polizorul, viteza de rotatie 80m/s cu doua insertii metalica*
- *Folosit la operatii in locuri greu accesibile*
- *Unghiul optim de lucru intre material si centrul discului este 20° la 35°.*
- *Discurile de taiere sunt in conformitate cu Standardul EN 12413*
- *Material:C30P4BF*





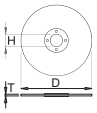
	D	U	H			
610513	180	6	22	324	F	14,70

1210

Discuri de taiere otel

- *Partea ranforsata a discului cu rasina pentru taieri*
- *manuale pe masini fixe cu viteza de lucru de 80m/s,*
- *cu o insertie metalica*
- *Discurile de taiere sunt in conformitate cu Standar-dul EN 12413 si producerea acestora este aprobata de Certificarea de Securitate DSA 1819 (lucrul pe partea laterala nu este permisa)*
- *Discurile de taiere sunt confectionate conform speci-ficatiilor pentru otel universal si materiale neferoase*
- *Material: A46SBF*





	D	T	H			
610518	115	1	22	24	F	8,27
610519	115	1.6	22	39	F	8,05
610520	125	1	22	31	F	8,76
610521	125	1.6	22	50	F	8,27
610522	180	1.6	22	91	F	13,60
610523	230	1.6	22	150	F	17,60

1216

Disc plat

- *Disc plat este folosit pentru viteze perife-*
- *rice de 80 m/s*
- *Productia este aprobata de Normativele*
- *de Securitate*
- *Aplicatii:polizari brute si fine, polizari borduri si indepartarea marginilor zimtate, inlaturarea vopselelor, curatirea pieselor turnate, polizarea suprafetelor.*
- *Utilizari:aluminiu, materiale usoare, otel, plastic, lemn, oteluri aliate, aliaje nemetalice*





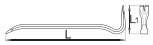
	D	Z			
610539	115	40	75	F	21,47
610540	115	60	70	F	21,47
610541	115	80	65	F	21,47
610543	115	120	60	F	21,47
610544	125	40	90	F	25,04
610545	125	60	80	F	25,04
610546	125	80	70	F	25,04

300/6B

Levier pentru dulgher

- *material: otel carbon de scule*
- *vopsite*





	L	L1				
608815	500	120	18	1180	C	56,32
608816	600	120	18	1385	C	60,02
608817	800	120	18	2190	C	71,68
608821	1000	120	20	2715	C	98,30

300/6E

Ranga de scos cuie

- *material:compozitie speciala pentru calire revenire*
- *vopsite*
- *forjata, calire si revenire totala*





		L			
617782	4	700	3995	C	191,80
617783	5	800	4995	C	213,09
617784	6	900	5995	C	252,69
617785	8	1100	7995	C	396,04
617786	10	1200	9995	C	429,97
617787	12	1300	11995	C	467,72

300/5

Leviere

- *material:crome vanadium*
- *forjat*
- *tratat*
- *acoperire:zincare*
- *forjata, calire si revenire totala*





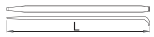
	L			
617661	200	111	C	31,50
601755	300	253	C	43,82
601756	400	452	C	53,06
601757	500	648	C	62,70

300/5A

Leviere

- *material:crome vanadium*
- *acoperire:zincare*
- *forjata, calire si revenire totala*





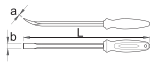
	L			
601758	537	992	C	101,77

300/5C

Leviere

- *material: otel special de scule*
- *acoperire cromare conform EN12540*
- *maner ergonomic rezistent bimaterial*





	L	a x b			
613103	320	1.1 x 13	252	C	30,89
613104	410	1.5 x 15	499	C	37,05
613105	610	1.5 x 21	837	C	54,30

300CCB

Set leviere pentru cauciucuri cu maner



	№				
613106	300CCB	3	878	F	122,28

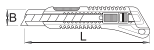
300/5C (320, 410, 610)

556A

Cutter

- *maner bimaterial*
- *3 lame interschimbabile automat in interior*
- *lama cu 13 lame de schimb*
- *lama din otel carbon aliat*





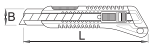
	L	B			
616853	160	18	99	A	13,07

556B

Cutter

- *maner bimaterial*
- *8 lame interschimbabile automat interioare*
- *lama cu 13 lame de schimb*
- *lama din otel carbon aliat*





	L	B			
612136	160	18	167	A	28,86

701

Lere de grosime

- *certificat de conformitate*
- *otel inoxidabil*



601896	0.05 - 0.5	8	37	E	20,86
601897	0.05 - 1	13	66	E	30,45
601898	0.05 - 1	20	99	E	47,39

701A

Set lere pentru verificare filete

- *certificat de conformitate*
- *otel inoxidabil*
- *metric-scala: 0.25, 0.30, 0.35, 0.40, 0.45, 0.50, 0.60,*
- *0.70, 0.75, 0.80, 0.90, 1.0, 1.25, 1.50, 1.75, 2.0, 2.5, 3.0,*
- *3.5, 4.0, 4.5, 5.0, 5.5, 6.0 (24 lere)*
- *whitworth - scala: 4, 4.5, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62 (28 piese)*
- *Aceste lere de filet sunt folosite pentru măsurarea filetelor interioare și exterioare în metric și whitworth*



616706	52	76	E	32,91

556.1B

Set de 10 lame de schimb pentru cutter 556 A si 556B

- *lama poate fi deplasata cu sistemul de blocare avansat*
- *cand lama este uzata, poate fi inlocuita*
- *cand ultima lama s-a uzat, partea ramasa din lama poate fi schimbata prin impingerea inainte a sistemului de blocare*
- *noua lama poate fi introdusa prin impingerea sistemului de blocare inapoi*



	L	B			
612137	140	18	75	S	14,56

556C

Cutter

- *maner bimaterial*
- *lama din otel carbon aliat*
- *cu retragerea automata a lamei la terminarea lucrului*
- *lame de rezerva art 1945.1*



622012		65	A	14,17

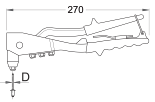
1300/6

Cleste pentru nituri pop

- *material: carcasa din aliaj de aluminiu, manerul de*
- *actionare din otel de compozitie speciala*
- *maner:forma ergonomica*
- *arc de redeschidere*
- *prevazuta cu capete pentru nituri pop pana la 4,8 mm sau 3/16"*
- *cu cheie pentru schimbarea pieselor de capat*





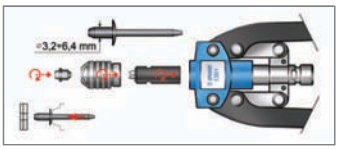


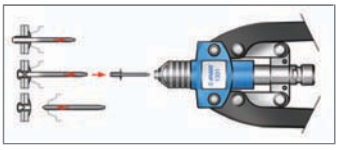
	D1	D2	D3	D4			
615454	2.4 (3/32")	3.2 (1/8")	4.0 (5/32")	4.8 (3/16")	567	E	107,89

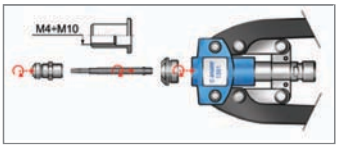
1301/6

Set cleste nituri pop

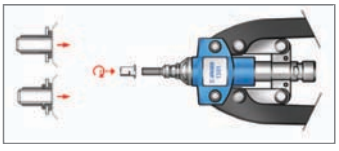
- *constructie usoara si durabila*
- *4 capete pentru nituri pop de 3,2 mm-6,4 mm (1/8"-1/4")*
- *4 capete pentru nituri pop filetate de la M4 la M10 (R5/32" -*
- *R3/8")*
- *componentele sunt montate intr-un suport SOS adaptabil pentru caruciorele Unior*
- *manere vopsite cu articulatie pentru lucrari in conditii grele*











619880	3500	F	444,00

1301.1/4

Dorn pentru nituri oarbe pentru 1301/6



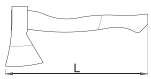
621437	M4	47	E	19,14
621438	M5	49	E	19,14
621439	M6	49	E	19,14
621440	M8	71	E	24,16
621441	M10	78	E	24,16

1310

Topor de zidar

- *material: compozitie speciala pentru a*
- *fi tratata termic,forjata*
- *tratat termic*
- *vopsit*
- *maner din lemn de frasin, anti-alune-care vopsit*





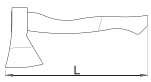
617740		800	380	945	C	148,15

1311

topor pentru drumetie

- *material: compozitie speciala pentru*
- *a fi tratata termic,forjata*
- *tratat termic*
- *vopsit*
- *maner din lemn de frasin, anti-alune-care vopsit*





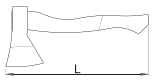
617752		500	340	655	C	118,98

1312

Topor uz gospodaresc

- *material: compozitie speciala pentru*
- *a fi tratata termic,forjata*
- *tratat termic*
- *vopsit*
- *maner din lemn de frasin, anti-alune-care vopsit*





617749		600	360	835	C	125,44
617750		800	380	1005	C	132,62
617751		1000	400	1245	C	145,86

1342

Penseta plata

- *material otel inoxidabil*





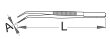
619280	160	2	25	A	19,40

1343

Penseta plata cu varfuri indoite

- *material otel inoxidabil*





619281	155	2	26	A	19,40

1344

Penseta plata

- *material otel inoxidabil*





619282	140	1.5	18	A	14,96

1345

Penseta ascutita

- *material otel inoxidabil*





619283	113	1.5	11	A	12,32

1346

Penseta ascutita cu varfuri indoite

- *material otel inoxidabil*





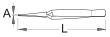
619284	165	2	28	A	19,40

1347

Penseta cu varfuri ascutite incrucisate

- *material otel inoxidabil*





619285	115	1.2	15	A	10,56

1348

Penseta cu varfuri tip lopata

- *material otel inoxidabil*





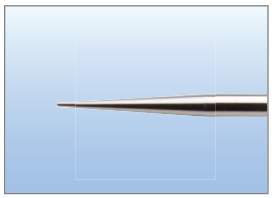
619286	120	1	12	A	11,66

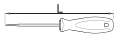
Producator European din 1919

639A

Scula de gaurit rotunda cu lama dreapta





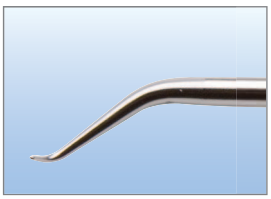


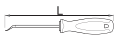
	L			
617773	165	31	B	13,42

639D

Scula de gaurit rotunda,dublu indoita si lama mica





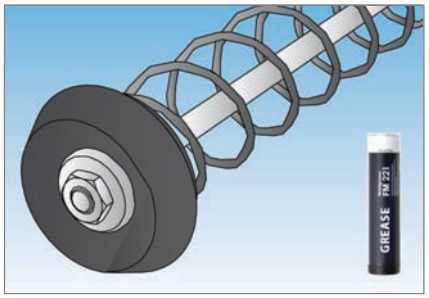


	L			
617776	165	31	B	16,19

1376/6

Cana de ungere







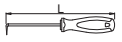
	V			
619936	0.5 l	2500	F	139,44

639B

Scula de gaurit rotunda, lama indoita la 90°







	L			
617774	165	31	B	15,27

639PB

Set scule de gaurit



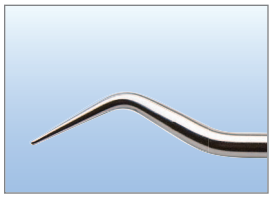
	№				
617777	639PB	4	140	F	60,15

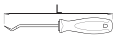
639A (165), **639B** (165), **639C** (165), **639D** (165)

639C

Scula de gaurit cu lama rotunda dublu indoita







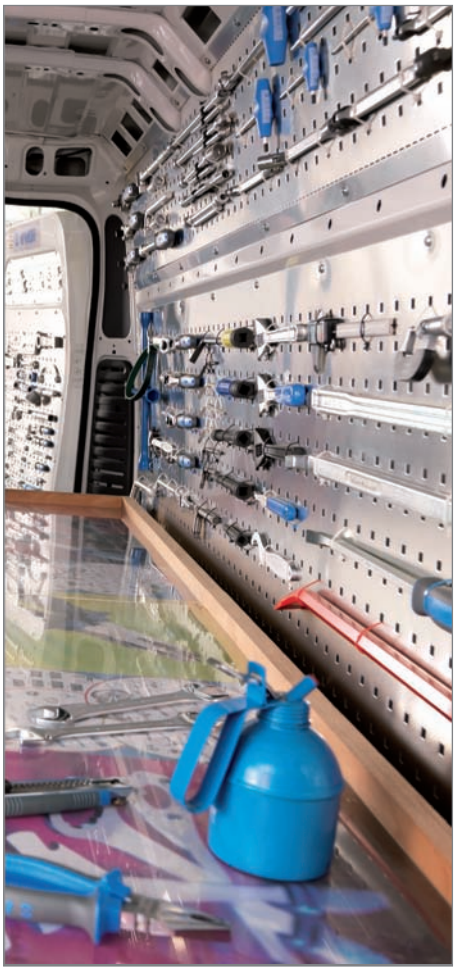
	L			
617775	165	31	B	15,27

1375/6

Cana de ulei cu furtun flexibil



	V			
619935	0.5 l	1000	F	40,17



AS49

Spray universal

- *înlătura rugina*
- *înlătura mizeria*
- *elimina zgomotele*
- *curata suprafețele metalice*
- *protejează și conserva sculele*
- *AS49 este o soluție universala pentru aplicații în industrie și ateliere. Prin formula sa specială și proprietățile sale excelente, produsul combină eficiență în protecția împotriva coroziunii, de curățare, elimina apa, face lubrifierea și conservarea, AS49 rezistă la toate influențele intemperii și de aceea este potrivit pentru aplicații universale în ateliere, industria auto, industria navala si electrice , agricultură, gospodărie și hobby-uri.*

Aplicatii:

- *util pentru filete, șuruburi, buloane, fitinguri și robineți, pătrunde și îndepărtează rugina, umiditate din fire electrice, previne curenți de scurgere, și facilitează pornirea motoarelor umede*
- *elimină zgomotele din rulmenți și toate tipurile de articulații și racorduri*
- *curăță suprafețele de metal contaminate și lasă un film de lungă durată foarte subțire, care nu murdărește, nu este lipicios și respinge praful*
- *protejează și păstrează sculele, mașini, aparate electrice și echipamente mecanice de precizie, (de măsurare, scule, lacăte, arme), și le păstrează operaționale.*

Caracteristici:

- *AS49 produs de înalta performanta pentru îngrijire și întreținere, este rezultatul celor mai recente cercetări și dezvoltări tehnologice. Silicon fără substanțe organice într-un amestec special, face acest produs extrem de eficace și multifuncțional. Acesta este caracterizat de un coeficient de frecare extrem redus și proprietăți excelente de curgere, fiind foarte practic și eficient.AS49 este rezistent la temperaturi de la -50 °C (-58 °F) la 210 °C (410 °F)*

Directii:

- *A se agita înainte de utilizare. Pulverizați uniform de la aproximativ 5 cm distanta de suprafață și lăsați să reacționeze timp de 30 de secunde.*





	№	V	D	H			
622599	EN, SLO	200	55.4	168	205	G	**29,00**
622812	HU, CZ, SK	200	55.4	168	205	G	**29,00**
622813	RO, PL, DE	200	55.4	168	205	G	**29,00**
622814	SR, BG, MK	200	55.4	168	205	G	**29,00**

AS49ST1

Set universal de spray-uri AS49 EN,SLO în stand



	№				
623016	**AS49ST1**	10	2150	G	**290,00**
	AS49 (EN, SLO)				

AS49ST3

Set de spray-uri universale AS49 RO, PL, DE în stand



	№				
623018	**AS49ST3**	10	2150	G	**289,96**
	AS49 (RO, PL, DE)				

AS49ST2

Set universal de spray-uri AS49 HU,CZ,SK in stand



	№				
623017	**AS49ST2**	10	2150	G	**289,96**
	AS49 (HU, CZ, SK)				

AS49ST4

Set universal de spray-uri AS49 SR,BG,MK în stand

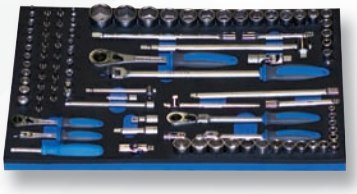


	№				
623019	**AS49ST4**	10	2150	G	**289,96**
	AS49 (SR, BG, MK)				

Seturi de scule







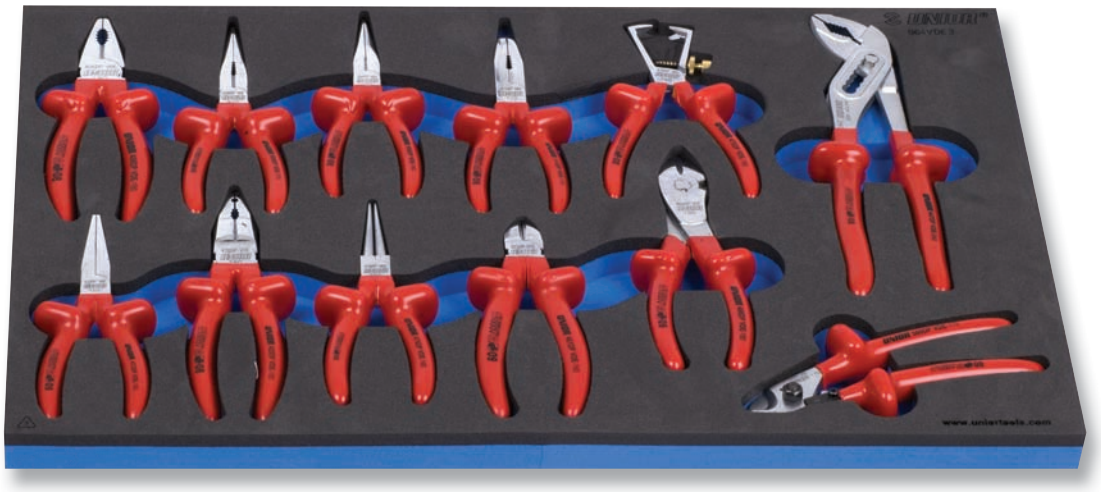
Modulele SOS-avantaje
Modulele SOS sunt confectionate din doua straturi de spuma polietilenica rezistenta la grasimi, petrol, ulei, diluanti, adezivi si uleiuri de motor, toate acestea fiind usor de curatat fara a lasa urme pe modul. Adezivii si uleiurile de motor trebuie curatati imediat cu petrol pentru a preveni murdarirea acestora. Modulul nu este deformabil pana la 80 de grade Celsius.

Constructie
material: Spumă de polipropilenă cu densitate scăzută Gama de temperatură de operare: de la -70°C până la +95°C

Aceste suporturi de scule din spumă de polietilenă sunt folosite pentru o organizare mai bună și mai atentă a acestora, în cutii cu scule, în carcase, sertarele dulapurilor cu scule precum și în ateliere. Acest tip de depo- zitare este cunoscut sub numele de SISTEMUL SOS. Aceste suporturi pot fi folosite la diverse temperaturi, nu absorb umezeala, si în cazul unei utilizări normale, au o durată de viață lungă. Protejează sculele prin depozitarea lor în locurile proiectate pentru acestea, astfel încât împiedică mișcarea necontrolată a acestora în zona de depozitare. Având în vedere faptul că locația este bine definită pentru fiecare sculă în parte, este de asemenea foarte ușor de a determina scula care lipsește.

Sistem SOS

S- Safety (Siguranță)
O - Order (Ordine)
S - Survey (Control)



Compozitie ideala

Compunerea variata a seturilor a avut la baza o continua cercetare a specialistilor Unior. Seturile create au avut in vedere nevoile diferitelor domenii, avand drept caracteristici calitatea, utilitatea si pretul atractiv.

Alegere simpla

Seturile pentru diverse domenii faciliteaza alegerea optima a acestora. Electricieni, mecanici auto, vopsitori, tehnicieni electronisti si alti profesionisti au incredere in experienta Unior.

Pentru începători și profesioniști

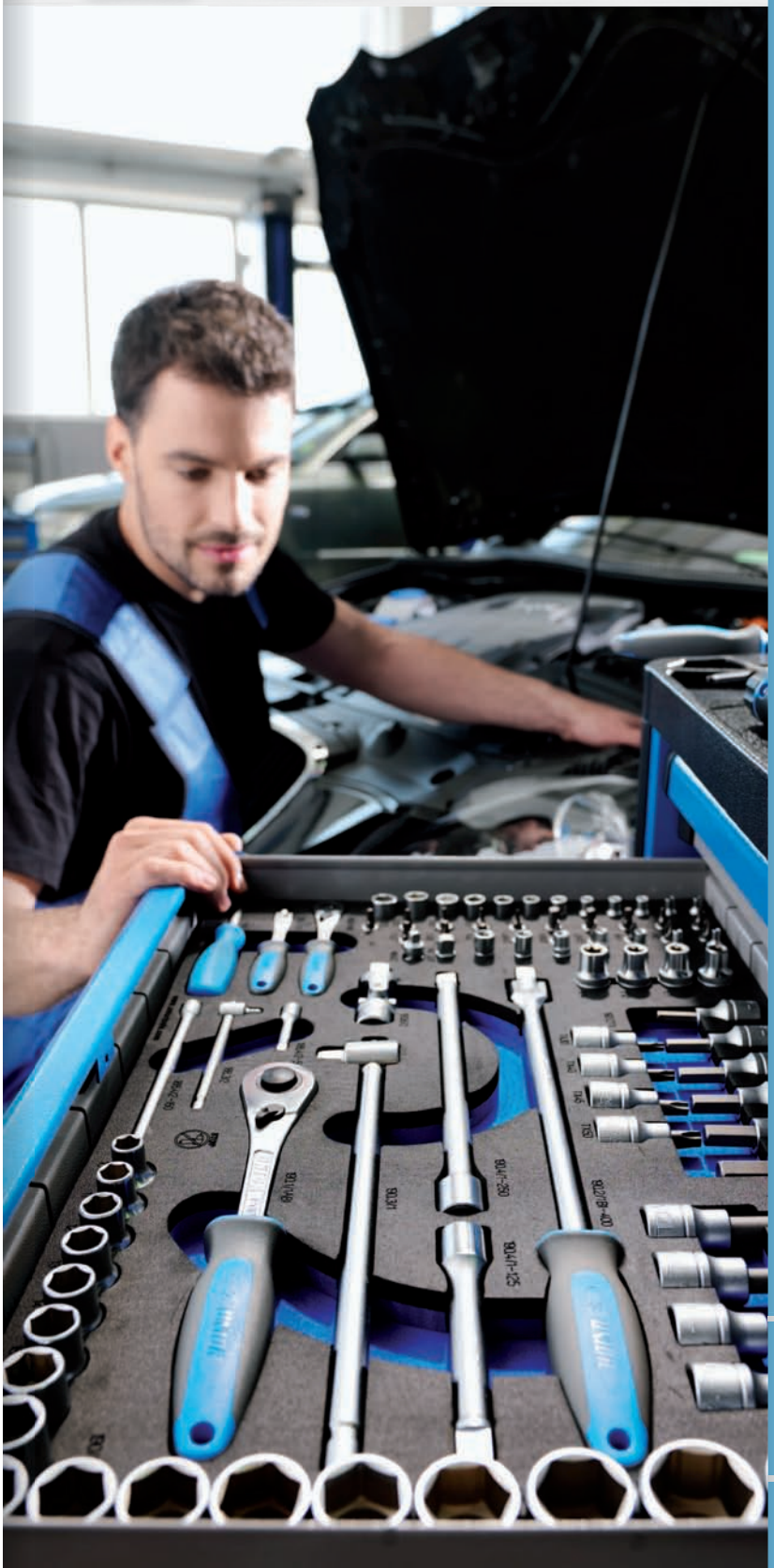
Seturile contin diverse tipuri de scule cum ar fi, chei, clesti, surubelnite, pile, ciocane, dalti punctatoare si alte tipuri de scule ce pot fi alese pentru specialisti, meseriasi si amatori.


Set de scule in modul SOS pentru carucioarele Europlus, Eurovision, Eurostyle 390 - 400


Set de scule in modul SOS pentru caruciorul ECONOMIC 400 - 401


Set de scule 401 - 409


Set de scule in husa 410 - 411



UNIOR®

964/1SOS

Set de chei fixe in suport SOS



№					
621049	964/1SOS	6 - 32 / 12	2300	F	305,62

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **vl964/1SOS** (188 x 364 x 30)

vl964/1SOS

Modul SOS pentru chei fixe

	B	L	H			
620881	188	364	30	63	V	27,63

964/1ASSOS

Set de chei fixe in suport SOS



№					
621179	964/1ASSOS	6 - 32 / 12	2290	F	301,75

110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **vl964/1ASSOS** (188 x 364 x 30)

vl964/1ASSOS

Modul SOS pentru 964/1ASSOS

	B	L	H			
621233	188	364	30	57	V	27,63

964/2SOS

Set de chei combinate in suport SOS



№					
621051	964/2SOS	8 - 24 / 12	1680	F	350,81

125/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), **vl964/2SOS** (188 x 364 x 30)

vl964/2SOS

Modul SOS pentru chei combinate

	B	L	H			
620883	188	364	30	49	V	27,63

964/1ASOS

Set de chei fixe in suport SOS



№					
621050	964/1ASOS	6 - 32 / 12	2290	F	313,72

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **vl964/1ASOS** (188 x 364 x 30)

vl964/1ASOS

ModulSOS pentru 964/1ASOS

	B	L	H			
620882	188	364	30	64	V	27,63

964/1SSOS

Set de chei fixe in suport SOS



№					
621178	964/1SSOS	6 - 32 / 12	2310	F	293,39

110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **vl964/1SSOS** (188 x 364 x 30)

vl964/1SSOS

Modul SOS pentru 946/1SSOS

	B	L	H			
621232	188	364	30	25	V	27,63

964/2ASOS

Set de chei combinate varianta lunga in suport SOS



№					
621052	964/2ASOS	8 - 24 / 12	1960	F	379,50

120/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), **vl964/2ASOS** (188 x 364 x 30)

vl964/2ASOS

Modul SOS pentru chei combinate lungi

	B	L	H			
620884	188	364	30	59	V	27,63

964/2ASSOS

Set de chei combinate varianta lunga in suport SOS



№					
621181	964/2ASSOS	8 - 24 / 12	2990	F	363,79

120/2 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), **vl964/2ASSOS** (188 x 364 x 30)

vl964/2ASSOS

Modul SOS pentru 964/2ASSOS

№	B	L	H			
621235	188	364	30	58	V	27,63

964/2BSOS

Set de chei combinate varianta lunga in suport SOS



№					
621053	964/2BSOS	8 - 24 / 12	1650	F	388,83

129/1 (8, 10, 11, 12, 13, 14, 15, 16, 17, 19, 22, 24), **vl964/2BSOS** (188 x 364 x 30)

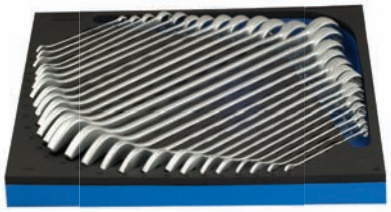
vl964/2BSOS

Modul SOS pentru chei combinate IBEX

№	B	L	H			
620885	188	364	30	49	V	27,63

964/2CSOS

Set de chei combinte lungi in suport de plastic



№					
621054	964/2CSOS	6 - 32 / 26	6760	F	1.048,96

120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32), **vl964/2CSOS** (374 x 364 x 40)

vl964/2CSOS

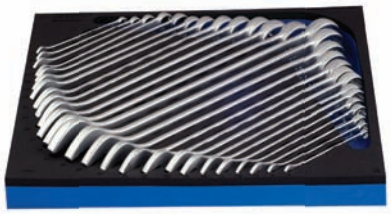
Modul de plastic pentru chei combinate

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

B	L	H			
621219	374	364	40	117	V	53,11

964/2CSSOS

Set de chei combinate varianta lunga in suport SOS



№					
621184	964/2CSSOS	6 - 32 / 26	6875	F	1.005,27

120/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32), **vl964/2CSSOS** (374 x 364 x 40)

vl964/2CSSOS

Modul SOS pentru 964/2CSSOS

B	L	H			
621236	374	364	40	50	V	53,11

964/2DSOS

Set de chei combinate si chei hexagonale varianta lunga in suport SOS



№					
621563	964/2DSOS	27	3170	F	590,04

120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24), **220/3LPH** (1,5-10/9), **vl964/2DSOS** (374 x 364 x 30)

vl964/2DSOS

Modul SOS pentru 964/2DSOS

B	L	H			
621507	374	364	30	150	V	53,11

964/2SSOS

Set de chei combinate in suport SOS



№					
621180	964/2SSOS	8 - 24 / 12	1700	F	336,34

125/2 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), **vl964/2SSOS** (188 x 364 x 30)

vl964/2SSOS

Modul SOS pentru 964/2SSOS

B	L	H			
621234	188	364	30	56	V	27,63

964/3SOS

Set de chei inelare dublu cotite in suport SOS



№					
621055	964/3SOS	6 - 22 / 8	1350	F	241,30

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **vl964/3SOS** (188 x 364 x 30)

vl964/3SOS

Modul SOS pentru chei inelare dublu cotite

	B	L	H			
620886	188	364	30	45	V	27,63

964/4SOS

Set de chei inelare dublu cotite in suport SOS



№					
621056	964/4SOS	21 - 32 / 4	2220	F	238,13

180/1 (21 x 23, 24 x 26, 25 x 28, 27 x 32), **vl964/4SOS** (188 x 364 x 30)

vl964/4SOS

Modul SOS pentru chei inelare dublu cotite

	B	L	H			
620887	188	364	30	25	V	27,63

964/5SOS

Set de capete chei tubulare si accesorii 1/4" in suport SOS



№					
621057	964/5SOS	45	1200	F	640,42

187/2HX (3, 4, 5, 6, 7), **187/2PH** (PH 1, PH 2, PH 3), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **188/2 6p** (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 150, 1/4" x 55), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **188.8** (1/4"), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **vl964/5SOS** (188 x 364 x 30)

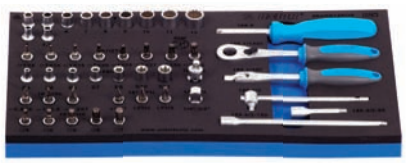
vl964/5SOS

Modul SOS pentru capete chei tubulare 1/4"

	B	L	H			
620888	188	364	30	25	V	27,63

964/5S12SOS

Set de capete chei tubulare si accesorii 1/4" in suport de plastic



№					
621185	964/5S12SOS	45	1170	F	640,42

188/2 12p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.3/2** (1/4"), **188.8** (1/4"), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **187/2PH** (PH 1, PH 2, PH 3), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **vl964/5S12SOS** (188 x 364 x 30)

vl964/5S12SOS

Modul SOS pentru 964/5SSOS

	B	L	H			
621237	188	364	30	25	V	27,63

964/6SOS

Set de clesti Bl in suport SOS



№					
621058	964/6SOS	3	850	F	221,67

406/1Bl (180), **461/1Bl** (160), **508/1Bl** (170), **vl964/6SOS** (188 x 364 x 30)

vl964/6SOS

Modul SOS pentru clesti Bl

	B	L	H			
620889	188	364	30	25	V	27,63

964/6ESOS

Set de clești electronist în modul SOS



№					
622988	964/6ESOS	5	700	F	423,06

406/4E (120), **455/4E** (110), **461/4E** (115), **506/4E** (140), **512/4E** (140), **vl964/6ESOS** (188 x 364 x 30)

vl964/6ESOS

Modul SOS pentru 964/6E

	B	L	H			
622974	188	364	30	56	V	27,63

964/7SOS

Set de clesti menghina in suport SOS



№					
621059	964/7SOS	2	1200	F	195,49

430/3 (250), **445/1BI** (240), **vl964/7SOS** (188 x 364 x 30)

vl964/7SOS

Modul SOS pentru clesti

№	B	L	H			
620890	188	364	30	42	V	27,63

964/8SOS

Set de clesti inele de siguranta in suport SOS



№					
621060	964/8SOS	19 - 60 - 180 / 4	975	F	273,81

532PLUS/4DP (180 x 19 - 60), **534PLUS/4DP** (180 x 19 - 60), **536PLUS/4DP** (180 x 19 - 60), **538PLUS/4DP** (180 x 19 - 60), **vl964/8SOS** (188 x 364 x 30)

vl964/8SOS

Modul de plastic pentru clesti inel de siguranta

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*
- *material polistiren*

№	B	L	H			
620891	188	364	30	63	V	27,63

964/8ASOS

Set de clesti inel de siguranta in suport de plastic



№					
621061	964/8ASOS	19 - 60 - 180 / 4	985	F	283,67

532PLUS/1DP (180 x 19 - 60), **534PLUS/1DP** (180 x 19 - 60), **536PLUS/1DP** (180 x 19 - 60), **538PLUS/1DP** (180 x 19 - 60), **vl964/8ASOS** (188 x 364 x 30)

vl964/8ASOS

Modul SOS pentru clesti inel de siguranta

№	B	L	H			
621220	188	364	30	55	V	27,63

964/9SOS

Set de surubelnite TBI in suport SOS



№					
621062	964/9SOS	8	710	F	181,24

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100), **625TBI** (PZ 2 x 100), **vl964/9SOS** (188 x 364 x 30)

vl964/9SOS

Modul SOS pentru surubelnite TBI

№	B	L	H			
620892	188	364	30	25	V	27,63

964/9BSOS

Set de capete chei tubulare cu maner TBI in suport de plastic



№					
621063	964/9BSOS	6	1075	F	290,93

629TBI (5.5, 6, 8, 10, 12, 13), **vl964/9BSOS** (188 x 364 x 30)

vl964/9BSOS

Modul de plastic pentru chei tubulare cu maner TBI

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*
- *material polistiren*

№	B	L	H			
621221	188	364	30	49	V	27,63

964/9CSOS

Set de surubelnite TBI cu profil TX si gaura in suport SOS



№					
621560	964/9CSOS	8	780	F	212,56

621TBI (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45), **vl964/9CSOS** (188 x 364 x 30)

vl964/9CSOS

Modul SOS pentru 964/9CSOS

№	B	L	H			
621504	188	364	30	41	V	27,63

964/9DSOS

Set de surubelnite TBI in suport SOS



№					
621561	964/9DSOS	8	670	F	169,14

621TBI (TX 6, TX 7, TX 8, TX 9),
615TBI (PH 1 x 80, PH 2 x 100),
625TBI (PZ 1 x 80, PZ 2 x 100),
vl964/9DSOS (188 x 364 x 30)

vl964/9DSOS

Modul SOS pentru 964/9DSOS

B	L	H			
621505	188	364	30	49	V	27,63

964/9ESOS

Set de surubelnite cu profil TX si maner in T in suport SOS



№					
621562	964/9ESOS	7	720	F	223,92

193TX (TX 30, TX 40, TX 45),
621TBI (TX 6, TX 7, TX 8, TX 9), **vl964/9ESOS** (188 x 364 x 30)

vl964/9ESOS

Modul SOS pentru 964/9ESOS

B	L	H			
621506	188	364	30	57	V	27,63

964/10SOS

Set de ciocane si punctatoare in suport SOS



№					
621064	964/10SOS	5	1240	F	177,23

640/6 (5), **642/6** (5),
660/6 (150), **812** (300),
820 (32), **vl964/10SOS** (188 x 364 x 30)

vl964/10SOS

Modul SOS pentru ciocane

B	L	H			
620893	188	364	30	57	V	27,63

964/11SOS

Trusa de clesti menghina de sertizat si papuci in suport de plastic



№					
621065	964/11SOS	281	1000	F	289,65

426/3A (0.5 - 6 x 220), **423.1R** (3, 5), **423.1B** (4, 6), **423.1J** (5, 8), **423.2R** (4), **423.2B** (4), **423.3R** (1.9), **423.3B** (1.9), **423.3J** (2.8), **423.5B** (5), **423.7R** (6.3 x 0.8), **423.7B** (6.3 x 0.8), **vl964/11SOS** (188 x 364 x 30)

vl964/11SOS

Modul de plastic pentru clesti de sertizat si papuci conectori

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*
- *material polistiren*

B	L	H			
620899	188	364	30	37	V	27,63

964/12SOS

Trusa de clesti de sertizat si papuci in suport de plastic



№					
621066	964/12SOS	282	820	F	255,77

425/4A (1.5 - 6 x 240), **423.1R** (3, 5), **423.1B** (4, 6), **423.1J** (5, 8), **423.2R** (4), **423.2B** (4), **423.3R** (1.9), **423.3B** (1.9), **423.3J** (2.8), **423.5B** (5), **423.7R** (6.3 x 0.8), **423.7B** (6.3 x 0.8), **vl964/12SOS** (188 x 364 x 30)

vl964/12SOS

Modul SOS pentru 946/12SOS

B	L	H			
620900	188	364	30	36	V	27,63

964/13SOS

Set de surubelnite hexagonale cu maner in T in suport SOS



№					
621067	964/13SOS	3 - 10 / 6	755	F	186,91

193HXS (3, 4, 5, 6, 8, 10), **vl964/13SOS** (188 x 364 x 30)

vl964/13SOS

Modul SOS pentru"surubelnite cu maner in T

B	L	H			
620894	188	364	30	25	V	27,63

964/13ASOS

Set de surubelnite cu profil hexagonal si cap sferic cu maner in T in cutie de plastic



№					
621068	964/13ASOS	3 - 10 / 6	775	F	180,27

193HX (3, 4, 5, 6, 8, 10), **vl964/13ASOS** (188 x 364 x 30)

vl964/13ASOS

Modul de plastic pentu chei in T cu cap de surubelnita

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

	B	L	H			
621222	188	364	30	49	V	27,63

964/15SOS

Set de scule VDE BI in suport SOS



№					
621070	964/15SOS	9	1140	F	379,50

406/1VDEBI (180), **461/1VDEBI** (160), **478/1VDEBI** (160), **603VDETBI** (0.4 x 2.5 x 75, 0.6 x 3.5 x 100, 1.0 x 5.5 x 125), **613VDETBI** (PH1 x 80, PH2 x 100), **630VDE** (0.5 x 3.0 x 140), **vl964/15SOS** (188 x 364 x 30)

vl964/15SOS

Modul SOS pentru scule VDE

	B	L	H			
620895	188	364	30	41	V	27,63

964/17SOS

Set de chei tubulare dublu articulate in suport de plastic



№					
621072	964/17SOS	8 - 22 / 6	1545	F	375,01

202/1 (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 19 x 22), **vl964/17SOS** (188 x 364 x 30)

vl964/17SOS

Modul de plastic pentru chei tubulare dublu articulate

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

	B	L	H			
621225	188	364	30	48	V	27,63

964/14SOS

Set de surubelnite cu profil TX cu maner in T in cutie de plastic



№					
621069	964/14S0S	TX 15 - TX 40 / 6	530	F	246,53

193TX (TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **vl964/14SOS** (188 x 364 x 30)

vl964/14SOS

Modul SOS pentru 946/14SOS

	B	L	H			
621223	188	364	30	52	V	27,63

964/16SOS

Set capete chei tubulare cu profil TX in cutie de plastic



№					
621071	964/16SOS	18	1540	F	504,86

192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **191/1** (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24), **vl964/16SOS** (188 x 364 x 30)

vl964/16SOS

Modul de plastic pentru capete cu profil exterior si interior TX

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

	B	L	H			
621224	188	364	30	43	V	27,63

964/18ASOS

Set de capete cu chei inelare dublu cotite in suport de plastic



№					
621073	964/18ASOS	8 - 19 / 10	2615	F	684,77

176 (8, 10, 11, 12, 13, 14, 16, 17, 18, 19), **vl964/18ASOS** (188 x 364 x 30)

vl964/18ASOS

Modul de plastic pentru chei pipa

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*
- *material:spuma polietilena de joasa densitate*

	B	L	H			
621226	188	364	30	56	V	27,63

964/18BSOS

Set de capete cu chei inelare dublu cotite in suport de plastic



№					
621074	964/18BSOS	8 - 19 / 10	2615	F	684,77

177 (8, 10, 11, 12, 13, 14, 16, 17, 18, 19), **vl964/18BSOS** (188 x 364 x 30)

vl964/18BSOS

Modul SOS pentru 946/18BSOS

№	B	L	H			
621227	188	364	30	54	V	27,63

964/19SOS

Set de capete chei tubulare 1/2" in suport SOS



№					
621075	964/19SOS	29	4770	F	926,16

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **192/2HX** (5, 6, 8, 10, 12), **vl964/19SOS** (374 x 364 x 30)

vl964/19SOS

Modul SOS pentru capete chei tubulare 1/2"

№	B	L	H			
620896	374	364	30	9,4	V	53,11

964/19S12SOS

Set de capete chei tubulare 1/2" in suport SOS



№					
621186	964/19S12SOS	29	4770	F	926,16

190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **192/2HX** (5, 6, 8, 10, 12), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 125, 1/2" x 250), **190.6/2** (1/2"), **vl964/19S12SOS** (374 x 364 x 30)

vl964/19S12SOS

Modul SOS pentru 946/19SSOS

№	B	L	H			
621238	374	364	30	104	V	53,11

964/22SOS

Set de scule in suport SOS



№					
621077	964/22SOS	60	7100	F	1.509,86

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **192/2HX** (5, 6, 7, 8, 9, 10, 12, 14, 17), **192/2TX** (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **641/6** (2, 3, 4, 5, 6, 8), **642/6** (4), **660/6** (150), **670/6** (150), **220/3PH**, **vl964/22SOS** (564 x 364 x 30)

vl964/22SOS

Modul SOS pentru capete chei tubulare 1/2"si 1/4

№	B	L	H			
620897	564	364	30	134	V	84,96

964/23SOS

Set de capete chei tubulare de impact 1/2"



№					
621078	964/23SOS	10 - 24 / 17	2800	F	476,70

231/4 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24), **231.4/4** (1/2" x 75), **231.8/4** (10 - 14, 15 - 32), **vl964/23SOS** (188 x 364 x 30)

vl964/23SOS

Modul de plastic pentru capete chei tubulare de impact 1/2"

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

№	B	L	H			
621229	188	364	30	48	V	27,63

964/24SOS

Set de cutter, bomfaier si ruleta in suport de plastic



№					
621079	964/24SOS	3	800	F	126,41

710P (5), **556B** (160), **753P** (150), **vl964/24SOS** (188 x 364 x 30)

vl964/24SOS

Modul de plastic pentru fierastrau, cutit si ruleta

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

№	B	L	H			
621230	188	364	30	39	V	27,63

964/25SOS

Set de capete chei tubulare 3/8" in suport SOS



	№					
621080	**964/25SOS**	6 - 22 / 23	1765	F		**514,14**

238/1 6p (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238.1/1ABI** (3/8"), **238.3/1** (3/8"), **238.4/1** (3/8" x 250, 3/8" x 125), **238.6/1** (3/8"), **238.7/2** (3/8" - 1/2"), **vl964/25SOS** (188 x 364 x 30)

vl964/25SOS

Modul de plastic pentru capete chei tubulare 3/8"

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

	B	L	H			
620898	188	364	30	25	V	**27,63**

964/26 1/2SSOS

Set de pile in suport de plastic



	№					
621082	**964/26 1/2SSOS**	5	1200	F		**173,62**

760H1/2S (200), **761H1/2S** (200), **763H1/2S** (200), **764H1/2S** (200), **765H1/2S** (200), **vl964/26 1/2SSOS** (188 x 364 x 30)

vl964/26 1/2SSOS

Modul SOS pentru 964/26 1/2 SOS

	B	L	H			
620902	188	364	30	49	V	**27,63**

964/26BSOS

Set de pile in suport de plastic



	№					
621081	**964/26BSOS**	5	1095	F		**159,46**

760HB (200), **761HB** (200), **763HB** (200), **764HB** (200), **765HB** (200), **vl964/26BSOS** (188 x 364 x 30)

vl964/26BSOS

Suport de plastic pentru pile

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*

	B	L	H			
620901	188	364	30	50	V	**27,63**

964/26SSOS

Set de pile in suport de plastic



	№					
621083	**964/26SSOS**	188 - 364 x 30 / 5	1180	F		**173,62**

760HS (200), **761HS** (200), **763HS** (200), **764HS** (200), **765HS** (200), **vl964/26SSOS** (188 x 364 x 30)

vl964/26SSOS

Modul SOS pentru 964/26SSOS

	B	L	H			
620903	188	364	30	49	V	**27,63**

964/27SOS

Set de chei combinate forjate cu clichet in suport de plastic



	№					
621084	**964/27SOS**	8 - 19 / 10	1490	F		**623,57**

160/2 (8, 9, 10, 12, 13, 14, 16, 17, 18, 19), **vl964/27SOS** (188 x 364 x 30)

vl964/27SOS

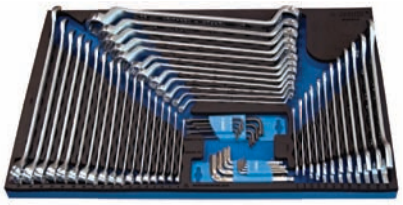
Modul de plastic pentru chei combinate cu clichet

- *modul de plastic gol pentru caruciorul Eurostyle art. 940E, Euromaster art. 940M, Hercules 940H si banc de lucru*
- *material polistiren*

	B	L	H			
621231	188	364	30	42	V	**27,63**

964/28SOS

Set de chei tubulare in suport SOS



	№					
621387	**964/28SOS**	60	8880	F		**1.561,16**

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **120/1** (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27), **180/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32), **220/3SPH** (1.5 - 10 / 9) **220/7TXPH** (TR 9 - TR 40 / 8), **vl964/28SOS** (564 x 364 x 30)

vl964/28SOS

Modul SOS pentru 964/28SOS

	B	L	H			
621377	564	364	30	111	V	**84,96**

964/29SOS

Set de chei tubulare in suport SOS



	№				
621388	964/29SOS	32	9000	F	1.635,08

183/2 (8 x 10, 10 x 11, 11 x 13, 12 x 14, 16 x 18, 17 x 19, 19 x 22, 22 x 24, 24 x 27, 30 x 32), **202/1** (8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19), **177** (8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19), **182/2BTX** (6 x 8, 10 x 12, 14 x 18, 20 x 24), **vl964/29SOS** (564 x 364 x 30)

vl964/29SOS

Modul SOS pentru 964/29SOS

	B	L	H			
621378	564	364	30	115	V	84,96

964/30SOS

Set de capete chei tubulare cu accesorii in suport SOS



	№				
621389	964/30SOS	96	7460	F	2.134,75

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2PH** (PH 1, PH 2, PH 3), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **188.8** (1/4"), **238/1 6p** (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22), **238.1/1FBI** (3/8"), **238.2/1BI** (3/8"), **238.3/1** (3/8"), **238.4/2** (3/8" x 45, 3/8" x 75), **238.4/1** (3/8" x 125, 3/8" x 250), **238.6/1** (3/8"), **238.7/2** (3/8" - 1/2"), **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **vl964/30SOS** (564 x 364 x 30)

vl964/30SOS

Modul SOS pentru 964/30SOS

	B	L	H			
621379	564	364	30	138	V	84,96

964/31SOS

Set de scule de mana in suport SOS



	№				
621390	964/31SOS	79	8450	F	2.810,59

192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **192/2TXL** (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60), **191/1** (E 10, E 11, E 12, E 14, E 16, E 18, E 20, E 22, E 24), **192/2ZX** (M 5, M 6, M 8, M 10, M 12, M 14), **192/2ZXL** (M 6, M 8, M 10, M 12, M 14), **192/2HX** (5, 6, 7, 8, 9, 10, 12, 14), **192/2HXL** (5, 6, 7, 8, 10, 12), **190/1 12p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32), **186.4/2** (21, 19, 16), **641/6** (2, 3, 4, 5, 6, 8), **263A** (30 - 150), **vl964/31SOS** (564 x 364 x 30)

vl964/31SOS

Modul SOS pentru 964/31SOS

	B	L	H			
621380	564	364	30	148	V	84,96



964/32SOS

Set de cleste si ciocan BI in suport SOS



	Nº				
621391	964/32SOS	14	5250	F	1.053,67

406/1BI (180), **466/1BI** (180), **508/1BI** (200), **512/1BI** (200), **442/1HYPO** (240), **430/3** (250), **532PLUS/4DP** (180 x 19 - 60), **534PLUS/4DP** (180 x 19 - 60), **536PLUS/4DP** (180 x 19 - 60), **538PLUS/4DP** (180 x 19 - 60), **812** (400), **819A** (45), **660/6** (200), **642/6** (5), **vl964/32SOS** (564 x 364 x 30)

vl964/32SOS

Modul SOS pentru 964/32SOS

	B	L	H			
621381	564	364	30	149	V	84,96

964/33SOS

Set de surubelnite in suport SOS



	Nº				
621392	964/33SOS	30	3200	F	877,67

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.6 x 8.0 x 175), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), **626TBI** (PH 1 x 25, PH 2 x 25), **627TBI** (1.0 x 5.5 x 25, 1.2 x 6.5 x 25), **621TBI** (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **629TBI** (6, 7, 8, 9, 10, 11, 12, 13), **vl964/33SOS** (564 x 364 x 30)

vl964/33SOS

Modul SOS pentru 964/33SOS

	B	L	H			
621382	564	364	30	105	V	84,96

964/34SOS

Set de surubelnite cu maner in T in suport SOS



	Nº				
621393	964/34SOS	18	2360	F	640,55

193HXS (2.5, 3, 4, 5, 6, 8, 10), **193TX** (TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40, TX 45), **760H1/2S** (200), **764H1/2S** (200), **556B** (160), **vl964/34SOS** (564 x 364 x 30)

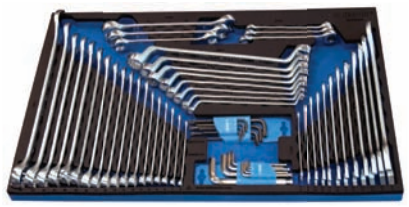
vl964/34SOS

Modul SOS pentru 964/34SOS

	B	L	H			
621383	564	364	30	138	V	84,96

964/35SOS

Set de chei tubulare in suport SOS



	Nº				
621394	964/35SOS	63	7630	F	1.504,23

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 27, 25 x 28, 30 x 32), **120/1** (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27), **180/1** (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **183/2** (8 x 10, 10 x 11, 11 x 13, 12 x 14, 17 x 19, 19 x 22), **220/3SPH** (1.5 - 10 / 9) **220/7TXPH** (TR 9 - TR 40 / 8), **vl964/35SOS** (564 x 364 x 30)

vl964/35SOS

Modul SOS pentru 964/35SOS

	B	L	H			
621384	564	364	30	110	V	84,96

964/36SOS

Set de capete chei tubulare cu accesorii in suport SOS



	Nº				
621395	964/36SOS	88	6820	F	1.927,29

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **187/2HX** (3, 4, 5, 6, 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2PH** (PH 1, PH 2, PH 3), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 55, 1/4" x 150), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **188.8** (1/4"), **190/1 6p** (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **191/1** (E 10, E 11, E 12, E 14), **192/2HX** (6, 7, 8, 9, 10, 12), **192/2TX** (TX 30, TX 40, TX 45, TX 50), **192/2ZXL** (M 6, M 8, M 10, M 12), **190.1/1ABI** (1/2"), **190.2/1BI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **vl964/36SOS** (564 x 364 x 30)

vl964/36SOS

Modul SOS pentru 964/36SOS

	B	L	H			
621385	564	364	30	152	V	84,96

964/37SOS

Set de surubelnite in suport SOS



	№				
621396	964/37SOS	28	2600	F	679,49

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.6 x 8.0 x 175), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150), **626TBI** (PH 1 x 25, PH 2 x 25), **627TBI** (1.0 x 5.5 x 25, 1.2 x 6.5 x 25), **621TBI** (TX 6, TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **193HXS** (3, 4, 5, 6, 8, 10), **vl964/37SOS** (564 x 364 x 30)

vl964/37SOS

Modul SOS pentru 964/37SOS

	B	L	H			
621386	564	364	30	118	V	84,96

964ECO2

Set de chei combinate varianta scurta in suport SOS



	№				
621287	964ECO2	8 - 24 / 12	1620	F	351,74

125/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), **vl964ECO2** (498 x 135 x 30)

vl964ECO2

Modul SOS pentru 964ECO2

	B	L	H			
620871	498	135	30	49	V	28,56

964ECO2A

Set de chei combinate varianta lunga in suport SOS



	№				
621288	964ECO2A	8 - 24 / 12	1900	F	380,42

120/1 (8, 9, 10, 12, 13, 14, 17, 19, 20, 21, 22, 24), **vl964ECO2A** (498 x 135 x 30)

vl964ECO2A

Modul SOS pentru 964ECO2A

	B	L	H			
620872	498	135	30	64	V	28,56

964ECO3

Set de capete chei inelare dublu cotite in suport SOS



	№				
621289	964ECO3	6 - 22 / 8	1350	F	242,22

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **vl964ECO3** (498 x 135 x 30)

vl964ECO3

Modul SOS pentru 964ECO3

	B	L	H			
620873	498	135	30	49	V	28,56

964ECO5

Set de capete chei tubulare si accesorii 1/2" in suport SOS



	№				
621290	964ECO5	45	1115	F	641,34

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13), **189/2** (E 4, E 5, E 6, E 7, E 8, E 10, E 11), **187/2HX** (3, 4, 5, 6, 7), **187/2PH** (PH 1, PH 2, PH 3), **187/2SL** (0.8 x 4, 1 x 5.5, 1.2 x 7), **187/2TX** (TX 8, TX 10, TX 15, TX 20, TX 25, TX 27, TX 30, TX 40), **188.1/1ABI** (1/4"), **188.2/2BI** (1/4"), **188.3/2** (1/4"), **188.4/2** (1/4" x 150, 1/4" x 55), **188.6/2** (1/4"), **188.7/2** (1/4" - 3/8"), **188.8** (1/4"), **vl964ECO5** (498 x 135 x 30)

vl964ECO5

Modul SOS pentru 964ECO5

	B	L	H			
620874	498	135	30	55	V	28,56

964ECO6

Set de clesti Bl in suport SOS



	№				
621291	964ECO6	4	1220	F	311,21

406/1Bl (180), **461/1Bl** (160), **514/1Bl** (160), **445/1Bl** (240), **vl964ECO6** (498 x 135 x 30)

vl964ECO6

Modul SOS pentru 964ECO6

	B	L	H			
620875	498	135	30	53	V	28,56

964ECO9

Set de surubelnite TBI in suport SOS



	№				
621292	964ECO9	8	690	F	182,12

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150), **615TBI** (PH 0 x 60, PH 1 x 80, PH 2 x 100), **625TBI** (PZ 2 x 100), **vl964ECO9** (498 x 135 x 30)

vl964ECO9

Modul SOS pentru 964ECO9

	B	L	H			
620876	498	135	30	53	V	28,56

964ECO10

Set de ciocane si punctatoare in suport SOS



	№				
621293	964ECO10	5	1200	F	178,11

640/6 (5), **642/6** (5), **660/6** (150), **812** (300), **820** (32), **vl964ECO10** (498 x 135 x 30)

vl964ECO10

Modul pentru 964ECO10

	B	L	H			
620877	498	135	30	49	V	28,56

964ECO19

Set de capete chei tubulare 1/2" in suport SOS



	№				
621294	964ECO19	10 - 32 / 23	3420	F	695,73

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.3/1** (1/2"), **190.4/1** (1/2" x 250, 1/2" x 125), **190.6/2** (1/2"), **vl964ECO19** (498 x 135 x 30)

vl964ECO19

Modul SOS pentru 964ECO19

	B	L	H			
620878	498	135	30	42	V	28,56

964ECO26 1/2S

Set de pile in suport SOS



	№				
621295	964ECO26 1/2S	4	880	F	150,39

760H1/2S (200), **763H1/2S** (200), **765H1/2S** (200), **768H1/2S** (200), **vl964ECO26 1/2S** (498 x 135 x 30)

vl964ECO26 1/2S

Modul SOS pentru 964ECO26 1/2S

	B	L	H			
620879	498	135	30	56	V	28,56

1000A

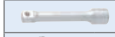
Set scule 170 piese

	№				
608140	1000A	170	29000	K	5.875,19


120/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32)

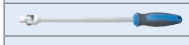

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)


190.6/2 (1/2")


190.4/1 (1/2" x 125, 1/2" x 250)

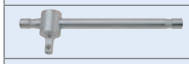

190.3/1 (1/2")


190.1/1ABI (1/2")


190.2/1BI (1/2")


188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)

188.4/2 (1/4" x 55, 1/4" x 150)


188.3/2 (1/4")


188.1/1ABI (1/4")


188.2/2BI (1/4")


200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)


250/1 (250)


205/2 (220 x 60 x 140)


481/6 (1.1/2")


430/3 (250)


563R/7PR (280)


631 (6 - 12)

640/6 (2, 4, 6, 8)

641/6 (2, 4, 6, 8, 10)


642/6 (5)


660/6 (150, 250)


670/6 (150)


682/5 (2 x 230 x 190)


812 (300, 500, 1000)


820 (22)


750 (407)


701 (0.05 - 1 x 13)


192/2HX (6, 8, 10)


6480C8 (1.2 x 6.5 x 41, 1.6 x 8.0 x 41, 2.0 x 12.0 x 41)


6483C8 (PH 2, PH 3)


6484C8 (PH 4)


6489C8 (5, 6)

6492C8 (TX 25, TX 30, TX 40, TX 20)

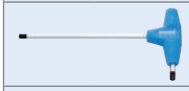

6762.1 (1/2" x 144)

6762.2 (1/2" - 5/16")

192/2PH (PH 2)


192/2PZ (PZ 2)


192/2TX (TX 25, TX 27, TX 30, TX 40)


193HX (2.5, 4, 5, 8)


406/1BI (180)


472/1BI (140)


476/1BI (140)


461/1BI (160)


512/1BI (170)


186BI (21)


238.7/2 (3/8"-1/2")


605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)

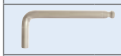

615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100, PH 3 x 150)

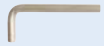
621TBI (TX 27, TX 30, TX 40)


625TBI (PZ 2 x 100)

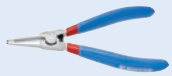
626TBI (PH 2 x 25)

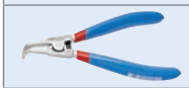

627TBI (1.2 x 6.5 x 25)

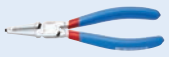

220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

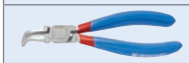

220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)


445/1BI (240)


532PLUS/1DP (180 x 19 - 60)


534PLUS/1DP (180 x 19 - 60)


536PLUS/1DP (180 x 19 - 60)


538PLUS/1DP (180 x 19 - 60)

1000AC

Set scule 21 piese

	№				
604577	1000AC	21	4244	K	822,84


660/6 (200)


812 (300)


406/1VDE (180)


461/1VDE (160)


472/1VDE (160)


478/1VDE (160)


508/1VDE (200)

665/6A (250 x 10)


710P (3)


753W (150)

761HB (200)


385H (4 - 28)

630VDE (0.5 x 3.0 x 140)


603VDETBI (0.4 x 2.5 x 75, 0.6 x 3.5 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)

613VDETBI (PH1 x 80, PH2 x 100)


605CR (1.0 x 5.5 x 125, 1.2 x 6.5 x 150)

1000AD

Set scule 343 piese

	№				
611884	1000AD	343	7000	K	2.116,31


188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)

188.4/2 (1/4" x 55, 1/4" x 150)

188.3/2 (1/4")

188.1/1ABI (1/4")

188.2/2BI (1/4")

250/1 (200)

812 (300)

750 (407)

193HX (2.5, 4)

193TX (TX 6, TX 9, TX 20, TX 25)

220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

665/6A (250 x 10)

220/3SL (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

426/3A (0.5 - 6 x 220)

423.1R (3, 5)

423.1B (4, 6)

423.1J (5, 8)

423.2R (4)

423.2B (4)

423.3R (1.9)

423.3B (1.9)

423.3J (2.8)

423.5B (5)

423.7R (6.3 x 0.8)

423.7B (6.3 x 0.8)

406/1VDEBI (180)

461/1VDEBI (160)

466/1VDEBI (180)

478/1VDEBI (160)

508/1VDEBI (200)

512/1VDEBI (200)

580/1VDEBI (170)

710P (5)

630VDE (0.5 x 3.0 x 140)

603VDETBI (0.5 x 3.0 x 100, 0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

613VDETBI (PH2 x 100, PH3 x 150)

385H (4 - 28)

1000B

Set scule 207 piese

	№				
608141	1000B	198	48000	K	8.491,82

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)

215/2 (10 x 11, 12 x 13)

238.1/1FBI (3/8")

238.4/2 (3/8" x 45, 3/8" x 75)

186.4/2 (21, 19, 16)

212/2 (17, 19)

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

190.6/2 (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)

190.3/1 (1/2")

190.1/1ABI (1/2")

190.2/1BI (1/2")

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)

188.4/2 (1/4" x 55, 1/4" x 150)

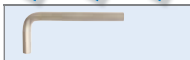
188.3/2 (1/4")

188.1/1ABI (1/4")

188.2/2BI (1/4")

250/1 (200)

206/2 (220 x 60 x 140)


220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)


481/6 (1.1/2")


430/3 (175, 250)


431/2 (325)


563R/7PR (280)


631 (6 - 12)

640/6 (2, 3, 5, 6, 8, 10)


642/6 (5)


660/6 (200, 250)


670/6 (150)

300/5 (400)


680/5 (2 x 230 x 190)


681/5 (300)


682/5 (2 x 230 x 190)


686/5 (16 x 260)


812 (300, 500, 1000)


820 (22)


750 (407)


701 (0.05 - 1 x 13)


125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)


616W (PH 2 x 100)

192/2HX (6, 8)


192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)

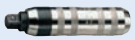

6480C8 (1.2 x 6.5 x 41, 1.6 x 8.0 x 41, 2.0 x 12.0 x 41)


6483C8 (PH 2, PH 3)

6484C8 (PH 4)


6489C8 (5, 6)


6492C8 (TX 25, TX 30, TX 40, TX 20)


6762.1 (1/2" x 144)

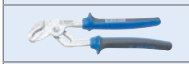
6762.2 (1/2" - 5/16")

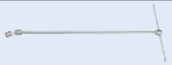

192/2PH (PH 2)


406/1BI (180)


472/1BI (140)


476/1BI (140)


445/1BI (180)


194/1A1 (10, 11, 13, 17, 19)


466/1BI (180)


455/1BI (160)


605TBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)


615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)

626TBI (PH 2 x 25)

627TBI (0.8 x 4.0 x 25)

629TBI (6, 8, 10, 12, 13)

630VDE (0.6 x 3.5 x 180)

532PLUS/1DP (180 x 19 - 60)

534PLUS/1DP (180 x 19 - 60)

536PLUS/1DP (180 x 19 - 60)

538PLUS/1DP (180 x 19 - 60)

617W (PZ 2 x 100)

1000C

Set scule 161 piese

№				
608142	1000C	154	33000	5.630,42

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)

186.4/2 (21)

212/2 (19, 24, 27)

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

190.6/2 (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)

190.3/1 (1/2")

190.1/1ABI (1/2")

190.2/1BI (1/2")

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)

188.4/2 (1/4" x 55, 1/4" x 150)

188.3/2 (1/4")

188.1/1ABI (1/4")

188.2/2BI (1/4")

205/2 (220 x 60 x 140)

220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)

430/3 (175)

431/2 (325)

563R/7PR (280)

631 (6 - 12)

640/6 (2, 3, 4, 5)

642/6 (4)

660/6 (150, 250)

670/6 (150)

812 (300, 500, 1000)

820 (22)

750 (407)

701 (0.05 - 1 x 13)

125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)

405/1BI (160, 200)

506/1BI (140)

472/1BI (140)

476/1BI (140)

461/1BI (160)

445/1BI (180, 240)

512/1BI (200)

562/3P (250)

455/1BI (160)

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)

615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)

629TBI (6, 8, 10)

626TBI (PH 2 x 25)

627TBI (0.8 x 4.0 x 25)

630VDE (0.6 x 3.5 x 180)

532PLUS/1DP (180 x 19 - 60)

534PLUS/1DP (180 x 19 - 60)

536PLUS/1DP (180 x 19 - 60)

538PLUS/1DP (180 x 19 - 60)

238.1/1FBI (3/8")

238.4/2 (3/8" x 45, 3/8" x 75)

1000D

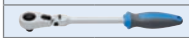
Set scule 149 piese

№					
608143	1000D	148	26500	K	4.975,96


110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)


125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)


180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

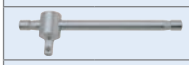

238.1/1FBI (3/8")


238.4/2 (3/8" x 45, 3/8" x 75)


186.4/2 (21)


188.1/1ABI (1/4")


188.2/2BI (1/4")


188.3/2 (1/4")

188.4/2 (1/4" x 150, 1/4" x 55)


188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)


190.1/1ABI (1/2")

190.2/1BI (1/2")


190.3/1 (1/2")

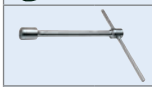
190.4/1 (1/2" x 125, 1/2" x 250)

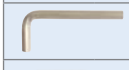
190.6/2 (1/2")

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)


200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)


205/2 (220 x 60 x 140)


212/2 (24)


220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)

300/5 (400)


405/1BI (180)


425/4A (1.5 - 6 x 240)


430/3 (175)

431/2 (325)

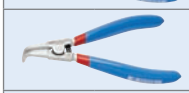

445/1BI (240)

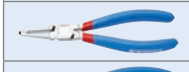

455/1BI (160)

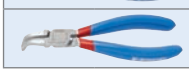

472/1BI (140)


476/1BI (140)


532PLUS/1DP (180 x 19 - 60)


534PLUS/1DP (180 x 19 - 60)


536PLUS/1DP (180 x 19 - 60)


538PLUS/1DP (180 x 19 - 60)


563R/7PR (280)


600TBI (1.0 x 5.5 x 100, 1.2 x 6.5 x 125, 1.2 x 8.0 x 150)


605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)


615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)


626TBI (PH 2 x 25)


627TBI (0.8 x 4.0 x 25)

631 (6 - 12)

640/6 (2, 3, 4, 5, 6)

642/6 (4)

660/6 (200, 250)

670/6 (150)

701 (0.05 - 1 x 13)

750 (407)

812 (300, 500, 1000)

820 (22)

1000E

Set scule 137 piese

№					
608144	1000E	136	24800	K	4.309,45

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)

212/2 (24)

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

190.6/2 (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)

190.3/1 (1/2")

190.1/1ABI (1/2")

190.2/1BI (1/2")

188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)

188.4/2 (1/4" x 55, 1/4" x 150)

188.3/2 (1/4")

188.1/1ABI (1/4")

188.2/2BI (1/4")

205/2 (220 x 60 x 140)

220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)

425/4A (1.5 - 6 x 240)

430/3 (175)

431/2 (325)

572R/7PR (280)

631 (6 - 12)

640/6 (2, 3, 4, 5)

642/6 (5)

660/6 (150, 250)

670/6 (150)

300/5 (400)

812 (300, 500)

125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)

405/1BI (180)

472/1BI (140)

476/1BI (140)

455/1BI (160)

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)

615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150, PH 4 x 200)

626TBI (PH 2 x 25)

627TBI (0.8 x 4.0 x 25)

238.1/1FBI (3/8")

445/1BI (240)

186.4/2 (21)

238.4/2 (3/8" x 45, 3/8" x 75)

1000F

Set scule 130 piese

№					
608145	1000F	130	31500	K	5.222,05

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

185/2 (16 x 145)

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

190.6/2 (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)

190.3/1 (1/2")

190.1/1ABI (1/2")

190.2/1BI (1/2")

250/1 (250)

220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)

425/4A (1.5 - 6 x 240)

430/3 (175)

563R/7PR (280)


631 (6 - 12)

640/6 (3, 4)

641/6 (2, 3, 4, 5, 6)


642/6 (4)


660/6 (150, 200)

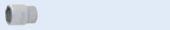

670/6 (150, 200)

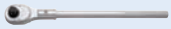

812 (500)

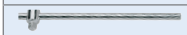

820 (40)


750 (407)

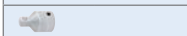

125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)


197/1 6p (22, 24, 27, 30, 32, 36, 38, 41, 46)


197.1/1 (3/4" x 500)


197.3/1 (3/4")

197.4/1 (3/4" x 400, 3/4" x 200)


197.7/1 (3/4" - 1/2")


447/6 (240)


406/1BI (180)


506/1BI (140)


508/1BI (170)


461/1BI (160)


455/1BI (160)

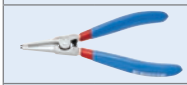

580/1BI (170)

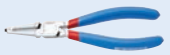

600TBI (1.2 x 6.5 x 125, 1.2 x 8.0 x 150)


605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)


615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)

630VDE (0.6 x 3.5 x 180)


532PLUS/1DP (180 x 19 - 60)


536PLUS/1DP (180 x 19 - 60)

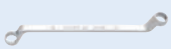
1000G

Set scule 112 piese

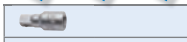
№				
608146	1000G	112	20000	3.578,96

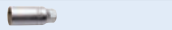
110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)


125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)

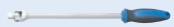

180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)


238.1/1FBI (3/8")


238.4/2 (3/8" x 45, 3/8" x 75)

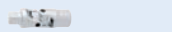

186.4/2 (21)

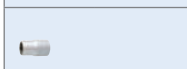

190.1/1ABI (1/2")


190.2/1BI (1/2")


190.3/1 (1/2")


190.4/1 (1/2" x 125, 1/2" x 250)


190.6/2 (1/2")


190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

200/2 (11 x 13, 13 x 17, 14 x 17, 15 x 16, 19 x 22)

220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)

300/5 (400)

406/1BI (180)

425/4A (1.5 - 6 x 240)

430/3 (175)

445/1BI (240)

455/1BI (160)

472/1BI (140)

476/1BI (140)

572R/7PR (280)

605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

615TBI (PH 1 x 80, PH 2 x 100, PH 4 x 200)

626TBI (PH 2 x 25)

627TBI (0.8 x 4.0 x 25)

631 (6 - 12)

640/6 (2, 3, 4)

642/6 (3)

660/6 (150, 200)

670/6 (150)

812 (500)

1000H

Set scule 92 piese

№				
608147	1000H	92	17000	3.110,10

125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)

185/2 (16 x 145)

190.1/1ABI (1/2")

190.2/1BI (1/2")

190.3/1 (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)

190.6/2 (1/2")

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)

250/1 (250)

406/1BI (180)

425/4A (1.5 - 6 x 240)

430/3 (175)

447/6 (240)

455/1BI (160)

461/1BI (160)

506/1BI (140)

508/1BI (170)

532PLUS/1DP (180 x 19 - 60)

536PLUS/1DP (180 x 19 - 60)

563R/7PR (280)

580/1BI (170)

600TBI (1.2 x 6.5 x 125, 1.2 x 8.0 x 150)

605TBI (0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)

630VDE (0.6 x 3.5 x 180)

631 (6 - 12)

640/6 (3, 4)

641/6 (2, 3, 4, 5, 6)

642/6 (4)

660/6 (150, 200)

670/6 (150, 200)

750 (407)

812 (500)

820 (40)

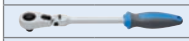
1000K

Set scule 82 piese

№					
608148	1000K	81	20000	K	2.852,78


110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)


180/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)


238.1/1FBI (3/8")


238.4/2 (3/8" x 45, 3/8" x 75)


186.4/2 (21)


212/2 (19)

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

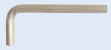

190.1/1ABI (1/2")

190.2/1BI (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)


190.3/1 (1/2")

190.6/2 (1/2")


220/3 (3, 4, 5, 6, 8, 10, 12, 14, 17, 19)


430/3 (175)


572R/7PR (280)

300/5 (400)

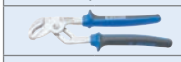

405/1BI (160)


506/1BI (140)


472/1BI (140)


476/1BI (140)


455/1BI (160)


445/1BI (240)

605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)


615TBI (PH 2 x 100, PH 3 x 150)


631 (6 - 12)


812 (500)

1000L

Set scule 76 piese

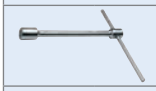
№					
608149	1000L	75	14200	K	2.648,89

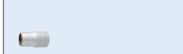

125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)


238.1/1FBI (3/8")

238.4/2 (3/8" x 45, 3/8" x 75)

186.4/2 (21)


212/2 (24)


190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)


190.1/1ABI (1/2")

190.2/1BI (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)


190.3/1 (1/2")

190.6/2 (1/2")


430/3 (175)


563R/7PR (280)


640/6 (1, 3, 5, 8)

642/6 (5)

660/6 (150, 250)

670/6 (150)

300/5 (400)

812 (500)

405/1BI (160)

506/1BI (140)

512/1BI (170)

455/1BI (160)

445/1BI (240)

605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)

626TBI (PH 2 x 25)

627TBI (0.8 x 4.0 x 25)

630VDE (0.6 x 3.5 x 180)

631 (6 - 12)

1000M

Set scule 39 piese

№					
608150	1000M	39	7000	K	1.175,11

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

220/3 (3, 4, 5, 6, 8, 10, 12, 14)

425/4A (1.5 - 6 x 240)

660/6 (150)

812 (500)

405/1BI (180)

506/1BI (140)

472/1BI (140)

476/1BI (140)

478/1BI (160)

461/1BI (160)

512/1BI (200)

605TBI (0.6 x 3.5 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 150)

630VDE (0.5 x 3.0 x 140)

445/1BI (240)

1000N

Set scule 24 piese

№					
608151	1000N	24	3670	K	814,22

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22)

425/4B (1.5 - 6 x 240)

660/6 (150)

812 (500)

405/1BI (180)

506/1BI (140)

476/1BI (140)

478/1BI (160)

461/1BI (160)

605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)

615TBI (PH 0 x 60, PH 1 x 80, PH 2 x 100)

630VDE (0.5 x 3.0 x 140)

445/1BI (240)

1000R

Set scule 132 piese

№					
608868	1000R	132	17000	K	3.487,00

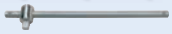
110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

125/2 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22)

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32)

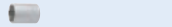
190.6/2 (1/2")

190.4/1 (1/2" x 125, 1/2" x 250)

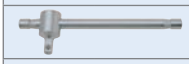

190.3/1 (1/2")


190.1/1ABI (1/2")


190.2/1BI (1/2")


188/2 6p (4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 13)

188.4/2 (1/4" x 55, 1/4" x 150)


188.3/2 (1/4")


188.1/1ABI (1/4")


188.2/2BI (1/4")


430/3 (250)


631 (6 - 12)

641/6 (2, 3, 5, 6, 8)

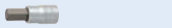
642/6 (5)

660/6 (150, 200)

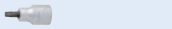
670/6 (150, 200)


812 (300, 500)


820 (32)

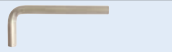

192/2HX (6, 8)

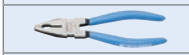
192/2PH (PH 2)


192/2TX (TX 20, TX 25, TX 27, TX 30, TX 40, TX 45, TX 50, TX 55, TX 60)

188.8 (1/4")

188.6/2 (1/4")

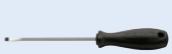

220/3 (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)


406/4P (180)


466/4P (180)


508/4P (170)

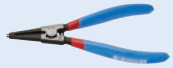

512/4P (170)

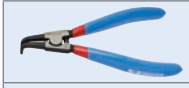

605CR (0.4 x 2.5 x 75, 0.5 x 3.0 x 80, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 8.0 x 175, 1.2 x 6.5 x 150)

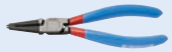

615CR (PH 1 x 80, PH 2 x 100)

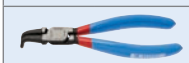

621CR (TX 15, TX 20, TX 25, TX 30)


629CR (6, 8, 12, 13)


532PLUS/4DP (180 x 19 - 60)


534PLUS/4DP (180 x 19 - 60)


536PLUS/4DP (180 x 19 - 60)


538PLUS/4DP (180 x 19 - 60)


445/4P (240)

1000S

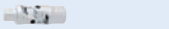
Set scule 51 piese

№					
609329	1000S	51	11300	K	1.533,66


125/1 (6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24)

190/1 6p (13, 17, 19, 22, 24)


190.1/1ABI (1/2")


190.6/2 (1/2")

190.4/1 (1/2" x 125)

250/1 (200)

812 (500)

220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

406/1BI (180)

508/1BI (200)

461/1BI (160)

512/1BI (200)

605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150)

615TBI (PH 1 x 80, PH 2 x 100)

625TBI (PZ 2 x 100)

710P (2)

626TBI (PH 2 x 25)

627TBI (1.2 x 6.5 x 25)

445/1BI (240)

1000T

Set scule 52 piese

№					
609330	1000T	52	9430	K	2.058,94

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

250/1 (200)

641/6 (5)

660/6 (150)

812 (300)

820 (32)

817 (1000)

750 (407)

425/4AB (1.5 - 6 x 240)

665/6A (250 x 10)

220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

406/1VDEBI (160)

420/1VDEBI (180)

466/1VDEBI (180)

478/1VDEBI (160)

508/1VDEBI (170)

512/1VDEBI (170)

580/1VDEBI (230)

447/1VDEBI (240)

710P (3)

760H1/2S (250)

761H1/2S (250)

630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180)

603VDETBI (0.4 x 2.5 x 75, 0.5 x 3.0 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

613VDETBI (PH0 x 60, PH1 x 80, PH2 x 100)

1000V

Set scule 49 piese

№					
609331	1000V	49	13335	K	2.461,62

110/1 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22, 21 x 23, 24 x 26, 25 x 28, 27 x 32)

220/3S (1.5, 2, 2.5, 3, 4, 5, 6, 8, 10)

250/1 (250)

355/6

360/6 (3 - 32)

363 (4 - 36)

406/1BI (180)

430/3 (250)

445/1BI (240)

461/1BI (160)

480/6 (1.1/2")

481/6 (1/2")

482/6 (1.1/2")

531/4 (224)


572R/7PR (280)


605TBI (0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)


615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)


630VDE (0.6 x 3.5 x 180)


660/6 (250)


670/6 (250)


710P (3)


750 (407)


761H1/2S (250)


812 (500)


820 (32)

1001F1

Set de scule pentru pompieri, mici

№					
621497	1001F1	10	19400	K	1.407,87

300/6E (4)


406/1BI (180)

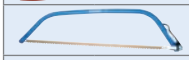

596/6A (750)

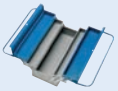
605TBI (1.0 x 5.5 x 125, 1.6 x 10.0 x 200)


812 (500)


817 (2000)


1310 (800)


755 (762)


915/5 (560 x 210 x 225)

1001F2

Set scule pentru pompieri, mare

№					
621498	1001F2	13	33000	K	1.925,04


406/1BI (180)

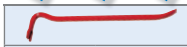

596/6A (750)


605TBI (1.6 x 10.0 x 200, 1.0 x 5.5 x 125)

660/6A (300)


812 (500)


817 (2000)


300/6B (600)


300/6E (4, 12)


755 (914)


1310 (800)


915/5 (560 x 210 x 225)

1001F3

Set de scule in dulap, pentru intretinere

№					
621499	1001F3	79	31600	K	4.151,40


125/2CB


190BI6P23


220/3LPH


250/1 (250)


406/1BI (180)


447/1BI (240)


466/1BI (180)


482/6 (1/2")


508/1BI (200)

512/1BI (200)

514/1BI (160)

605TBI (0.8 x 4.0 x 150, 1.0 x 5.5 x 150, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)

626TBI (PH 2 x 25)

627TBI (1.0 x 5.5 x 25)

630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180)

641/6 (3, 4, 5, 6)

660/6 (175, 200, 250)

750 (407)

812 (500)

948E3S (500 x 300 x 900)

1001F4

Set de scule pentru pompieri, in carcasa electrica

№					
621500	1001F4	10 - 15 / 16	6300	K	1.690,44

110/2VDEDP (10, 11, 12, 13, 14, 15)

466/1VDEBI (200)

508/1VDEBI (200)

603VDETBI (0.6 x 3.5 x 100, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)

623VDETBI (PZ1 x 80, PZ2 x 100, PZ3 x 150)

970U5 (460)

1001F5

Set de scule in carucior de scule, pentru intretinere - mic

№					
621501	1001F5	93	52500	K	5.632,13

120/2CT

180/1CT

188BI

190BI6P23

220/3LPH

250/1 (300)

406/1VDEBI (200)

447/1BI (240)

466/1BI (180)

478/1BI (160)

481/6 (1.1/2")

508/1BI (170)

512/1BI (170)

530/4 (200)

531/4 (250)


556B (160)


572R/7PR (280)


605TBI (0.8 x 4.0 x 150, 1.0 x 5.5 x 150, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175, 1.6 x 10.0 x 200)


615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)

630VDE (0.6 x 3.5 x 180)


631 (6 - 24)


710P (5)


812 (500)


817 (1500)

300/5 (400)


750 (407)


940ECO (700)

1001F6

Set de scule in carucior de scule, pentru intretinere - mare

№					
621502	1001F6	161	65700	K	6.739,30


447/1BI (240)


481/6 (1.1/2")


556B (160)

630VDE (0.5 x 3.0 x 140, 0.6 x 3.5 x 180)


631 (6 - 24)


710P (5)


812 (500, 800)


817 (1500)


530/4 (200)


572R/7PR (280)


1250 (500)


964/1SOS


964/2ASOS


964/3SOS


964/5SOS


964/6SOS


964/9SOS


964/22SOS


940E1 (720)

1001F7

Set de scule in cutie de scule, pentru intretinere

№					
621503	1001F7	101	26800	K	3.775,07


603VDE (0.4 x 2.5 x 75)


605TBI (0.8 x 4.0 x 100, 1.2 x 6.5 x 150, 1.2 x 8.0 x 175)


615TBI (PH 1 x 80, PH 2 x 100, PH 3 x 150)


637SL (1.2 x 6.5)


637PH (PH 1 - PH 2)


220/3SLPH


220/7TXPH


125/2CB


190BI6P23

250/1 (200)

812A (500)

641/6 (4, 3, 5, 8)

530/4P (250)

461/1BI (160)

405/1BI (160)

508/1BI (200)

430/3 (250)

447/6 (240)

482/6 (1.1/2")

750 (407)

300/6B (500)

660/6HS (250)

556B (160)

710P (3, 5)

914/5 (460 x 210 x 225)

630VDE (0.6 x 3.5 x 180)

660/6AHS (300)

670/6AHS (350)

710W (2)

812 (500, 1000)

1011A

Set de scule de mana în suport SOS

№					
621397	1011A	329	43200	K	10.713,43

964/28SOS

964/29SOS

964/30SOS

964/31SOS

964/32SOS

964/33SOS

964/34SOS

1011B

Set de scule de mana în suport SOS

№					
621398	1011B	193	23200	K	5.164,68

964/32SOS

964/35SOS

964/36SOS

964/37SOS

902/1

Set scule 20 piese in husa de piele artificiala



	№				
601967	902/1	19	3592	T	608,96

110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19, 20 x 22), **185/2** (21 x 115), **212/2** (19), **205/2** (220 x 60 x 140), **220/3** (12), **631** (6 - 12), **812** (300), **406/4P** (160), **605NI** (0.8 x 4.0 x 100, 1.2 x 6.5 x 150), **615NI** (PH 2 x 100), **445/4P** (240)

902/2

Set scule 14 piese in husa de piele artificiala



	№				
601968	902/2	14	1624	T	342,63

110/2 (6 x 7, 8 x 9, 10 x 11, 12 x 13, 14 x 15, 16 x 17, 18 x 19), **185/2** (21 x 115), **631** (6 - 12), **406/4P** (160), **812** (200), **605NI** (0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **615NI** (PH 2 x 100)

905BI

Set de scule BI in husa tip mapa



	№				
620105	905BI	13	1901	T	507,10

406/1BI (160), **461/1BI** (160), **478/1BI** (160), **472/1BI** (160), **556A** (160), **753P** (150), **710P** (3), **602TBI** (0.4 x 2.5 x 75, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **615TBI** (PH 1 x 80, PH 2 x 100), **630VDE** (0.5 x 3.0 x 140)

905CR

Set de scule CR in husa tip mapa



	№				
620106	905CR	13	1890	T	425,39

406/4G (180), **461/4G** (160), **478/4G** (160), **472/4G** (160), **556A** (160), **753P** (150), **710P** (3), **602CR** (0.4 x 2.5 x 60, 0.8 x 4.0 x 100, 1.0 x 5.5 x 125), **615CR** (PH 1 x 80, PH 2 x 100), **630VDE** (0.5 x 3.0 x 140)

906BI

Set de scule BI in husa tip mapa



	№				
620107	906BI	6	893	T	260,70

461/1BI (160), **406/1BI** (180), **602TBI** (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), **615TBI** (PH 2 x 100), **630VDE** (0.5 x 3.0 x 140)

906CR

Set de scule CR in husa tip mapa



	№				
620108	906CR	6	872	T	216,83

461/4G (160), **406/4G** (180), **602CR** (0.4 x 2.5 x 75, 0.8 x 4.0 x 100), **615CR** (PH 2 x 100), **630VDE** (0.5 x 3.0 x 140)

910

Set scule 39 husa in husa de piele artificiala



	№				
601998	910	39	8520	F	1.925,88

1000M, 909 (420)

910/1

Set scule 24 piese in husa de piele artificiala



	№				
602547	910/1	24	5225	F	1.371,70

1000N, 909/1 (350)

911N6P21

Set de capete chei tubulare 1/2" în suport SOS



	№				
619470	911N6P21	10 - 32 / 21	2665	F	600,91

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.4/1** (1/2" x 125), **190.6/2** (1/2"), **911N6SOS** (95 x 447 x 30)

911N6SOS

modul SOS pentru capete chei tubulare pentru 911

- *material:spuma polietilena de joasa densitate*



	B	L	H			
622693	95	447	30	26	V	22,44

911N12P21

Set de capete chei tubulare 1/2" în suport SOS



	Nº				
619471	911N12P21	10 - 32 / 21	2500	F	600,91

190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.4/1** (1/2" x 125), **190.6/2** (1/2"), **911N12SOS** (95 x 447 x 30)

911N12SOS

modul SOS de capete chei tubulare 12 laturi pentru 911

- *material:spuma polietilena de joasa densitate*



	B	L	H			
622698	95	447	30	26	V	22,44

912N6P21

Capete chei tubulare 1/2" in suport de plastic 912N



	Nº				
619472	912N6P21	10 - 32 / 21	2750	F	604,34

190/1 6p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.4/1** (1/2" x 125), **190.6/2** (1/2"), **912N6SOS** (95 x 547 x 30)

912N6SOS

modul SOS pentru capete chei tubulare pentru 912

- *material:spuma polietilena de joasa densitate*



	B	L	H			
622695	95	547	30	27	V	25,87

912N12P21

Capete chei tubulare 1/2" in suport de plastic 912N



	Nº				
619473	912N12P21	10 - 32 / 21	2500	F	604,34

190/1 12p (10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32), **190.1/1ABI** (1/2"), **190.4/1** (1/2" x 125), **190.6/2** (1/2"), **912N12SOS** (95 x 547 x 30)

912N12SOS

modul SOS de capete chei tubulare 12 laturi pentru 912

- *material:spuma polietilena de joasa densitate*



	B	L	H			
622699	95	547	30	27	V	25,87

930

Set scule 82 piese cu cutie metalica 912/5



	Nº				
601996	930	81	22000	K	3.108,03

1000K, 912/5 (560 x 210 x 225)

931

Set scule 112 piese cu cutie metalica 912/5

	Nº				
601995	931	112	26500	K	3.834,20

1000G, 912/5 (560 x 210 x 225)

932

Set scule 137 piese cu cutie de scule 912/5



	Nº				
601994	932	136	29000	K	4.564,65

1000E, 912/5 (560 x 210 x 225)

971/1BI

Set scule in geanta de scule



	Nº				
608540	971/1BI	51	10000	F	2.567,75

1000S, 969S (485 x 380 x 175), **969.5S**

971/2VDE

Set scule VDE in geanta de scule



	Nº				
608541	971/2VDE	52	15800	F	3.093,02

1000T, 969S (485 x 380 x 175), **969.5S**

971/3VDE

Set scule in geanta de scule



	Nº				
612548	971/3VDE	343	10969	F	3.150,40

1000AD, 969S (485 x 380 x 175), **969.5S**

971/4

Set scule cu geanta din ABS



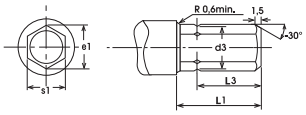
	Nº				
604575	971/4	21	14000	F	1.856,93

1000AC, 969S (485 x 380 x 175), **969.5S**

C 6.3

s1	s1	d3	e1	e1	L1	L3	r	Inch
6,350	6,292	6,7	7,18	7,11	11,0	8,2	0,3	1/4"

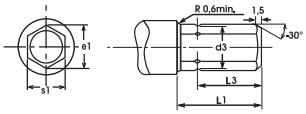




C 8

s1	s1	d3	e1	e1	L1	L3	r	Inch
7,930	7,872	8,2	8,96	8,90	13,5	10,2	0,3	5/16"

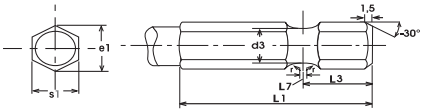




E 6.3

s1	s1	d3	e1	e1	L1	L3	L7	r	Inch
6,350	6,292	4,7	7,18	7,11	25,0	9,5	1,0	2,4	1/4"





SURUBURI PHILLIPS & POZIDRIV

Dimensiune		Moment de torsiune minim		Filet metric: Surub cu cap plat	Filet metric: Surub cu cap semirotund (oval)	Filet metric: Surub cu cap cilindric	Suruburi: Surub cu cap cilindric	Suruburi: Surub cu cap plat	Suruburi: Surub cu cap semirotund (oval)	Suruburi pentru lemn: Surub cu cap cilindric	Suruburi pentru lemn: Surub cu cap rotund	Suruburi pentru lemn: Surub cu cap semirotund (oval)
PHILLIPS				+	+	+	+	+	+	+	+	+
POZIDRIV				+	+	+	+	+	+	+	+	+
		DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
		5263	5263	965	966	7985	7981	7982	7983	7995	7996	7997
		Nm	Nm									
+	+			M	M	M	T	T	T	W	W	W
0	0	1	1	1,6 2	1,6 2	1,6 1,8				2	2	2
1	1	3,5	3,9	2,5 3	2,5 3	2 3	2,2 2,9	2,2 2,9	2,2 2,9	2,5 3	2,5 3	2,5 3
2	2	8,2	10,3	3,5 5	3,5 5	3,5 5	3,5 4,8	3,5 4,8	3,5 4,8	3,5 5	3,5 5	3,5 5
3	3	19,5	32	6	6	6	5,5 6,3	5,5 6,3	5,5 6,3	5,5 7	5,5 7	5,5 7
4	4	38	88,7	8 10	8 10	8 10				8	8	8

INDEX

Surub cu cap plat	Surub cu cap inecat
Surub cu cap semirotund (oval)	Surub cu cap semirotund (oval)
Capac	Surub cu cap semirotund
Surub cu cap cilindric	Surub cu cap cilindric
Set de suruburi	Suruburi autofiletante (fara cap)
Piulite	Piulite hexagonale (blocare)

SURUBURI CU CRESTATURA

Dimensiune	Moment de torsiune minim		Suruburi metrice (inginerie): Surub cu cap plat		Surub cu cap semirotund (oval)		Capac		Surub cu cap cilindric				Set de suruburi		Suruburi autofiletante: Surub cu cap plat		Surub cu cap semirotund (oval)		Surub cu cap cilindric		Wood screws: Surub cu cap plat	Surub cu cap semirotund (oval)	Surub cu cap rotund
	DIN	DIN	ISO	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	ISO	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
	5263	5263	2009	963	2010	964	1207	84	1580	85	920	921	4766 7435	417 427	1482	7972	1483	7973	1481	7971	97	95	96
	Nm	Nm																					
			M	M	M	M	M	M	M	M	M	M	M	M	T	T	T	T	T	T	W	W	W
0,4 x 2,5	0,40		1,6	1,6	1,6	1,6		1,6	1,6		2,5	1,6	3,5	3,5								1,6	2
	-							1,8															
0,5 x 3	0,7	0,8	2	2	2	2		2	2		3-3,5	2	4	4	2,2	2,2	2,2		2,2		2	2	
0,5 x 4	-	1,1							2		3,5	2							2,2				
0,6 x 3,5	1,3	1,4	2,5	2,5	2,5	2,5		2,5	2,5		4	2,5						2,2		2,2	2,5	2,5	2,5
0,6 x 4,5	-	1,8							2,5		4	2,5								2,2			2,5
0,8 x 4	2,6	2,9	3	3	3	3			3	3	5	3	5	5	2,9	2,9	2,9		2,9	2,9	3	3	3
				3,5		3,5						3,5	6	6							3,5	3,5	3,5
0,8 x 5,5	-	3,9		3,5		3,5		3	3	3	5	3						2,9	2,9	2,9			3,5
								3,5				3,5											
1 x 5,5	5,5	6,2	3,5	4	3,5	4	3,5	4	3,5	3,5	6	4			3,5	3,5	3,5		3,5	3,5	4	4	4
																3,9				3,9	4,5	4,5	4,5
1,2 x 6,5	9,4	10,5	4	5	4	5	4	4					8	8	4,2	4,2	4,2	3,5			5	5	5
			5		5										4,8	4,8	4,8	3,9					5,5
1,2 x 8	11,5	12,9					5	5	4	4	8	5						4,2	4,2	4,2	5,5	5,5	
									5	5									4,8	4,8			
1,6 x 8	20,5	22,9	6	6	6	6							10	10	5,5	5,5	5,5	4,8			6	6	6
													12	12	6,3	6,3	6,3						
1,6 x 10	25,6	28,7					6	6	6	6	10	6		14				5,5	5,5	5,5	7	7	
																			6,3	6,3	8		
2 x 12	48,0	53,8	8	8	8	8	8	8	8	8		8		16	8		8	6,3	8			8	7



SURUBELNITA HEXAGONALA

Filet metric

Dimensiune	Moment de torsiune minim	Capac			Surub cu cap plat	Set de suruburi		
		ISO 4762				ISO 4026 4029	ISO 4027	ISO 4028
	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
	911	912	6912	7984	7991	913 916	914	915
	Nm							
⬢		M	M	M	M	M	M	M
0,7	0,08					1,4	1,4	1,4
						1,6	1,6	1,6
						1,8	1,8	1,8
0,9	0,18					2	2	2
1,3	0,53	1,4			2,5	2,5	2,5	2,5
1,5	0,82	1,6-2				3	3	3
2	1,9	2,5		3	3	4	4	4
2,5	3,8	3		4	4	5	5	5
3	6,6	4	4	5	5	6	6	6
4	16	5	5	6	6	8	8	8
5	30	6	6	8	8	10	10	10
6	52	8	8		10	12	12	12
						14	14	14
7	78			10				
8	120	10	10	12	12	16	16	16
10	220	12	12	14	14	18	18	18
						20	20	20
12	370	14	14	16	16	22	22	22
				18	18	24	24	24
14	590	16	16	20	20			
		18	18	22	22			
17	1000	20	20	24	24			
		22	22					
19		24	24					
		27	27					
22		30	30					
24		33	33					
27		36	36					
32		42						



SURUBELNITA HEXAGONALA

Dimensiune	Moment de torsiune minim	Suruburi metrice (inginerie)						Suruburi	
		Suruburi				Piulite		Suruburi autofile-tante	Suruburi pentru lemn
		ISO 4018	ISO 4016	ISO 4014	ISO 4017	ISO 4035 4036		ISO 1479	
	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
	899	558	601	931	933	439	934	7976	571
	Nm								
⬡ SW		M	M	M	M	MO	MO	T	T
3,5	1,64						1,8		
4	2,37			2	2	2	2		
4,5	3,30				2,3				
5	4,44			2,5	2,5	2,5	2,5	2,9	
5,5	5,80			3	3	3	3	3,5	
6	7,40			3,5	3,5	3,5	3,5		
7	11,4			4	4	4	4	3,9	4
								4,2	
8	16,6	5	5	5	5	5	5	4,8	5
								5,5	
9	23								
10	31	6	6	6	6	6	6	6,3	6
11	40,4			7	7		7		
12	51,5								7
13	64,5	8	8	8	8	8	8	8	8
14	79,4		-	-	-	-	-	-	-
15	96,2		-	-	-	-	-	-	-
16	115	10	10	10	10	10			
17	134	10	10	10	10	10	10		10





SURUBURI TORX®

Torx	mm	Moment de torsiune minim Nm	Nm	Filet metric: Capac	Surub cu cap plat	Surub cu cap semiro-tund (oval)	Capac	Surub cu cap semirotund (oval)	Surub cu cap plat	Suruburi autofiletante: Surub cu cap cilindric	Surub cu cap plat	Surub cu cap semirotund (oval)
				✪	✪	✪	✪	✪	✪	✪	✪	✪
				DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN	DIN
				912	963	964	7984	7985	7986	7981	7972	7973
					965	966	6912				7982	7983
				M	M	M	M	M	M	T	T	T
T 6	1,72	0,75	0,91	**	**	**	**	**	**	**	**	**
T 7	1,99	1,4	1,7	**	**	**	**	**	**	**	**	**
T 8	2,31	2,2	2,6	2,5	2,5	2,5		2,5		2,9	2,9	2,9
T 9	2,50	2,8	3,4							2,9		
T 10	2,74	3,7	4,5	3	3	3	3	3	3	3,5	3,5	3,5
T 15	3,27	6,4	7,7		3,5	3,5		3,5		3,9	3,9	3,9
T 20	3,86	10,5	12,7	4	4	4	4	4	4	4,2	4,2	4,2
T 25	4,43	15,9	19,0	5	5	5	5	5	5	4,8	4,8	4,8
T 27	4,99	22,5	26,9	**	**	**	**	**	**	**	**	**
T 30	5,25	31,1	37,4	6	6	6	6	6	6	6,3	6,3	6,3
T 40	6,65	54,1	65,1	8	8	8	8	8	8			
T 45	7,82	86,2	104	**	**	**	**	**	**	**	**	**
T 50	8,83	132	159	10	10	10	10	10	10			

** Suruburi speciale

DIAMETRUL FILETULUI

M	Filet metric
M	Set de suruburi metrice
T	Suruburi autofiletante
W	Suruburi pentru lemn

SIMBOLURI

–	Suruburi cu crestatura	⬡	Cap hexagonal / cap sferic
✚	Suruburi cu cap Phillips	⬡	Cap cheie tubulara hexagonala
✚	Pozidriv	⬡	Cap cheie tubulara cu patrat interior
✪	Torx®	■	Cap cheie tubulara cu patrat exterior
✲	Torx TR®	●	Alezor

Masurarea coeficientilor de duritate

Duritate in conformitate cu				Duritatea otelului N/mm²
Brinell	Vickers	Rockwell		
HBW	HV	HRB	HRC	
192	192	92	14	690
197	197	93	15	710
201	201	94	16	720
207	207	95	17	750
212	212	96	18	760
217	217	97	19	780
223	223	98	20	800
229	229	99	21	820
235	235	100	22	850
241	241	101	23	870
248	248	102	24	890
255	256	103	25	920
262	263	104	26	940
269	270	105	28	970
277	279	106	29	1000
285	287	107	30	1030
293	296	107	31	1040
302	305	108	32	1090
311	316	109	33	1120
321	327	110	34	1160
330	339	111	35	1190
341	350	111	36	1220
352	363	112	37	1270
363	375	113	38	1310
375	389	113	40	1350
388	404	114	41	1400
400	420	114	42	1440
	437	115	44	1490
	454		45	1550
	473		46	1600
	496		47	1660
	520		49	1720
	546		50	1780
	575		52	1850
	608		53	1920
	645		55	2000
	692		57	2080
	735		58	2160
	790		60	2260
	845		62	2350
	930		64	2460

Formate ale hartiei in conformitate cu ISO

A		B		C	
4A0	1682 x 2378	-	-	-	
2A0	1189 x 1682	-	-	-	
A0	841 x 1189	B0	1000 x 1414	C0	917 x 1297
A1	594 x 841	B1	707 x 1000	C1	648 x 917
A2	420 x 594	B2	500 x 707	C2	458 x 648
A3	297 x 420	B3	353 x 500	C3	324 x 458
A4	210 x 297	B4	250 x 353	C4	229 x 324
A5	148 x 210	B5	176 x 250	C5	162 x 229
A6	105 x 148	B6	125 x 176	C6	114 x 162
A7	74 x 105	B7	88 x 125	C7	81 x 114
A8	52 x 74	B8	62 x 88	C8	57 x 81
A9	37 x 52	B9	44 x 62	C9	40 x 57
A10	26 x 37	B10	31 x 44	C10	28 x 40

Grafic de conversie al cuplului

Unitate de masura	Unitate de masura					
	= Ncm	= Nm	= kpcm	= kpm	= lbf.in.	= lbf.ft
Ncm	1	0,01	0,10197	0,00102	0,0885	0,00738
Nm	100	1	10,197	0,10197	8,851	0,7376
kpcm	9,807	0,09807	1	0,01	0,868	0,0723
kpm	980,07	9,807	100	1	86,796	7,233
lbf.in.	11,298	0,11298	1,152	0,01152	1	0,0833
lbf.ft.	135,58	1,3558	13,825	0,13825	12	1

Tabel de conversie al fortei

Unitate de masura	Unitate de masura					
	= N	= kN	= kg	= g	= mg	= lb
N	1	0,001	0,102	102	102000	0,2248
kN	1000	1	102	102000	102000000	224,8
kg	9,807	0,009807	1	1000	1000000	2,205
g	0,009807	0,000009807	0,001	1	1000	0,002205
mg	0,000009807	9,807e-9	0,000001	0,001	1	0,000002205
lb	4,448	0,004448	0,4536	453,6	453600	1

Tabel de conversie al vitezei

Unitate de masura	Unitate de masura			
	= km/s	= m/s	= mph	= mile marine pe ora
km/s	1	1000	2237	1944
m/s	0,001	1	2,237	1,944
mph	0,000447	0,447	1	0,869
mile marine pe ora	0,0005144	0,5144	1,151	1

Tabel de conversie al unghiurilor

Unitate de masura	Unitate de masura		
	= deg	= rad	= grad
deg	1	0,01745	1,111
rad	57,3	1	63,66
grad	0,9	0,01571	1

Grafic de conversie al debitului

Unitate de masura	Unitate de masura		
	l/min	m3/min	cm3/min
l/min	1	0,001	1000
m3/min	1000	1	1000000
cm3/min	0,001	0,000001	1

Tabel de conversie al dimensiunilor								
Unitate de masura	Unitate de masura							
	= inch	= yard	= foot	= km	= m	= mm	= micron	= nm
inch	1	0,02778	0,08333	0,0000254	0,0254	25,4	25400	25400000
yard	36	1	3	0,0009144	0,9144	914,4	914400	914400000
foot	12	0,3333	1	0,0003048	0,3048	304,8	304800	304800000
km	39370	1094	3281	1	1000	1000000	1000000000	1000000000000
m	39,37	1,094	3,281	0,001	1	1000	1000000	1000000000
mm	0,03937	0,001094	0,003281	0,000001	0,001	1	1000	1000000
micron	0,00003937	0,000001094	0,000003281	1e-9	0,000001	0,001	1	1000
nm	3,937e-8	1,094e-9	0,000	1e-12	1e-9	0,000001	0,001	1

Tabel de conversie energetic							
Unitate de masura	Unitate de masura						
	= kJ	= kcal	= cal	= kWh	= Wh	= Ws	= BTU
kJ	1	0,2388	238,8	0,0002778	0,2778	1000	0,9478
kcal	4,187	1	1000	0,001163	1,163	4187	3,968
cal	0,004187	0,001	1	0,000001163	0,001163	4,187	0,003968
kWh	3600	859,8	859800	1	1000	3600000	3412
Wh	3,6	0,8598	859,8	0,001	1	3600	3.412
Ws	0,001	0,0002388	0,2388	2,778e-7	0,0002778	1	0,0009478
BTU	1,055	0,252	252	0,0002931	0,2931	1055	1

Tabel de conversie al presiunii aerului							
Unitate de masura	Unitate de masura						
	= bar	= kPa	= hPa	= milibar	= Pa	= kgf/m2	= psi
bar	1	100	1000	1000	100000	10200	14,5
kPa	0,01	1	10	10	1000	102	0,145
hPa	0,001	0,1	1	1	100	10,2	0,0145
milibar	0,001	0,1	1	1	100	10,2	0,0145
Pa	0,00001	0,001	0,01	0,01	1	0,102	0,000145
kgf/m2	0,00009807	0,009807	0,09807	0,09807	9,807	1	0,001422
psi	0,06895	6,895	68,95	68,95	6895	703,1	1