



SATRA4007GB

7 SZUFLAD

saTra



Fot.1 Centralny zamek

Fot.2 Szuflady na tożyskach

Fot.4 koła, w tym 2 z blokadami

Fot.5 Uchwyt

Fot.5 Mata antypoślizgowa



1. Zentralverriegelung

2. 7 x kuggelgelagerte Schubladen

3. 2 x Lenkrollen mit Roll-Drehbremse (Totalstopp)

4. Führungshenkel

5. Rutschfeste Oberflächen-Gummieinlage



Fig.1 Central lock

Fig.2 Bearing drawer

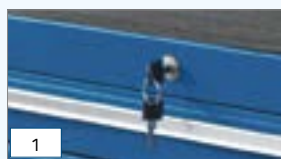
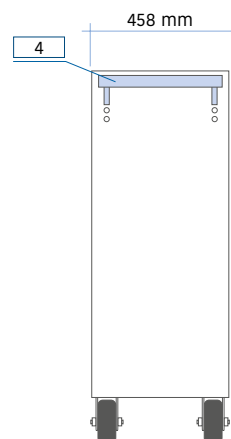
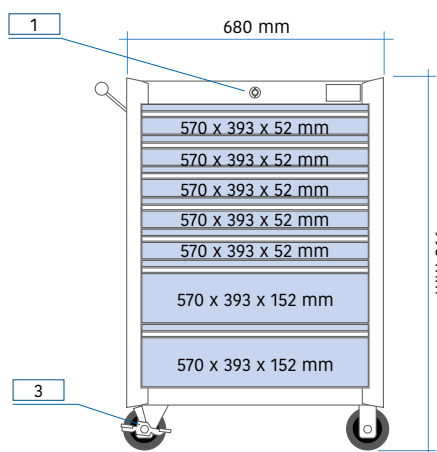
Fig.3 4 wheel and 2 with lock

Fig.4 Handle

Fig.5 Anti-slip mat



	kg	55.5
	kg	30



**A-TRUCK 10 SZUFLAD**

- Fot. 1** Możliwość umieszczenia haczyków po wew. stronie drzwiczek
Fot. 2 Błat drewniany
Fot. 3 Szuflady na prowadnicach
Fot. 4 12 Kuwet
Fot. 5 12 szt. haczyków
Fot. 6 4 obrotowe koła w tym 2 z możliwością blokowania
Fot. 7 Zamek centralny zamykający wszystkie szuflady i zamek drzwiczek
Fot. 8 Uchwyty stołu warsztatowego

1. Haken können an der Innenseite der Tür befestigt werden.
 2. Holz-Arbeitsplatte
 3. Schubladenschienen-Kugelgelagerd
 4. 12 Küvetten
 5. 12 Haken
 6. 4 Räder und 2 mit Fixierung
 7. Zentralverriegelung
 8. Griff

Fig. 1 Hooks can be placed at the inside of the cabinet door

Fig. 2 Wooden Worktop

Fig. 3 Drawer bearing rails

Fig. 4 12 sorters

Fig. 5 12 hooks

Fig. 6 4 wheels and 2 with lock

Fig. 7 Central lock

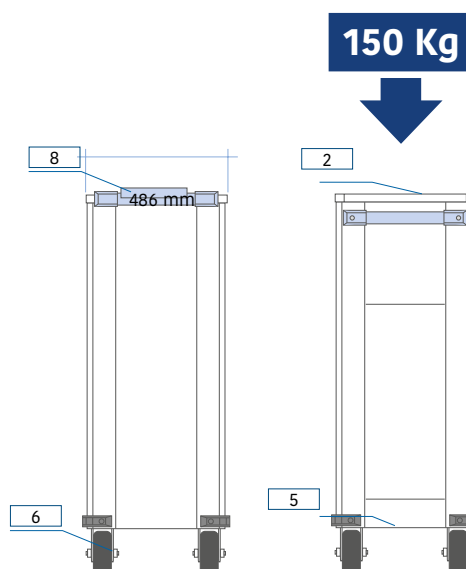
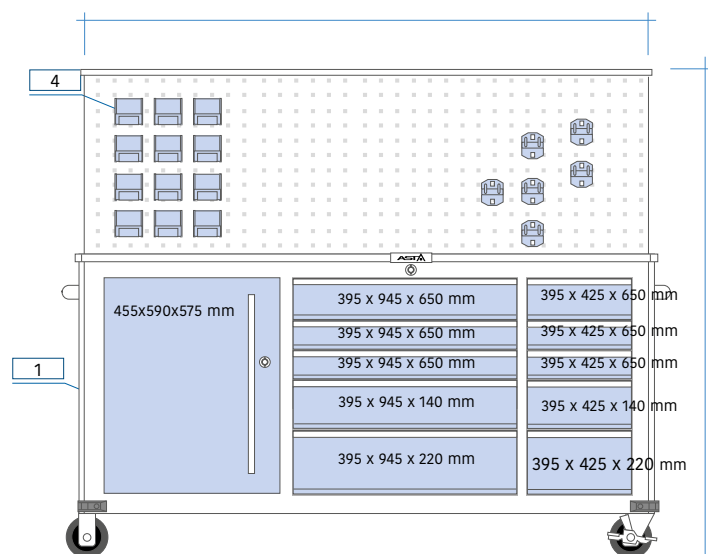
Fig. 8 Handle



kg

145

kg

25-35

1



2



3



4



5



6



7



8



ASTA

WÓZKI WARSZTATOWE



ASTA3607

7 SZUFLAD

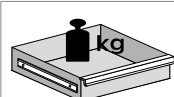
Fot.1 Centralny zamek**Fot.2** 4 Odbojniki zapobiegające obiciu**Fot.3** Blat ze stali nierdzewnej**Fot.4** Uchwyt i dodatkowe pojemniki**Fot.5** Kola z blokadami**Fot.6** Szuflady na szynach z blokadą zapobiegającą przypadkowemu otwieraniu.**1.** Zentralverriegelung**2.** 4 x schwarze Stoßdämpfer an Kanten befestigt**3.** Oberflächenbelastbarkeit von 100 kg**4.** Robuster Traghenkel für leichte Wagenführung und geriffelte**5.** 4 x Rollen davon 2 x Lenkrollen mit

Roll-Drehbremse (Totalstopp)

6. 7 x kugelgelagerte Schubladenführung gegen unbeabsichtigtes Öffnen mit max. 30 kg Belastbarkeit**Fig.1** Central lock**Fig.2** 4 Bumpers**Fig.3** Top with a strenght of 100kg**Fig.4** Handle**Fig.5** 4 wheels and 2 with lock**Fig.6** Drawer rails with lock to prevent accidental opening

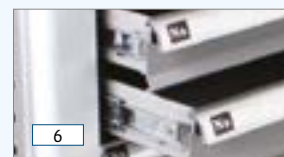
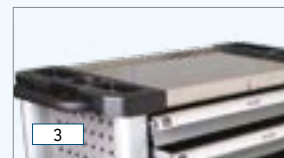
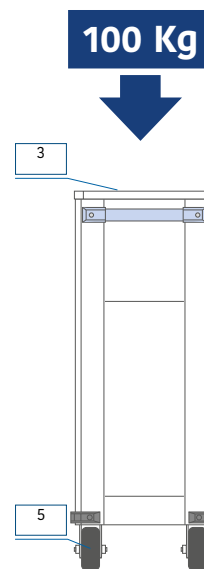
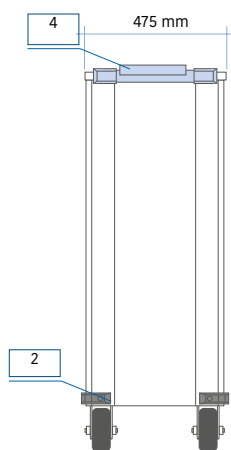
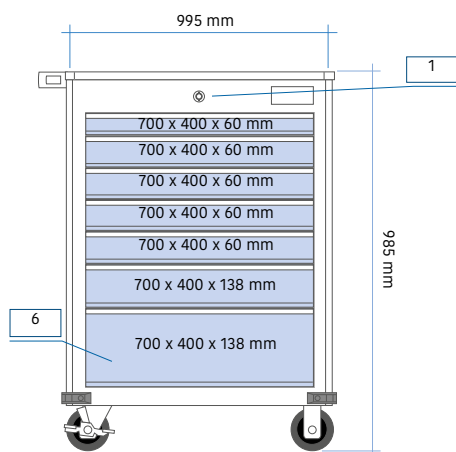
kg

75



kg

30





V-T250E

7 SZUFLAD



ASTA

TOOL CABINETS

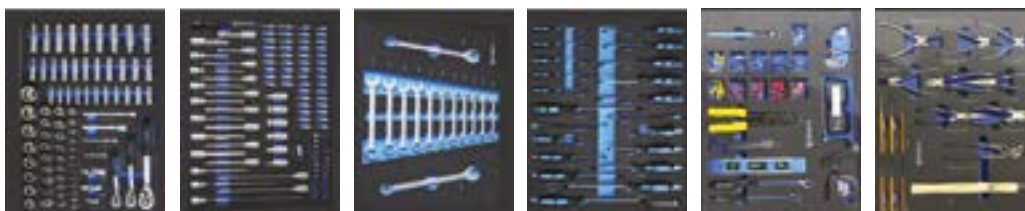
- Fot.1** Centralny zamek
Fot.2 Kola z blokadami
Fot.3 Aluminiowy blat
Fot.4 Uchwyt i dodatkowe pojemniki
Fot.5 Szuflady na szynach z blokadą zapobiegającą przypadkowemu otwieraniu.

1. Zentralverriegelung
 2. 4 x Rollen davon 2 x Lenkrollen mit Roll-Drehbremse (Totalstopp)
 3. Oberflächenbelastbarkeit von 100 kg
 4. Robuster Traghenkel für leichte Wagenführung und geriffelte
 5. 7 x kugelgelagerte Schubladenführung gegen unbeabsichtigtes Öffnen mit max. 30 kg Belastbarkeit

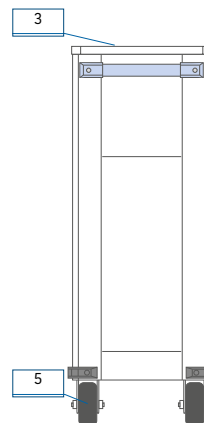
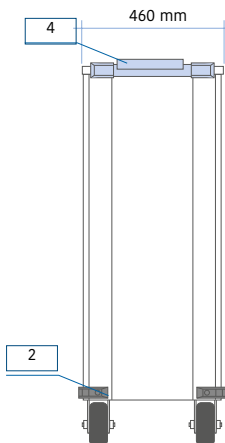
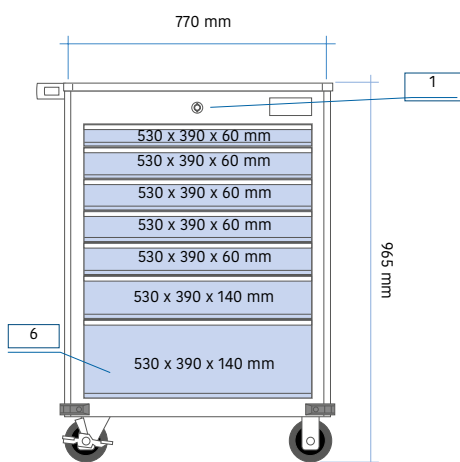
- Fig.1** Central lock
Fig.2 4 wheels and 2 with lock
Fig.3 Top with a strenght of 100kg
Fig.4 Handle
Fig.5 Drawer rails with lock to prevent accidental opening



kg	75
kg	30

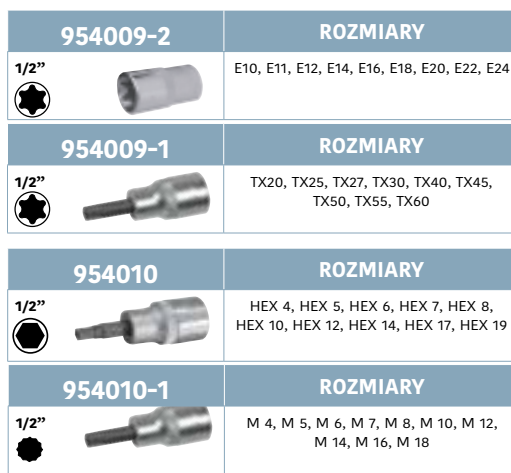


100 Kg





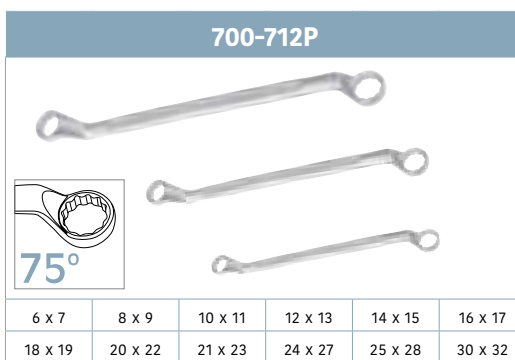
Materiał: **CrV**



Materiał: **CrV**

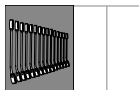


Materiał: **CrV**



Materiał: **CrV**



**SOFT 9****APF-9**

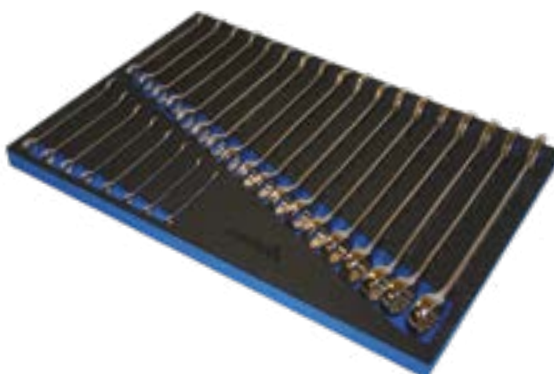
12 szt./pcs./

Materiał: **CrV****A-FRS12MF**

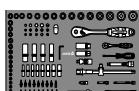
8	9	10	11	12	13
14	15	16	17	18	19

SOFT 10**APF-10**

26 szt./pcs./

Materiał: **CrV****0926**

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		

SOFT 16**APF-16**

94 szt./pcs./

Materiał: **CrV****916094**

- 2 nasadki do świece 1/2": 16, 21 (mm)
- przedłużka giętka 1/4"
- klucze ampułowe: 1.5, 2, 2.5 (mm)
- bity: 33 szt.

916094 | 1/4" + 1/2"

1/4"		6, 7, 8, 9, 10, 11, 12, 13 (mm)
1/2"		14, 15, 17, 19 (mm)
1/4"		4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (mm)
1/2"		10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 (mm)
		1/4" 1/2"
1/4"		50 mm, 100 mm
1/2"		125 mm
		1/4" 1/2"
		1/4" 250mm 1/2" 250mm
		1/2"

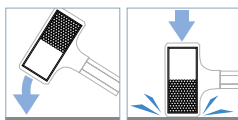


SOFT 17



APF-17

3 szt./pcs./



Młotek bezwładnościowy

A - LHW03



LSW 12 - 35



LST 22 - 45



SOFT 18



APF-18

7 szt./pcs./



LDW 139



LDW 169



LDW 165



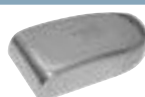
LDW 137



LDP 154



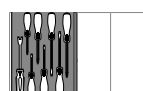
LDP 148



LDP 122



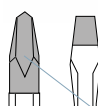
SOFT 19



APF-19

8 szt./pcs./

Materiał: CrV



Końcówki magnetyczne
Magnetic working tip

J3007 G-A



5.5x75

6.5x100

6.5x150

8x150



PHILIPS



1 x 75

2 x 100

3 x 150

J9A01C





SOFT 20



APF-20

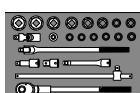
10 szt./pcs./

Materiał: CrV



Nr kat.					
J9505NM	5x125	7.0	125	34	109
J9555NM	5.5x125	7.0	125	34	109
J9605NM	6x125	7.0	125	34	109
J9705NM	7x125	7.0	125	34	109
J9805NM	8x125	7.0	125	34	109
J9905NM	9x125	7.0	125	34	109
J9105NM	10x125	7.0	125	34	109
J9115NM	11x125	8.0	125	34	109
J9125NM	12x125	8.0	125	34	109
J9135NM	13x125	8.0	125	34	109

SOFT 22



APF-22

22 szt./pcs./

Materiał: CrV



ADAPTOR				
SYMBOL	L (mm)	Rozmiar		
	54	3/4"	1/2"	
426400	54	3/4"	1/2"	
ADAPTOR				
SYMBOL	L (mm)	Rozmiar		
	62	3/4"	1"	
4268001	62	3/4"	1"	
ADAPTOR				
SYMBOL	L (mm)	Rozmiar		
	109	3/4"	3/4"	
2761001	109	3/4"	3/4"	

GRZECHOTKA

256243 - 3/4"



L = 500 mm

NASADKI

5266... 3/4"



17 - 46 (mm)

PRZEDŁUŻKI

211604 | 211608
3/4"



211604: L = 100
211608: L = 200

POKRĘTŁA

246147 - 3/4"



L = 480 mm

296150 - 3/4"



L = 500 mm

SOFT 24



APF-24

44 szt./pcs./



	1/2" 250mm
	1/2"

1/2"

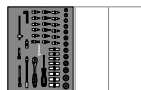
	14, 15, 17, 19 (mm)
	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 (mm)
	1/2"
	125 mm
	1/2"



ASTA

WÓZKI WARSZTATOWE

SOFT 25



APF-25

47 szt./pcs./



200206/282108



1/4"

1/4"



6, 7, 8, 9, 10, 11, 12, 13 (mm)



4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (mm)



1/4"



50 mm, 100 mm

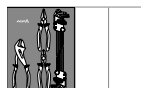


1/4"



1/4" 250mm

SOFT 26



APF-26

22 szt./pcs./



A-710TX3



T10, 15, 20, 25, 27, 30, 40, 45, 50

A-COM180



180 mm

A-DIA180



180 mm

A-GROP 250



250 mm

A-709BP3



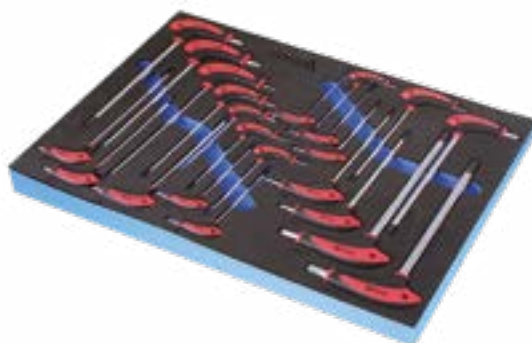
1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 10

SOFT 27



APF-27

22 szt./pcs./



LAL - HEX



HEX 2	HEX 2.5	HEX 3	HEX 4	HEX 5	HEX 6
HEX 7	HEX 8	HEX 10	HEX 12		

LAL - T



T8	T9	T10	T15	T20	T25
T27	T30	T40	T45	T50	T55

SOFT 28



APF-28

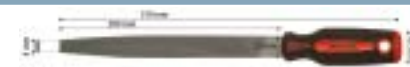
4 szt./pcs./



J9ARF2F



J9AFF2F



J9ATF2F



J9ARR2F



**SOFT 29****APF-29**

41 szt./pcs./



	1/4" x 3/8" 3/8" x 1/4"		L=164
	L=160 mm		L=250

3/8"

3/8"	8, 9, 10, 11, 12, 13, 14 15, 16, 17, 18, 19, 21, 22, 24 (mm)
3/8"	8, 9, 10, 11, 12, 13, 14, 15 16, 17, 18, 19, 21, 22, 24 (mm)
KH2038 - 3/8"	3/8"
KH2400N - 3/8"	3/8"
3/8"	L=75 mm, L=150 mm L=200 mm
	3/8"

SOFT 30**APF-30**

23 szt./pcs./

**TX SET-23**

1/2" E		E12, E14, E16, E18, E20, E22, E24
1/2" TORX		TX30, TX40, TX45, TX50, TX55, TX60
8mm TAMPER TORX		T10, T15, T20, T25, T27, T30, T40, T50, T60
1/2"		1/2" x 8mm ADAPTER

SOFT 31**APF-31**

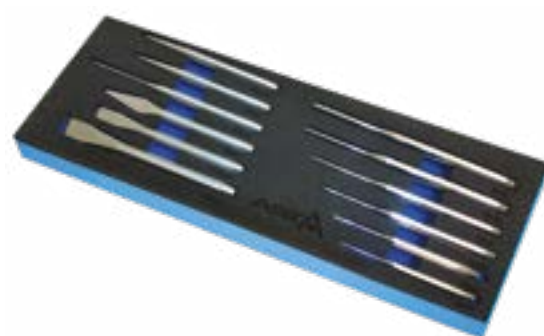
34 szt./pcs./

**TX SET-34**

3/8" E		E4, E5, E6, E7, E8, E10, E11, E12, E14, E16, E18, E20
3/8"		T10, T15, T20, T25, T27, T30, T40, T45, T50, T55, T60
3/8"		T10, T15, T20, T25, T27, T30, T40, T45, T50, T55
		3/8"x5/16" Adapter do bitów

SOFT 32**APF-32**

12 szt./pcs./

Materiał: **Cr-Mo****A-6CCS**

Materiał: Cr - Mo

A-6PPS

Materiał: Cr - Mo



SOFT 33



APF-33

6 szt./pcs./

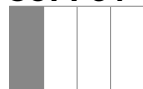


A-6DFS

8x9	16x17	18x19
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SOFT 34



APF-34

12 szt./pcs./



HEX SET-12



1/2"		HEX4, HEX5, HEX6, HEX8, HEX10, HEX12 L = 62
1/2"		HEX4, HEX5, HEX6, HEX8, HEX10, HEX12 L = 138

SOFT 35



APF-35

10 szt./pcs./



PFS



Nr kat.	SIZE (mm)	L (mm)
PFS081	8	98
PFS101	10	98
PFS111	11	103
PFS121	12	106
PFS131	13	182
PFS141	14	115
PFS151	15	115
PFS161	16	119
PFS171	17	127
PFS181	18	131

SOFT 36



APF-36

32 szt./pcs./



S-TI51DR



A-SP18C



A-18CUT



A-5RM19



S-CAL150





SOFT 37



APF-37

37 szt./pcs./



3/4"		
3/4"		256E20 256E24
3/4"		426400P 426800P
3/4"		211604P 211607P 211610P
3/4"		19,21,22,24,26,27,30,32, 33,34,36,38,41,46 L = 138
3/4"		17,19,21,22,24,26,27,28, 30,32,34,36,38,41,46 L = 19 - 46

SOFT 38



APF-38

49 szt./pcs./



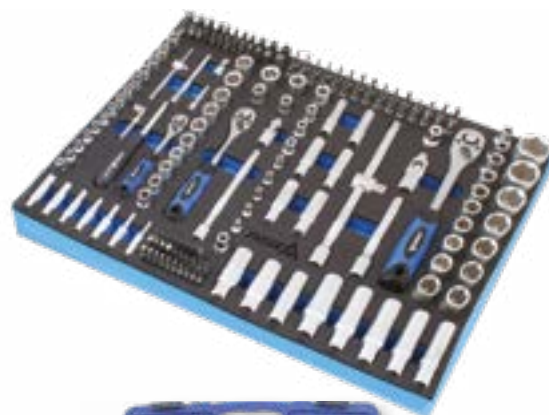
1/2"		
1/2"		10,12,13,14,16,17,18,19,21, 22,23,24,27,30,32 L = 78
1/2"		10,13,16,17,18,19,21,22,23,24,27,30,32 L = 62
1/2"		T30,T40,T45,T50,T55, T60,T70,T80 L = 75
1/2"		H5,H6,H8,H10, H12,H14,H17,H19 L = 75
1/2"		211405P 211410P
1/2"		424300P 426400P 274100P

SOFT 39



APF-39

179 szt./pcs./



916179

1/4"		50, 100 mm	1/4"		4, 5, 6, 7, 8, 9, 10 (mm)
1/2"		125 mm 250 mm	1/2"		16, 17, 18, 19, 22 (mm)
3/8"		150 mm	3/8"		10, 11, 12, 13, 14, 15 (mm)
		1/4" 1/2" 3/8"	1/4"		4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (mm)
		1/2"	1/2"		10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32 (mm)
HEX Typ "L"		1, 1.5, 2, 2.5, 3, 4, 5 mm	3/8"		10, 11, 12, 13, 14, 15, 16, 17, 18, 19 (mm)
		1/4"			1/4" 1/2" 3/8"
1/4"		E4, E5, E6, E7, E8	1/2"		16, 21 mm do świece
3/8"		E10, E11, E12, E14, E16, E18	3/8"		18 mm do świece
1/2"		E20, E24			1/4" - 3/4" 1/2" 5/16" - 3/8" 5/16" 5/16"
					1/4"

5/16"		8, 10, 12	1/4"		4, 5, 5	1/4"		4, 5.5, 6.5, 7
5/16"		3, 4	1/4"		PH1, PH2	1/4"		PH0, PH1, PH2
5/16"		3, 4	1/4"		PZ1, PZ2	1/4"		PZ0, PZ1, PZ2
5/16"		7, 8, 10, 12, 14	1/4"		M5, M6, M8	1/4"		3, 4, 5, 6
5/16"		T40, T45, T50, T55, T60, T70	1/4"		T8, T9, T10, T15, T20, T25, T27, T30	1/4"		T8, T9, T10, T15, T20, T25, T27, T30, T40, T45, T50
5/16"		TH40, TH45, TH50, TH55, TH60, TH70	1/4"		TS10, TS15, TS20, TS25, TS27, TS30, TS40, TS45	1/4"		T8, T9, T10, T15, T20, T25, T27, T30

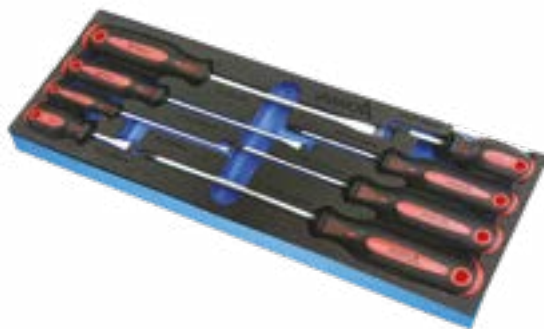


SOFT 40



APF-40

8 szt./pcs./



J9008



- 4 x 100
- 5.5 x 125
- 8 x 150
- 6.5 x 38

- 1 x 75
- 2 x 100
- 3 x 150
- 2 x 38



PHILIPS

SOFT 41



APF-41

12 szt./pcs./



S-S12PC



- 6x38
- 3x37
- 5x75
- 6x100
- 8x150
- 9,5x200

- 2X38
- 0X75
- 1X75
- 2X100
- 3X150
- 4X200



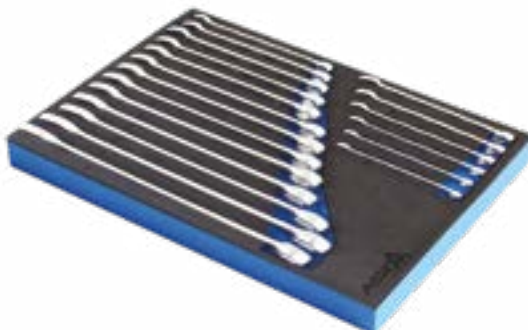
PHILIPS

SOFT 43



APF-43

19 szt./pcs./



400-06245



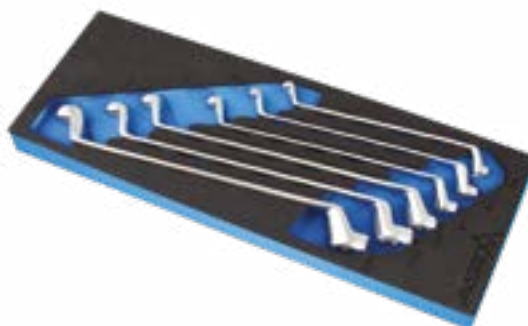
Nr kat.	SIZE (mm)	L (mm)			
400 - 706	6	129	400 - 716	16	207
400 - 707	7	135	400 - 717	17	227
400 - 708	8	142	400 - 718	18	239
400 - 709	9	155	400 - 719	19	250
400 - 710	10	161	400 - 720	20	259
400 - 711	11	168	400 - 721	21	271
400 - 712	12	174	400 - 722	22	295
400 - 713	13	180	400 - 723	23	317
400 - 714	14	193	400 - 724	24	317
400 - 715	15	200	400 - 06245	ZESTAW - SOFT 43	

SOFT 44



APF-44

6 szt./pcs./



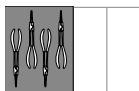
800-E06245



Nr kat.	SIZE (mm)	L (mm)
800 - E06245	6 x 8	168
800 - E06245	7 x 11	187
800 - E06245	10 x 12	205
800 - E06245	14 x 18	245
800 - E06245	16 x 22	255
800 - E06245	20 x 24	265



A-280P

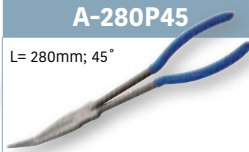


4 szt./pcs./



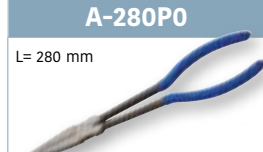
A-280P45

L= 280mm; 45°



A-280P0

L= 280 mm



A-280P90

L= 280mm, 90°



A-280P18

L= 280, HEAD 18 mm



A-OCF3



3 szt./pcs./



A - OCF3

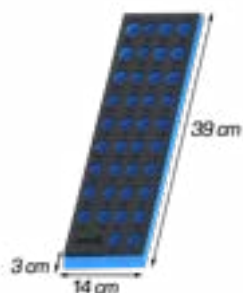
8 x 9mm; L=250mm
10 x 11mm; L=315mm
12 x 13mm; L=355mm



APF 1



SOFT 1



APF 2



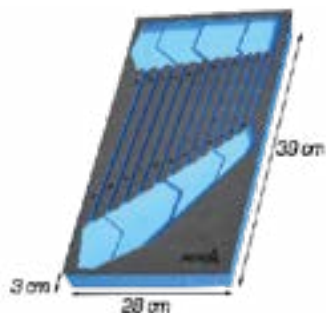
SOFT 2



APF 6



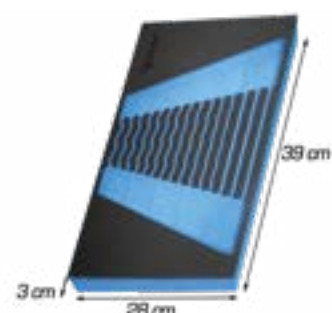
SOFT 6



APF 7/9



SOFT 7/9





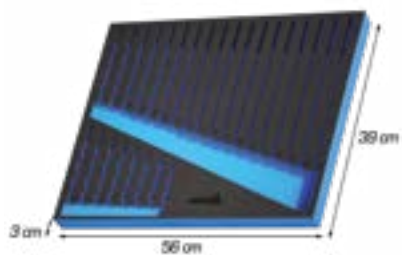
ASTA

WÓZKI WARSZTATOWE

APF 10



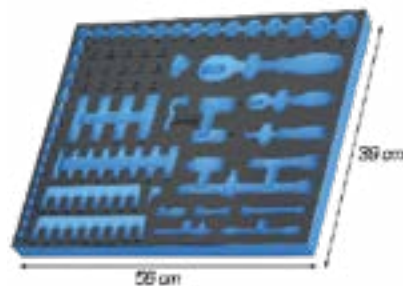
SOFT 10



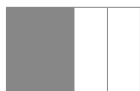
APF 16



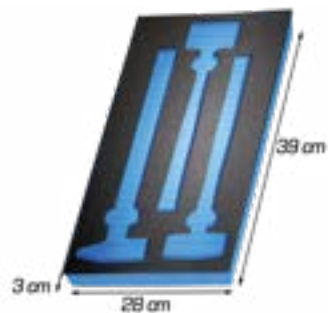
SOFT 16



APF 17



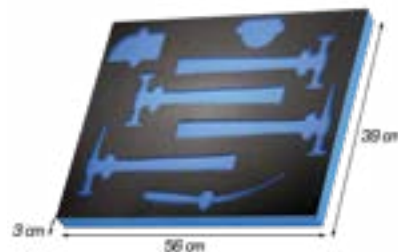
SOFT 17



APF 18



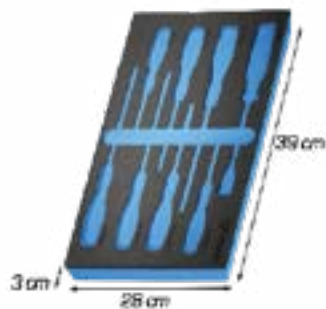
SOFT 18



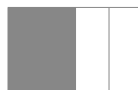
APF 19



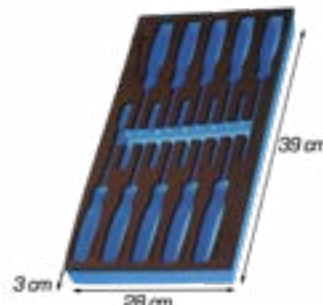
SOFT 19



APF 20



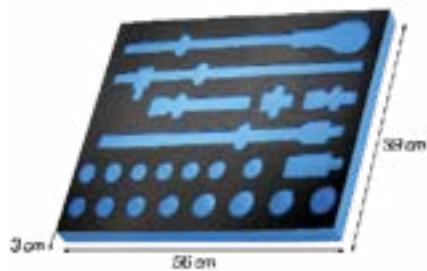
SOFT 20



APF 22



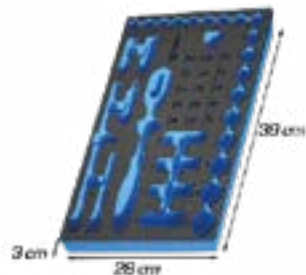
SOFT 22



APF 24



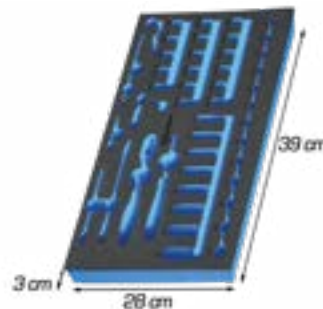
SOFT 24



APF 25



SOFT 25

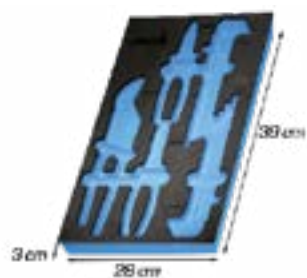




APF 26



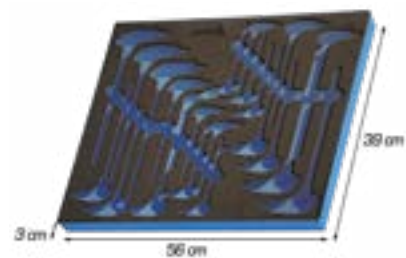
SOFT 26



APF 27



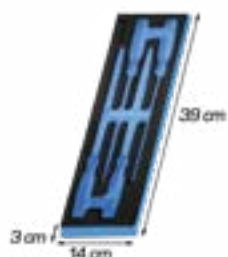
SOFT 27



APF 28



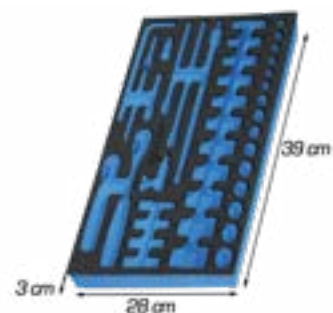
SOFT 28



APF 29



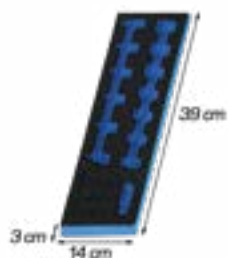
SOFT 29



APF 30



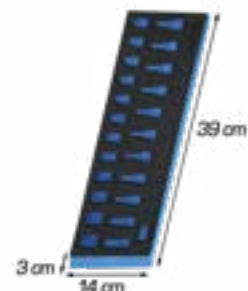
SOFT 30



APF 31



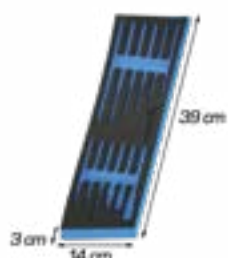
SOFT 31



APF 32



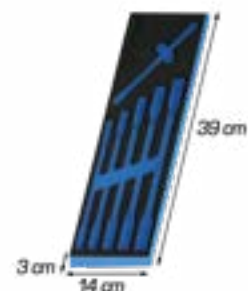
SOFT 32



APF 33



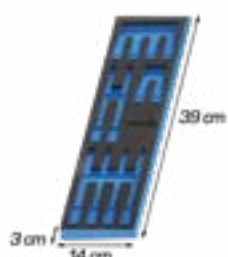
SOFT 33



APF 34



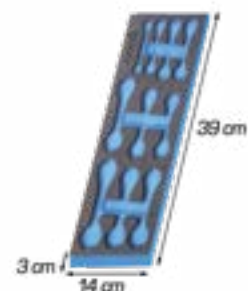
SOFT 34



APF 35



SOFT 35

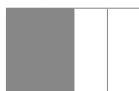




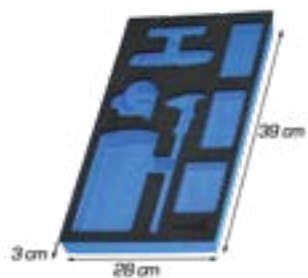
ASTA

NARZĘDZIA RĘCZNE

APF 36



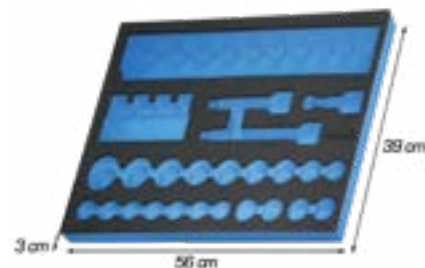
SOFT 36



APF 37



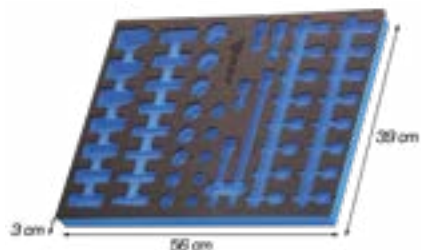
SOFT 37



APF 38



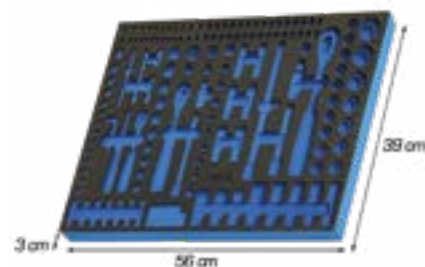
SOFT 38



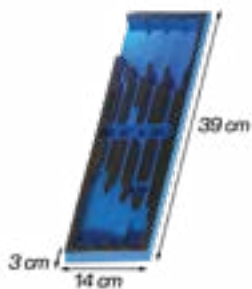
APF 39



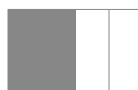
SOFT 39



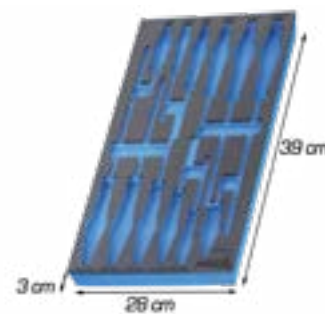
APF 40



APF 41

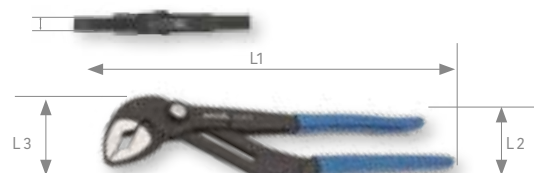


SOFT 41



A-CP12

A-CP16



Nr kat.	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)
A-CP12	311	58	0-104	7.2
A-CP16	410	63	0-86	13.0

A-CP25KU



Nr kat.	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)
A-CP25KU	266	55	0-45	13



ASTA

HAND TOOLS



A-TS08



Szczypce zaciskowe z blokadą 8"
8" Locking Plier Sheet Metal Tool

A-TS10



Szczypce zaciskowe z blokadą 10"
10" Locking Plier Sheet Metal Tool

A-TL06



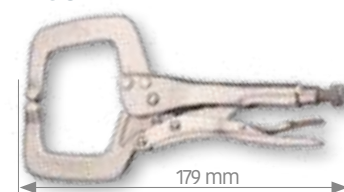
Szczypce zaciskowe z długimi szczękami
i przecinakiem do drutu 6"
6" Locking Plier Long Nose With Wire Cutter

A-TL09



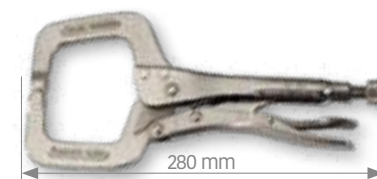
Szczypce zaciskowe z długimi szczękami i przeci-
nakiem do drutu 9"
9" Locking Plier Long Nose With Wire Cutter

A-AT06



Szczypce zaciskowe typu C 6"
6" Locking Plier Locking C Clamps

A-AT11



Szczypce zaciskowe typu C 11"
11" Locking Plier Locking C Clamps

A-AT18



Szczypce zaciskowe typu C 18"
18" Locking Plier Locking C Clamps

A-FC06



Szczypce zaciskowe - płaskie 6"
6" Claw-Grip Plier

A-FD06



Szczypce zaciskowe z blokadą 6"
6" Claw-Grip Plier

A-TH05



Szczypce zaciskowe z blokadą i przecinakiem do
drutu 5"
5" Locking Plier Curved Jaw with Wire Cutter

A-TH06



Szczypce zaciskowe z blokadą i przecinakiem do
drutu 6"
6" Locking Plier Curved Jaw with Wire Cutter

A-TH07



Szczypce zaciskowe z blokadą i przecinakiem do
drutu 7"
7" Locking Plier Curved Jaw with Wire Cutter

A-TW09



Szczypce zaciskowe z blokadą do spawania 9"
9" Locking Plier Heavy Duty Locking Welding
Clamp

A-TW11



Szczypce zaciskowe z blokadą do spawania 11"
11" Locking Plier Heavy Duty Locking Welding
Clamp

A-47SET

Materiał: Cr - Mo

4 PCS



A-4707

A-4717

A-4727

A-4737

2x 180mm(7") Circlip Pliers, Internal straight
2x 180mm(7") Circlip Pliers, Internal bent





ASTA

NARZĘDZIA RĘCZNE

A-MCP241



A-MCP237



175
mm

A-WS25A



170
mm

A-LNPL



A-COM180



180
mm

A-DIA180



180
mm

A-GROP250



250
mm

A-4705



147
mm

6 - 15 mm

A-4707



180
mm

12 - 65 mm

A-4709



240
mm

32 - 80 mm

A-4715



147
mm

6 - 15 mm

A-4717



180
mm

12 - 65 mm

A-4719



240
mm

32 - 80 mm

A-4725



147
mm

6 - 15 mm

A-4727



180
mm

12 - 65 mm

A-4729



240
mm

32 - 80 mm

A-4735



147
mm

6 - 15 mm

A-4737



180
mm

12 - 65 mm

A-4739



240
mm

32 - 80 mm



ASTA

HAND TOOLS

LDW132-40



LDW165



LDW139



LDW132-42



LDW137



LDW169

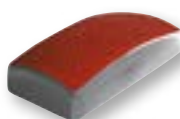


LDP 148



125 x 60 x 30 mm
1,37 kg

LDP 150



120 x 58 x 28 mm
1,16 kg

LDP147



109 x 59 x 17 mm

LDP 159



128 x 58 x 29 mm

LDP 154



83 x 63 x 36 mm
1,08 kg

LDP110



125 x 54 x 44 mm
700 g

LDP 116



90 x 70 x 125 mm
1.3 kg

LDP 115



56 x 56 x 56 mm
730 g

LDP120



259 mm
500 g

LDP 179



840 g

LDP 122



285mm
820 g

LDP119

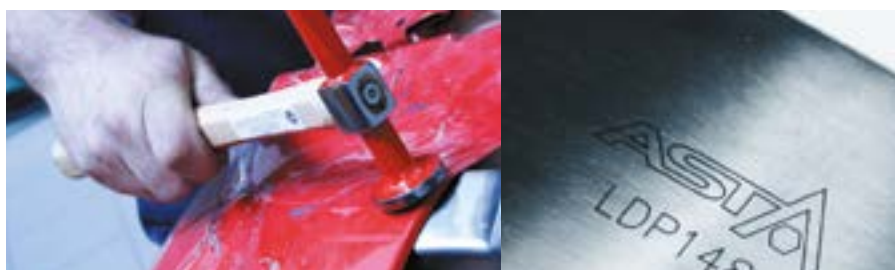


259 mm
500 g

LDP 113



50 mm
700 g





Nr kat.	1/4 in	3/16 in	mm
LA - 0.5 x 3.0/75	0.5	3.0	75
LA - 0.5 x 3.0/150	0.5	3.0	150
LA - 0.8 x 4.0/100	0.8	4.0	100
LA - 1.0 x 5.5/125	1.0	5.5	125
LA - 1.2 x 8.0/150	1.2	8.0	150
LA - 1.6 x 10.0/200	1.6	10.0	200
LA - 1.0 x 5.5/200	1.0	5.5	200
LA - 1.2 x 6.5/150	1.2	6.5	150
LAK - 1.2 x 6.5/100	1.2	6.5	100
LAK - 1.2 x 6.5/150	1.2	6.5	150
LAK - 1.2 x 8.0/150	1.2	8.0	150
LAK - 1.2 x 8.0/200	1.2	8.0	200
LAS - 1.2 x 6.5/38	1.2	6.5	38



Nr kat.	1/4 in	mm
LA -T6	4.0	75
LA -T7	4.0	75
LA -T8	4.0	75
LA -T9	4.0	75
LA -T10	5.0	100
LA -T15	5.0	100
LA -T20	5.0	100
LA -T25	6.0	100
LA -T27	6.0	100
LA -T30	6.0	100
LA -T40	7.0	100



Nr kat.	1/4 in	mm
LA -HEX 1	1.5	86
LA -HEX 2	2.0	89
LA -HEX 3	2.5	89
LA -HEX 3	3.0	81
LA -HEX 4	4.0	97
LA -HEX 5	5.0	109
LA -HEX 6	6.0	137
LA -HEX 8	8.0	163
LA -HEX 10	10.0	185



Nr kat.	1/4 in	mm
LA- PH0/75	3.0	75
LA- PH0/100	3.0	100
LA- PH1/75	5.0	75
LA- PH1/150	5.0	150
LA- PH2/100	6.0	100
LAK- PH2/100	6.0	100
LAK PH3/150	8.0	150
LA- PH3/150	8.0	150
LA- PH4/200	9.5	200
LAS- PH2/38	6.0	38



Nr kat.	1/4 in	mm
LA- PZ0/75	3.0	75
LA- PZ0/100	3.0	100
LA- PZ1/75	5.0	75
LA- PZ1/150	5.0	150
LA- PZ2/100	6.0	100
LA- PZ3/150	8.0	150
LA- PZ4/200	9.5	200
LAK- PZ2/100	6.0	100
LAK- PZ3/150	8.0	150
LAS- PZ2/38	6.0	38



Nr kat.	1/4 in	mm	mm	mm	mm
J9505NM	5x125	7.0	125	34	109
J9555NM	5.5x125	7.0	125	34	109
J9605NM	6x125	7.0	125	34	109
J9705NM	7x125	7.0	125	34	109
J9805NM	8x125	7.0	125	34	109
J9905NM	9x125	7.0	125	34	109
J9105NM	10x125	7.0	125	34	109
J9115NM	11x125	8.0	125	34	109
J9125NM	12x125	8.0	125	34	109
J9135NM	13x125	8.0	125	34	109



J3007G-A

7 PCS

- 5.5 x 75
- 6.5 x 100
- 6.5 x 150
- 8.0 x 150
- 1 x 75
- 2 x 100
- 3 x 150

PHILIPS

J9008

8 PCS

- 4 x 100
- 5.5 x 125
- 8 x 150
- 6.5 x 38
- 1 x 75
- 2 x 100
- 3 x 150
- 2 x 38

PHILIPS

J9007B

7 PCS

- T10 x 100
- T15 x 100
- T20 x 100
- T25 x 100
- T27 x 100
- T30 x 100
- T40 x 100

J9009A

9 PCS

- 1.5 x 86
- 2 x 89
- 2.5 x 99
- 3 x 81
- 4 x 97
- 5 x 109
- 6 x 137
- 8 x 163
- 10 x 185



ASTA

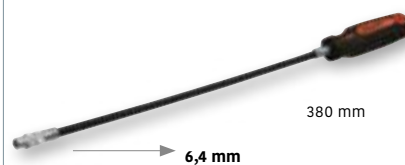
HAND TOOLS



Nr kat.		
LAL - HEX 2	2	110
LAL - HEX 2.5	2.5Z	110
LAL - HEX 3	3	110
LAL - HEX 4	4	110
LAL - HEX 5	5	160
LAL - HEX 6	6	160
LAL - HEX 7	7	160
LAL - HEX 8	8	200
LAL - HEX 10	10	215
LAL - HEX 12	12	215

Nr kat.		
LAL - T8	T8	110
LAL - T9	T9	110
LAL - T10	T10	110
LAL - T15	T15	110
LAL - T20	T20	110
LAL - T25	T25	160
LAL - T27	T27	160
LAL - T30	T30	160
LAL - T40	T40	185
LAL - T45	T45	215
LAL - T50	T50	215
LAL - T55	T55	215

J9A01E



J9A01C



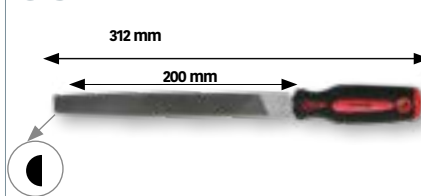
J9ATP21



J9A04A



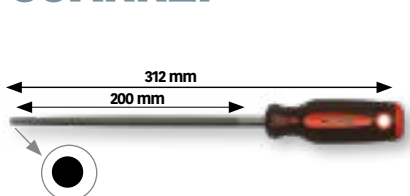
J9ARF2F



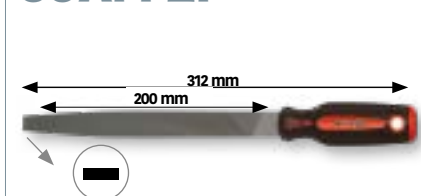
J9ATF2F



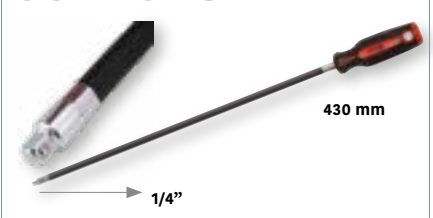
J9ARR2F



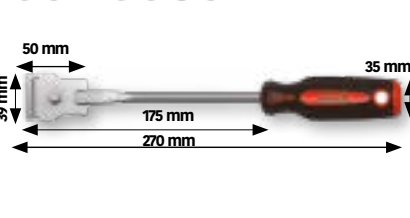
J9AFF2F



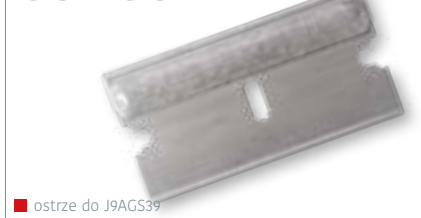
J9AFS43



J9AGS39



J9AGSBD



ostrze do J9AGS39

A-S10PC

Materiał: CR-MO, CR-V

- 6pcs pin punch:

- Ø3x10x180mmL
- Ø4x10x180mmL
- Ø5x10x180mmL
- Ø6x10x180mmL
- Ø7x10x180mmL
- Ø8x10x180mmL



- 1pc center punch:

- Ø4x10x185mmL
- Ø5x10x170mmL

- 2pcs flat chisel:

- Ø16x10x170mmL
- Ø20x14x210mmL

S - H4PBS



- 200mm (8")
- 300mm (12")
- 450mm (18")
- 600mm (24")

S - 4PBS



- 200x10 mm
- 300x15 mm
- 450x20 mm
- 600x20 mm



A-LHW



Nr kat.	HEAD (g)	L (mm)
A-LHW01	100	260
A-LHW02	200	280
A-LHW03	300	300
A-LHW05	500	320
A-LHW10	1000	360
A-LHW15	1500	380
A-LHW20	2000	400

LSW 12



Nr kat.	HEAD (mm)	L (mm)
LSW 12-27	27	265
LSW 12-35	35	300
LSW 12-50	50	350
LZA23431	27	NYLON
LZA23432	27	POLY
LZA23425	35	NYLON
LZA23426	35	POLY
LZA23416	50	NYLON
LZA23421	50	POLY

LST 22



Nr kat.	HEAD (g)	L (mm)
LST 22-45	520	286
LST 22-55	1050	350

A - HHD55



Nr kat.	HEAD (mm)	L (mm)
A - HHD55	196	913

A-SP18C



10 szt/pcs

A-18CUT

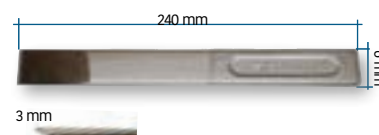
Metalowa obudowa



zawiera 1 szt z zestawu A-SP18C

A-FC240

Materiał: Cr - Mo



S - B18SK4

Thickness: 0.5mm

Triple Cutting Edges



Blade 18 x 100 mm SK4

10 szt/pcs

S-KN18



12SZT OPAK

A-5RM19

5 metrów



A-6CCS

Materiał: Cr - Mo



Nr kat.	a	Uchwyt	L (mm)
A - 6CCS/1	5	10	130
A - 6CCS/2	3	10	120
A - 6CCS/3	4	10	120
A - 6CCS/4	12	10	130
A - 6CCS/5	4	10	150
A - 6CCS/6	18	12	150

A-6PPS

Materiał: Cr - Mo



Nr kat.	Rozmiar	Uchwyt	L (mm)
A - 6PPS/2	2	8	115
A - 6PPS/3	3	8	125
A - 6PPS/4	4	10	150
A - 6PPS/5	5	10	165
A - 6PPS/6	6	12	180
A - 6PPS/8	8	12	180

A-S6PP

Materiał: Cr - Mo, Cr-v



Rozmiar	Uchwyt	L (mm)
10	Ø3	180
10	Ø4	180
10	Ø5	180
10	Ø6	180
10	Ø7	180
10	Ø8	180

A-2MT10



2 metry

A-600CT



600 szt/pcs

KOLOR	DŁUGOŚĆ MM	SZEROKOŚĆ MM	ILOŚĆ/SZT.
żółte	98	2	100
niebieskie	100	2,5	100
zielone	100	2,5	100
czerwone	100	2,5	100
białe krótkie	149	3,5	100
białe długie	199	4,5	50
czarne	199	4,5	50

OPASKI ZACISKOWE/ KABELBINDER/ CABLE TIES

A-CT52BU



A-CT52R



A-CT52Y



A-CT52W



A-CT53W



A-CT52BK



A-CT53BU



A-CT53R



A-CT53Y



A-CT53BK



Nr Kat	KOLOR	ROZMIAR	ILOŚĆ
A-CT52BU	BLUE	5 x 250 mm	50
A-CT52R	RED	5 x 250 mm	50
A-CT52Y	YELLOW	5 x 250 mm	50
A-CT52W	WHITE	5 x 250 mm	50
A-CT52BK	BLACK	5 x 250 mm	50
A-CT53BU	BLUE	5 x 300 mm	50
A-CT53R	RED	5 x 300 mm	50
A-CT53Y	YELLOW	5 x 300 mm	50
A-CT53W	WHITE	5 x 300 mm	50
A-CT53BK	BLACK	5 x 300 mm	50

A-BSET31

**ZESTAW BITÓW +
HOLDER MAGNETYCZNY**
składa się z 31 elementów
1 - 60 mmL 1/4" adaptor
30 - 1/4"x25mmL stal S2



Rozmiary	
	#1,#2X3,#3X2
	2, 2.5, 3, 4, 5, 6
	T10,T15,T20,T25,T30,T40
	3, 4, 4.5, 5, 5.5, 6, 6.5
	#1,#2X3,#3X2

Display Box
przy zakupie 18 sztuk



ASTA

HAND TOOLS



ASTA

NARZĘDZIA RĘCZNE



HEX



SIZE	Nr kat.	L (mm)	L1 (mm)	M (mm)
H7	A - B830H07	30	10	8
H8	A - B830H08	30	14	8
H10	A - B830H10	30	14	8
H12	A - B830H12	30	14	8
H14	A - B830H14	30	14	8



TORX



SIZE	Nr kat.	L (mm)	L1 (mm)	M (mm)
T40	A - B830T40	30	13	8
T45	A - B830T45	30	13	8
T50	A - B830T50	30	13	8
T55	A - B830T55	30	13	8
T60	A - B830T60	30	13	8
T70	A - B830T70	30	15	8



PHILIPS



SIZE	Nr kat.	L (mm)	M
PH3	A - B830PH3	30	8
PH4	A - B830PH4	30	8



POZIDRIVE



SIZE	Nr kat.	L (mm)	M
PZ3	A - B830PZ3	30	8
PZ4	A - B830PZ4	30	8



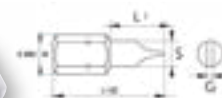
TORX



SIZE	Nr kat.	L (mm)	M (mm)	L1 (mm)	øD
TH10	A - B830TH10	30	8	14	tamper
TH15	A - B830TH15	30	8	14	tamper
TH20	A - B830TH20	30	8	14	tamper
TH25	A - B830TH25	30	8	14	tamper
TH27	A - B830TH27	30	8	14	tamper
TH30	A - B830TH30	30	8	14	tamper
TH40	A - B830TH40	30	8	14	tamper
TH45	A - B830TH45	30	8	14	tamper
TH50	A - B830TH50	30	8	14	tamper
TH55	A - B830TH55	30	8	15	tamper
TH60	A - B830TH60	30	8	15	tamper
TH70	A - B830TH70	30	8	15	tamper



SLOTTED



SIZE	Nr kat.	L (mm)	L1 (mm)	G
SL8	A - B830SL08	30	8	0.8x0.1
SL10	A - B830SL10	30	8	1.0x0.2
SL12	A - B830SL12	30	14	1.2x0.2



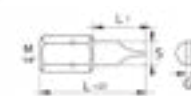
PHILIPS



SIZE	Nr kat.	L (mm)	M (mm)	ø D
PH1	A - B625PH1	25	1/4"	12



SLOTTED



SIZE	Nr kat.	L (mm)	G	L1	M
SL4	A - B625SL04	25	4.0x0.1	12	1/4"
SL5.5	A - B625SL5.5	25	5.5x0.1	12	1/4"



SIZE	Nr kat.	L (mm)	M	Ø D
T8	A - B625T08	25	1/4"	w/o tamper
T9	A - B625T09	25	1/4"	w/o tamper
T10	A - B625T10	25	1/4"	w/o tamper
T15	A - B625T15	25	1/4"	w/o tamper
T20	A - B625T20	25	1/4"	w/o tamper
T25	A - B625T25	25	1/4"	w/o tamper
T27	A - B625T27	25	1/4"	w/o tamper
T30	A - B625T30	25	1/4"	w/o tamper
T40	A - B625T40	25	1/4"	w/o tamper
T45	A - B625T45	25	1/4"	w/o tamper
T50	A - B625T50	25	1/4"	w/o tamper

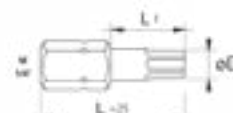
SIZE	Nr kat.	L (mm)	M	L1
M5	A - B625M5	25	1/4"	8
M6	A - B625M6	25	1/4"	8
M8	A - B625M8	25	1/4"	8



POZIDRIVE



TORX



SIZE	Nr kat.	L (mm)	L1 (mm)	M
PZ1	A-B625PZ1	25	11	1/4"
PZ2	A-B625PZ2	25	11	1/4"

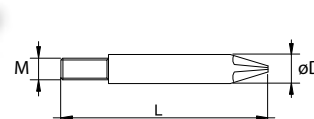
SIZE	Nr kat.	L (mm)	L1 (mm)	M	Ø D
TH10	A-B625TH10	25	11	1/4"	tamper
TH15	A-B625TH15	25	11	1/4"	tamper
TH20	A-B625TH20	25	11	1/4"	tamper
TH25	A-B625TH25	25	11	1/4"	tamper
TH27	A-B625TH27	25	11	1/4"	tamper
TH30	A-B625TH30	25	11	1/4"	tamper
TH40	A-B625TH40	25	11	1/4"	tamper
TH45	A-B625TH45	25	11	1/4"	tamper



PHILIPS



POZIDRIVE

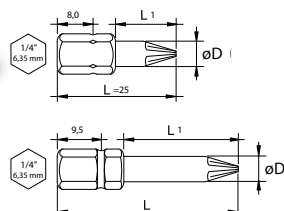


SIZE	Nr kat.	L (mm)	M (mm)	Ø D
PH1	A-3491/34PH	34	M4	5,5
PH1	A-3491/45PH	45	M4	5,5
PH1	A-3591/34PH	34	M5	5,5
PH1	A-3591/45PH	45	M5	5,5
PH2	A-3492/34PH	34	M4	6,0
PH2	A-3492/45PH	45	M4	6,0
PH2	A-3592/34PH	34	M5	6,0
PH2	A-3592/45PH	45	M5	6,0

SIZE	Nr kat.	L (mm)	M (mm)	Ø D
PZ1	PZ1	45	M5	5,0
PZ2	PZ2	45	M5	6,0



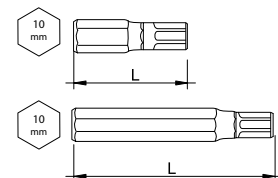
POZIDRIVE



SIZE	Nr kat.	L (mm)	L1 (mm)	Ø D
PZ1	A - 12251	25	11	5,0
PZ1	A - 12275	50	24	5,0
PZ1	A - 12281	75	49	5,0
PZ1	A - 12291	100	74	5,0
PZ1	A - 12292	150	124	5,0
PZ2	A - 12252	25	11	6,0
PZ2	A - 12277	50	24	6,0
PZ2	A - 12283	75	49	6,0
PZ2	A - 12293	100	74	6,0
PZ2	A - 12295	150	124	6,0
PZ3	A - 12256	25	11	6,0
PZ3	A - 12279	50	24	6,0
PZ3	A - 12280	75	49	6,0
PZ3	A - 12296	100	74	6,0
PZ3	A - 12297	150	124	6,0



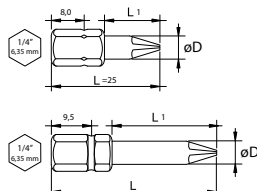
TORX



SIZE	Nr kat.	L (mm)
T20	8940620	30
T25	8940625	30
T30	8940630	30
T40	8940640	30
T45	8940645	30
T50	8940650	30
T55	8940655	30
T20	8950620	75
T25	8950625	75
T30	8950630	75
T40	8950640	75
T45	8950645	75
T50	8950650	75
T55	8950655	75



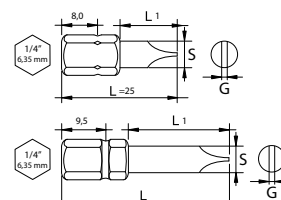
PHILIPS



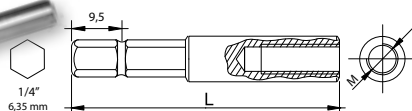
SIZE	Nr kat.	L (mm)	L1 (mm)	Ø D
PH0	A - 12001	25	11	3,0
PH1	A - 12002	25	11	5,0
PH1	A - 12051	50	24	5,0
PH1	A - 12053	75	49	5,0
PH1	A - 12055	100	74	5,0
PH1	A - 12056	150	124	5,0
PH2	A - 12004	25	11	6,0
PH2	A - 12057	50	24	6,0
PH2	A - 12059	75	49	6,0
PH2	A - 12061	100	74	6,0
PH2	A - 12062	150	124	6,0
PH3	A - 12007	25	11	6,0
PH3	A - 12064	50	24	6,0
PH3	A - 12067	75	49	6,0
PH3	A - 12070	100	74	6,0
PH3	A - 12071	150	124	6,0



SLOTTED



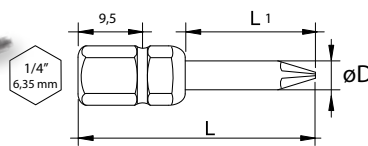
SIZE G x S	Nr kat.	L (mm)	L1 (mm)
0,5 x 3	A - 12140	25	14
0,5 x 3	A - 12221	50	24
0,5 x 4	A - 12141	25	14
0,5 x 4	A - 12222	50	24
0,6 x 4,5	A - 12142	25	14
0,6 x 4,5	A - 12224	50	24
0,5 x 5,5	A - 12143	25	14
1,0 x 5,5	A - 12226	50	24
1,0 x 6,0	A - 12144	25	14
1,0 x 6,0	A - 12228	50	24
1,2 x 6,5	A - 12145	25	14
1,2 x 6,5	A - 12229	50	24
1,2 x 8,0	A - 12146	25	14
1,2 x 8,0	A - 12230	50	24
1,6 x 8,0	A - 12147	25	14
1,6 x 8,0	A - 12231	50	24



Nr kat.	L (mm)	M
A - 1488/5	175	5
A - 1488/4	175	4
A - 1487/5	84	5
A - 1487/4	84	4



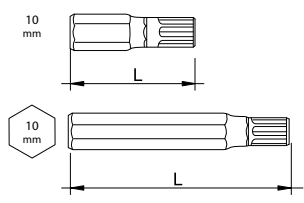
PHILIPS



SIZE	Nr kat.	L (mm)	L1 (mm)	Ø D
PH0	A - 446142	40	-	1,4
PH0	A - 446152	40	20	2
PH0	A - 446158	40	20	2,5
PH0	A - 446143	60	20	1,4
PH0	A - 446153	60	20	2
PH0	A - 446159	60	2-	2,5



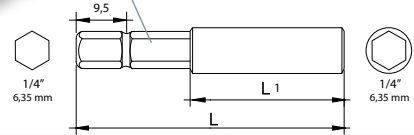
XZN



SIZE	Nr kat.	L (mm)
5	8940705	30
6	8940706	30
8	8940708	30
10	8940710	30
12	8940712	30
5	8950705	75
6	8950706	75
8	8950708	75
10	8950710	75
12	8950712	75



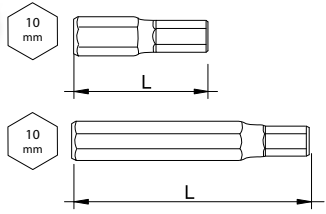
MAGNES



Nr kat.	L (mm)	L1 (mm)
A - BITH50	50	25
A - BITH75	75	47
A - BITH100	100	47
A - BITH150	150	47



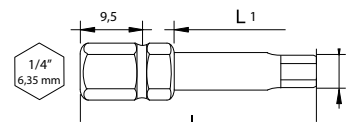
HEX



SIZE	Nr kat.	L (mm)
HEX 4	8940404	30
HEX 5	8940405	30
HEX 6	8940406	30
HEX 7	8940407	30
HEX 8	8940408	30
HEX 10	8940410	30
HEX 12	8940412	30
HEX 4	8950404	75
HEX 5	8950405	75
HEX 6	8950406	75
HEX 7	8950407	75
HEX 8	8950408	75
HEX 10	8950410	75
HEX 12	8950412	75

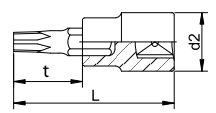


HEX

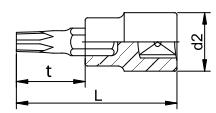


SIZE	Nr kat.	L (mm)	L1 (mm)
2	A - 12375	25	11
2	A - 12410	50	24
2,5	A - 12376	25	11
2,5	A - 12411	50	24
3	A - 12377	25	11
3	A - 12412	50	24
4	A - 12378	25	11
4	A - 12413	50	24
5	A - 12379	25	11
5	A - 12414	50	24
6	A - 12380	25	11
6	A - 12415	50	24
8	A - 12381	25	11
8	A - 12416	50	24

1/4"



1/4"



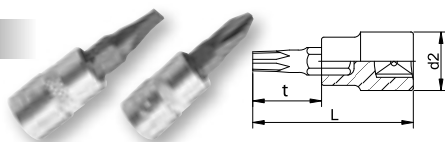
	Rozmiar śruby (mm)	D2 (mm)	t (mm)	L (mm)
720202	2	11.9	18	37
720225	2.5	11.9	18	37
720203	3	11.9	18	37
720204	4	11.9	18	37
720205	5	11.9	18	37
720206	6	11.9	18	37
720207	7	11.9	18	37
720208	8	11.9	18	37
720210	10	11.9	18	37



	Rozmiar śruby (mm)	D2 (mm)	t (mm)	L (mm)
730206	T6	11.9	18	37
730207	T7	11.9	18	37
730208	T8	11.9	18	37
730209	T9	11.9	18	37
730210	T10	11.9	18	37
730215	T15	11.9	18	37
730220	T20	11.9	18	37
730225	T25	11.9	18	37
730227	T27	11.9	18	37
730230	T30	11.9	18	37
730240	T40	11.9	18	37



1/4"



Nr kat.	Rozmiar śruby (mm)	D2 (mm)	t (mm)	L (mm)
700200	0	11.9	18	37
700201	1	11.9	18	37
700202	2	11.9	18	37
700203	3	11.9	18	37
700204	4	11.9	18	37



POZIDRIVE

Nr kat.	Rozmiar śruby (mm)	D2 (mm)	t (mm)	L (mm)
710200	0	11.9	18	37
710201	1	11.9	18	37
710202	2	11.9	18	37
710203	3	11.9	18	37

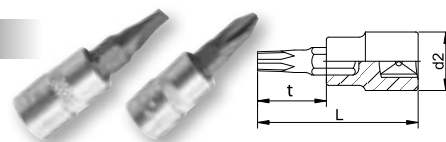


TORX



SIZE	Nr kat.	L (mm)	L1 (mm)	Ø D
T5	A - T5	25	11	3,0
T6	A - T6	25	11	4,0
T6	A - T6 - 50	50	24	4,0
T7	A - T7	25	11	4,0
T7	A - T7 - 50	50	24	4,0
T8	A - T8	25	11	4,5
T8	A - T8 - 50	50	24	4,5
T9	A - T9	25	11	4,5
T9	A - T9 - 50	50	24	4,5
T10	A - T10	25	11	4,5
T10	A - T10 - 50	50	24	4,5
T15	A - T15	25	11	4,5
T15	A - T15 - 50	50	24	4,5
T20	A - T20	25	11	5,0
T20	A - T20 - 50	50	24	5,0
T25	A - T25	25	11	5,0
T25	A - T25 - 50	50	24	5,0
T27	A - T27	25	11	5,5
T27	A - T27 - 50	50	24	5,5
T30	A - T30	25	11	6,0
T30	A - T30 - 50	50	24	6,0
T40	A - T40	25	11	7,0
T40	A - T40 - 50	50	24	7,0

1/4"



Nr kat.	Rozmiar śruby (mm)	D2 (mm)	t (mm)	L (mm)
740203	3	11.9	18	37
740235	3.5	11.9	18	37
740204	4	11.9	18	37
740205	5	11.9	18	37
740255	5.5	11.9	18	37
740206	6	11.9	18	37
740265	6.5	11.9	18	37
740207	7	11.9	18	37
740208	8	11.9	18	37

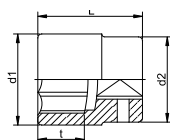
1/4"



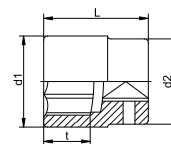
Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
22604	E4	6.2	12	5	25
22605	E5	7.2	12	5	25
22606	E6	8.5	12	5	25
22607	E7	9.2	12	6	25
22608	E8	10.2	12	7	25
22610	E10	12	14	10	25
22611	E11	12.2	14	11	25
22612	E12	14.5	14	14	25

32604	E4	6.9	12	5	50
32605	E5	8.1	12	5	50
32606	E6	8.8	12	5	50
32607	E7	9.6	12	6	50
32608	E8	10.6	12	7	50

1/4"



1/4"



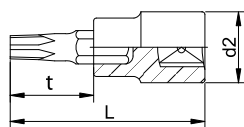
Nr kat.

	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
522604	4	6.8	11.9	5	25
522645	4.5	7.1	11.9	5	25
522605	5	8.0	11.9	5	25
522655	5.5	8.3	11.9	5	25
522606	6	9.3	11.9	5	25
522607	7	10.5	11.9	5	25
522608	8	11.9	11.9	5	25
522609	9	13.0	13.0	8	25
522610	10	14.0	14.0	8	25
522611	11	15.9	15.9	8	25
522612	12	16.9	16.9	10	25
522613	13	17.8	17.8	10	25
522614	14	19.6	19.6	10	25
542604	4	6.8	11.9	5	50
542645	4.5	7.1	11.9	5	50
542605	5	8.0	11.9	5	50
542655	5.5	8.3	11.9	5	50
542606	6	9.3	11.9	8	50
542607	7	10.5	11.9	8	50
542608	8	11.9	11.9	8	50
542609	9	13.0	13.0	11	50
542610	10	14.0	14.0	11	50
542611	11	15.9	15.9	11	50
542612	12	16.9	16.9	13	50
542613	13	17.8	17.8	13	50
542614	14	19.6	19.6	16	50

Nr kat.

	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
522204	4	7.0	11.9	5	25
522245	4.5	7.5	11.9	5	25
522205	5	8.0	11.9	5	25
522255	5.5	9.0	11.9	5	25
522206	6	9.0	11.9	5	25
522207	7	10.7	11.9	5	25
522208	8	12	11.9	5	25
522209	9	13.0	13.0	8	25
522210	10	14.0	14.0	8	25
522211	11	16.0	15.9	8	25
522212	12	17.0	16.9	8	25
522213	13	18.0	17.8	10	25
522214	14	20	19.6	10	25
542204	4	7.0	11.9	5	50
542245	4.5	7.5	11.9	5	50
542205	5	8.0	11.9	5	50
542255	5.5	9.0	11.9	5	50
542206	6	9.0	11.9	8	50
542207	7	10.7	11.9	8	50
542208	8	12	11.9	8	50
542209	9	13.0	13.0	11	50
542210	10	14.0	14.0	11	50
542211	11	16.0	15.9	11	50
542212	12	17.0	16.9	13	50
542213	13	18.0	17.8	13	50
542214	14	20.0	19.6	16	50

1/4"



1/4"



Nr kat.



	Rozmiar śruby (mm)	D2 (mm)	t (mm)	L (mm)
731206	T6	11.9	18	37
731207	T7	11.9	18	37
731208	T8	11.9	18	37
731209	T9	11.9	18	37
731210	T10	11.9	18	37
731215	T15	11.9	18	37
731220	T20	11.9	18	37
731225	T25	11.9	18	37
731227	T27	11.9	18	37
731230	T30	11.9	18	37
731240	T40	11.9	18	37

Nr kat.

L (mm)

1/4" 3/8"

422300

25.5

1/4"

3/8"



ASTA

HAND TOOLS



1/4"



Nr kat.	L (mm)		
102200	25	12	10.5

1/4"



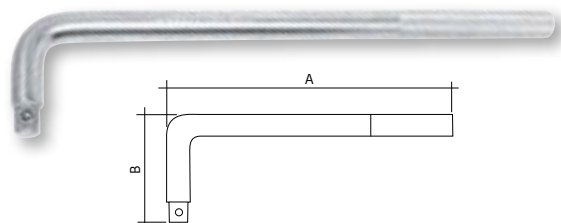
Nr kat.	L (mm)		
2721001	38	1/4"	1/4"

1/4"



Nr kat.	L (mm)	B (mm)
282108	150	65

1/4"



Nr kat.	A (mm)	B (mm)
262111	165	25

1/4"



Nr kat.	L (mm)
292111	114

1/4"



Nr kat.	L (mm)
242215	150
242215RK	-

1/4"



Nr kat.	L (mm)
211203	75
211204	100
211206	150
211210	250
211240	400

1/4"



Nr kat.	L (mm)
211203W	75
211204W	100
211206W	150
211240W	400

1/4"

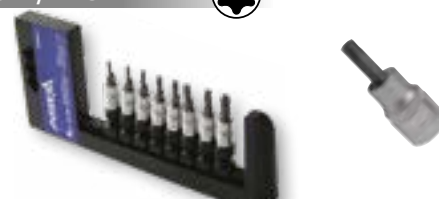


Nr kat.	L (mm)
200206	150

BIT SET - 8 1/4" T



BIT SET - 8 1/4" S



Nr kat.	Rozmiar śruby (mm)
BIT SET - 8 1/4" T	TX8, TX10, TX15, TX20
BIT SET - 8 1/4" S	TX25, TX27, TX30, TX40

ASTA

NARZĘDZIA RĘCZNE



ASTA

HAND TOOLS

A- KH4217 1/4"

MECHANIZM GRZECHOTKOWY - 72 zęby

A - KH4217-RK 1/4"

Nr kat.	L (mm)	g
A - KH4217 1/4"	145	120

A - KH6214 1/4"

Nr kat.	L (mm)	g
A-KH6214 1/4"	81	8

KH2400N 1/4"

MECHANIZM GRZECHOTKOWY - 48 zębów

KH2400N-RK 1/4"

Nr kat.	L (mm)	g
KH2400N 1/4"	160	150
KH2400N - RK 1/4"		

A - KH2072 1/4"

MECHANIZM GRZECHOTKOWY - 72 zęby

A-KH2072-RK1/4"

Nr kat.	L (mm)	g
A - KH2072 1/4"	255	128

KH2014 1/4"

MECHANIZM GRZECHOTKOWY - 48 zębów

KH2014-RK 1/4"

Nr kat.	L (mm)	g
KH2014 1/4"	108	99
KH2014 - RK 1/4"		

A - SR1472 "1/4"

MECHANIZM GRZECHOTKOWY - 72 zęby



Nr kat.	L (mm)	g
A - SR1472 1/4"	200	

KH2500 1/4"

MECHANIZM GRZECHOTKOWY - 72 zęby

KH2500 - RK 1/4"

Nr kat.	L (mm)	g
KH2500 1/4"	140	180
KH2500/ZN 1/4"		

A-KH6014F 1/4"

MECHANIZM GRZECHOTKOWY - 60 zębów

KH6014F-RK-1

Nr kat.	L (mm)	g
A-KH6014F 1/4"	200 - 255	200
KH6014F-RK-1/4"		

A-KH14SL 1/4"

GRZECHOTKA LONG 1/4"

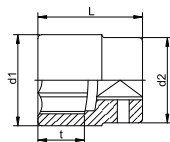


Nr kat.	L (mm)	g
A-KH14SL 1/4"	275	0.223



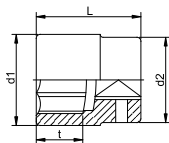


3/8"



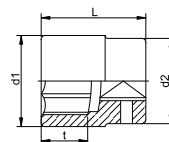
Nr kat.		Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
523608		8	12.7	17	8	28
523609		9	13.5	17	8	28
523610		10	14.5	17	8	28
523611		11	16.0	17	8	28
523613		13	18.0	17	8	28
523614		14	20.0	18	12	28
523615		15	22.0	20	12	28
523616		16	22.0	20	12	28
523617		17	24.0	22	12	30
523618		18	26.0	23	12	30
523619		19	26.0	24	14	30
523620		20	28.0	25	14	30
523621		21	28.0	26	14	30
523622		22	30.0	26	14	30
523623		23	31.6	27	14	30
523624		24	32.0	28	16	30
543608		8	12.7	17	9	63
543609		9	13.5	17	9	63
543610		10	14.5	17	9	63
543611		11	16.0	17	12	63
543612		12	17.0	16	12	63
543613		13	18.0	17	12	63
543614		14	20.0	18	15	63
543615		15	22.0	20	15	63
543616		16	22.0	20	15	63
543617		17	24.0	22	15	63
543618		18	26.0	23	18	63
543619		19	26.0	24	18	63
543620		20	28.0	25	18	63
543621		21	28.0	26	18	63
543622		22	30.0	27	21	63
543623		23	31.6	27	21	63
543624		24	32.0	28	21	63

3/8"



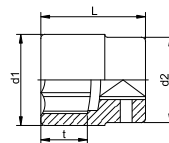
Nr kat.		Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
23604		E4	6.0	17	5	28
23605		E5	7.0	17	5	28
23606		E6	8.0	17	6	28
23607		E7	9	17	7	28
23608		E8	10.0	17	7	28
23610		E10	12	17	8	28
23611		E11	13.0	17	8	28
23612		E12	14.5	17	8	28
23614		E14	18.0	18	10	28
23616		E16	20	20	10	28
23618		E18	22	22	11	28

3/8"



Nr kat.		Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
523208		8	11.8	17	8	28
523209		9	13.2	17	8	28
523210		10	14.5	17	8	28
523211		11	15.7	17	8	28
523212		12	17.0	16	8	28
523213		13	18.0	16.5	8	28
523214		14	19.6	17.0	12	28
523215		15	20.9	18.0	12	28
523216		16	22.0	19.0	12	28
523217		17	23.4	20.0	12	30
523218		18	24.6	21.0	12	30
523219		19	26.0	23.0	14	30
523220		20	27.1	24.0	14	30
523221		21	28.0	25.0	14	30
523222		22	29.6	26.0	14	30
523223		23	31.6	27.0	14	30
523224		24	32.0	28.0	16	30
543208		8	11.8	17	9	63
543209		9	13.2	17	9	63
543210		10	14.5	17	9	63
543211		11	15.7	17	12	63
543212		12	17.0	16	12	63
543213		13	18.0	16.5	12	63
543214		14	19.6	17.0	15	63
543215		15	20.9	18.0	15	63
543216		16	22.0	19.0	15	63
543217		17	23.4	20.0	15	63
543218		18	24.6	21.0	18	63
543219		19	26.0	23.0	18	63
543220		20	27.1	24.0	18	63
543221		21	28.0	25.0	18	63
543222		22	29.6	26.0	21	63
543223		23	31.6	27.0	21	63
543224		24	32.0	28.0	21	63

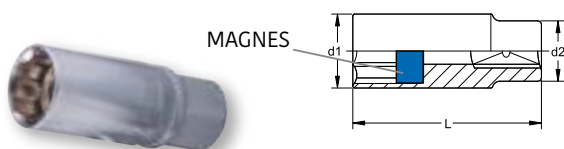
3/8"



Nr kat.		Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
33604		E4	6.9	17	5	63
33605		E5	8.0	17	5	63
33606		E6	9.2	17	6	63
33607		E7	10.6	17	7	63
33608		E8	11.8	17	7	63
33610		E10	12.0	17	8	63
33611		E11	13.0	17	8	63
33612		E12	14.5	17	8	63
33614		E14	18	16.5	10	63
33616		E16	20	17	10	63
33618		E18	22	19	12	63



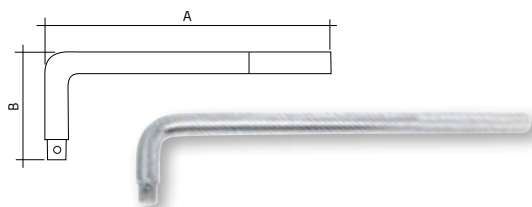
3/8"



Nr kat.

	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	L (mm)
563616	16	22	18.8	65
563618	18	26	20.4	65
563621	21	28	21.5	65

3/8"



Nr kat.

	A (mm)	B (mm)
263111	160	50

3/8"



Nr kat.

L (mm)



		3/8"	1/4"
423200	27		

3/8"

243225-RK



Nr kat.

L (mm)

243225	250
243225RK	-

3/8"



Nr kat.

L (mm)

239116	164

3/8"



Nr kat.

L (mm)



		3/8"	1/4"
423200	25.5		

3/8"



Nr kat.

L (mm)

211303	75
211305	125
211304	150
211306	200
211340	400

3/8"



Nr kat.

L (mm)

211303W	75
211304W	150
211306W	200
211340W	400

3/8"



Nr kat.

L (mm)



		3/8"	8 mm
103100	28		
103200	29	3/8	10mm

3/8"



Nr kat.

L (mm)



		3/8"	3/8"
2731001	50		



A - SR3872 3/8"

MECHANIZM GRZECHOTKOWY - 72 zębów



Nr kat.	L (mm)	g
A - SR3872 3/8"	200	

A - KH3072 3/8"

MECHANIZM GRZECHOTKOWY - 72 zębów

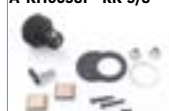


Nr kat.	L (mm)	g
A - KH3072 3/8"	255	297

A - KH6038F 3/8"

MECHANIZM GRZECHOTKOWY - 60 zębów

A-KH6038F -RK 3/8"



Nr kat.	L (mm)	g
A-KH6038F 3/8"	265 - 366	500
A-KH6038F -RK 3/8"		

A - KH4317 3/8"

MECHANIZM GRZECHOTKOWY - 72 zębów

A - KH4317-RK 3/8"



Nr kat.	L (mm)	g
A - KH4317 3/8"	199	300

KH2400N 3/8"

MECHANIZM GRZECHOTKOWY - 48 zębów

KH2400N-RK 3/8"



Nr kat.	L (mm)	g
KH2400N 3/8"	200	300
KH2400N - RK 3/8"		

KH2038 3/8"

MECHANIZM GRZECHOTKOWY - 48 zębów

KH2038-RK 3/8"



Nr kat.	L (mm)	g
KH2038 3/8"	140	232
KH2038 -RK 3/8"		

A - KH6238 3/8"



Nr kat.	L (mm)	g
A-KH6238 3/8"	262	20

A - KH38SL 3/8"

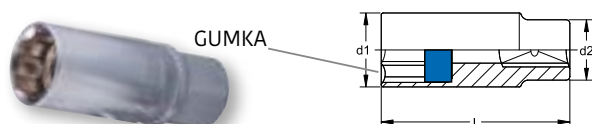
GRZECHOTKA LONG 3/8"



Nr kat.	L (mm)	g
A - KH38SL 3/8"	435	0.638



1/2"



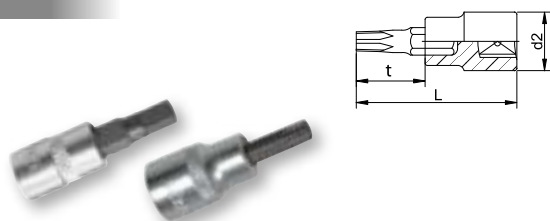
1/2"



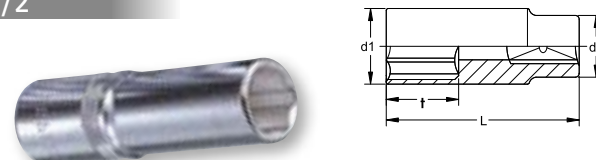
Nr kat.		Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	L (mm)
564616R		16	22	22,0	65
564618R		26	24,7	26,0	65
564621R		27.5	26	27,0	65

Nr kat.		Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	L (mm)
564616M		16	22	22,0	65
564618M		26	24,7	26,0	65
564621M		27.5	26	27,0	65

1/2"



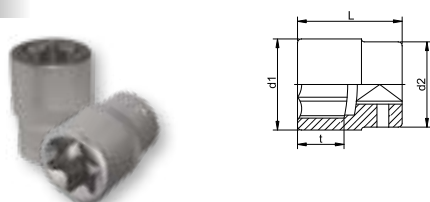
1/2"



Nr kat.	Rozmiar śruby (mm)	D2 (mm)	t (mm)	L (mm)
730420	TX20	21,7	17	55
730425	TX25	21,7	17	55
730427	TX27	21,7	17	55
730430	TX30	21,7	17	55
730440	TX40	21,7	17	55
730445	TX45	21,7	17	55
730450	TX50	21,7	17	55
730455	TX55	21,7	17	55
730460	TX60	21,7	17	55

Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
544608	8	13,2	22,0	12	77
544609	9	13,9	22,0	12	77
544610	10	15,5	22,0	12	77
544611	11	16,5	22,0	12	77
544612	12	18,0	22,0	12	77
544613	13	19,0	22,0	12	77
544614	14	20,5	22,0	15	77
544615	15	22,0	21,0	15	77
544616	16	22,0	21,0	15	77
544617	17	24,0	22,0	15	77
544618	18	26,0	23,0	18	77
544619	19	26,0	23,0	18	77
544620	20	28,0	25,0	18	77
544621	21	28,0	25,0	18	77
544622	22	30,0	26,0	21	77
544623	23	32,0	28,0	24	77
544624	24	32,0	28,0	24	77
544625	25	36,0	30,0	27	77
544626	26	36,0	30,0	27	77
544627	27	36,0	30,0	27	77
544628	28	36,0	30,0	27	77
544630	30	40,0	34,0	30	77
544632	32	42,0	36,0	33	77
544636	32	42,0	36,0	33	77

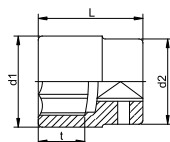
1/2"



Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
24610	E10	14	22	7	38
24612	E12	16	22	8	38
24614	E14	17	22	9	38
24616	E16	20	22	10	38
24618	E18	21	22	12	38
24620	E20	24	22	13	38
24622	E22	26	24	14	38
24624	E24	28	24	16	38

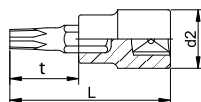


1/2"



Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
34610	E10	13,5	22	10	77
34612	E12	15	22	10	77
34614	E14	17	22	10	77
34616	E16	19	22	10	77
34618	E18	21	24	12	77
34620	E20	24	22	13	77
34622	E22	26	23	14	77
34624	E24	28	24	16	77

1/2"



Nr kat.	Rozmiar śruby (mm)	D2 (mm)	t (mm)	L (mm)
720404	4	23,9	24	62
720405	5	23,9	24	62
720406	6	23,9	24	62
720407	7	23,9	24	62
720408	8	23,9	24	62
720410	10	23,9	24	62
720412	12	23,9	24	62
720414	14	23,9	24	62
720416	16	25,9	24	62
720417	17	25,9	24	62
720419	19	25,9	24	62

721404	4	23,9	62	100
721405	5	23,9	62	100
721406	6	23,9	62	100
721407	7	23,9	62	100
721408	8	23,9	62	100
721410	10	23,9	62	100
721412	12	23,9	62	100
721414	14	23,9	62	100
721417	17	25,9	62	100
721419	19	25,9	62	100

1/2"



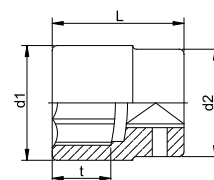
Nr kat.	L (mm)
244138	380
244138RK	-

1/2"



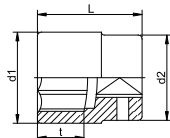
Nr kat.	L (mm)
244050	500
244060	600
244064	645
244060RK	-

1/2"

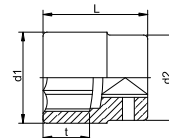


Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
524608	8	13,2	22,0	12	38
524609	9	14,2	22,0	12	38
524610	10	15,2	22,0	12	38
524611	11	16,4	22,0	12	38
524612	12	17,7	22,0	12	38
524613	13	18,9	22,0	12	38
524614	14	20,2	22,0	12	38
524615	15	21,4	21,0	12	38
524616	16	22,0	21,0	12	38
524617	17	23,9	22,0	12	38
524618	18	25,0	23,0	12	38
524619	19	26,0	23,0	14	38
524620	20	28,0	24,0	14	38
524621	21	28,0	25,0	14	38
524622	22	30,0	26,0	14	38
524623	23	32,0	28,0	16	38
524624	24	32,0	28,0	16	38
524625	25	34,0	30,0	18	42
524626	26	36,0	30,0	18	42
524627	27	36,0	30,0	18	42
524628	28	38,0	32,0	22	42
524630	30	40,0	34,0	22	44
524632	32	42,0	36,0	22	44
524633	33	42,0	36,0	22	44
524634	34	42,0	36,0	22	44
524636	36	42,0	36,0	22	44

1/2"



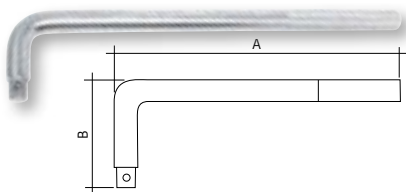
1/2"



Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
524208	8	13,2	22,0	12	38
524209	9	14,2	22,0	12	38
524210	10	15,2	22,0	12	38
524211	11	16,4	22,0	12	38
524212	12	17,7	22,0	12	38
524213	13	18,9	22,0	12	38
524214	14	20,2	22,0	12	38
524215	15	21,4	21,0	12	38
524216	16	22,0	21,0	12	38
524217	17	23,9	22,0	12	38
524219	19	26,0	23,0	14	38
524221	21	28,0	25,0	14	38
524224	24	32,0	28,0	16	38
524227	27	36,0	30,0	18	42
524230	30	40,0	34,0	22	44
524232	32	42,0	36,0	22	44
524233	33	42,0	36,0	22	44
524234	34	42,0	36,0	22	44
524235	35	42,0	36,0	22	44
524236	36	48,0	42,0	22	46
524238	38	48,0	42,0	22	46

Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
544208	8	13,5	22,0	12	77
544209	9	13,9	22,0	12	77
544210	10	15,5	22,0	12	77
544211	11	15,5	22,0	12	77
544212	12	18,0	22,0	12	77
544213	13	19,0	22,0	12	77
544214	14	20,5	22,0	15	77
544215	15	22,0	21,0	15	77
544216	16	22,0	21,0	15	77
544217	17	24,0	22,0	15	77
544218	18	26,0	23,0	18	77
544219	19	26,0	23,0	18	77
544221	21	28,0	25,0	18	77
544222	22	30,0	26,0	21	77
544224	24	32,0	28,0	24	77
544227	27	36,0	30,0	27	77
544230	30	40,0	34,0	30	77
544232	32	42,0	36,0	33	78
544234	34	46,0	36,0	33	85
544236	36	50,0	36,0	33	85

1/2"



Nr kat.	A (mm)	B (mm)
264125	250	50

1/2"



Nr kat.	L (mm)
213638	600

1/2"



Nr kat.	L (mm)	1/2"	3/4"
424600	50		

1/2"



Nr kat.	L (mm)
213405	125
213410	250

1/2"



Nr kat.	L (mm)	1/2"	5/16"
104100	38		
104200	38		

1/2"



Nr kat.	L (mm)	1/2"	1/2"
2741001	75		



ASTA

HAND TOOLS



1/2"



Nr kat.	L (mm)		
4243001	36	1/2"	3/8"

1/2"



Nr kat.	L (mm)		
43400-1/2"	40	1/2"	3/8"
4340001	40	3/8"	1/2"

SERIA A - TW

A - TW.....-RK



Nr kat.	Nm	L (mm)	g	skok
A-TW30 1/4"	6-30	257	450	0.05
A-TW110 3/8"	20 - 110	436	1120	0.5
A-TW210 1/2"	40 - 210	490	1500	1
A-TW350 1/2"	70 - 350	560	1650	1
A-TW1500 1"	300 -1500	1700	11900	10

1/4"



Nr kat.	BITY	Nm	TORX	HEX	PŁASKIE
A - TQS28	25mm	2-8	T8, T10, T15, T20, T25,	H3, H4,	SL3, SL4,SL5

A - KH4072 1/2"

MECHANIZM GRZECHOTKOWY - 72 zęby



Nr kat.	L (mm)	g
A - KH4072 1/2"	255	573

KH2500 1/2"

MECHANIZM GRZECHOTKOWY - 72 zęby



KH2500 - RK 1/2"



Nr kat.	L (mm)	g
KH2500 1/2"	256	560
KH2500/ZN 1/2"	-	-

A - KH4417 1/2"

MECHANIZM GRZECHOTKOWY - 72 zęby

A - KH4417-RK 1/2"



Nr kat.	L (mm)	g
A - KH4417 1/2"	255	500

KH2400NTEL 1/2"

MECHANIZM GRZECHOTKOWY - 72 zęby

KH2400TEL-RK 1/2"



Nr kat.	L (mm)	g
KH2400NTEL 1/2"	330 - 490	1091
KH2400NTEL - RK 1/2"		



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HAND TOOLS

KH2400N 1/2"

MECHANIZM GRZECHOTKOWY - 36 zębów



Nr kat.	L (mm)	g
KH2400N 1/2"	275	700
KH2400N - RK 1/2"	-	-

A - KH12SL 1/2"

GRZECHOTKA LONG 1/2"



Nr kat.	L (mm)	g
A - KH12SL 1/2"	595	1.297

KH2500M 1/2"

MECHANIZM GRZECHOTKOWY - 72 zęby



Nr kat.	L (mm)	g
KH2500M 1/2"	256	566
KH2500M/ZN 1/2"	-	-

A - KH6212 1/2"



Nr kat.	L (mm)	g
A-KH6212 1/2"	666	27

KH2012 1/2"

MECHANIZM GRZECHOTKOWY - 48 zębów



Nr kat.	L (mm)	g
KH2012 1/2"	175	483
KH2012 -RK 1/2"	-	-

A - KH6012F 1/2"

MECHANIZM GRZECHOTKOWY - 60 zębów



Nr kat.	L (mm)	g
A-KH6012F 1/2"	355 - 495	1000
A-KH6012F -RK 1/2"		

BIT SET - 8 1/2" T



Nr kat.	Rozmiar śruby (mm)
BIT SET - 8 1/2" T	TX20, TX25, TX30, TX40, TX45, TX50, TX55, TX60

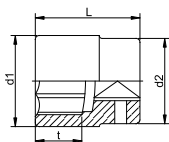
BIT SET - 8 1/2" S



Nr kat.	Rozmiar śruby (mm)
BIT SET - 8 1/2" S	T20, T25, T30, T40, T45, T50, T55, T60

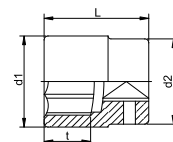


3/4"



	Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
526617		17	27,2	33,0	14,0	50
526618		18	28,2	33,0	14,0	50
526619		19	29,2	33,0	14,0	50
526621		21	31,2	33,0	14,0	50
526622		22	32,2	36,0	14,0	50
526624		24	34,2	36,0	16,5	51
526627		27	38,0	36,0	22	52
526630		30	42,0	36,0	24	54
526632		32	44,0	36,0	26	56
526633		32	44,0	36,0	26	56
526634		34	47,0	36,0	26	56
526636		36	50,0	38,0	28,0	58
526641		41	56,0	40,0	30,0	64
526642		42	57,0	40,0	30,0	64
526646		46	62,0	42,0	32,0	66
526650		50	68,0	42,0	34,0	70
526655		55	74,0	45,0	38,0	76
526660		60	80,0	45,0	42,0	78
546650		50	68	42	36	90
546655		55	74	45	38	90
546660		60	80	45	40	90

3/4"



	Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
526224	24	34.2	36	16.5	51	
526230	30	42	36	22	52	
526232	32	44	36	26	56	
526234	34	47	36	26	56	
526235	35	48	38	26	58	
526236	36	50	38	28	58	
526250	50	68	42	34	70	
526255	55	68	42	34	70	
526256	56	76	45	38	76	
526260	60	80	45	42	78	
526265	65	86	48	44	82	
546241	41	68	42	36	90	
546650	50	72	45	38	90	
546655	55	74	45	38	90	
546660	60	80	45	40	90	

3/4"



Nr kat.	L (mm)		
4268001	62	3/4"	1"

3/4"



Nr kat.	L (mm)		
2761001	109	3/4"	3/4"

256243 3/4"



możliwość rozłączenia rękojeści od mechanizmu grzechotkowego

MECHANIZM GRZECHOTKOWY - 24 zęby

Nr kat.	L (mm)		
256243	500	24	3/4"

3/4"



Nr kat.	L (mm)		
426400	54	3/4	1/2"

3/4"



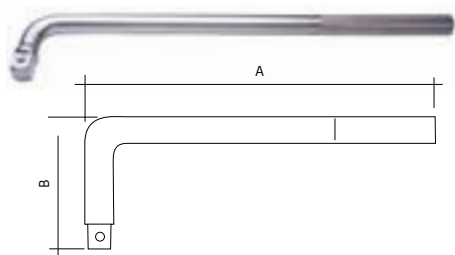
Nr kat.	L (mm)
211604	100
211605	125
211608	200
211616	400

3/4"



Nr kat.	L (mm)
246147	475
246147RK	-
246064	620

3/4"



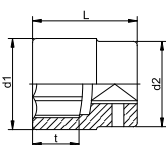
Nr kat.	A (mm)	B (mm)
266145	450	90

3/4"



Nr kat.	L (mm)
296150	500

1"



Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
528636	36	51	45	25	65
528638	38	54	45	25	65
528641	41	59	45	30	70
528646	46	65	50	30	76
528650	50	70	54	31	80
528654	54	74	54	32	80
528655	55	75	54	32	80
528658	58	79	54	32	80
528660	60	82	59	40	84
528665	65	88	59	40	89
528670	70	94	68	44	93
528675	75	112	68	45	103
528680	80	105	68	50	105

1"



Nr kat.	L (mm)
298155	550

1"



Nr kat.	L (mm)
248165	650
248165RK	-

1"



Nr kat.	L (mm)
211808	200
211816	400

1"



Nr kat.	L (mm)	1"	1"
278100	143	1"	1"

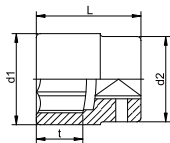


ASTA

HAND TOOLS



1/2"

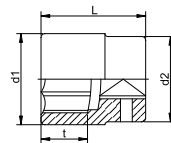


Nr kat.

Rozmiar
śruby
(mm)D1
(mm)D2
(mm)t
(mm)L
(mm)

524608P	8	28	28	9.5	38
524610P	10	17.0	24	9.5	38
524613P	13	21	24	9.5	38
524617P	17	26	26	9.5	38
524618P	18	28	28	9.5	38
524619P	19	28	28	9.5	38
524621P	21	30	30	11	38
524622P	22	32	30	13	38
524623P	23	34	30	13	38
524624P	24	34	30	13	38
524626P	26	38	30	13	40
524627P	27	38	30	13	40
524628P	28	40	30	16.5	42
524630P	30	42	30	16.5	42
524632P	32	44	30	17	44
524634P	34	46	30	20	44
524636P	36	48	30	20	48

1/2"

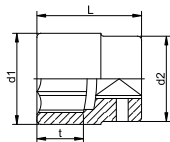


Nr kat.

Rozmiar
śruby
(mm)D1
(mm)D2
(mm)t
(mm)L
(mm)

544610P	10	17.0	24	5	78
544612P	12	20	24	6	78
544613P	13	21	24	6	78
544614P	14	22	24	7	78
544616P	16	26	26	9	78
544617P	17	26	26	9	78
544618P	18	28	28	9	78
544619P	19	28	28	9.5	78
544621P	21	30	30	11	78
544622P	22	35	30	13	78
544623P	23	34	30	13	78
544624P	24	34	30	13	78
544626P	26	38	30	13	78
544627P	27	38	30	13	78
544628P	28	42	30	16.5	78
544630P	30	42	30	16.5	78
544632P	32	44	30	17	78
544634P	34	44	30	17	78
544636P	36	44	30	17	78

1/2"

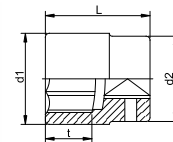


Nr kat.

Rozmiar
śruby
(mm)D1
(mm)D2
(mm)t
(mm)L
(mm)

525608P	8	15	24	5	38
525609P	9	16	24	5	38
525610P	10	17	24	6	38
525611P	11	18	24	7	38
525612P	12	20	24	7	38
525613P	13	21	24	8	38
525614P	14	22	24	8	38
525615P	15	24	24	9	38
525616P	16	24	24	9	38
525617P	17	26	26	10	38
525618P	18	28	28	10	38
525619P	19	28	28	12	38
525621P	21	30	30	13	38
525622P	22	32	30	14	38
525623P	23	34	30	16	38
525624P	24	34	30	16	38
525627P	27	38	30	18	42
525630P	30	42	30	18	42
525632P	32	44	30	20	44

1/2"



Nr kat.

Rozmiar
śruby
(mm)D1
(mm)D2
(mm)t
(mm)L
(mm)

545608P	8	15	24	14	78
545609P	9	16	24	14	78
545610P	10	17	24	14	78
545611P	11	18	24	14	78
545612P	12	20	24	18	78
545613P	13	21	24	20	78
545614P	14	22	24	23	78
545615P	15	24	24	32	78
545616P	16	24	24	27	78
545617P	17	26	24	25	78
545618P	18	28	26	33	78
545619P	19	28	26	31	78
545621P	21	30	26	32	78
545622P	22	32	30	32	78
545623P	23	34	30	32	78
545624P	24	34	30	32	78
545627P	27	38	30	32	78
545630P	30	42	30	32	78
545632P	32	44	30	32	78



ASTA

HAND TOOLS

1/2"



Nr kat.	L (mm)		
424300P	40	1/2"	3/8"
424600P	-	1/2"	3/4"

1/2"



Nr kat.	L (mm)		
274100P	74	1/2"	1/2"

1/2"



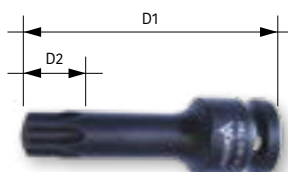
Nr kat.	Rozm	L (mm)
211405P	1/2"	125
211410P	1/2"	250

1/2"



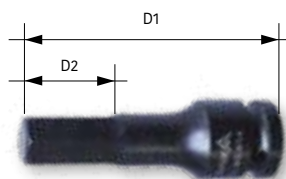
Nr kat.		Rozm	L (mm)
A - T12S16M	with tamper	16	18
A - T12S18M	with tamper	18	18
A - 12S16M	without tamper	16	18
A - 12S18M	without tamper	18	18

1/2"



Nr Kat.	Size	D1	D2	Max Torque [Nm]
531430	T30	78	10	37,41
531435	T35	78	10	37,41
531440	T40	78	10	63,31
531445	T45	78	12	103,49
531450	T50	78	14	148,86
531455	T55	78	14	256,56
531460	T60	78	14	444,92
531470	T70	78	20	700,21
531480	T80	78	20	1041,23

1/2"



Nr Kat	Size	D1	D2	Max Torque [Nm]
A-1MH5	H5	75	13	34,98
A-1MH6	H6	75	15	60,96
A-1MH8	H8	75	24	139,90
A-1MH10	H10	75	30	254,80
A-1MH12	H12	75	30	479,61
A-1MH14	H14	75	30	479,61
A-1MH17	H17	75	30	479,61
A-1MH19	H19	75	30	479,61

3/4"



Nr kat.	L (mm)		
A - 12TW36	36	1/2"	1/2"





3/4"



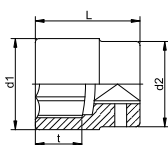
Nr kat.	Rozm	L (mm)
211604P	3/4"	100
211607P	3/4"	175
211610P	3/4"	250
211613P	3/4"	325

3/4"

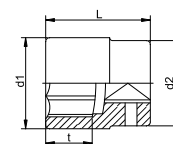


Nr kat.	L (mm)		
426400P	58	3/4"	1/2"
428600P	63	1"	3/4"
426800P	63	3/4"	1"
424600P	63	1/2"	3/4"

3/4"



3/4"



Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
526617P	17	30	38	14	51
526619P	19	32	38	14	51
526621P	21	34	38	14	51
526622P	22	35	38	14	51
526623P	24	36	38	14	51
526624P	27	38	38	20	53
526626P	26	38	38	20	51
526627P	27	40	40	20	53
526628P	28	44	44	20	53
526630P	30	44	44	20	53
526632P	32	48	44	21	57
526633P	33	48	44	21	57
526634P	34	48	44	21	57
526636P	36	56	44	21	57
526638P	38	56	44	21	57
526641P	41	60	44	22	57
526646P	46	66	44	25	62
526650P	50	71	54	30	72
526655P	55	78	54	32	74
526660P	60	84	54	32	75
526665P	65	84	54	32	75



Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
546617P	17	30	44	26	90
546619P	19	33	44	26	90
546621P	21	35	44	26	90
546622P	22	37	44	26	90
546623P	23	38	44	26	90
546624P	24	39	44	26	90
546626P	26	41	44	28	90
546627P	27	43	44	28	90
546630P	30	46	44	28	90
546632P	32	49	44	30	90
546633P	33	51	44	30	90
546634P	34	51	44	30	90
546636P	36	54	44	34	90
546638P	38	56	44	34	90
546641P	41	60	54	36	90
546646P	46	66	44	36	90
546650P	50	71	54	36	90
546655P	55	71	54	36	90
546660P	60	71	54	36	90
546665P	65	71	54	36	90

3/4"



Nr kat.	L (mm)		
256E20	51	3/4"	E20
256E24	51	3/4"	E24

3/4"



Nr kat.	L (mm)		
258E24L	90	3/4"	E24



ASTA

HAND TOOLS

3/4"



Nr kat.	SIZE
606536	3/4"

3/4"

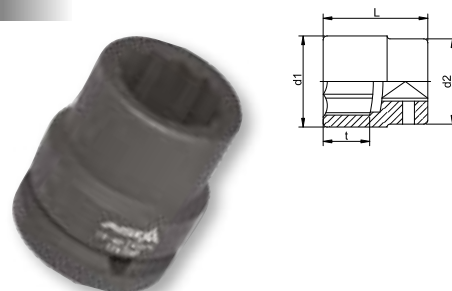


Nr kat.	L (mm)		
276100P	106	3/4"	3/4"

3/4"



3/4"



	Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
	526724P	24	38	44	14	51
	526727P	27	42	44	14	53
	526730P	30	46	44	15	53
	526732P	32	49	44	15	57
	526734P	34	51	44	18	57
	526735P	35	52	44	18	57
	526736P	36	54	44	18	57
	526738P	38	57	44	25	57
	526741P	41	60	44	27	57
	526746P	46	67	44	29	62
	526750P	50	71	54	40	72
	526755P	55	78	54	43	74
	526760P	60	83	54	42	75
	526765P	65	90	54	43	78

	Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
	546724P	24	39	44	14	85
	546727P	27	43	44	14	85
	546730P	30	47	44	15	85
	546732P	32	49	44	15	85
	546734P	34	52	44	18	85
	546735P	35	52	44	18	85
	546736P	36	54	44	18	85

3/4"



1"



Nr kat.	Rozmiar śruby (mm)	D2 (mm)	t (mm)	L (mm)	Max Torque [Nm]
596614P	14	44	5	89	590
596617P	17	44	6	89	590
596619P	19	44	9	89	1400
596622P	22	44	9.5	89	2100
596624P	24	44	11	89	2700

Nr kat.	L (mm)
211804P	100
211807P	175
211810P	250
211813P	325



1"



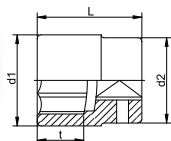
Nr kat.	L (mm)		
428600P	72	1"	3/4"

1"



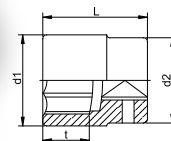
Nr kat.	SIZE
618545	1"

1"



Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
528627P	27	46	54	22	58
528630P	30	49	54	22	60
528632P	32	52	54	22	61
528633P	33	53	54	22	61
528634P	34	54	54	22	61
528636P	36	57	54	22	65
528638P	38	59	54	22	65
528641P	41	63	54	24	65
528643P	43	66	54	26	68
528646P	46	69	54	26	74
528650P	50	74	54	26	74
528655P	55	81	54	26	85
528660P	60	87	54	26	90
528665P	65	93	54	26	93
528670P	70	99	54	26	100
528675P	75	105	86	26	100
528680P	80	112	86	26	100
528685P	85	117	86	26	100
528690P	90	124	86	26	105
528695P	95	129	86	26	107
5286105P	105	142	86	26	115

1"



Nr kat.	Rozmiar śruby (mm)	D1 (mm)	D2 (mm)	t (mm)	L (mm)
548624P	24	42	54	30	90
548627P	27	46	54	30	90
548630P	30	52	54	30	90
548632P	32	52	54	30	90
548633P	33	53	54	35	90
548634P	34	54	54	35	90
548636P	36	57	54	35	90
548638P	38	59	54	35	90
548641P	41	63	54	38	90
548646P	46	69	54	42	90
548650P	50	74	54	45	90
548655P	55	81	54	45	90
548660P	60	87	54	28	120
548665P	65	93	54	30	120
548670P	70	99	54	32	125
548675P	75	105	86	32	125
548680P	80	112	86	32	125

1"

A-12IPS6

materiał:Cr-Mo



12 PCS



Size(mm):	L(mm)
27	58
30	60
32	62
33	62
36	65
41	65
50	75
70	100
80	100
85	100
95	105
105	105



ASTA

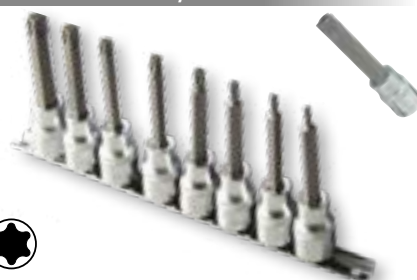
HAND TOOLS

BIT SET - 8 1/4"S



Nr kat.	size (mm)	L (mm)
730208	T8	37
730210	T10	37
730215	T15	37
730220	T20	37
730225	T25	37
730227	T27	37
730230	T30	37
730240	T40	37

BIT SET - 8 1/2"S



Nr kat.	size (mm)	L (mm)
830220	T20	100
830225	T25	100
830230	T30	100
830240	T40	100
830245	T45	100
830250	T50	100
830255	T55	100
830260	T60	100

BIT SET - 8 1/4"T



Nr kat.	size (mm)	L (mm)
731208	TX8	37
731210	TX10	37
731215	TX15	37
731220	TX20	37
731225	TX25	37
731227	TX27	37
731230	TX30	37
731240	TX40	37

BIT SET - 8 1/2"T



Nr kat.	size (mm)	L (mm)
831220	TX20	100
831225	TX25	100
831230	TX30	100
831240	TX40	100
831245	TX45	100
831250	TX50	100
831255	TX55	100
831260	TX60	100

954010



Nr kat.	size (mm)	L (mm)
720404	HEX 4	62
720405	HEX 5	62
720406	HEX 6	62
720407	HEX 7	62
720408	HEX 8	62
720410	HEX 10	62
720412	HEX 12	62
720414	HEX 14	62
720417	HEX 17	62
720419	HEX 19	62

954009 - 1



Nr kat.	size (mm)	L (mm)
730420	T20	55
730425	T25	55
730427	T27	55
730430	T30	55
730440	T40	55
730445	T45	55
730450	T50	55
730455	T55	55
730460	T60	55



954010-1



1/2"



Nr kat.	size (mm)	L (mm)
740404	4	62
740405	5	62
740406	6	62
740407	7	62
740408	8	62
740410	10	62
740404	12	62
740414	14	62
740416	16	62
740418	18	62

954009-2



1/2"



Nr kat.	size (mm)	L (mm)
24610	E10	38
24611	E11	38
24612	E12	38
24614	E14	38
24616	E16	38
24618	E18	38
24620	E20	38
24622	E22	38
24624	E24	38

346SET8 1/2"



1/2"



Nr kat.	size (mm)	L (mm)
34610	E10	77
34612	E12	77
34614	E14	77
34616	E16	77
34618	E18	77
34620	E20	77
34622	E22	77
34624	E24	77

236SET10 3/8"



3/8"



Nr kat.	size (mm)	L (mm)
23604	E4	28
23605	E5	28
23606	E6	28
23607	E7	28
23608	E8	28
23610	E10	28
23611	E11	28
23612	E12	28
23614	E14	28
23616	E16	28

542SET10-6

542SET10-12



1/4"



Nr kat.	size (mm)	L (mm)
542204	4	50
542205	5	50
542206	6	50
542207	7	50
542208	8	50
542209	9	50
542210	10	50
542211	11	50
542212	12	50
542213	13	50

522SET10



1/4"



Nr kat.	size (mm)	L (mm)
522204	4	25
522205	5	25
522206	6	25
522207	7	25
522208	8	25
522209	9	25
522210	10	25
522211	11	25
522212	12	25
522213	13	25

ASTA

NARZĘDZIA RĘCZNE



543SET10-6



3/8"

Nr kat.	size (mm)	L (mm)
543608	8	63
543610	10	63
543611	11	63
543612	12	63
543613	13	63
543614	14	63
543615	15	63
543616	16	63
543617	17	63
543619	19	63

542SET10-6



1/4"

Nr kat.	size (mm)	L (mm)
542604	4	50
542605	5	50
542606	6	50
542607	7	50
542608	8	50
542609	9	50
542610	10	50
542611	11	50
542612	12	50
542613	13	50

A-IN222 1/4"



1/4"

Nr kat.	size (mm)	L (mm)
22205	5/32	25
22206	3/16	25
22207	7/32	25
22208	1/4	25
22209	9/32	25
22210	5/16	25
22211	11/32	25
22212	3/8	25
22214	7/16	25
22215	15/32	25
22216	1/2	25
22218	9/16	25

720SET9



1/4"

Nr kat.	size (mm)	L (mm)
720202	2	37
720203	3	37
720204	4	37
720205	5	37
720206	6	37
720207	7	37
720208	8	37
720209	9	37
720210	10	37

543SET10-12



3/8"

Nr kat.	size (mm)	d1 (mm)	t (mm)	d2 (mm)	L (mm)
543208	8	11.8	17.0	9	63
543210	10	14.5	17.0	9	63
543211	11	15.7	17.0	12	63
543212	12	17.0	16.0	12	63
543213	13	18.5	16.5	12	63
543214	14	19.6	17.0	15	63
543215	15	20.9	18.0	15	63
543216	16	22.0	19.0	15	63
543217	17	23.4	20.0	15	63
543219	19	24.0	23.0	18	63

A-R40014 1/4"

A-R40038 3/8"

A-R40012 1/2"



10 pcs



Nr kat.	L (mm)	L1 (mm)
A - R40014	190	20
A - R40038	260	20
A - R40012	275	20



ASTA

NARZĘDZIA RĘCZNE

A-11IM12 3/8"



Nr kat.	size (mm)	L (mm)
13210	5/16	28
13212	3/8	28
13214	7/16	28
13216	1/2	28
13218	9/16	28
13220	5/8	28
13222	11/16	30
13224	3/4	30
13226	13/16	30
13228	7/8	30
13230	15/16	30

A-9HIN38 3/8"



Nr kat.	size (mm)	L (mm)
320304	1/8	48
320305	5/32	48
320306	3/16	48
320307	7/32	48
320308	1/4	48
320310	5/16	48
320312	3/8	48
320314	7/16	48
320316	1/2	48

A-8CR38IN



3/8":

Calowe - 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8"

A-10CR38



3/8":

Metryczne - 10,11,12,13,14,15,16,17,18,19mm

S-P1214R

materiał:Cr-V Socket, Mat Finish + Knurling



1/4" 12 PCS

Nr kat.	SIZE (mm)	Nr kat.	SIZE (mm)
S14204	5/32" x 12mmL	S14209	11/32" x 12mmL
S14245	3/16" x 12mmL	S14210	3/8" x 12mmL
S14255	7/32" x 12mmL	S14212	7/16" x 12mmL
S14206	1/4" x 12mmL	S14213	15/32" x 12mmL
S14207	9/32" x 12mmL	S14215	1/2" x 12mmL
S14208	5/16 x 12mmL	S14214	9/16" x 12mmL

523SET10-6

materiał:Cr-V



3/8" 10 PCS

L (mm)	3/8"
3/8"	8, 10, 11, 12, 13, 14, 15, 16, 17, 19 mm

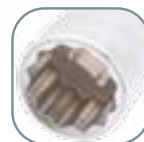
523SET10-12

materiał:Cr-V Socket



3/8" 10 PCS

L (mm)	3/8"
3/8"	8, 10, 11, 12, 13, 14, 15, 16, 17, 19 mm





ASTA

HAND TOOLS

927040

Material: Stal S2



Bits	10mm x L75mm
	4, 5, 6, 7, 8, 10, 12mm
	T20; T25; T30; T40; T45; T50; T55
	M5; M6; M8; M10; M12
Bits	10mm x L30mm
	4, 5, 6, 7, 8, 10, 12mm
	T20; T25; T30; T40; T45; T50; T55
	M5; M6; M8; M10; M12

A-44PBS

Material: Stal S2

44 szt/pcs



Bits	10mm x L30mm
	4, 5, 6, 7, 8, 10, 12mm
	T20; T25; T30; T40; T45; T50; T55
	M5; M6; M8; M10; M12
Adapter for bits 3/8" x 10mm	
Adapter for bits 1/2" x 10mm	
1/2" Dr. TX70 x 100mmL	
1/2" Dr. TX80 x 70mmL	

S-40BS2

Material: Stal S2



Bits	10mm x L75mm
	4, 5, 6, 7, 8, 10, 12mm
	T20; T25; T30; T40; T45; T50; T55
	M5; M6; M8; M10; M12
Bits	10mm x L30mm
	4, 5, 6, 7, 8, 10, 12mm
	T20; T25; T30; T40; T45; T50; T55
	M5; M6; M8; M10; M12

S-SE912

9 PCS

material:Cr-V Socket, Mat Finish + Knurling



1/2"

L (mm)	1/2" E-TORX	
38.2	E10-11-12-14-16-18-20-22-24	

S-RB1412

material: Cr - V

1/2" 14 PCS

ADAPTOR
1/2"

1/2"	RIBE5,RIBE6,RIBE7, RIBE8,RIBE10,RIBE12 L = 30
1/2"	RIBE7,RIBE8,RIBE9,RIBE10,RIBE12, RIBE13,RIBE14 L = 75

S-BS24S

material: Cr - V, S2

1/4" 24 PCS



1/4"	PH1, PH2, PZ1, PZ2, SL 4mm, SL 6 mm, HEX3, HEX4, HEX5, HEX6, T10, T15, T20, T25, T30
1/4"	12-kt VARIO-PLUS: 6, 7, 8, 10, 11, 13 mm
1pc ratchet handle, 1pc 25mmL adapter, 60mmL Bit Holder	

A-T12ES

1/2"+1/4" 12 PCS



L (mm)		12pcs 1/4"+1/2" TORX Extractor Set
1/4"		TE 10; TE 15; TE 20; TE 25; TE 27; TE 30; TE40. - 50mm, Ø6mm
1/2"		TE 45; TE 50; TE 55 - 38mm, Ø10mm
1/4"		1/4*1/4"Adaptor
1/2"		1/2"x10mm Adaptor

A-H12ES

1/2"+1/4" 12 PCS



L (mm)		12pcs 1/4"+1/2" HEX Extractor Set
1/4"		H1.5; H2; H2.5; H3; H4; H5; H6. - 50mm, Ø6mm
1/2"		H7; H8; H10 - 38mm, Ø10mm
1/4"		1/4*1/4"Adaptor
1/2"		1/2"x10mm Adaptor

A-921MS

3/8"



1 PCS

Nr kat.	SIZE (mm)	L (mm)	Waga
A - 921MS	9 - 21	65x27x27	65



TX SET-23

materiał:CHROM VANADIUM

1/2" 23 PCS



1/2" E	T30, T40, T45, T50, T55, T60 E12, E14, E16, E18, E20, E22, E24 (mm)
8mm	T10, T15, T20, T25, T27, T30, T40, T50, T60 L=36 mm 1/2" x 8mm

A-TXSET34

materiał:CHROM VANADIUM

3/8" 34 PCS



3/8" E	E4, E5, E6, E7, E8, E10, E11, E12, E14, E16, E18, E20
3/8"	T10, T15, T20, T25, T27, T30, T40, T45, T50, T55, T60
3/8"	T10, T15, T20, T25, T27, T30, T40, T50, T60 Adapter do bitów 3/8" x 5/16"

HEX SET-12

materiał:CHROM VANADIUM

1/2" 12 PCS



1/2"	HEX4, HEX5, HEX6, HEX8, HEX10, HEX12 L = 62
1/2"	HEX4, HEX5, HEX6, HEX8, HEX10, HEX12 L = 138

A-SHS21

materiał:CHROM VANADIUM

1/2" 21 PCS



1/2"	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32, 34, 36 mm
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A-SHEX12

1/2" 21 PCS



1/2"	H5, H6, H7, H8, H10, H12, H14, H16, H17, H18, H19, H22 L = 62
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A-10INCH

materiał:CHROM VANADIUM

1/2" 10 PCS



1/2"	11/16, 3/4, 13/16, 7/8, 15/16, 3/8, 7/16, 1/2, 9/16, 5/8 L = 38 mm
------	---

916179

1/4" + 1/2" + 3/8" 179 PCS

materiał:CHROM VANADIUM



system SuperLock

5/16"	8, 10, 12
5/16"	3, 4
5/16"	3, 4
5/16"	7, 8, 10, 12, 14
5/16"	T40, T45, T50, T55, T60, T70
5/16"	TH40, TH45, TH50, TH55, TH60, TH70

1/4"	4, 5, 5
1/4"	PH1, PH2
1/4"	PZ1, PZ2
1/4"	M5, M6, M8
1/4"	T8, T9, T10, T15, T20, T25, T27, T30
1/4"	TS10, TS15, TS20, TS25, TS27, TS30, TS40, TS45

1/4"	50, 100 mm
1/2"	125 mm 250 mm
3/8"	150 mm
	1/4" 1/2" 3/8"
	1/4" 1/2"
	1/2"
HEX Typ "L"	1, 1.5, 2, 2.5, 3, 4, 5 mm
	1/4"
1/4"	E4, E5, E6, E7, E8
3/8"	E10, E11, E12, E14, E16, E18
1/2"	E20, E24

1/4"	4, 5, 6, 7, 8, 9, 10 (mm)
1/2"	16, 17, 18, 19, 22 (mm)
3/8"	10, 11, 12, 13, 14, 15 (mm)
1/4"	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (mm)
1/2"	10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32 (mm)
3/8"	10, 11, 12, 13, 14, 15, 16, 17, 18, 19 (mm)
	1/4" 1/2" 3/8"
1/2"	16, 21 mm do świca
3/8"	18 mm do świca
	1/4" 3/4" 1/2" 5/16" 3/8" 5/16"
	1/4"



ASTA

HAND TOOLS

S-ST60B

materiał: CRV Socket, Knurling

1/4", 1/2", 3/8" 60 PCS**916094**

materiał: CHROM VANADIUM

1/4" + 1/2" 94 PCS**S-SS941214**

materiał: CHROM VANADIUM

1/4" + 1/2" 94 PCS

	1/4"
E-TORX:	E4-5-6-7-8
TORX z otworem:	T6-7-8-9-10-15-20-25-27-30
TORX:	TT6-7-8-9-10-15-20-25-27-30
TORX PLUS:	TP8-10-15-20-25-27-30

	3/8"
E-TORX:	E10-11-12-14-16
TORX z otworem:	T40-45-47-50-55
TORX:	TT40-45-47-50-55
TORX PLUS:	TP40-45-50

	1/2"
E-TORX:	E18-20-22-24
TORX z otworem:	T60-70
TORX:	TT60-70
TORX PLUS:	TP55-60

1/4"		6, 7, 8, 9, 10, 11, 12, 13 (mm)
1/2"		14, 15, 17, 19 (mm)
1/4"		4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (mm)
1/2"		10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 (mm)
		1/4" 1/2"
1/2"		16, 21 mm
		33 PCS/szt.

1/4"		50, 100 mm
1/2"		125 mm 250 mm
		1/4" 1/2"
		1/4" 1/2"
		1/2"
		1.5, 2, 2.5 mm
		1/4"
		1/4"

1/4"		4, 5.5, 7
1/4"		PH1, PH2
1/4"		PZ1, PZ2
1/4"		H3, H4, H5, H6
1/4"		T8, T10, T15, T20, T25, T30
8mm		8, 10, 12
8mm		PH3, PH4
8mm		PZ3, PZ4
8mm		H8, H10, H12, H14
8mm		T40, T45, T50, T55

1/4"		6, 7, 8, 9, 10, 11, 12, 13 (mm)
1/2"		14, 15, 17, 19 (mm)
1/4"		4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 (mm)
1/2"		10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 27, 30, 32 (mm)
		1/4" 1/2"
1/2"		16, 21 mm
		33 PCS/szt.

1/4"		50, 100 mm
1/2"		125 mm 250 mm
		1/4" 1/2"
		1/4" 1/2"
		1/2"
		1.5, 2, 2.5 mm
		1/4"
		1/4"

1/4"		4, 5.5, 7
1/4"		PH1, PH2
1/4"		PZ1, PZ2
1/4"		H3, H4, H5, H6
1/4"		T8, T10, T15, T20, T25, T30
8mm		8, 10, 12
8mm		PH3, PH4
8mm		PZ3, PZ4
8mm		H8, H10, H12, H14
8mm		T40, T45, T50, T55

S-19GL12

materiał: Cr-V

1/2" 19 PCS

1/2" XZN	8; 9; 10; 11; 12; 13; 14; 15; 16; 17; 18; 19; 20; 21; 22; 24; 27; 30; 32; - (5/16 "11/32"; 3/8 "; 7/16 "15/32 "; 1/2"; 9/16 "19/32"; 5/8 "3/42" 25/32 "13/16"; 7/8 "15/16"; 1-1/16 "1-3/16"; 1-1/4")
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A-32HIN

Materiał: CRV
Bits: Stal S2

32 PCS



1/2" 55mmL	H14 (722414) ; H15 (722415) ; H17 (722417)
3/8" 48mmL	H7 (720307) ; H8 (720308) ; H9 (720309) ; H10 (720310) ; H12 (720312)
1/4" 37mmL	H2 (720202) ; H2.5 (720225) ; H3 (720203) ; H4 (720204) ; H5 (720205) ; H5.5 (720255) ; H6 (720206)
1/2" 55mmL	11/16" (320422) ; 5/8" (320420) ; 9/16" (320418)
3/8" 48mmL	1/2" (320416) ; 7/16" (320414) ; 3/8" (320412) ; 5/16" (320310) ; 9/32" (320309)
1/4" 37mmL	1/4" (320208) ; 7/32" (320207) ; 3/16" (320206) ; 5/32" (320205) ; 1/8" (320204) ; 3/32" (320205) ; 5/64" (320201)

A-TBX4

Materiał: Stal Chromowo
Wanadowa, Stal S2

1/2" 4 PCS



Nr kat.	SIZE (mm)
T70 T80 T90 T100	For the assembly of cylinder head bolts in Mercedes-Benz , Ford, BMW, Citroen, Renault, Audi.
TX70 x 110mmL	cylinder head bolts of many brands, oil filter tub
TX80 x 110mmL	cylinder head bolts of many brands, oil filter tub
TX80 x 110mmL	cylinder head bolts
TX100 x 110mmL	steering arm, MAN, F series

A-14ISE37

Materiał: Stal CR-V



1/4"

37 PCS

Nr kat.	SIZE (mm)
Wkrętak z rękojścią	75 mm
Przedłużka 1/4"	50 mm
Nasadki udarowe 6-ktne 1/4"	4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm
Bity płaskie	SL 4, 5.5, 7 mm
Bity Philips	PH1, PH2, PH3
Bity Pozidriv	PZ1, PZ2, PZ3
Bity Torx	T10, T15, T20, T25, T30, T40
Bity Hex	H3, H4, H5, H6, H7, H8

A-TC210



1/2"	13, 14, 15, 17, 19, 22, 24, 27, 30mm
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A-LB36S

Materiał bitów: S2

Materiał: CRV + POM

36 PCS



Nr kat.	SIZE (mm)
Bity L=25mm	PH1x2szt, PH2x8szt, PH3x2szt, RO: RO2x4szt
Bity L=50mm	PH1, PH2, PZ2x2szt, SL6.5mm, H4, H5, H6, TX10, TX15, TX20, TX25, TX30, TX40 (bez otworu) ; RO: RO2x2szt
Magnetyczne końcówki do nakrętek L=65mm	1/4"; 5/16"; 3/8"
Stainless Bit Holder	L= 60mmL

S-4RSA

Materiał: Carbon Steel + PP

1/4"

3/8"

1/2"

80 CLIPS



1/4"	26pcs - 6.3mm
3/8"	30pcs - 10mm
1/2"	24pcs - 12.5mm

A-5TLB

1/2" 5 PCS



	75 FT-lbs (100NM)
	80 FT - lbs (110NM)
	90 FT- lbs (120NM)
	100 FT- lbs (135NM)
	110 FT- lbs (150NM)
L=195 mm	

A-6DFS

1/2" 6 PCS

materiał:CHROM VANADIUM



8x9	L=18.5
10x11	L=20
12x13	L=21.7
14x15	L=24.2
16x17	L=25.8
18x19	L=27.8

A-15GOTH

3/8" 15 PCS

materiał:CHROM VANADIUM



A-GT10	3/8"-10mm
A-GT11	7/16"-11mm
A-GT12	15/32"-12mm
A-GT13	1/2"-13mm
A-GT14	9/16"-14mm
A-GT15	19/32"-15mm

A-GT16	5/8"-16mm
A-GT17	11/16"-17mm
A-GT18	23/32"-18mm
A-GT19	3/4"-19mm

A-GT200	3/8" Dr. Quick Release Adapter
A-KHG72	19mm 72T Ratchet Grzechotka przelotowa 1/2" 72 zęby
A-GT08	5/16"-8mm
A-GT303	19mm Extension Bar 3" Przedłużka 1/2" - 75mm
A-GTA	3/8" Dr. x 19mm Socket Adapter



ASTA

HAND TOOLS

S-34TES

materiał:Cr-V Socket

**1/4"
3/8"****34 PCS**

3/8" TORX		T10; T15; T20; T25; T27; T30; T40; T45; T50; T55; T60
3/8" BITY TORX		E8; E10; E11; E12; E14; E16; E18; E20
1/4" E-TORX		E4; E5; E6; E7
BITY TORX TRAMPER		T10; T15; T20; T25; T27; T30; T40; T45; T50; T60
3/8" x 5/16"		Adaptor do bitów

S-ST3212

materiał:Cr-V Socket, Mat Finish + Knurling

**1/2"****32 PCS**

L (mm)	1/2" TORX
55	T20-25-27-30-40-45-50-55-60-70
100	T20-25-27-30-40-45-50-55-60-70
140	T40-45-50-55-60-70
200	T40-45-50-55-60-70

S-SH3012

materiał:Cr-V Socket, Mat Finish + Knurling

**1/2"****30 PCS**

L (mm)	1/2" HEX
55	H5-6-7-8-10-12-14-17-19
100	H5-6-7-8-10-11-12-13
140	H5-6-7-8-10-12-14
200	H5-6-7-8-10-12

S-SS2612

materiał:Cr-V Socket, Mat Finish + Knurling

**1/2" 26 PCS**

L (mm)	1/2" XZN
55	M5-6-8-9-10-12-14-16
100	M5-6-8-9-10-12-14
140	M5-6-8-9-10-12-14
200	M8-10-12-14

S-H13SAE

materiał:Cr-V Socket, Mat Finish + Knurling

**1/4"****3/8" 13 PCS**

L (mm)	1/2" HEX
1/4" 38mm	5/64", 3/32", 1/8", 5/32", 3/16", 7/32", 1/4". Dł. 38mm
3/8" 48mm	9/32", 5/16", 3/8", 7/16", 1/2". Dł. 50mm
1/2" 55mm	9/16". dł. 56mm

S-SH1212L

materiał:Cr-V Socket, Mat Finish + Knurling

**1/2" 12 PCS**

L (mm)	1/2" HEX
55	H4-5-6-8-10-12
140	H4-5-6-8-10-12

S-SH1212

materiał:Cr-V Socket, Mat Finish + Knurling

**1/2" 12 PCS**

L (mm)	1/2" HEX
55	H5-6-7-8-10-12-14-16-17-18-19-22

S-12GW72

materiał:Cr-V Socket, Mat Finish + Knurling

**12 PCS**

	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 22. ilość zębów 72
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S-12FGW72

materiał:Cr-V Socket, Mat Finish + Knurling

**12 PCS**

	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 19, 22. ilość zębów 72
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S-H125TP

materiał:Cr-V Socket, Mat Finish + Knurling



1/4"
3/8"
1/2" 12 PCS

L (mm)	1/2" / 1/4" / 3/8" TORX 5-kałtne, z otworem typu TS
1/4" TORX	TS8, TS10, TS15, TS20, TS25, TS27, TS30; L=37mm
3/8" TORX	TS40, TS45, TS50, TS55; L=48mm
1/2" TORX	TS60; L=55mm

S-H912S

materiał:Cr-V Socket, Mat Finish + Knurling



1/2" 9 PCS

L (mm)	1/2" HEX 80mm
1/2" HEX	H4, H5, H6, H7, H8, H10, H12, H14, H17

S-H125WT

materiał:Cr-V Socket, Mat Finish + Knurling



1/4"
3/8"
1/2" 12 PCS

L (mm)	1/2" / 1/4" / 3/8" TORX ORX 5 KAŁTNE
1/4" TORX	TS8, TS10, TS15, TS20, TS25, TS27, TS30; L=37mm
3/8" TORX	TS40, TS45, TS50, TS55; L=48mm
1/2" TORX	TS60; L=55mm

S-H2548T

materiał:Cr-V Socket



1/4"
3/8"
1/2" 25 PCS

L (mm)	1/2" / 1/4" / 3/8" TORX/E
1/4" TORX	T8, T10, T15, T20, T25, T27, T30; L=38mm
1/4" E-TORX	E4, E5, E6, E7, E8; L=25mm
3/8" TORX	T40, T45, T50, T55; L=48mm
3/8" E-TORX	E14, E16, E18, E20; L=30mm
1/2" TORX	T60; L=55mm
1/2" E-TORX	E-22; L=38mm

S-A13NT

materiał:Cr-V Socket, Mat Finish + Knurling



1/4"
3/8"
1/2" 13 PCS

L (mm)	1/2" / 1/4" / 3/8" TORX
1/4" TORX	T8, T10, T15, T20, T25, T27, T30; L=37mm
3/8" TORX	T40, T45, T50, T55; T60 L=48mm
1/2" TORX	T70; L=55mm

S-A13WT

materiał:Cr-V Socket, Mat Finish + Knurling



1/4"
3/8"
1/2" 13 PCS

L (mm)	1/2" / 1/4" / 3/8" TORX z otworem typu TX
1/4" TORX	T8, T10, T15, T20, T25, T27, T30; L=37mm
3/8" TORX	T40, T45, T50, T55; T60 L=48mm
1/2" TORX	T70; L=55mm

S-34166SH

16 PCS



3/4" Dr.6PT Short Hand Socket Set with Reversible Ratchet

12pcs socket 50BV30	klucze nasadowe 3/4" 6-kt: 19, 21, 22, 24, 27, 30, 32, 36, 38, 41, 46, 50 mm
przedłużki 3/4": 200, 400 mm Carbon Steel	klucz grzechotkowy 3/4" z teleskopową rękojeścią
socket adapter 3/4" to 1/2"	
3/4" reversible ratchet with 24T Carbon Steel	

S-MB245

materiał:Cr-V

1/4"
1/2" 24 PCS



1/4" 25mmL	5/32"(S14604), 3/16" (S14645), 7/32" (S14655), 1/4" (S14606), 9/32" (S14607), 5/16" (S14608), 11/32" (S14609), 3/8" (S14610), 13/32" (S14611), 7/16" (S14612), 15/32" (S14613)
1/2" 38mmL	1/2" (S12613), 9/16" (S12614), 19/32" (S12615), 5/8" (S12616), 11/16" (S12617), 3/4" (S12619), 13/16" (S12621), 7/8" (S12622), 15/16" (S12623)
1/2" 43mmL	1" (S12625), 1-1/16" (S12627)
1/2" 44mmL	1-1/8" (S12628)
1/2" 45mmL	1-1/4" (S12632)

S-P14ES

materiał:Cr-V Socket, Mat Finish + Knurling

3/8" 14PCS
1/4"
1/2"



L (mm)	1/2" / 1/4" / 3/8" E-TORX
1/4" E-TORX 38mmL	E4 (S14E4), E5 (S14E5), E6(S14E6), E7(S14E7), (S14E8)E8
3/8" E-TORX 28mmL	E10 (S38E10), E11 (S38E11), E12 (S38E12), E14 (S38E14), E16 (S38E16)
1/2" E-TORX 40mmL	E18 (S12E18), E20 (S12E20), E22 (S12E22), E24 (S12E24)

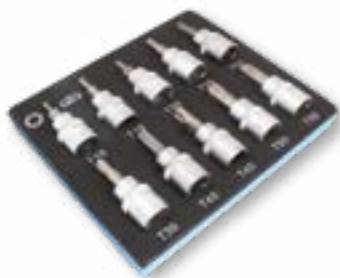


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HAND TOOLS

S-H138NT

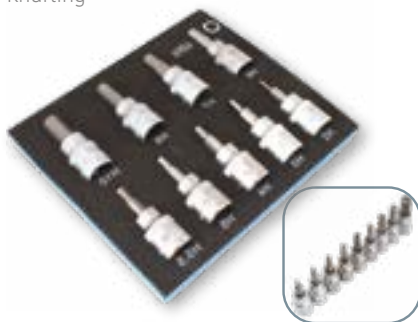
materiat:Cr-V Socket, Mat Finish + Knurling

**3/8" 10 PCS**

L (mm)	3/8" TORX Z OTWOREM
3/8" TORX	T10, T15, T20, T25, T27, T30, T40, T45, T50, T55; L=48mm

S-A938H

materiat:Cr-V Socket, Mat Finish + Knurling

**3/8" 9 PCS**

L (mm)	3/8" HEX
3/8" HEX	H2, H3, H4, H5, H5.5, H6, H7, H8, H10, L=48mm

S-H812S

materiat:Cr-V Socket, Mat Finish + Knurling

**1/2" 8 PCS**

L (mm)	1/2" HEX 140mm
1/2" HEX	H5, H6, H7, H8, H10, H12, H14, H17

A-SF12TB

materiat:Cr-Mo Socket

**1/2" 6 PCS**

L (mm)	1/2" TORX
1/2" TORX	T55, T60, T70, T80, T90, T100

A-HN512

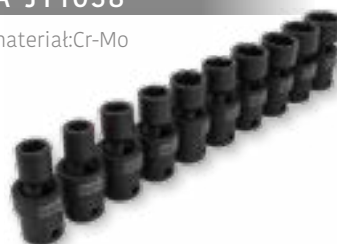
materiat:Cr-Mo
Bitsmaterial: S2

**1/2" 5PCS**

L (mm)	1/2" Hub-Nut Socket/Bit Set
1/2"	Impact Socket:24,30,32mm Impact Hex Bit Socket:14, 17mm

A-JT1038

materiat:Cr-Mo

**3/8" 10 PCS**

L (mm)	53
3/8"	10,11,12,13,14,15,16,17,18,19

A-HEX40F

materiat:Cr-Mo Socket

**1/2" 40 PCS**

Nr kat.	SIZE (mm)
Short Impact Socket (19pcs)	9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-30mm
Long Impact Socket (19pcs)	9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24-26-27-30mm
1pc 1/2" power extension	125mm (211405P)
1pc 1/2" force ball joint	(274100P)
A-WST78 Tesla 1/2"	1/2" Dr. x 7/8"

A-WN1210

materiat:Cr-Mo

**1/2" 10 PCS**

Nr kat.	SIZE (mm)
A-WN15	15mm
A-WN17	17mm
A-WN19	19mm
A-WN21	21mm
A-WN22	22mm
A-WN23	23mm
A-WN24	24mm
A-WSM17 Benz"	1/2" 17mm
A-WSHK21 Hyundai / Kia	1/2" Dr. x MS21
A-WST78 Tesla 1/2"	1/2" Dr. x 7/8"

S-QR72S

materiat:Cr-V

**1/4"
3/8"
1/2" 3 PCS**

L =89 mm	S-QR1472 1/4"
L =108 mm	S-QR3872 3/8"
L =134 mm	S-QR1272 1/2"





S-SLS738

materiał:Cr-V Socket, Mat Finish + Knurling



3/8" 7 PCS

L (mm)	3/8" TORX	
110	T25-30-40-45-50-55-60	

S-SAE738

materiał:Cr-V Socket, Mat Finish + Knurling



3/8" 7 PCS

L (mm)	3/8" HEX	
110	1/8", 5/32", 3/16", 7/32", 1/4" 5/16", 3/8"	

S-SPB738

materiał:Cr-V Socket, Mat Finish + Knurling



3/8" 7 PCS

L (mm)	3/8" XZN	
110	M4, M5, M6, M7, M8, M9, M10	

S-SLH738

materiał:Cr-V Socket, Mat Finish + Knurling



3/8" 7 PCS

L (mm)	3/8" HEX	
110	H3, H4, H5, H6, H7, H8, H10	

A-1MTORX8

1/2" 8 PCS



Materiał: Cr - Mo

NR KAT	SIZES	D1	D2	MAX TORQUE [Nm]
531430	T30	75	10	37.41
531440	T40	75	10	63.31
531445	T45	75	12	103.49
531450	T50	75	14	148.86
531455	T55	75	14	256.56
531460	T60	75	14	444.92
531470	T70	75	20	700.21
531480	T80	75	20	1041.23

A-1MHEX8

1/2" 8 PCS



Materiał: Cr - Mo

NR KAT	SIZES	D1	D2	MAX TORQUE [Nm]
A-1MH5	H5	75	13	34.98
A-1MH6	H6	75	15	60.96
A-1MH8	H8	75	24	139.90
A-1MH10	H10	75	30	254.80
A-1MH12	H12	75	30	479.61
A-1MH14	H14	75	30	479.61
A-1MH17	H17	75	30	479.61
A-1MH19	H19	75	30	479.61

S-TL1038

materiał:Cr-V Socket, Mat Finish + Knurling



3/8" 10 PCS

L (mm)	3/8" TORX	
140	T10, T15, T20, T25, T27, T30, T40, T45, T50, T55;	

A-6HAS

6 PCS



Materiał: Cr - V

NR KAT	L (mm)	U	U
426400	50	3/4"	1/2"
426600	45	1/2"	3/4"
423400	35	3/8"	1/2"
424301	35	1/2"	3/8"
423200	25	3/8"	1/4"
422300	40	1/4"	3/8"

A-1MADA6

6PCS



Materiał: Cr - Mo

NR KAT	L (mm)	U	U
426400P	55	3/4"	1/2"
426600P	50	1/2"	3/4"
434000P	35	3/8"	1/2"
424300P	25	1/2"	3/8"
423200P	25	3/8"	1/4"
422300P	40	1/4"	3/8"



ASTA

HAND TOOLS

A-IS2612

Materiat: Cr - Mo



NR KAT	SIZES	D1	D2	MAX TORQUE [Nm]
531420	T20	78	10	37.41
531425	T25	78	10	37.41
531430	T30	78	10	37.41
531440	T40	78	10	63.31
531445	T45	78	12	103.49
531450	T50	78	14	148.86
531455	T55	78	14	256.56
531460	T60	78	14	444.92
531470	T70	78	20	700.21

NR KAT	SIZES	D1	D2	MAX TORQUE [Nm]
A-1MH5	H5	78	13	34.98
A-1MH6	H6	78	15	60.96
A-1MH8	H8	78	24	139.90
A-1MH10	H10	78	30	254.80
A-1MH12	H12	78	30	479.61
A-1MH14	H14	78	30	479.61
A-1MH16	H16	78	30	479.61
A-1MH19	H19	78	30	479.61

NR KAT	SIZES	D1	D2	MAX TORQUE [Nm]
A-12SI4M	M4	78	13	34.98
A-12SI5M	M5	78	15	60.96
A-12SI6M	M6	78	24	139.90
A-12SI8M	M8	78	24	139.90
A-12SI9M	M9	78	30	254.80
A-12SI10M	M10	78	30	479.61
A-12SI12M	M12	78	30	479.61
A-12SI14M	M14	78	30	479.61
A-12SI16M	M16	78	30	479.61

A-PMS21

Impact Socket For Hyundai and Kia



1/2"

Nr kat.	size (mm)	L (mm)
A-PMS21	21	85

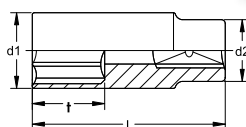
A-I14GL

Nasadki Udarowe

1/2"
14 PCS

Gear Lock

Materiat: Cr - Mo



NR KAT	DRIVE	SIZES (mm)	D1 (mm)	D2 (mm)
141210	1/2"	10	78	17
141212	1/2"	12	78	20
141213	1/2"	13	78	21
141214	1/2"	14	78	22
141215	1/2"	15	78	24
141217	1/2"	17	78	26
141218	1/2"	18	78	28
141219	1/2"	19	78	28
141221	1/2"	21	78	32
141222	1/2"	22	78	32
141224	1/2"	24	78	34
141227	1/2"	27	78	38
141230	1/2"	30	78	42
141232	1/2"	32	78	45

A-WSM17



Nr kat.	size (mm)	L (mm)
A - WSM17	17	85

A-HSI217

A-HSI219

A-HSI221



Nr kat.	SIZE (mm)	L (mm)	MAX Torque (Nm)
A - HSI217	17	85	475
A - HSI219	19	85	565
A - HSI221	21	85	570

A-SS151



Numer KAT.	Rozmiar	Wysokość
424610P	10 mm	28 mm
424611P	11 mm	28 mm
424612P	12 mm	28 mm
424613P	13 mm	28 mm
424614P	14 mm	28 mm
424615P	15 mm	28 mm
424616P	16 mm	28 mm
424617P	17 mm	28 mm
424618P	18 mm	28 mm
424619P	19 mm	28 mm
424620P	20 mm	28 mm
424621P	21 mm	28 mm
424622P	22 mm	28 mm
424623P	23 mm	28 mm
424624P	24 mm	28 mm

544622MP



Nr kat.	size (mm)	L (mm)
544622MP	22	85

A-12IPS6

12 PCS

materiat:Cr-Mo



1"

L (mm)	1" E-TORX
Size(mm):	27, 30, 32, 33, 36, 41, 50, 70, 80, 85, 95, 105



A-AS527

Gear Lock

Materiat: Cr - Mo

1/2"
17PCS

NR KAT	DRIVE	SIZES (mm)	D1 (mm)	D2 (mm)
527610	1/2"	10	38	21
527611	1/2"	11	38	21
527612	1/2"	12	38	21
527613	1/2"	13	38	21
527614	1/2"	14	38	21
527615	1/2"	15	38	17
527616	1/2"	16	38	17
527617	1/2"	17	38	17
527618	1/2"	18	38	17
527619	1/2"	19	38	17
527620	1/2"	20	38	17
527621	1/2"	21	38	17
527622	1/2"	22	38	17
527624	1/2"	24	38	17
527627	1/2"	27	38	17
527630	1/2"	30	38	18
527632	1/2"	32	38	18

545SET10 1/2" 12KT



Nr kat.	size (mm)	L (mm)
545610P	10	78
545613P	13	78
545614P	14	78
545615P	15	78
545616P	16	78
545617P	17	78
545618P	18	78
545619P	19	78
545621P	21	78
545622P	22	78
545623P	23	78

525SET10 1/2"12KT



Nr kat.	size (mm)	L (mm)
525610P	10	38
525611P	11	38
525612P	12	38
525613P	13	38
525614P	14	38
525615P	15	38
525616P	16	38
525617P	17	38
525618P	18	38
525619P	19	38

A-6900A - 19M

1/2"
3/8" 19 PCS

1/2"	21, 22, 24, 27, 28, 30, 32 (mm)
3/8":	8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 (mm)

A-TORX/P

22 PCS



BIT(L=30mm)

5pcs- 1/4"PLUS	TPS10,TPS15,TPS20,TPS25,TPS30
5pcs- 1/4"PLUS	TP10H,TP15H,TP20H,TP25H,TP30H
5pcs- 10mm PLUS	TPS40,TPS45,TPS50,TPS55,TPS60
5pcs- 10mm PLUS	TP40H,TP45H,TP50H,P55H,TP60H
1pc- 3/8"x10 mm adaptor - (nr kat. 103200)	
1pc- 1/4"x1/4" adaptor	

A-SRS14MF

14 PCS



	8, 10, 12, 13, 15, 16, 17, 19, 22, 24
	6,3 (1/4"), 10 (3/8"), 12,5 (1/2") - kwadrat
	dla bitów (1/4")

A-FRS12MF

12 PCS



1/2"	8,9,10,11,12,13,14,15,16,17,18,19 ilość zębów: 72
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A-6XZN

1/2" 8 PCS



L (mm)	1/2" XZN
78	M14 , M16 , M18
43	M14 , M16 , M18
Adaptor 3/4"	24mm
Klucz ampułowy	4mm



ASTA

HAND TOOLS

A-712TF3



T10, 15, 20, 25, 27, 30, 40, 45, 50
L=89 - 227

A-710TX3



T10, 15, 20, 25, 27, 30, 40, 45, 50
L=89 - 226

A-709BP3



1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 10
L=89 - 231

A-712TF2



T10, 15, 20, 25, 27, 30, 40, 45, 50
L=51 - 161

A-712TF1



T10, 15, 20, 25, 27, 30, 40, 45, 50
L=89 - 124

A-709BP2



1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 10
L=64 - 177

A-709BP1



1.5, 2, 2.5, 3, 4, 5, 6, 7, 8, 10
L=46 - 122

1000-71719



Nr kat.	SIZE (mm)	L (mm)
1000 - 71719	17 x 19	316
1000 - 71922	19 x 22	316
1000 - 72427	24 x 27	362
1000 - 72732	27 x 32	448

0926



Nr kat.	SIZE (mm)
0926	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

700-712P

Nr kat.	SIZE (mm)	L (mm)
700 -70607	6x7	168
700 -70809	8x9	183
700 -71011	10x11	198
700 -71213	12x13	217
700 -71415	14x15	239
700 -71617	16x17	260
700 -71819	18x19	292
700 -72022	20x22	318
700 -72123	21x23	327
700 -72427	24x27	339
700 -72528	25x28	347
700 -73032	30x32	362



IN926



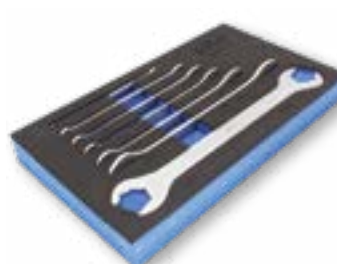
Nr kat.	SIZE (mm)
IN926	1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1 1/16", 1 1/8", 1 1/4"

D912



Nr kat.	SIZE (mm)
D912	6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32

S-7STW



Nr kat.	SIZE (mm)
S-7STW	6x7, 8x9, 10x12, 11x13, 14x17, 19x21, 22x23mm



ASTA

NARZĘDZIA RĘCZNE

MAT FINISH



75°

MAT FINISH



MAT FINISH



Nr kat.	SIZE (mm)	L (mm)
5000 -706	6	102
5000 -707	7	112
5000 -708	8	122
5000 -709	9	131
5000 -710	10	140
5000 -711	11	150
5000 -712	12	160
5000 -713	13	170
5000 -714	14	180
5000 -715	15	190
5000 -716	16	200
5000 -717	17	210
5000 -718	18	220
5000 -719	19	230
5000 -720	20	240
5000 -721	21	250
5000 -722	22	260
5000 -723	23	270
5000 -724	24	280
5000 -725	25	290
5000 -726	26	300
5000 -727	27	310
5000 -728	28	320
5000 -729	29	330
5000 -730	30	340
5000-732	32	360
5000 -733	33	380
5000 -734	34	380
5000 -735	35	410
5000 -736	36	410
5000 -738	38	428
5000 -741	41	460
5000 -745	45	500
5000 -750	50	536
5000 -755	55	610
5000 -760	60	660
5000 -765	65	710
5000 -770	70	760
5000 -775	75	815
5000 -780	80	855
5000 -785	85	860
5000 -790	90	955
5000 -795	95	945
5000 -7100	100	1500
5000 -7105	105	1550

Nr kat.	SIZE (mm)	L (mm)
700 -70607	6 x 7	168
700 -70809	8 x 9	183
700 -70810	8 x 10	183
700 71011	10 x 11	198
700 -71012	10 x 12	198
700 -71113	11 x 13	217
700 -71213	12 x 13	217
700 -71214	12 x 14	217
700 -71314	13 x 14	239
700 -71415	14 x 15	239
700 -71417	14 x 17	260
700 -71617	16 x 17	260
700 -71719	17 x 19	292
700 -71819	18 x 19	292
700 -71922	19 x 22	318
700 -72022	20 x 22	318
700 -72224	22 x 24	327
700 -72326	23 x 26	339
700 -72426	24 x 26	339
700 -72427	24 x 27	339
700 -72528	25 x 28	347
700 -72730	27 x 30	362
700 -73032	30 x 32	362

MAT FINISH



Nr kat.	SIZE (mm)	L (mm)
PFW081	8	144
PFW091	9	150
PFW101	10	158
PFW111	11	165
PFW121	12	173
PFW131	13	177
PFW141	14	190
PFW151	15	202
PFW161	16	215
PFW171	17	229
PFW181	18	240
PFW191	19	252
PFW211	21	275
PFW221	22	275
PFW241	24	296
PFW271	27	129
PFW301	30	141
PFW321	32	156

Nr kat.	SIZE (mm)	L (mm)
900 -70810	8 x 10	143
900 -71011	10 x 11	152
900 -71113	11 x 13	156
900 -71214	12 x 14	178
900 -71417	14 x 17	196
900 -71719	17 x 19	196
900 -72224	22 x 24	252
900 -72427	24 x 27	265
900 -73032	30 x 32	285



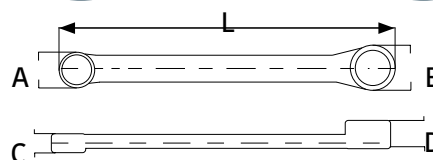
Nr kat.	SIZE (mm)	L (mm)
PFG081	8	144
PFG091	9	150
PFG101	10	158
PFG111	11	165
PFG121	12	173
PFG131	13	182
PFG141	14	190
PFG151	15	202
PFG161	16	215
PFG171	17	229
PFG181	18	240
PFG191	19	252
PFG211	21	275
PFG221	22	285
PFG241	24	296



Nr kat.	SIZE (mm)	MAX (Nm)
PFC08	8mm - 285 mmL	36
PFC10	10mm - 315 mmL	85
PFC12	12mm - 350 mmL	109
PFC13	13mm - 380 mmL	138
PFC14	14mm - 405 mmL	190
PFC17	17mm - 435 mmL	320
PFC19	19mm - 460 mmL	387



Nr kat.	Rozmiar (mm)	L (mm)	A (mm)	B (mm)	C (mm)	D (mm)	MAX (Nm)
A - L0810	8x10	235	12.51	15.00	7.50	8.40	58.55
A - L1011	10x11	291	14.31	17.00	8.50	9.50	98.65
A - L1214	12x14	328	17.80	20.30	10.40	11.30	151.41
A - L1315	13x15	390	20.20	23.30	11.50	13.20	181.91
A - L1618	16x18	407	23.70	26.60	13.00	14.80	297.63
A - L1719	17x19	407	23.70	26.60	13.00	14.80	341.57
A - L2123	21x23	431	31.33	34.00	15.40	17.70	561.04
A - L2224	22x24	431	31.33	34.00	15.40	17.70	625.47





Cr - Mo



Nr kat.	SIZE (mm)	L (mm)
A - IS24	24	168
A - IS27	27	180
A - IS30	30	190
A - IS32	32	190
A - IS36	36	205
A - IS38	38	228
A - IS41	41	230
A - IS46	46	240
A - IS50	50	253

Nr kat.	SIZE (mm)	L (mm)
PFS081	8	98
PFS101	10	98
PFS111	11	103
PFS121	12	106
PFS131	13	182
PFS141	14	115
PFS151	15	115
PFS161	16	119
PFS171	17	127
PFS181	18	131

Nr kat.	SIZE (mm)	L (mm)
400 - 706	6	129
400 - 707	7	135
400 - 708	8	142
400 - 709	9	155
400 - 710	10	161
400 - 711	11	168
400 - 712	12	174
400 - 713	13	180
400 - 714	14	193
400 - 715	15	200
400 - 716	16	207
400 - 717	17	227
400 - 718	18	239
400 - 719	19	250
400 - 720	20	259
400 - 721	21	271
400 - 722	22	295
400 - 723	23	317
400 - 724	24	317



Nr kat.	SIZE (mm)	L (mm)
PFBGM08091	8 x 9	129
PFBGM10111	10 x 11	141
PFBGM12151	12 x 15	156
PFBGM13141	13 x 14	172
PFBGM16181	16 x 18	189
PFBGM17191	17 x 19	200
PFBGM21241	21 x 24	224

Nr kat.	SIZE (mm)	L (mm)
800 - E0608	6 x 8	168
800 - E0711	7 x 11	187
800 - E1012	10 x 12	205
800 - E1418	14 x 18	245
800 - E1622	16 x 22	255
800 - E2024	20 x 24	265



MAT FINISH



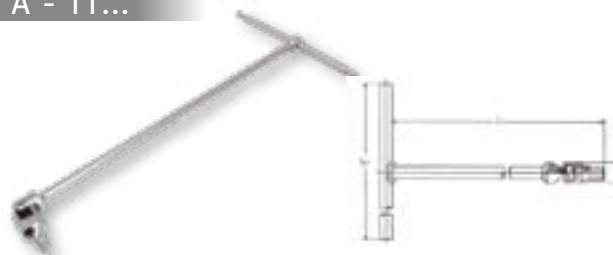
Nr kat.	SIZE (mm)	L (mm)
E10608	E6 x E8	114
E10711	E7 x E11	130
E11012	E10 x E12	141
E11418	E14 x E18	180
E11622	E16 x E22	205
E12024	E20 x E24	224

A - TS....



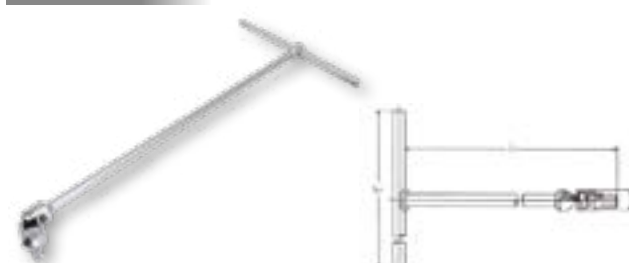
Nr kat.	Rozmiar śruby (mm)	L1 (mm)	L2 (mm)	I (mm)	D (mm)	Waga (g)
A - TS600	6	388	146	7.0	9.5	169
A - TS602	7	388	146	8.7	11.0	170
A - TS604	8	388	146	8.0	12.2	173
A - TS606	9	388	160	9.4	13.0	172
A - TS608	10	392	160	10.1	14.7	281
A - TS610	11	392	160	10.7	15.8	281
A - TS612	12	394	160	12.3	16.9	283
A - TS614	13	420	175	12.9	19.0	391
A - TS616	14	420	175	12.5	19.8	393
A - TS618	15	434	200	14.2	21.0	578
A - TS620	16	434	200	13.2	21.9	588
A - TS622	17	434	200	14.0	23.8	589
A - TS624	18	434	200	14.0	25.9	598
A - TS626	19	485	230	17.4	26.0	903
A - TS628	20	485	230	16.2	28.0	913
A - TS630	21	485	230	15.5	30.0	926
A - TS632	22	485	230	15.2	30.0	923
A - TS634	23	485	230	15.2	30.0	923
A - TS636	24	485	230	19.1	32.0	920

A - TT...



Nr kat.	Rozmiar śruby (mm)	L1 (mm)	L2 (mm)	D (mm)	Waga (g)
A - TT2066	T - 20	400	145	12.05	170
A - TT2567	T - 25	400	145	12.05	170
A - TT2768	T - 27	400	145	12.05	171
A - TT3069	T - 30	400	145	12.05	172
A - TT4070	T - 40	413	160	17.00	288
A - TT4571	T - 45	413	160	17.00	290
A - TT5072	T - 50	435	175	20.0	395
A - TT5573	T - 55	435	175	20.0	400

A - TH...

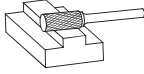
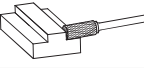
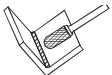
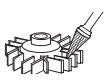


Nr kat.	Rozmiar śruby (mm)	L1 (mm)	L2 (mm)	D (mm)	Waga (g)
A - TH358	3	400	145	13.0	171
A - TH459	4	400	145	13.0	172
A - TH560	5	400	145	13.0	173
A - TH661	6	426	175	20.0	387
A - TH862	8	426	175	20.0	389
A - TH1063	10	426	175	20.0	393



FREZY ROTACYJNE

Typ i Zastosowanie
Type and application

Kształt końcówki Head shape	Nazwa końcówki NHead stules	DIN8033	Kod końcówki Head Code	Zastosowanie Application	Rysunek Diagram
	Walcowy - Płaski Cylindrical Plain End	ZYA	A	Do wykończenia kontruru Suitable for contour finishing	
	Walcowy Czołowy Cylindrical With End Cut	ZYA-S	B	Do wykończenia czołowego i kątowych narożników Suitable for finishing contour and right angled corners	
	Walcowy Półokrągły Cylindrical Ball Nose	WRC	C	Do obróbki powierzchni o łuku kołowym Suitable for finishing machining contour and circular arc surface	
	Kulowy Okrągły Ball	KUD	D	Do zaokrąglonych krawędzi, do usuwania zadziorów przed i po spawaniu. Suitable for rounded edge processing end deburring and pre-machining before welding	
	Szpiczasto - Zaokrąglony Arch Ball Nose	RBF	F	Do zaokrąglonych krawędzi w trudno dostępnych miejscach Suitable for processing rounded edge in small places	
	Szpiczasty Arch Pointed Nose	SPG	G	Do trudno dostępnych miejsc z ostrymi konturami Suitable for processing small places, and acute angled contour	
	Szpiczasto - Stożkowy Conical Pointed Nose	SKM	M	Do zaokrąglonych krawędzi w małych i trudno dostępnych miejsc. Suitable for processing rounded edge and surface in small place	

ZASTOSOWANIE FREZÓW

KROKI STEPS	1	2	3	4	5	6
Zawartość Content	Wybrać obrabia- ny materiał Choose materials machined	Określić wymi- ary skrawania Define the processing requirement	Dobrać odpow- iedni kształt Select appropriate cut	Dobrać odpow- iednią prędkość Obtain the recommended range of cutting speed	Określić średnicę frezu do obrabianej powierzchni Determine the cutter diameter per processing space and requirement	Odszukać war- tość obrotów do średnicy frez oraz prędkość Find out the recommended RPM per cutter diameter and recommended speed in step
Patrz tabele Table look up	Table 1	Table 1	Table 1	Table 1	Table 2	Table 2

Table 1

1	2	3	4
Rodzaj Materiału Material Categories	Wykończenie Processing Regiments	Cięcie Cut	Prędkość Cięcia Cutting Speed (m/min)
Stal i odlewy stalowe Steel and steel castings	Wykończenie szorstkie Rough Finish	Gruby szlif (C) Coarse Cut (C)	600 - 900
		Pojedynczy szlif (P) Single Cut (P)	450 - 600
	Wykończenie gładkie Fine Finish	Podwójny szlif (X) Double Cut (X)	450 - 600
		Pojedynczy szlif (P) Single Cut (P)	500 - 600
		Szybki szlif (V) Speedway Cut (V)	500 - 600



1	2	3	4
Stal i odlewy stalowe 			

Table 2

5 Diameter (mm)	4 Prędkość Cięcia Cutting Speed (m/min)								
	250	300	350	400	450	500	600	900	1100
6 RPM (m/min)									
2	40,000	48,000	56,000	64,000	72,000	80,000	95,000	143,000	175,000
3	27,000	32,000	37,000	42,000	48,000	53,000	64,000	95,000	117,000
4	20,000	24,000	28,000	32,000	36,000	40,000	48,000	72,000	88,000
5	16,000	19,000	22,000	25,000	29,000	32,000	38,000	57,000	70,000
6	13,000	16,000	19,000	21,000	24,000	27,000	32,000	48,000	59,000
8	10,000	12,000	14,000	16,000	18,000	20,000	24,000	36,000	44,000
10	8,000	10,000	11,000	13,000	14,000	16,000	19,000	29,000	35,000
12	7,000	8,000	9,000	11,000	12,000	13,000	16,000	24,000	30,000
16	5,000	6,000	7,000	8,000	9,000	10,000	12,000	18,000	22,000
19	4,000	5,000	6,000	6,000	7,000	8,000	10,000	14,000	18,500
25	3,000	4,000	4,000	5,000	6,000	6,000	8,000	11,000	14,000

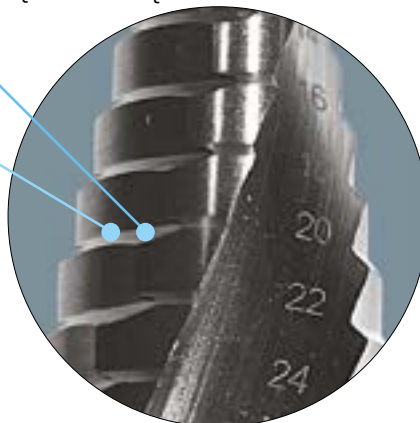


Second Relief (cooling Space)/ Druga Krawędź Chłodząca

PRO/STEP DRILLS

A-HSS4-30

First Relief/Pierwsza Krawędź



- Dwa kąty przyłożenia wiertła, pierwsza pozycja zapewnia cięcie, druga zapewnia chłodzenie powierzchni, gwarantowane chłodzenie zapewnia doskonały efekt i długotrwałe użytkowanie wiertła.
- Możliwość dobrania większego kąta przyłożenia do różnego rodzaju materiałów w których są wiercone otwory.
- Równomierne prowadzenie ciepła
- Specjalna konstrukcja przyłożenia kąta może być stosowana przy prostym typu żłobienia oraz żłobieniu spiralnym.
- Znacznie dłuższa żywotność narzędzia w porównaniu do normalnego typu żłobienia
- Two relief angles, first one for positive cutting and second one for clearance space cooling, guarantee completely perfect cooling result and extra long tool life
- Bigger selecting range of different relief angle to suit different materials drilling
- Smooth low - heat running
- Special relief angle desing can be applied to straight flute type and spiral flute type
- Considerably longer tool life comparing normal same flute type

Rekomendowane użycie wiertel, wiertel stopniowych: Recommendations for the use of step drills, Conical drills:

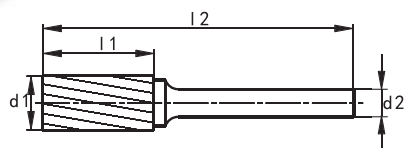
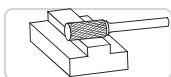
Material		High carb struc. steel	High carb struc. steel	Alloy steel	Inox steel (stainless steel)	Cast Iron	Cast Iron	Cu Zn alloy brittle	CuZn alloy Tough	Al-alloy	Ther-mo-plas-tics	Duro-plas-tics
		<700 N/mm ²	>700 N/mm ²	<1000 N/mm ²	<1400 N/mm ²	<250 N/mm ²	<250 N/mm ²					
Vc=m/min		30	20	20	10	15	10	60	35	30	20	15
Coolant		Cutting spray	Cutting spray	Cutting spray	Cutting spray	Compr Air	Compr Air	Compr Air	Compr Air	Cutting spray	Water	Compr Air
Ø mm	Ø inch	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.	r.p.m.
3 - 8	1/8" - 5/16"	3185 - 1194	2123 - 796	2123 - 796	1062 - 398	1592 - 597	1062 - 398	6369 - 2389	3715 - 1194	3185 - 1194	2123 - 796	1592 - 597
9 - 15	11/32" - 19/32"	1062 - 637	708 - 425	708 - 425	354 - 212	531 - 318	354 - 212	2123 - 1274	1062 - 637	1062 - 637	708 - 425	531 - 318
16 - 22	5/8" - 7/8"	597 - 434	398 - 290	398 - 290	199 - 145	299 - 217	199 - 145	11194 - 869	597 - 434	597 - 434	398 - 290	299 - 217
23 - 29	29/32" - 15/16"	415 - 329	277 - 220	277 - 220	138 - 110	208 - 165	138 - 110	831 - 659	415 - 329	415 - 329	277 - 220	208 - 165
30 - 36	13/16" - 17/16"	318 - 265	212 - 177	212 - 177	106 - 88	159 - 133	106 - 88	637 - 531	318 - 265	318 - 265	212 - 177	159 - 133
37 - 42	1 15/32" - 1 21/32"	258 - 227	172 - 152	172 - 152	86 - 76	129 - 114	86 - 76	516 - 455	258 - 227	258 - 227	172 - 152	129 - 114

PRO/STEP



Min - Max d1 - d2 Ø mm	Steps	Description mm	L1 mm	Ø d3 mm	Max Material Thickness
4 - 30	14	4-6-8-10-12-14-16-18-20-22-24-26-28-30	100.00	10.00	4.0

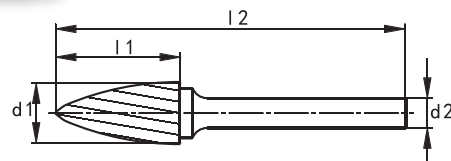
ZYA



Symbol	DIN8033 Standard	d1 (mm)	L1 (mm)	d2 (mm)	L2 (mm)
A-MD7776650*	ZYA0616	6	16	6	50
A-MD7778665*	ZYA0820	8	20	6	65
A-MD77710665*	ZYA1020	10	20	6	65
A-MD77712670*	ZYA1225	12	25	6	70



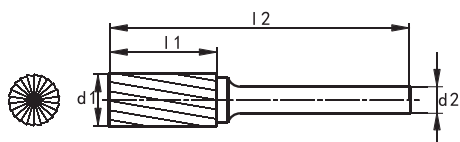
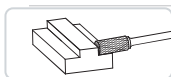
SPG



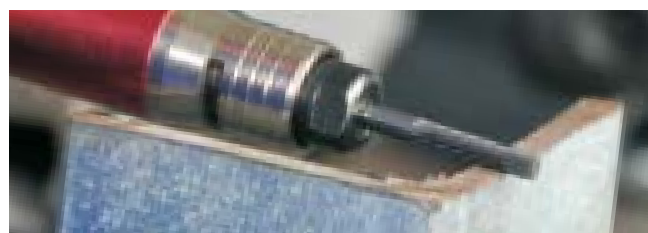
Symbol	DIN8033 Standard	d1 (mm)	L1 (mm)	d2 (mm)	L2 (mm)
A-MD7803338*	SPG0313	3	13	3	38
A-MD7806650*	SPG0618	6	16	6	50
A-MD7808665*	-	8	20	6	65
A-MD78010665*	SPG1020	10	20	6	65
A-MD78012670*	SPG1225	12	25	6	70



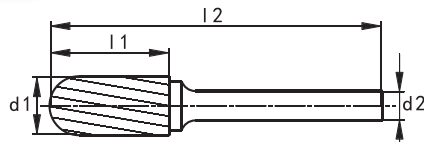
ZYA-S



Symbol	DIN8033 Standard	d1 (mm)	L1 (mm)	d2 (mm)	L2 (mm)
A-MD7784650*	ZYAS0413	4	16	6	50
A-MD7786650*	-	6	16	6	50
A-MD7788665*	ZYAS0820	8	20	6	65
A-MD77810665*	ZYAS1020	10	20	6	65
A-MD77812670*	ZYAS1225	12	25	6	70



WRC



Symbol	DIN8033 Standard	d1 (mm)	L1 (mm)	d2 (mm)	L2 (mm)
A-MD7793338*	WRC0313	3	14	3	38
A-MD7794650*	-	4	16	6	50
A-MD7796650*	WRC0616	6	16	6	50
A-MD7798665*	WRC0820	8	20	6	65
A-MD77910665*	WRC1020	10	20	6	65
A-MD77912670*	WRC1225	12	25	6	70

- Uniwersalna struktura freza nadaje się nawet do najtwardszych materiałów, w tym także do zgrzeń;
- Idealne do produkcji narzędzi i obróbki różnych form konstrukcyjnych;
- Nadają idealnie gładką powierzchnię obrabianego materiału.

* on stock Europe QUICK DELIVERY



ASTA

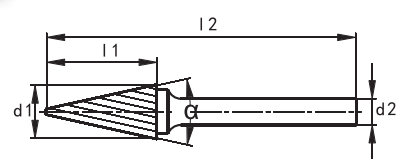
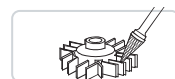
HAND TOOLS



ASTA

NARZĘDZIA RĘCZNE

SKM

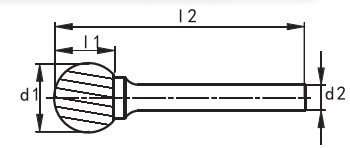
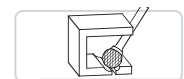


Symbol	DIN8033 Standard	d1 (mm)	L1 (mm)	d2 (mm)	L2 (mm)
A-MD7836650*	SKM0618	6	18	6	50
A-MD7838665*	-	8	20	6	65
A-MD78310665*	SKM1020	10	20	6	65
A-MD78312670*	SKM1225	12	25	6	70



* on stock Europe QUICK DELIVERY

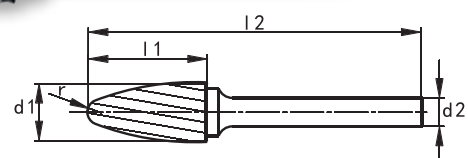
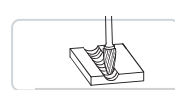
KUD



Symbol	DIN8033 Standard	d1 (mm)	L1 (mm)	d2 (mm)	L2 (mm)
A-MD7873338*	KUD0302	3	2.7	3	38
A-MD7874650*	-	4	5	6	50
A-MD78710654*	KUD1009	10	9	6	54
A-MD78712656*	KUD1210	12	11	6	56



RBF



Symbol	DIN8033 Standard	d1 (mm)	L1 (mm)	d2 (mm)	L2 (mm)
A-MD7883338*	RBF0313	3	13	3	38
A-MD7886650*	RBF0618	6	18	6	50
A-MD7888663*	-	8	18	6	63
A-MD78810665*	RBF1020	10	20	6	65
A-MD78812670*	RBF1225	12	25	6	70



Zestaw wiertel i wykrętałów do urwanych śrub

S-SE10CD

Materiał: HSS 4241

5 SZT. WIERTEL
5 SZT. WYKRĘTAŁÓW

ROZMIAR	Długość robocza (mm)	Długość całkowita (mm)
2mm (5/64")	-	-
2.8mm (7/64")	-	-
4mm (5/32")	-	-
6.4mm (1/4")	-	-
7.5mm (19/64")	-	-



Nitownica ręczna do nitów zrywalnych - H1



- długie, składane uchwyty dla swobodnej pracy oszczędzające miejsce w walizce
- obudowa z wysokostopniowego odlewu aluminium
- ramię wykute ze stali chrom - vanadium
- gumowa rękojeść dla doskonałej kontroli i komfortu pracy
- odporne na zużycie czopy
- w wyposażeniu 4 wymienne głowice

Zakres roboczy Ø (mm)	3.2 - 6.4
Aluminium Ø (mm)	3.2 - 6.4
Stal Ø (mm)	3.2 - 6.4
Stal nierdzewna Ø (mm)	3.2 - 6.4
Długość (mm)	500
Masa (kg)	1.55

Nitownica ręczna do nitów zrywalnych i nitonakrętek H3



- długie, składane uchwyty dla swobodnej pracy oszczędzające miejsce w walizce
- obudowa z wysokostopniowego odlewu aluminium
- ramię wykute ze stali chrom-vanadium
- gumowa rękojeść dla doskonałej kontroli i komfortu pracy
- odporne na zużycie czopy
- w wyposażeniu 4 wymienne głowice

Szczęki wymienne do nitownic ASTA pasują do innych markowych nitownic => O.E.M



Nity zrywalne aluminiowe Ø (mm)	2.4 - 6.4
Nitonakrętki	M4 - M10
Długość (mm)	510
Masa (kg)	1.40

Nitownica ręczna z obrotową głowicą

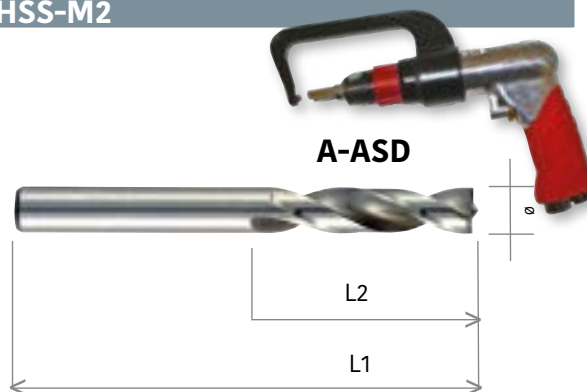
S909



- do nitów zrywalnych: Ø 2,4 - Ø 4,8/5
- do nitokotków gwintowanych: M3 - M6
- do nitonakrętek: M3 - M6
- cztery trzpienie do nitonakrętek
- możliwość obrotu głowicy o 360° pozwala na pracę pod dowolnym kątem
- głowica robocza do nitokotków
- dwa klucze do zmiany osprzętu nitownicy
- wygodne uchwyty
- sprężynowy uchwyt otwierający nitownicę automatycznie
- w wyposażeniu 4 wymienne głowice
- przedłużony "nos" głowicy dla umieszczania nitów w głębszych otworach



Wiertła DO ZGRZEWÓW HSS-M2



- Dzięki specjalnemu szlifowi wiercenie odbywa się bez wstępnego punktowania.
- Do rozwiercania fabrycznych zgrzewów w pojazdach NIE PRZEGRZEWA MATERIAŁU

Nr kat.	Ø (mm)	L1	L2	Opak.
A - SD6166	6,00	66	26	1
A - SD8140	8,00	40	12	1
A - SD8180	8,00	80	26	1



Nitownica ręczna do nitów zrywalnych TC20



- długie uchwyty dla swobodnej i łatwej pracy
- obudowa z wysokostopniowego odlewu aluminium
- gumowa rękojeść dla doskonałej kontroli i komfortu pracy
- dodatkowa sprężyna do redukcji wymaganej mocy
- w wyposażeniu 4 wymienne głowice

Zakres roboczy Ø (mm)	2.4 - 4.8
Aluminium Ø (mm)	2.4 - 4.8
Stal Ø (mm)	2.4 - 4.8
Stal nierdzewna Ø (mm)	2.4 - 4.8
Długość (mm)	450
Masa (kg)	1.15

Nitownica ręczna do nitów zrywalnych TC151



- obudowa z wysokostopniowego odlewu aluminium
- wygodne uchwyty zapewniają komfort pracy
- w wyposażeniu 4 wymienne głowice

Zakres roboczy Ø (mm)	2.4 - 4.8
Aluminium Ø (mm)	do 4.8
Stal Ø (mm)	do 4.8
Stal nierdzewna Ø (mm)	do 4.8
Długość (mm)	410
Masa (kg)	1.15

Nitownica ręczna do nitów zrywalnych H20-1



- długie uchwyty dla swobodnej i łatwej pracy
- obudowa z wysokostopniowego odlewu aluminium
- gumowa rękojeść dla doskonałej kontroli i komfortu pracy
- w poręcznej walizce
- w wyposażeniu 4 wymienne głowice

Zakres roboczy Ø (mm)	3,2 - 6,4
Aluminium Ø (mm)	3,2 - 6,4
Stal Ø (mm)	3,2 - 6,4
Stal nierdzewna Ø (mm)	3,2 - 6,4
Długość (mm)	522
Masa (kg)	1,50

Profesjonalna nitownica ręczna GR12



- sprężynowy uchwyt otwierający nitownicę automatycznie
- w wyposażeniu 4 wymienne głowice
- ergonomiczny uchwyt

Zakres roboczy Ø (mm)	2.4 - 4.8
Aluminium Ø (mm)	do 4.8
Stal Ø (mm)	do 4.8
Stal nierdzewna Ø (mm)	do 4.8
Długość (mm)	245
Masa (kg)	0.60

Nitownica ręczna do nitonakrętek HF152

- obudowa z wysokostopniowego odlewu aluminium
- wygodne uchwyty zapewniają komfort pracy
- sprężynowy uchwyt otwierający nitownicę automatycznie
- w wyposażeniu 4 wymienne głowice



Nitonakrętki	M4 - M10
Długość (mm)	510
Masa (kg)	1.40

Nitownica ręczna HR-007



Zakres nitów: 2,4 - 4,8 mm

Nr kat.	Rozmiar (mm)			Masa (kg)
	L	H	D	
HR-007	270	73	22	0.45



ASTA

HAND TOOLS

A - BC121/12

Nożyce do cięcia prętów Shears to cut the bar



- ❑ Rozmiary: 12", 14", 18", 24", 30", 36"
- ❑ Maksymalna średnica cięcia zależna od rozmiaru nożyc (mogą ciąć pręty stalowe o średnicy od 5mm do 16mm)
- ❑ Wykonane ze stali chromowo molibdenowej CrMo.



- ❑ Sizes: 12", 14", 18", 24", 30", 36"
- ❑ The maximum diameter of the cut depends on the size scissors (can cut bars steel from 5mm to 16mm)
- ❑ Made from chrome molybdenum steel CrMo.

Nr kat.	Rozmiar	Długość (mm)	Metale Miękkie	Metale Średnie
A-BC-121/12	12"	300	5 (3/16")	4 (5/32")
A-BC-121/14	14"	350	7 (1/4")	5 (3/16")
A-BC-121/18	18"	450	8 (5/16")	6 (1/4")
A-BC-121/24	24"	600	10 (3/8")	8 (5/16")
A-BC-121/30	30"	750	13 (1/2")	8 (5/16")
A-BC-121/36	36"	900	16 (5/8")	10 (3/8")



- ❑ Shears for cutting all kinds of carbon steel bars and steel.
- ❑ The use of the different types of work in the construction industry and cutting wires or chains.
- ❑ Also have RIDGED BLADES, which prolongs their life and allows for a smooth and mild cutting of metal.
- ❑ Also have RIDGED BLADES, which prolongs their life and allows for a smooth and mild cutting of metal.
- ❑ Odpowiednią siłę można uzyskać dzięki długościom ramion, od 300 do 900mm, które zakończone są gumowymi nakładkami zapewniające pewny chwyt przy wykonywaniu czynności.



- ❑ Nożyce przystosowane do przecinania różnego rodzaju prętów ze stali węglowej oraz stopowej.
- ❑ Posiadają zastosowanie przy różnego rodzaju pracach zbrojeniowych w budownictwie oraz cięciu drutów czy łańcuchów
- ❑ Posiadają także RYFLOWANE OSTRZA, co przedłuża ich żywotność oraz pozwala na bezproblemowe i łagodne cięcie metali.
- ❑ Posiadają także specjalny przegłub, który potęguje siłę nacisku.
- ❑ Odpowiednią siłę można uzyskać dzięki długościom ramion, od 300 do 900mm, które zakończone są gumowymi nakładkami zapewniające pewny chwyt przy wykonywaniu czynności.

