

Tool-Set



Ordering example: A12390010

Assortment containing:
 8 pcs. Burs of HSS
 8 pcs. Mounted points
 3 pcs. Polishing points
 6 pcs. Mounted flap wheels
 1 pc. Technical brush

Outside dimension of box:
 350 x 92 x 322 mm

PG 8

Product number	Description	piece	Contents	Recommended for	Information on page 438		
A12390010	WK 10	8 pcs.	Burs of HSS MFA 1225.06, Z1 + Z3 MFC 1225.06, Z1 + Z3 MFD 1210.06, Z1 + Z3 MFM 1225.06, Z1 + Z3				
		8 pcs.	Mounted points ZY 0610.06, EKR ZY 1020.06, EKR ZY 1632.06, EKR ZY 1632.06, NK-BA-hart ZY 3208.06, NK-BA-hart SP 2032.06, EKR KU 1616.06, EKR KU 3232.06, EKR				
		3 pcs.	Polishing points P2ZY 1320.06, Korn 120 P2SP 1320.06, Korn 120 P2KU 1616.06, Korn 120				
		6 pcs.	Mounted flap wheels SFL 03010.06, Korn 120 SFL 04020.06, Korn 120 SFL 06030.06, Korn 80 SFL 06030.06, Korn 120 SFV 04020.06, A 104 SFM 04020.06, A 104/80				
		1 pcs.	Technical brush BSSW 05010				

Tool-Set


Ordering example: A12390010

 Assortment containing:
 22 pcs. Burrs of HSS
 15 pcs. Mounted points
 7 pcs. Polishing points
 11 pcs. Mounted flap wheels
 3 pc. Technical brush

 Outside dimension of box:
 350 x 92 x 322 mm

PG 8

Product number	Description	piece	Contents	Recommended for	Information on page 438			
A12390020	WK 20	22 pcs	Burrs of HSS MFA 0616.06, Z1 + Z3 MFA 1225.06, Z1 + Z3 MFC 0620.06, Z1 + Z3 MFC 1225.06, Z1 + Z3 MFD 0605.06, Z3 MFD 1210.06, Z1 + Z3 MFD 1614.06, Z3 MFG 0618.06, Z1 + Z3 MFG 1230.06, Z1 + Z3 MFK 1230.06, Z3 MFM 0618.06, Z1 + Z3 MFM 1225.06, Z1 + Z3 MFW 0830.06					1
		15 pcs	Mounted points ZY 0610.06, EKR ZY 0610.06, EKWbr ZY 1020.06, EKR ZY 1020.06, EKWbr ZY 1632.06, EKR ZY 1632.06, EKWbr ZY 1632.06, NK-BA-hart ZY 3208.06, EKR ZY 3208.06, NK-BA-hart SP 0816.06, EKR SP 2032.06, EKR TO 2020.06, EKR KU 0606.06, EKR KU 1616.06, EKR KU 3232.06, EKR					
		11 pcs	Mounted flap wheels SFL 03010.06, Korn 60 SFL 03010.06, Korn 120 SFL 04020.06, Korn 60 SFL 04020.06, Korn 120 SFL 06030.06, Korn 40 SFL 06030.06, Korn 80 SFL 06030.06, Korn 120 SFV 04020.06, A 104 SFV 04020.06, A 106 SFM 04020.06, A104/80 SFM 04020.06, A 106/150					
		3 pcs	Technical brush BSSW 05010, BSSW 07018, BPSW 02525					
		7 pcs.	Polishing points P2ZY 0616.06, Korn 120 P2ZY 1320.06, Korn 120 P2ZY 1632.06, Korn 120 P2ZY 3232.06, Korn 120 P2SP 1320.06, Korn 120 P2KU 1616.06, Korn 120 P6MA 3030.06, SC 46 MWP					

Tool-Sets F10 S3 and F10 S6



Ordering example: A10390010

10 pieces



PG 1

Product number	Description	Image	Cut	Shank Ø mm	1 piece each	Recommended for Information on page 438		
A10390010	F10 S3		Z7 Steel	3	HFA 0313, HFA 0613, HFC 0313, HFC 0613, HFD 0302, HFD 0605, HFG 0313, HFG 0613, HFM 0613, HFF 0313	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7	<input type="checkbox"/>	1
A1039001006	F10 S6		Z7 Steel	6	HFAS 0616, HFAS 1225, HFC 0616, HFC 1225, HFD 0605, HFD 1210, HFG 0618, HFG 1225, HFF 0820, HFF 1225	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7	<input type="checkbox"/>	1

Tool-Sets



Ordering example: A1039001020

5 pieces and 10 pieces



PG 1

Product number	Description	Image	Cut	Shank Ø mm	1 piece each	Recommended for Information on page 438		
A1039001020	Assortment		Z42 Inox/ Steel	6	HFA 0616, HFA 1225, HFC 0616, HFC 1225, HFD 0605, HFD 1210, HFG 0618, HFG 1225, HFF 0618, HFF 1225	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7	<input type="checkbox"/>	1
A1039000509	Assortment		Z9 Alu	3	HFA 0313, HFC 0313, HFD 0403, HFF 0313, HFG 0313	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7	<input type="checkbox"/>	1
A10390005096	Assortment		Z9 Alu	6	HFA 0616, HFC 0616, HFM 0618, HFF 0618, HFD 0605	<input checked="" type="checkbox"/> 1 <input type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/> 7	<input type="checkbox"/>	1

Tools-Sets Base-X F5



Ordering example: A10390053



PG 1

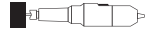
Product number	Description	Image	Shank Ø mm	Cut	Content	1 piece each	Recommended for Information on page 438										
A10390053	F5 S3 Tool-sets BASE-X		3	ZX	5-pieces HFA 0313, HFC 0313, HFD 0605, HFF 0313, HFG 0313		1	2	3	4	5	⑦				■	1
A10390056	F5 S6 Tool-sets BASE-X		6	ZX	5-pieces HFA 1225, HFC 1225, HFD 1210, HFF 1225, HFG 1225		1	2	3	4	5	⑦				■	1

Tool-Sets Burrs of HSS

★★☆



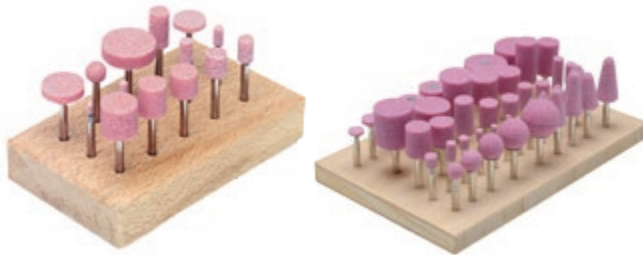
Ordering example: A1239000110



							PG 1							
Product number	Description	Image	Shank Ø mm	Cut	1 piece each	Recommended for Information on page 438								
A1239000110	F1		3	Z5	MF 807, MF 813, MF 841, MF 845, MF 850, MF 853, MF 864, MF 866, MF 872, MF 874	①	②			⑥			■	1
A12390003	F3		6	Z3	MFA 0616, MFA 1225, MFC 1225, MFD 0403, MFD 1210, MFE 1220, MFG 1230, MFH 1230, MFK 0620, MFM 0618	①	②			⑥			■	1
A12390004	F4		6	Z3/Z5	Z3 MFA 0616, MFA 1013, MFA 1225, MFC 1225, MFD 0807, MFD 1210, MFE 1220, MFE 1625, MFG 1220, MFG 1230, MFK 1230, MFL 1630, MFM 0618, MFM 1230, MFN 1213, MFN 1230 Z5 MFA 0304, MFA 0607, MFN 0303, MFN 0606	①	②			⑥			■	1

Mounted point-Assortment

★★☆



Ordering example: A204700001402



PG 3

Product number	Description	Image	Shank diameter mm	Quality	Content	1 piece each	Recommended for Information on page 438		
A204700001402	Assortment 14		3 x 30	EKR	14-pieces	ZY 0205, ZY 0306, ZY 0408, ZY 0510, ZY 0610, ZY 0810, ZY 0816, ZY 1010, ZY 1013, ZY 1313, KU 0808, ZY2 1303, ZY2 1604, ZY2 2006	① ② ③	■	1
A204600000202	Assortment 45		6 x 40	EKR	45-pieces	ZY 0306, ZY 0510, ZY 0408, ZY 0610, ZY 0810, ZY 0816, ZY 1010, ZY 1020, ZY 1032, ZY2 1303, ZY 1313, ZY 1320, ZY2 1604, ZY 1616, ZY 1620, ZY 1632, ZY2 2006, ZY 2020, ZY 2025, ZY 2032, ZY 2040, ZY2 2506, ZY2 2510, ZY 2520, ZY 2525, ZY 2532, ZY2 3208, ZY 3220, ZY 3232, ZY2 4010, ZY 4020, SP 0816, SP 1020, SP 1320, SP 2032, KE 1632, KE 1640, KE 2032, KE 2040, KU 1010, KU 1313, KU 1616, KU 2020, KU 2525, KU 3232	① ② ③	■	1

Mounted point-Assortment

★★☆



Ordering example: A204800003611



PG 3

Product number	Description	Image	Shank diameter mm	Quality	Content	1 piece each	Recommended for Information on page 438															
A204800003611	Assortment 36		3 x 30	EKBR	36-pieces	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36	② ③														■	1
A204800003602	Assortment 36		3 x 30	EKR	36-pieces	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36	① ② ③													■	1	

Mounted points-Assortments, Quality NDW

★★★



Ordering example: A201000000353



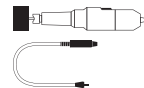
PG 3

Product number	Description	Shank Ø mm	Quality	Contents	1 piece each	Recommended for Information on page 438															
A201000000353	Assortment 10	3 x 50	NDW	10-pieces	ZY 0408, ZY 0610, ZY 0810, ZY 1013, SP 0510, SP 0810, KU 0404, KU 0606, KU 0808, WR 1013	② ③														■	1

Assortment, Polishing points, group P1



Ordering example: A2600114



PG 3

Product number	Description	Contents	1 piece each	Recommended for Information on page 438													
A2600114	Assortment 114	14-pieces	P1ZY 0408.03; P1ZY 0510.03; P1ZY 0610.03; P1ZY 0710.03; P1ZY 0810.03; P1ZY 1010.03; P1ZY 1013.03; P1ZY 1016.03; P1ZY 1303.03; P1ZY 1313.03; P1ZY 1316.03; P1ZY 1604.03; P1ZY 1616.03; P1ZY 2006.03	<table border="1"> <tr> <td>1</td> <td>2</td> <td>3</td> <td>4</td> <td>5</td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	1	2	3	4	5	7						■	1
1	2	3	4	5	7												

Abrasive caps-Assortments WS



Ordering example: A210000065

Assortment containing:
640 pcs. Abrasive Caps
23 pcs. Mandrels



Outside dimension of box:
272 x 189 x 46 mm

NK = regular Aluminium Oxide

PG 9

Product number	Description	piece	Contents	Recommended for Information on page 438		
A210000065	WS 65	50 pcs. 100 pcs. of 50 pcs. of 20 pcs. of 10 pcs. 20 pcs. 10 pcs. of 15 pcs. of 2 pcs. of 1 pcs. of 1 pcs. of	<p>Abrasive Caps, grit NK 150</p> SKKE 0515 SKZY 0510, SKWR 0511, SKWK 0511 SKZY 0712, SKWR 0713, SKWK 0713 SKZY 1015, SKWR 1015 SKKE 1125	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■	1
			<p>Abrasive Caps, grit NK 80</p> SKWK 1015 SKZY 1317, SKWR 1319, SKWK 1319, SKKE 1632 SKWK 1626, SKWR 1626			
			<p>Mandrels, Shank 3 mm</p> GTZY 0510, GTWR 0511, GTWK 0511, GTZY 0712, GTWR 0713, GTWK 0713 GTZY 1015, GTWR 1015, GTWK 1015, GTZY 1317, GTWR 1319, GTWK 1319			
			<p>Mandrels, Shank 6 mm</p> GTKE 0515, GTKE 1125, GTWK 1626, GTWR 1626, GTKE 1632			

Material classification

1 Steels and Cast Steels

Rm up to 800 N/mm²

- common structural steels
- free cutting steels
- case hardened steels
- fine grained structural steels
- extruded steels
- toughened structural steels
- boiler plate
- nitrided steels
- cast steels
- heat treated steels
- heat resistant structural steels

2 Alloyed, Tempered Steels

Rm 800 up to 1200 N/mm²

- case hardened steels
- spring steels
- fine grained structural steels
- nitrided steels
- heat treated steels
- wear resistant steels
- bearing steels

3 Tool Steels

Rm up to 1300 N/mm²

- 60–65 HRC
- high-speed steels
- non-alloyed tool steels
- cold working tool steels
- hot working tool steels

4 Rust, acid and heat resistant Steels and Cast Steels

- austenitic
- ferritic
- ferritic-austenitic
- heat-resistant
- martensitic
- stainless, sulphurized

5 Cast Iron

6 Aluminium, Magnesium and Copper Alloys

- over 300 HB
- 200–300 HB
- up to 200 HB
- over 15% Si
- 10–15% Si
- 0,5–10% Si
- below 0,5% Si

7 Titanium and Nickel Alloys

- Rm 900 up to 1500 N/mm²
- Rm up to 900 N/mm²

8 Plastics, Wood, Rubber

9 Glass/Carbides

10 Stone/Tiles/Gas Cement

11 Concrete/Reinforced Concrete

12 Ceramic/Floor Tiles

13 Marble

14 Granite

15 Freshly Poured Concrete

16 Asphalt

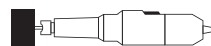
● best suitable

○ suitable

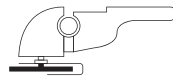
■ delivery ex-stock

▲ delivery on request

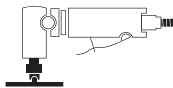
Power tools



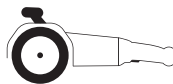
Straight grinder



Free-hand angle grinder



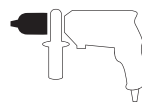
Pneumatic angle grinder



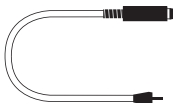
Conditioning machine



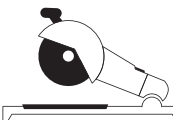
Backstand



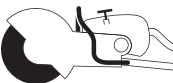
Boring machine



Flexible shaft grinder



Fixed-base cutting machine



Petrol-driven cutting machine

Product Lines

★★★ High Performance

★★☆ Industry

★☆☆ Base

Safety Symbols

(Depending on the product these symbols may vary)



Wear eye protection



Wear hearing protection



Wear a respirator



Read the instructions



Wear gloves



Only permitted with a back-up pad



Not permitted for wet grinding



Not permitted for face grinding



Do not use if damaged



Not permitted for hand-held or manually-guided grinding