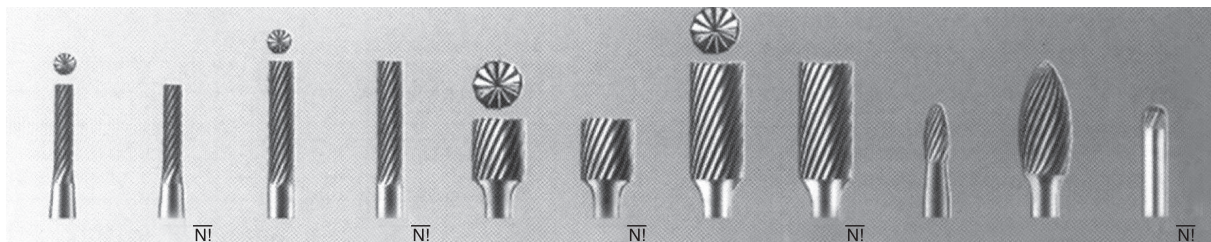
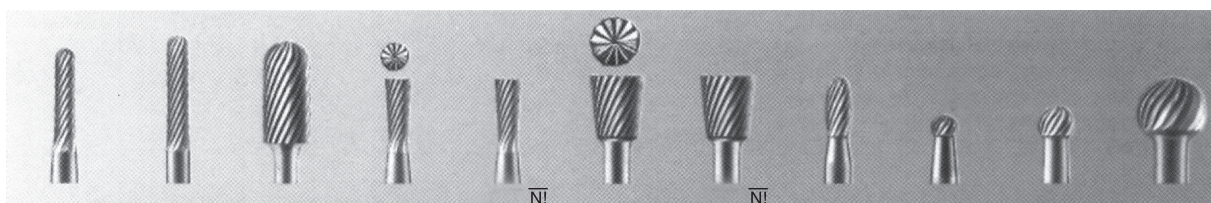


TUNGSTEN CARBIDE MINIATURE BURRS WITH 3MM SHANK

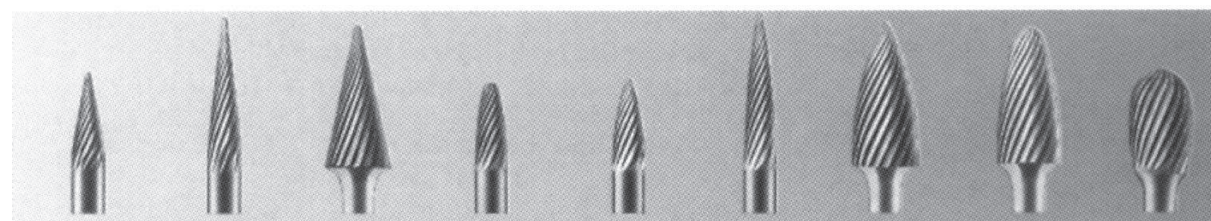
Tungsten Carbide Miniature Burrs



IMPA			632501								
Order No.	ZYA-S 0210/3	ZYA 0210/3	ZYA-S 0313/3	ZYA 0313/3	ZYA-S 0607/3	ZYA 0607/3	ZYA-S 0613/3	ZYA 0613/3	HM 3B 0307/3	HM 3B 0613/3	HM 3C 0302/3
Available Cuts	3P 4 5	3P 4 5	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5	5	5	5
head dis. x head length mm	2 x 10	2 x 10	3 x 13	3 x 13	6 x 7	6 x 7	6 x 13	6 x 13	3 x 7	6 x 13	3 x 2
Shaft dia. x ov. length mm	3 x 40	3 x 40	3 x 43	3 x 43	3 x 37	3 x 37	3 x 43	3 x 43	3 x 37	3 x 43	3 x 33
	1	1	1	1	1	1	1	1	1	1	1
	4	4	5	5	5	5	7	7	4	6	4

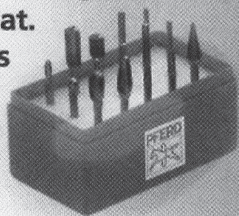


IMPA		632511							632521		
Order No.	WRC 0210/3	WRC 0313/3	WRC 0613/3	WKN-S 0307/3	WKN 0307/3	WKN 0607/3	WKN 0607/3	TRE 0307/3	KUD 0302/3	KUD 0403/3	KUD 0604/3
Available Cuts	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5
head dis. x head length mm	2 x 10	3 x 13	6 x 13	3 x 7 8"	3 x 7 8"	6 x 7 10"	6 x 7 10"	3 x 7	3 x 2	4 x 3	6 x 5
Shaft dia. x ov. length mm	3 x 40	3 x 43	3 x 43	3 x 37	3 x 37	3 x 37	3 x 37	3 x 37	3 x 33	3 x 34	3 x 35
	1	1	1	1	1	1	1	1	1	1	1
	4	5	7	4	4	5	5	4	4	4	4



IMPA				632541	632551					
Order No.	SKM 0307/3	SKM 0311/3	SKM 0613/3	RBF 0307/3	SPG 0307/3	SPG0313/3	SPG 0613/3	RBF 0613/3	TRE 0610/3	
Available Cuts	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5	3P 5
head dis. x head length mm	3 x 7 22"	3 x 11 14"	6 x 13 26"	3 x 7	3 x 7	3 x 13	6 x 13	6 x 13	6 x 10	
Shaft dia. x ov. length mm	3 x 37	3 x 41	3 x 43	3 x 37	3 x 37	3 x 43	3 x 43	3 x 43	3 x 40	
	1	1	1	1	1	1	1	1	1	
	4	4	4	4	4	4	6	6	6	

Set of Tungsten Carbide Miniat. Burrs



Contents: 15 tungsten carb. min. burrs

Set includes 1 burr each of the following types:

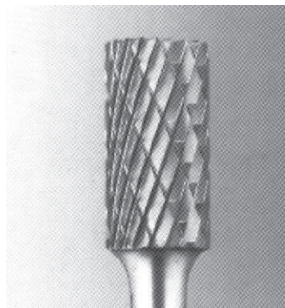
ZYA 0210/3	WKN 0307/3	SPG 0307/3
ZYA 0313/3	TRE 0307/3	
ZYA 0607/3	TRE 0610/3	
ZYA 0613/3	KUD 0403/3	
HM 3 B0307/3	SKM 0613/3	
WRC 0210/3	RBF 0307/3	
WRC 0313/3	RBF 0613/3	

Order No.	Shank dia. mm	Cut		
1501 HM	3	5	1	130

ABRASIVES & GRINDING TOOLS

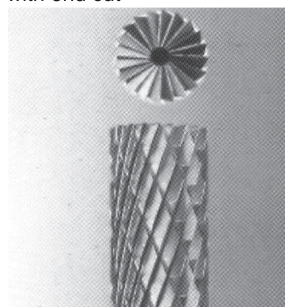
STANDARD SHAPES

Cylindrical ZYA without end cut



IMPA	Order No. mm	Shank dia. mm	Head dia. x length mm	Overall length			Available Cuts	
							3 Plus	5
632502	ZYA 0413	6	4 x 13	55	1	19	●	●
632503	ZYA 0616	6	6 x 16	55	1	23	●	●
632504	ZYA 0820	6	8 x 20	60	1	24	●	●
	ZYA 1013	6	10 x 13	53	1	24	●	●
632505	ZYA 1020	6	10 x 20	60	1	32	●	●
	ZYA 1025	6	10 x 25	65	1	39	●	-
632506	ZYA 1225	6	12 x 25	65	1	60	●	●
	ZYA 1625	6	16 x 25	65	1	93	●	-

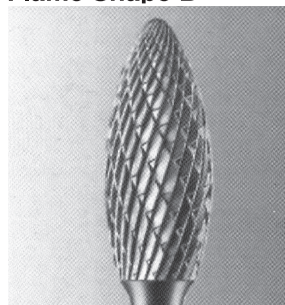
Cylindrical ZYA-S with end cut



Order No.	Shank dia. mm	Head dia. x length mm	Overall length mm			Available Cuts	
						3 Plus	5
ZYAS 0413	6	4 x 13	55	1	19	●	●
ZYAS 0616	6	6 x 16	55	1	23	●	●
ZYAS 0820	6	8 x 20	60	1	24	●	●
ZYAS 1013	6	10 x 13	53	1	32	●	●
ZYAS 1020	6	10 x 20	60	1	32	●	●
ZYAS 1025	6	10 x 25	65	1	39	●	-
ZYAS 1225	6	12 x 25	65	1	60	●	●
ZYAS 1625	6	16 x 25	65	1	93	●	●

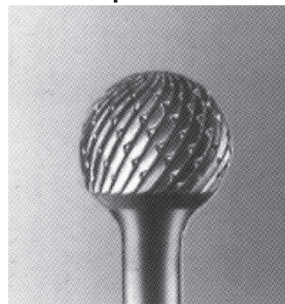
*These burrs are non-regrindable.

Flame Shape B



IMPA	Order No. mm	Shank dia. mm	Head dia. x length mm	Overall length			Available Cuts	
							3 Plus	5
632556	HM B 0820	6	8 x 20	60	1	18	●	-
632557/8	HM B 1230	6	12 x 30	70	1	53	●	-
632559	HM B 1635	6	16 x 35	75	1	89	●	-

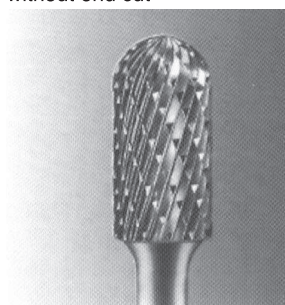
Ball Shape KUD



IMPA	Order No. mm	Shank dia. mm	Head dia. x length mm	Overall length			Available Cuts	
							3 Plus	5
632522	KUD 0403	6	4 x 3.6	45	1	17	●	●
	KUD 0605	6	6 x 5.4	45	1	18	●	●
632523	KUD 0807	6	8 x 7.0	47	1	14	●	●
632524	KUD 1009	6	10 x 9.0	49	1	17	●	●
632525	KUD 1210	6	12 x 10.8	50	1	25	●	●
	KUD 1614	6	16 x 14.3	54	1	46	●	●
	KUD 2018	6	20 x 18.0	58	1	74	●	-

*These burrs are non-regrindable.

Cylindrical Radius End WRC without end cut

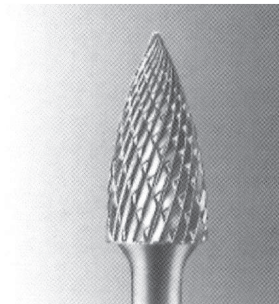


IMPA	Order No. mm	Shank dia. mm	Head dia. x length mm	Overall length			Available Cuts	
							3 Plus	5
632512	WRC 0413	6	4 x 13	55	1	19	●	●
632513	WRC 0616	6	6 x 16	55	1	22	●	●
632514	WRC 0820	6	8 x 20	60	1	22	●	●
632515	WRC 1020	6	10 x 20	60	1	29	●	●
	WRC 1025	6	10 x 25	65	1	45	●	●
632516	WRC 1225	6	12 x 25	65	1	57	●	●
	WRC 1625	6	16 x 25	65	1	89	●	-

*These burrs are non-regrindable.

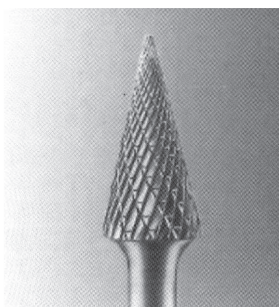
STANDARD SHAPES

Pointed Tree Shape SPG



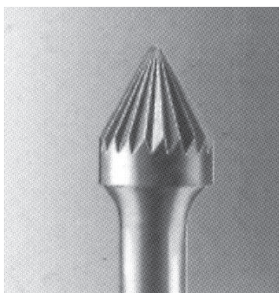
IMPA	Order No. mm	Shank dia. mm	Head dia. x length mm	Overall length			Available Cuts	
							 3 Plus	 5
632552	SPG 0618	6	6 x 18	55	1	21	●	●
632553	SPG 1020	6	10 x 20	60	1	23	●	●
	SPG 1225	6	12 x 25	65	1	46	●	●
	SPG 1230	6	12 x 30	70	1	54	●	●
	SPG 1630	6	16 x 30	70	1	80	●	-

Conical SKM



IMPA	Order No.	Shank dia. mm	Head dia. x length mm	Overall length mm			Available Cuts	
							 3 Plus	 5
632561	SKM 0618	6	6 x 18 18°	55	1	19	●	●
632562	SKM 1020	6	10 x 20 28°	60	1	22	●	●
	SKM 1225	6	12 x 25 26°	65	1	39	●	●

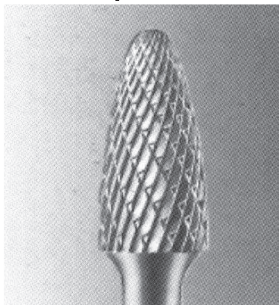
Conical Cone KSJ + KSK



Order No.	Shank dia. mm	Head dia. x length mm	Overall length mm			Available Cuts	
						 3 Plus	 5
KSJ 0605*	6	6 dia. x 5 60°	50	1	19	-	-
KSK 0603*	6	6 dia. x 3 90°	50	1	20	-	-
KSJ 1008	6	10 dia. x 13 60°	53	1	19	-	-
KSK 1005	6	10 dia. x 10 90°	50	1	17	-	-
KSJ 1613	6	16 dia. x 16 60°	56	1	51	-	●
KSK 1608	6	16 dia. x 13 90°	53	1	48	-	●

* KSJ 0605 and KSK 0603 are toothed at both head ends

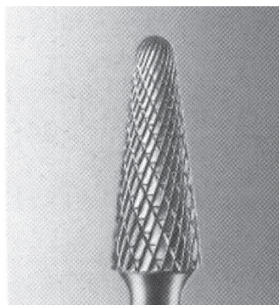
Tree Shape RBF



IMPA	Order No. mm	Shank dia. mm	Head dia. x length mm	Overall length			Available Cuts	
							 3 Plus	 5
632532	RBF 0618	6	6 x 18	55	1	21	●	●
632533	RBF 0820	6	8 x 20	60	1	18	●	-
632534	RBF 1020	6	10 x 20	60	1	24	●	●
632535	RBF 1225	6	12 x 25	65	1	47	●	●
	RBF 1630	6	16 x 30	70	1	82	●	-

*These burrs are non-regrindable.

Cone Radius End KEL



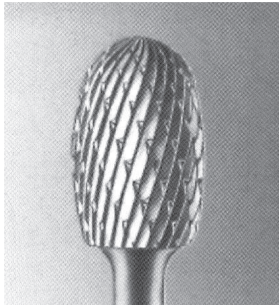
IMPA	Order No. mm	Shank dia. mm	Head dia. x length mm	Overall length			Available Cuts	
							 3 Plus	 5
632543	KEL 0618	6	6 x 18 14°	60	1	18		
632544	KEL 0820	6	8 x 20 14°	60	1	20		
632545	KEL 1020	6	10 x 20 14°	60	1	23	●	●
632546	KEL 1225	6	12 x 25 14°	65	1	46	●	-
632547	KEL 1230	6	12 x 30 14°	70	1	54	●	●
	KEL 1630	6	16 x 30 14°	70	1	80	●	-

*These burrs are non-regrindable.

ABRASIVES & GRINDING TOOLS

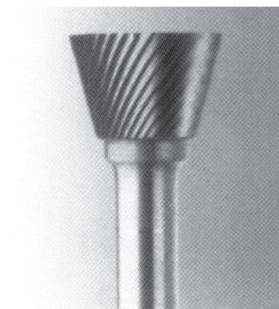
STANDARD SHAPES

Oval Shape TRE



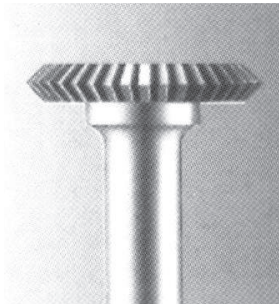
Order No.	Shank dia. mm	Head dia. x length mm	Overall length mm			Available Cuts	
						3 Plus	5
TRE 0610	6	6 x 10	50	1	20	●	●
TRE 0813	6	8 x 13	53	1	17	●	●
TRE 1016	6	10 x 16	56	1	23	●	●
TRE 1220	6	12 x 20	60	1	44	●	●
TRE 1625	6	16 x 25	65	1	77	●	-

Inverted Cone Shape WKN without end cut



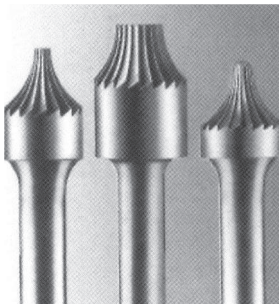
Order No.	Shank dia. mm	Head dia. x length mm	Overall length mm			Available Cuts	
						3 Plus	5
WKN 1013	6	10 dia. x 13 10°	53	1	21	-	-
WKN 1213	6	12 dia. x 13 20°	53	1	35	-	-
WKN 1613	6	16 dia. x 13 20°	53	1	52	-	-
WKN 2013	6	20 dia. x 13 30°	53	1	74	-	-

Rim Shape N



Order No.	Shank dia. mm	Head dia. x length mm	Overall length mm			Available Cuts	
						3 Plus	5
HM N 2503	6	25 dia. x 13 90°	43	1	52	-	-
HM N 2506	6	25 dia. x 6 90°	46	1	73	-	-

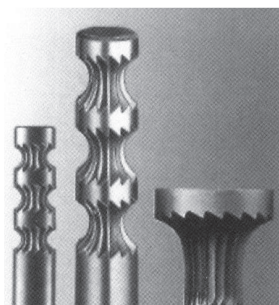
Concave Radius Burrs V



Order No.	Shank dia. mm	Head dia. x length mm	Overall length mm			Available Cuts	
						3 Plus	5
HM V 1015	6	10 x 15	55	1	21	-	-
HM V 1215	6	12 x 15	55	1	27	-	-
HM V 1315	6	13 x 15	55	1	27	-	-

V 1015, V 1215 and V 1315 burrs with 10mm cut radius.
These burrs are non-regrindable.

Radius Burrs R



Order No.	Shank dia. mm	Head dia. x length mm	Overall length mm			Available Cuts
HM R 0615	6	-	60	1	35	Special Cut
HM R 0830	8	-	60	1	42	Special Cut
HM R 1618	8	16 x 18	100	1	69	Special Cut

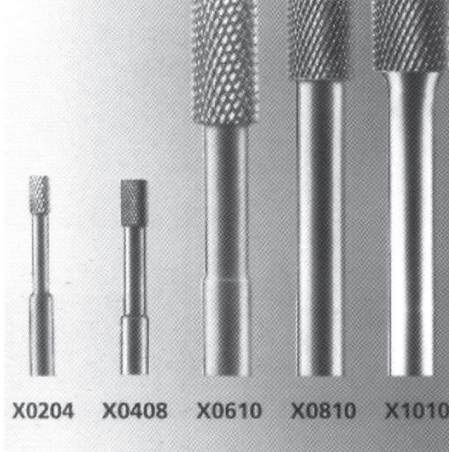
Cut radii are as follow: R 0615 = 1.5mm
R 0830 = 3.0mm
R 1618 = 6.0mm (non-regrindable)



TUNGSTEN CARBIDE BURRS STANDARD SHAPES, TUNGSTEN CARBIDE BURRS FOR GLASS & CARBON FIBRE REINFORCED PLASTICS

Tungsten Carbide Miniature Burrs X

Available only with diamond cut
similar to Cut 4, but significantly finer.



Superfinishing of Bores

Previous method:

Use of grinding points. Drawbacks include high wear (requiring continuous feed control), numerous grinding passes, and inconvenience caused by grinding dust.

Improved method using tungsten carbide burrs:

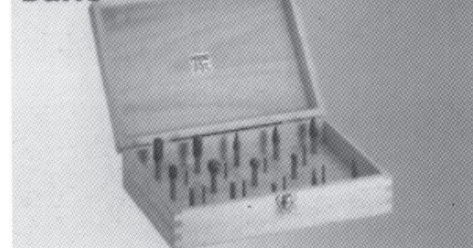
Ensures improved dimensional accuracy and surface finish, no diameter loss due to wear, fewer passes at higher stock removal rates, and fewer tool changes because of long tool life.

Recommendations for use:

1. The diameter of tungsten carbide miniature burr should be 75 to 80% of bore diameter
2. Machining of materials with hardnesses up to 50 HRC is usually no problem. For harder materials it is recommended to run a series of trials first.
3. Economically efficient results are obtained with bores up to 12mm diameter.
4. Spindle must be free from runout. Check fixtures for rigidity and accuracy.
5. Recommendations for use on stationary machines Optimum feed rates:
 - 100 to 200 mm/min on soft material
 - 50 to 100 mm/min on hard material

Order No. mm	Shank dia. mm	Head dia. x length mm	Overall length r.p.m.CW	Tool spindle r.p.m.CCW	Workpiece		
HM x 0204	3	2,5 x 4	40	27.500	250	1	6
HM x 0408	3	4 x 8	50	21.000	200	1	8
HM x 0610	6	6 x 10	65	18.000	200	1	25
HM x 0810	6	8 x 10	65	16.000	150	1	21
HM x 1010	6	10 x 10	65	14.500	150	1	30

Set of Tungsten Carbide Burrs



Contents: 22 Tungsten carbide burrs

1 burr each of the following types with Cut 5
and 3 mm shank diameter

ZYA 0210	WKN 0307
ZYA 0313	TRE 0307
WRC 0210	RBF 0307
WRC 0313	SPG 0307

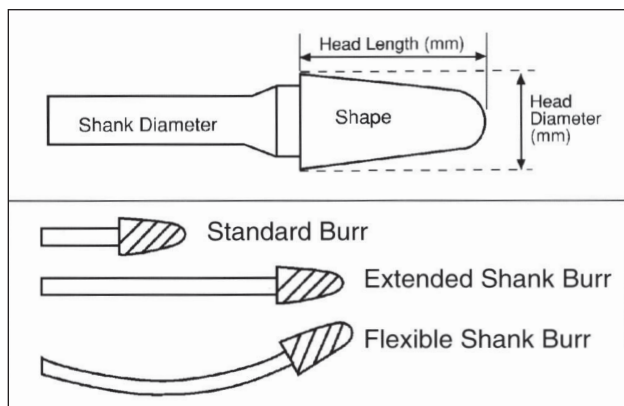
1 burr each of the following types with CUT 3
PLUS and 6 mm shank diameter

ZYAS 0616	SKM 0618	KUD 1614
ZYAS 1013	SKM 1020	SPG 0618
ZYAS 1225	KUD 0605	SPG 1020
WRC 0616	KUD 0807	SPG 1225
WRC 1225	KUD 1210	

Order No.	Shank dia.	Cut		
1500 HM	See above	See above	1	1.5

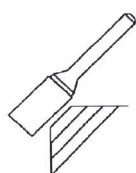
ABRASIVES & GRINDING TOOLS

BURR SPECIFICATION

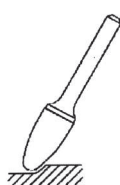


Burr (mm) Diameter	Maximum Speed RPM	Optimum Speed Range
3	100,000	50,000 - 75,000 rpm
4	100,000	50,000 - 75,000 rpm
6	70,000	35,000 - 53,000 rpm
8	55,000	28,000 - 42,000 rpm
10	50,000	25,000 - 38,000 rpm
12	40,000	20,000 - 30,000 rpm
15	30,000	15,000 - 23,000 rpm
20	20,000	10,000 - 15,000 rpm
25	15,000	7,000 - 11,000 rpm

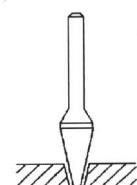
TUNGSTEN CARBIDE CUTTER / BURR SELECTION



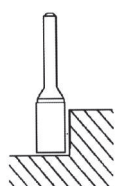
B1 Shape - Cylindrical			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B1-0312	3	12	3
B1-0605	6	5	3
B1-0612	6	12	3
B1-0618	6	18	6
B1-0820	8	20	6
B1-1020	10	20	6
B1-1225*	12	25	6
B1-1525*	15	25	6
B1-2025*	20	25	6
B1-2525*	25	25	6



B4 Shape - Round Tree			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B4-0312	3	12	3
B4-0612	6	12	3
B4-0618	6	18	6
B4-0820	8	20	6
B4-1020	10	20	6
B4-1225*	12	25	6
B4-1525*	15	25	6
B4-2025*	20	25	6
B4-2032*	20	32	6



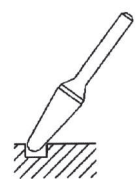
B8 Shape - Conical			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B8-0311	3	11	3
B8-0612	6	12	3
B8-0620	6	20	6
B8-1020	10	20	6
B8-1222*	12	22	6
B8-1525*	15	25	6



B1E Shape - Cylindrical with End Cut			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B1-0312E	3	12	3
B1-0605E	6	5	3
B1-0612E	6	12	3
B1-0618E	6	18	6
B1-0820E	8	20	6
B1-1020E	10	20	6
B1-1225E*	12	25	6
B1-1525E*	15	25	6
B1-2025E*	20	25	6
B1-2525E*	25	25	6



B5 Shape - Pointed Tree			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B5-0312	3	12	3
B5-0612	6	12	3
B5-0618	6	18	6
B5-0820	8	20	6
B5-1020	10	20	6
B5-1225*	12	25	6
B5-1525*	15	25	6
B5-2025*	20	25	6



B9 Shape - 14° Taper Radius End			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B9-0312	3	12	3
B9-0618	6	18	6
B9-0822	8	22	6
B9-1026	10	26	6
B9-1228*	12	28	6
B9-1533*	15	33	6
B9-2038*	20	38	6

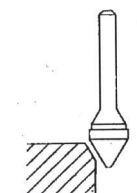
E Denotes End Cut



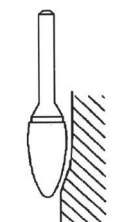
B2 Shape - Bull Nose			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B2-0211	2	11	3
B2-0312	3	12	3
B2-0612	6	12	3
B2-0618	6	18	6
B2-0820	8	20	6
B2-1020	10	20	6
B2-1225*	12	25	6
B2-1525*	15	25	6
B2-2025*	20	25	6



B6 Shape - Oval			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B6-0306	3	6	3
B6-0610	6	10	3
B6-0815	8	15	6
B6-1015	10	15	6
B6-1220*	12	20	6
B6-1525*	15	25	6
B6-2025*	20	25	6



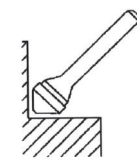
B10 Shape - 60° Cone			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B10-0303	3	3	3
B10-0604	6	4	6
B10-1008	10	8	6
B10-1210*	12	10	6
B10-1512*	15	12	6



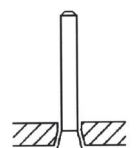
B3 Shape - Flame			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B3-0306	3	6	3
B3-0820	8	20	6
B3-1020	10	20	6
B3-1232*	12	32	6
B3-1535*	15	35	6



B7 Shape - Ball			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B7-0202	2	2	3
B7-0303	3	3	3
B7-0404	4	4	3
B7-0606	6	6	6
B7-0808	8	8	6
B7-1010	10	10	6
B7-1212*	12	12	6
B7-1515*	15	15	6
B7-2020*	20	20	6
B7-2525*	25	25	6



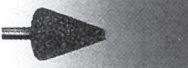
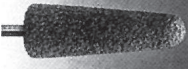
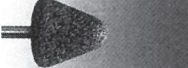
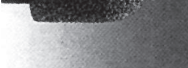
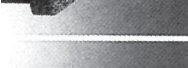
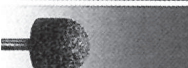
B11 Shape - 90° Cone			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B11-0303	3	3	3
B11-0603	6	3	6
B11-1004	10	4	6
B11-1206*	12	6	6
B11-1508*	15	8	6



B13 Shape - Inverted Cone			
Burr Type	Head Diameter mm	Head Length mm	Shank Diameter mm
B13-0606	6	6	3
B13-0608	6	8	6
B13-1212*	12	12	6
B13-2020*	20	20	6

Burr Sets	
BS60	8 piece 6mm Shank Burr Set
BS30	20 piece 3mm Shank Burr Set

MOUNTED POINTS, US SIZES STOCK RANGE (SERIES A)

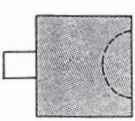
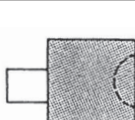
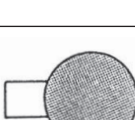
	IMPA	Order No.	Shank Diameter mm	Abrasive Grit Size mm / in	D x T*		
					In	mm	
		A1	6mm	ADW 60 L <u>Ni</u>			10
		A1	6mm	AN 30 N <u>Ni</u>		19 x 64	448
		A1	6mm	AR 30 O			
		A2	6mm	AR 30 O	1 x 1 1/4	25 x 32	10 320
		A3	6 mm	ADW 60 L <u>Ni</u>	1 x		10
		A3	6 mm	ADW 30 M	2 3/4	25 x 70	755
		A3	6 mm	AN 30 N <u>Ni</u>			
		A3	6 mm	AR 30 O			
		A3	6mm	CU 30 R			
	614584	A4	6 mm	AR 30 O	1 1/4 x 1 1/4	32 x 32	5 230
	614585	A5	6 mm	AR 30 O	3/4 x 1 1/8	19 x 29	10 225
	614593	AJ1	6 mm	AR 30 O			
		A6	6 mm	AR 30 O	3/4 x 1 1/8	19 x 29	10 290
	614586	A11	6 mm	ADW 60 L <u>Ni</u>	7/8 x 2	22 x 50	10 565
		A11	6 mm	AN 30 N <u>Ni</u>			
		A11	6 mm	AR 30 O			
		A11	6 mm	CU 30 R			
	614599	AJ7	6 mm	AR 30 O			
		A12	6 mm	AR 30 O	11/16 x 1 1/4	17 x 32	10 265
		A13	6 mm	AR 30 O	11/8 x 1 1/8	29 x 29	5 240
		A14	6mm	AR 30 O	11/16 x 7/8	17 x 22	10 226
		A15	6 mm	AR 60 O	1/4 x 1 1/6	6 x 27	10 108
		A15	6 mm	AR 100 O			
	614588	A21	6 mm	AR 30 O	1 x 1	25 x 25	10 410
		A22	6 mm	AR 30 O	3/4 x 5/8	19 x 16	10 235
		A23	6 mm	AR 30 O	3/4 x 1	19 x 25	10 260
		A24	6 mm	AR 60 O	1/4 x 3/4	6 x 19	10 105
	614589	A25	6 mm	AR 300	1	25 350	10

	IMPA	Order No.	Shank Diameter mm	Abrasive Grit Size mm / in	D x T*		
					In	mm	
	614590	A26	6 mm	AR 30 O	5/8	16	10 160
		A31	6mm	ADW 30 M	1 3/8 x 1	35 x 25	5 230
		A32	6 mm	AR 30 O	1 x 5/8	25 x 16	10 270
	614597	A33	6 mm	AR 30 O	1 x		10
		AJ5	6 mm	AR 30 O			
		A34	6 mm	AR 30 O	1 1/2 x 3/8	38 x 10	5 210
	614591	A35	6 mm	ADW 30 M	1 x 3/8	25 x 10	10 235
		A35	6 mm	AR 30 O			
		A36	6 mm	AR 60 O	1 5/8 x 3/8	41 x 10	5 180
		A37	6 mm	AR 60 O	1 1/4 x 1/4	32 x 6	5 112

Vitrified bond tools: Grade **M**, **O**, **R** (5V / structure number / bond type)

Resinoid bond tools: Grade **L** (6B / structure number / bond type)

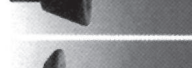
Ni Grade **N** (5B / structure number / bond type)

	A38	1/4" 6 mm	AR	60	1 x 1"	25 x 25	10 270
	A39	1/4" 6 mm	AR	60	3/4 x 3/4	19 x 19	10 250
	A40	1/4 6 mm	AR	60	3/4	19	10 235

ABRASIVES & GRINDING TOOLS

MOUNTED POINTS, US SIZES STOCK RANGE (SERIES B)

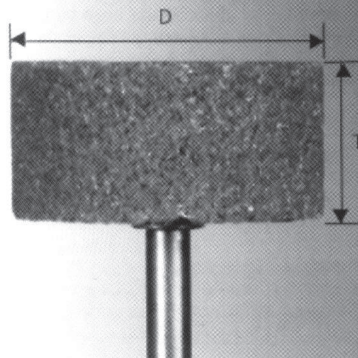
	Order No.	Shank Diameter mm/in	Abrasive Grit Size Grade	D x T*		
				In	mm	
	B 41	6mm	AR 46 O	5/8 x	16 x 16	10
	B 41	6mm	AR 80 O	5/8		140
	B 42	3mm	AR 80 O	1/2 x 3/4	13 x 19	10 70
	B 43	3mm	AR 100 O	1/4 x 5/16	6 x 8	10 26
	B 44	3mm	AR 100 O	7/32 x 3/8	6 x 10	10 24
	B 45	3mm	AR 100 O	3/16 x 5/16	5 x 8	10 23
	B 46	3mm	AR 100 O	1/8 x 5/16	3 x 8	10 20
	B 47	3mm	AR 100 O	1/8 x 5/32	3 x 4	10 18
	B 51	3mm	AR 80 O	7/16 x 3/4	11 x 19	10 60
	B 52	3mm	AR 46 O	3/8 x 3/4	10 x 19	10 60
	B 52	3mm	AR 80 O			
	B 53	3mm	AR 60 O	1/4 x 5/8	6 x 16	10 28
	B 53	3mm	AR 100 O			
	B 54	3mm	AR 60 O	1/4 x 1/2	6 x 13	10 30
	B 54	3mm	AR 100 O			
	B 55	3mm	AR 100 O	1/8 x 1/4	3 x 6	10 20
	B 61	3mm	AR 80 O	3/4 x 5/16	19 x 8	10 72
	B 62	3 mm	AR 46 O	1/2 x 3/8	13 x 10	10 48
	B 63	3mm	AR 100 O	1/4 x 3/16	6 x 5	10 24
	B 64	3mm	AR 100 O	1/4 x 1/16	6 x 2	10 20
	B 65	3mm	AR 100 O	1/8 x 1/8	3 x 3	10 18
	B 68	3mm	AR 100 O	1/4 x 3/32	6 x 2	10 20
	B 69	3mm	AR 100 O	5/16 x 1/16	8 x 2	10 22
	B 70	3mm	AR 100 O	3/4 x 1/8	19 x 3	10 43
	B 71	3mm	AR 100 O	5/8 x 3/32	16 x 2	10 32
	B 72	3mm	AR 100 O	1/2 x 1/8	13 x 3	10 32
	B 73	3mm	AR 100 O	1/2 x 1/8	13 x 3	10 30

	Order No.	Shank Diameter mm/in	Abrasive Grit Size Grade	D x T*		
				In	mm	
	B 81	3mm	AR 60 O	3/4 x 5/16	19 x 8	10 43
	B 81	3mm	AR 100 O			
	B 82	3mm	AR 100 O	1/2 x 1/4	13 x 6	10 30
	B 83	3mm	AR 100 O	3/8 x 1/8	10 x 3	10 28
	B 84	3mm	AR 100 O	5/16 x 3/16	8 x 5	10 26
	B 91	6mm	AR 46 O	1/2 x 5/8	13 x 16	10 140
	B 91	6mm	AR 80 O			
	B 92	3mm	AR 100 O	1/4 x 1/4	6 x 6	10 24
	B 95	3mm	AR 100 O	1/8 x 3/16	3 x 5	10 20
	B 96	3mm	AR 100 O	1/8 x 1/4	3 x 6	10 20
	B 97	3mm	AR 100 O	3/32 x 3/8	2 x 10	10 18
	B 98	3mm	AR 100 O	3/32 x 1/4	2 x 6	10 18
	B 101	6mm	AR 46 O	5/8 x 11/16	16 x 17	10 148
	B 101	6mm	AR 80 O			
	B102	3mm	AR 80 O	5/8 x 1/2	16 x 13	10 50
	B 103	3mm	AR 80 O	5/8 x 3/16	16 x 5	10 45
	B 104	3mm	AR 80 O	5/16 x 3/8	8 x 10	10 40
	B 105	3mm	AR 100 O	1/4 x 1/4	6 x 6	10 22
	B 106	3mm	AR 100 O	1/8 x 7/64	3 x 2	10 18
	B 111	3mm	AR 80 O	7/16 x 11/16	11 x 17	10 60
	B 112	3mm	AR 80 O	3/8 x 1/2	10 x 13	10 42
	B 114	3mm	AR 100 O	7/32 x 3/8	6 x 10	10 26
	B 115	3mm	AR 100 O	3/32 x 1/8	2 x 3	10 18
	B 121	3mm	AR 46 O	1/2	13	10 54
	B 121	3mm	AR 80 O			
	B 122	3mm	AR 46 O	3/8	10	10 34
	B 122	3mm	AR 80 O			
	B 123	3mm	AR 100 O	3/16	5	10 20
	B 124	3mm	AR 100 O	1/8	3	10 18
	B 125	3mm	AR 100 O	1/4	6	10 40



CYLINDRICAL & W SERIES POINTS

Cylindrical Points ZY



How to order:

Product designation per DIN 69170

ZY 3232 6 AR 24 0 5 V
 1 2 3 4 5 6 7 8

Product designation based on US dimension

W142 3 AR 60 0 5 V
 1 2 3 4 5 6 7

How to order

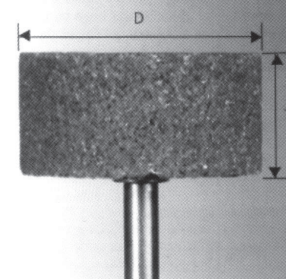
- 1-2 Shape + Diameter x Height (D x T)
 3 US dimensions
 4 Shank dia. mm/inch
 5 Abrasive
 6 Grit Size
 7 Grade
 8 Structure number
 9 Bond Type

Stock range		Shank dia		Diameter x Height D x T		V = Vitrified Vitrified Bond								B=Resinoid Resinoid bond				
Order No. per DIN	US designation	mm	In	mm	In							6 7	B 8	5 7	B 8			
1-2	9	3		3		Aluminium oxide						Silicon carbide		Alum. oxide				
						6 4 coarse fine	H AWN	I AW	K ARN	M ADW	O AR	T AW	J CN	R CU	L ADW	N AN		
ZY 0105*		3		1 x 5		5						320					10	18
ZY 1,508*		3		1.5 x 8								320					10	20
ZY 1,708*		3		1.7 x 8								320					10	20
ZY 0205		3		2 x 5				100		100	100	100					10	20
ZY 0205*		6		2 x 5							100						10	80
	W 142	3		2 x 6	3/32 x 1/4						100						10	20
	W 142		1/8	2 x 6	3/32 x 1/4						100						10	20
	W 143	3		3 x 3							100						10	20
ZY 0806		3		3 x 6		60		100		100	100	100	100				10	20
ZY 0306		6		3 x 6						100	100						10	80
	W 144	3		3 x 6	1/8 x 1/4						100						10	20
	W 144		1/8	3 x 6	1/8 x 1/4						100						10	20
	W 145	3		3 x 10	1/8 x 3/8						100						10	20
	W 145		1/8	3 x 10	1/8 x 3/8						100						10	20
	W 146	3		3 x 13	1/8 x 1/2						100						10	22
	W 146		1/8	3 x 13	1/8 x 1/2						100						10	22
ZY 0402*		3		4 x 2							100						10	18
	W 149	3		4 x 6							60 100						10	22
ZY 0408		3		4 x 8		60		100		60 100	60 100	100	100				10	20
ZY 0408		6		4 x 8						60	60 100						10	85
	W 152	3		5 x 6	3/16 x 1/4						100						10	23
	W 152		1/8	5 x 6	3/16 x 1/4						100						10	23
ZY 0510		3		5 x 10		60		100		60 100	60 100	100	100	60			10	26
ZY 0510		6		5 x 10						60	60 100	100					10	90
	W 153	3		5 x 10	3/16 x 3/8						60 100						10	26
	W 153		1/8	5 x 10	3/16 x 3/8						100						10	26
	W 154	3		5 x 13	3/16 x 1/2						60 100						10	27
	W 154		1/8	5 x 13	3/16 x 1/2						100						10	27
	W 158	3		6 x 3	1/4 x 1/8						100						10	24
	W 158		1/8	6 x 3	1/4 x 1/8						60						10	24
	W 160	3		6 x 6							60 100						10	26
	W 162	3		6 x 10	1/4 x 3/8						60 100						10	28
	W 162		1/8	6 x 10	1/4 x 3/8						100						10	28
ZY 0613		3		6 x 13		60		60 100		60 100	60 100	60 100	60 100				10	30
ZY 0613		6		6 x 13						60 100	60 100			60			10	95
	W 163	3		6 x 13	1/4 x 1/2						60 100						10	30
	W 163		1/8	6 x 13	1/4 x 1/2						100						10	30

ABRASIVES & GRINDING TOOLS

CYLINDRICAL & W SERIES POINTS

Cylindrical Points ZY



How to order

- 1-2** Shape + Diameter x Height (D x T)
3 US dimensions
3 Shank dia. mm/inch
4 Abrasive
5 Grit Size
6 Grade
7 Structure number
8 Bond Type

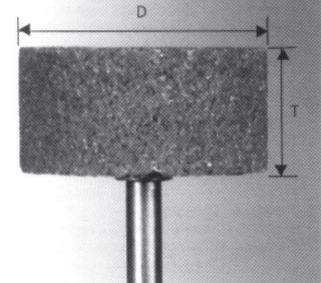
Stock range		Shank dia		Diameter x Height D x T		V = Vitrified Vitrified Bond										B=Resinoid Resinoid bond					
Order No. per DIN	US designation	mm	In	mm	In	Aluminium oxide					Silicon carbide		Alum. oxide								
 						  H AWN	I AW	K ARN	M ADW	O AR	T AW	J CN	R CU	L ADW	N AN						
						coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine						
	W 164	3		6 x 19	1/4 x 3/4					60	100					10	40				
	W 164		1/8	6 x 19	1/4 x 3/4						100						10	40			
ZY 0802*		3		8 x 2							100						10	25			
ZY 0802*		6		8 x 2							100						10	85			
ZY 0804*		6		8 x 4						80						10	95				
	W 167	3		8 x 6	5/16 x 1/4					80						10	34				
	W 167		1/8	8 x 6	5/16 x 1/4					46						10	34				
ZY 0810		3		8 x 10		46			46	80	46	80				10	38				
ZY 0810		6		8 x 10						80	46	80				10	105				
	W 170	3		8 x 13	5/16 x 1/2					46	80					10	44				
	W 170		1/8	8 x 13	5/16 x 1/2					80						10	44				
ZY 0816		3		8 x 16		46			46	80	80					10	50				
ZY 0816		6		8 x 16		46			46	80	80	80	46	46	N	46	112				
ZY 1002		3		10 x 2					100	100						10	27				
ZY 1002		6		10 x 2						100						10	90				
	W 173	3		10 x 3	3/8 x 1/8					60	100					10	29				
	W 173		1/8	10 x 3	3/8 x 1/8					60						10	29				
ZY 1005*		6		10 x 5						46						10	100				
	W 174	3		10 x 6	3/8 x 1/4					46	80					10	36				
	W 174		1/8	10 x 6	3/8 x 1/4					46						10	36				
	W 175	3		10 x 10	3/8 x 3/8					46	80					10	46				
	W 175		1/8	10 x 10	3/8 x 3/8					80						10	46				
ZY 1013		3		10 x 13					46	46	80	80				10	55				
ZY 1013		6		10 x 13		46		80	46	80	46	80	46			10	116				
	W 176	3		10 x 13	3/8 x 1/2					46	80					10	55				
	W 176		1/8	10 x 13	3/8 x 1/2					80						10	55				
	W 177	6		10 x 19	3/8 x 3/4					46	80					10	138				
	W 177		1/4	10 x 19	3/8 x 3/4					46						10	138				
ZY 1020		6		10 x 20		46		80	46	80	46	80	80	46	N	46	138				
ZY 1025		6		10 x 25					46	46	80					10	145				
ZY 1032		6		10 x 32					46	46	80		46	46	N	46	165				
	W 179	6		10 x 32	3/8 x 1 1/4					46	80					10	165				
	W 179		1/4	10 x 32	3/8 x 1 1/4					80						10	165				
ZY 1303		3		13 x 3		60			60	100	60	100				10	35				
ZY 1303		6		13 x 3						60	100					10	98				
	W 182	3		13 x 3	1/2 x 1/8						100					10	35				
	W 182		1/8	13 x 3	1/2 x 1/8					60						10	35				
ZY 1306		6		13 x 6						46	80					10	115				
ZY 1313		3		13 x 13						46	80					10	70				
ZY 1313		6		13 x 13			46		46	46	80					10	137				
	W 185	3		13 x 13	1/2 x 1/2					80						10	70				
	W 185		1/8	13 x 13	1/2 x 1/2					80						10	70				
	W 186	6		13 x 19	1/2 x 3/4					80						10	167				
ZY 1320		6		13 x 20					46	46	80		46			10	167				
ZY 1325		6		13 x 25		46	46		46	80	46	80	80	46	46	10	180				
	W 187	6		13 x 25	1/2 x 1					46	80					10	180				
	W 187		1/4	13 x 25	1/2 x 1					80						10	180				
	W 188	6		13 x 38	1/2 x 1 1/2					46	80					10	280				
	W 188		1/4	13 x 38	1/2 x 1 1/2					46						10	280				
ZY 1340		6		13 x 40					46	46						10	280				
	W 191	3		16 x 3	5/8 x 1/8					60	100					10	55				
	W 191		1/8	16 x 3	5/8 x 1/8					60						10	55				
ZY 1604*		3		16 x 4						46	80					10	46				
ZY 1604		6		16 x 4					46	46	80					10	120				
ZY 1608*		6		16 x 8						30	60					10	150				
ZY 1610*		6		16 x 10						30						10	160				
	W 193		1/4	16 x 10	5/8 x 3/8					30	60					10	160				
	W 194	6		16 x 13	5/8 x 1/2					60						10	190				



CYLINDRICAL & W SERIES POINTS

Cylindrical Points ZY

Cylindrical Points ZY



How to order

- 1-2 Shape + Diameter x Height (D x T)
 3 US dimensions
 4 Abrasive
 5 Grit Size
 6 Grade
 7 Structure number
 8 Bond Type

IMPA	Stock range		Shank dia		Diameter x Height D x T		V = Vitrified Vitrified Bond										B=Resinoid Resinoid bond			
	Order No. per DIN	US desig- nation	mm	In	mm	In	Aluminium oxide						Silicon carbide		Alum. oxide					
							6 4 AWN	I AW	K ARN	M ADW	O AR	T AW	J CN	R CU	L ADW	N AN				
																	coarse fine	coarse fine		
	1 2	9	3				6 H AWN	I AW	K ARN	M ADW	O AR	T AW	J CN	R CU	L ADW	N AN				
		W 195	6		16 x 19	5/8 x 3/4	5				30 60						10	235		
		W 195		1/4	16 x 19	5/8 x 3/4					30						10	235		
614566	ZY 1620		6		16 x 20			30		30 60	30 60	80	30 60	30			10	235		
614567	ZY 1632		6		16 x 32		30	30	30 60	30 60	30 60		60	30	30	30 60	10	290		
	ZY 1640		6		16 x 40				30 60	30 60			30				10	345		
	ZY 1650		6		16 x 50			30		30 60						30	10	410		
		W 197	6		16 x 51	5/8 x 2				60							10	415		
		W 197		1/4	16 x 51	5/8 x 2				30							10	415		
		W 200	3		19 x 3	3/4 x 1/8				60							10	58		
		W 201		1/8	19 x 6	3/4 x 1/4				46 80							10	84		
		W 203	6		19 x 13	3/4 x 1/2				60							10	225		
		ZY 2032		1/4	19 x 13	3/4 x 1/2				60							10	225		
614568		W 204	6		19 x 19	3/4 x 3/4				30 60							10	295		
		W 204		1/4	19 x 19	3/4 x 3/4				30							10	295		
614569		W 205	6		19 x 25	3/4 x 1				30 60							10	330		
		W 205		1/4	19 x 25	3/4 x 1				30							10	330		
		W 208	6		19 x 51	3/4 x 2				30 60							10	535		
		W 208		1/4	19 x 51	3/4 x 2				30							10	535		
	ZY 2006*		3		20 x 6			46		46 80							10	84		
	ZY 2006		6		20 x 6			46	46	46 80		80					10	150		
	ZY 2008*		6		20 x 8					30 60						30 NI	10	170		
	ZY 2010		6		20 x 10					30 60							10	180		
	ZY 2013*		6		20 x 13				60	30 60							10	225		
	ZY 2020		6		20 x 20				30	30 60							10	295		
	ZY 2025		6		20 x 25		30	30 60	30	30 60	30 60		60	30	30 60 NI	30	10	330		
	ZY 2032		6		20 x 32					30 60	80		30				10	385		
	ZY 2040		6		20 x 40		30	30	30	30 60		60	30	30	30	30	10	465		
	ZY 2050		6		20 x 50					30			30			30 NI	10	535		
		W 215	3		25 x 3	1 x 1/8				100							10	78		
		W 215		1/8	25 x 3	1 x 1/8				60							10	78		
	ZY 2506		6		25 x 6				46	46 80						46 NI	10	210		
		W 216	6		25 x 6	1 x 1/4				46							10	210		
		W 216		1/4	25 x 6	1 x 1/4				46							10	210		
	ZY 2510		6		25 x 10				30	30 60		60					10	255		
	ZY 2513*		6		25 x 13			30		30 60				30	30		10	289		
		W 218	6		25 x 13					30							10	289		
	ZY 2516		6		25 x 16				60	30 60							10	324		
		W 219	6		25 x 19					30 60							10	375		
614571	ZY 2525		6		25 x 25		30			30 60		60	30		30 NI		10	475		
		W 220	6		25 x 25	1 x 1				30 60							5	238		
		W 220		1/4	25 x 25	1 x 1				30 60							5	238		
	ZY 2532		6		25 x 32			30	30	30 60	80	30	30	30	30	30	10	545		
614572	ZY 2540		6		25 x 40					30						30	10	645		
614580		W 225	6		32 x 6					46							5	145		
614580	ZY 3208		6		32 x 8			30	30	30 60						30	5	160		
		W 226	6		32 x 10					30							5	180		
		W 227	6		32 x 13	1 1/4 x 1/2				30 60							5	200		
		W 227		1/4	32 x 13	1 1/4 x 1/2				30							5	200		
	ZY 3216		6		32 x 16			46		24	24 46		46		24	24	5	235		
	ZY 3220		6		32 x 20					24	24 46					24	5	287		
614575	ZY 3232		6		32 x 32		24	46	24	24 46	24 46		46	24		24	5	460		
	ZY 3240		6		32 x 40			24	24	24 46					24	24	5	510		
	ZY 3240		8		32 x 40				24					24	24	24	5	550		
		W 235	6		38 x 6	1 1/2 x 1/4										60 NI	5	170		
614581	ZY 4006		6		40 x 6					46	46					60 NI	5	180		
614582	ZY 4010		6		40 x 10			60	30	30	30 60		30	30		30	5	252		
	ZY 4015*		6		40 x 15					30 60							5	320		
614577	ZY 4020		6		40 x 20		46	46	24	24 46	24 46	80	46	24	24	24	5	415		
614578	ZY 4040		6		40 x 40					24	24 46			24		24 NI	5	770		
	ZY 5008		6		50 x 8			30	30	30						30	5	290		
614583	ZY 5013		6		50 x 13		30	60	30	30	30 60	80	60	30	30	30	5	430		
614579	ZY5025	W 242	6		50 x 25		24	24		24	46			24			5	730		

ABRASIVES & GRINDING TOOLS

MOUNTED POINTS

How to order

1-2 Shape + Diameter x Height (D x T)

3 Shank dia. mm/inch

4 Abrasive

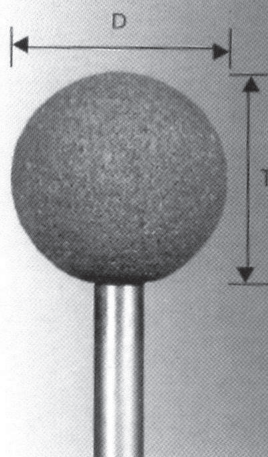
5 Grit Size

6 Grade

7 Structure number

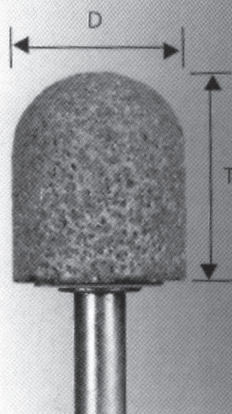
8 Bond Type

Ball KU



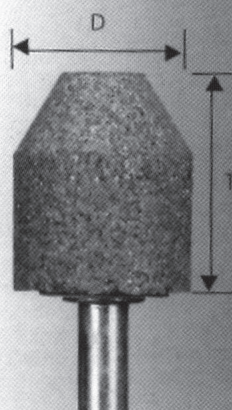
Order No. per DIN	Shank dia	Diameter x Height D x T	V = Vitrified Vitrified Bond			B=Resinoid Resinoid bond			
			7 5	8 V	6 B	5 B			
					7 8	7 8			
	mm	mm	Aluminium oxide			Alum. oxide			
1 2	3		6 I 4 AW	M ADW	O AR	L ADW	N AN		
			coarse fine	coarse fine	coarse fine	coarse fine	coarse fine		
KU 03	3	3	5		100			10	18
KU 03	6	3			100			10	80
KU 05	3	5			60 100			10	20
KU 05	6	5			60 100			10	84
KU 08	3	8	80		46 80			10	30
KU 08	6	8			46 80			10	96
KU 10	3	10			46 80			10	41
KU 10	6	10	80		46 80			10	113
KU 13	3	13			46 80			10	55
KU 13	6	13	46	46	46 80			10	125
KU 16	6	16		30 60	30 60		30 NI	10	164
KU 20	6	20		30	30 60		30 NI	10	230
KU 25	6	25			30 60		30 NI	10	340
KU 32	6	32			24 46			5	295

**Cylindrical Radius
End WR**



Order No. per DIN	Shank dia	Diameter x Height D x T	V = Vitrified Vitrified Bond			B=Resinoid Resinoid bond			
						6 B 7 8	5 B 7 8		
			Aluminium oxide			Alum. oxide			
1 2	3		6 I 4 AW	M ADW	O AR	L ADW	N AN		
			coarse fine	coarse fine	coarse fine	coarse fine	coarse fine		
WR 0306	3	3 X 6	5		100			10	20
WR 0306	6	3 X 6			100			10	80
WR 0510	3	5 X 10			60 100			10	26
WR 0510	6	5 X 10			60 100			10	90
WR 0816	6	8 X 16			46 80	60 NI		10	110
WR 1320	6	13 X 20			46 80			10	165
WR 2025*	6	20 X 25			30 60	30 NI		10	325
WR 2532	6	25 X 32				30 NI		10	515

Conical WK



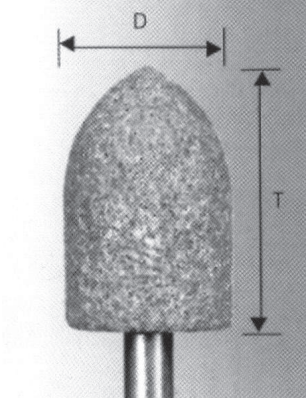
Order No. per DIN	Shank dia	Diameter x Height D x T	V = Vitrified Vitrified Bond			B=Resinoid Resinoid bond			
						6 B 7 8	5 B 7 8		
			mm	mm	Aluminium oxide				
1 2	3		6 I 4 AW	M ADW	O AR	L ADW	N AN		
			coarse fine	coarse fine	coarse fine	coarse fine	coarse fine		
WK 1320*	6	13 X 20	5		46			10	150
WK 1332	6	13 X 32			46			10	240
WK 2025*	6	20 X 25			30 60			10	310
WK 2532	6	25 X 32			30			10	500
WK 3240	6	32 X 40			24			5	435

MOUNTED POINTS

Key to the order number system

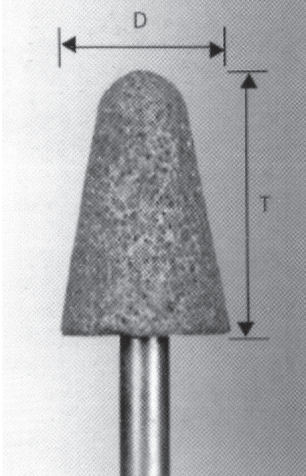
- ①-② Shape + Diameter x Height (D x T)
- ③ Shank dia. mm/inch
- ④ Abrasive
- ⑤ Grit Size
- ⑥ Grade
- ⑦ Structure number
- ⑧ Bond Type

Tree SP



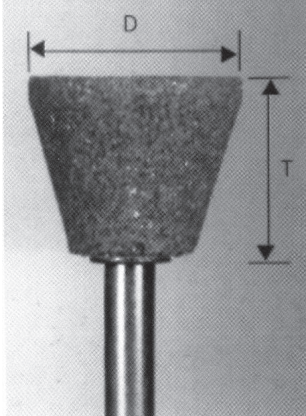
IMPA	Order No. per DIN	Shank dia	Diameter x Height D x T	V = Vitrified Vitrified Bond						⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧
		mm	mm	Aluminium oxide						Silic. carb									
	① ②	③		④ ⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑲
				coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine
	SP 0306	3	3 X 6	⑤						100	100					10	20		
	SP 0306	6	3 X 6							100						10	80		
	SP 0510	3	5 X 10							60	100	100				10	26		
	SP 0510	6	5 X 10							60	100		60			10	90		
	SP 0816	3	8 X 16							46	80					10	43		
	SP 0816	6	8 X 16					46	46	80			46			10	110		
	SP 1320	6	13 X 20					46	46	80			46			10	160		
	SP 2032	6	20 X 32					30	30	60			30			10	330		
614596	SP 2050	6	20 X 50		30	30		30					30			10	490		
	SP 2540	6	25 X 40							30						10	550		

Tapered KE



IMPA	Order No. per DIN	Shank dia	Diameter x Height D x T	V = Vitrified Vitrified Bond 5 V						B=Resinoid Resinoid bond		⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧	⑦ ⑧
		mm	mm	Aluminium oxide						Silic. carb		Alum. oxide							
	① ②	③		④ ⑤	⑥	⑦	⑧	⑨	⑩	⑪	⑫	⑬	⑭	⑮	⑯	⑰	⑱	⑲	⑲
				c. f.	c. f.	c. f.	c. f.	c. f.	c. f.	c. f.	c. f.	c. f.	c. f.	c. f.	c. f.	c. f.	c. f.	c. f.	c. f.
	KE 1010*	3	10 X 10	⑤						46								10	40
	KE 1010*	6	10 X 10							46	80							10	105
	KE 1025	6	10 X 25	46	46		46	46	80	46	80	46			46	NI		10	130
	KE 1313*	6	13 X 13							46	80							10	120
	KE 1616	6	16 X 16							30	60							10	140
	KE 1645	6	16 X 45	46	46	46		46	46	80	46				46	NI		10	250
	KE 2020	6	20 X 20							30	60	30		30	NI			10	210
	KE 2032	6	20 X 32							30	60	30						10	230
	KE 2040	6	20 X 40							30	60	30						10	325
614598	KE 2525	6	25 X 25							30	60	30						10	278
	KE 2545*	6	25 X 45							30	60	30						10	465
	KE 2570	6	25 X 70							30	60							10	730
	KE 3232	6	32 X 32							46	24	46	24			24	NI	5	270
	KE 3250	8	32 X 50			24				24								5	390

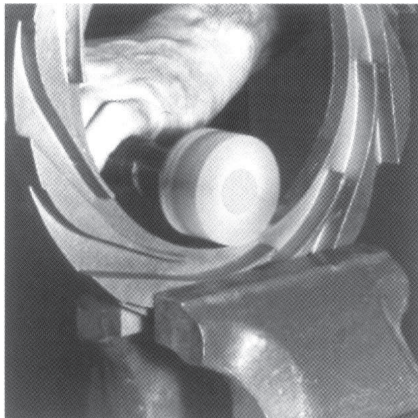
Cup TO



Order No. per DIN	Shank dia	Diameter x Height D x T	V = Vitrified Vitrified Bond 5 V 7 8								
	mm	mm	Aluminium oxide					Silic. carb			
1 2	3		6 H 4 AWN	I AW	K ARN	M ADW	O AR	R CU			
			coarse fine	coarse fine	coarse fine	coarse fine	coarse fine	coarse fine			
TO 2016	6	20 X 16	5				30 60		10	195	
TO 2520	6	25 X 20					30 60		10	280	
TO 3225	6	32 X 25					24 46		5	225	
TO 4032	6	40 X 32					24		5	360	

ABRASIVES & GRINDING TOOLS

FAN GRINDERS



The radial elements carrying the abrasive grain are mounted around the tool axis in a fan-shaped arrangement for optimum adaption to the workpiece contours. Recessed and projecting surfaces are machined at the same time. The abrasive grain is embedded in the synthetic resin coating of the high textile strength textile elements.

Applications:

- Fine grinding on larger radii in tool and mould making.
- Working in small and difficult to reach areas in tank and apparatus construction.
- Grinding of valves and fittings made of non-ferrous metals and light alloys.
- Available with threaded bushings on request.

The optimum peripheral speed for these tools is approx. 15 to 20 m/s. The corresponding r.p.m. levels will ensure an optimum fan grinder performance. For safety reasons, the specified maximum speed must never be exceeded.

Fan grinders are listed under DIN 69 183 standard specifications.

Where no grit size is specified in the purchase order, **grit 150** will be supplied.

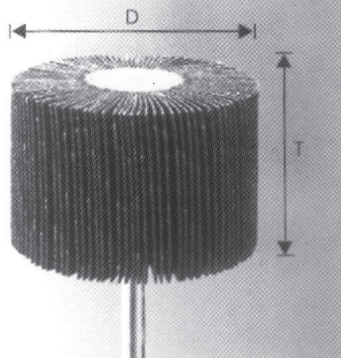
Ordering example:

F 6030 69 A 180
 ① ② ③ ④ ⑤

How to order

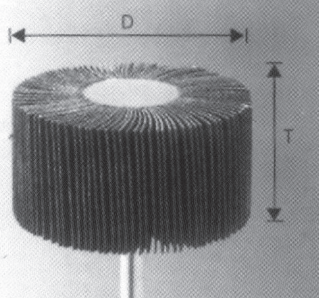
- ① Product code F = Fan grinder
 ② Dimensions = Head dia. x head width mm
 ③ Shank diameter = mm
 ④ Abrasive material A = Aluminium oxide
 ⑤ Grit Size

Fan Grinders F
Type A (Aluminium Oxide)



Order No.												Head dia x head height mm D x T	Shank dia. mm	Speed(RPM)			
Available grit sizes A=Aluminium oxide④														Optimum	Maximum		
①	②	③	⑤	40	60	80	120	150	180	240	320						
F 2010/	3	-	-	-	●	●	●	●	-	-		20 x 10	3	19000	28000	10	84
F 2010/	6	-	-	-	●	●	●	●	-	-		20 x 10	6	19000	28000	10	148
F 2515/	6	-	-	●	●	●	●	●	-	-		25 x 15	6	15000	23000	10	203
F 2525/	6	-	-	●	●	●	●	●	-	-		25 x 25	6	15000	23000	10	270
F 3005/	3	-	●	●	●	●	●	●	●	●		30 x 5	3	12000	18000	10	90
F 3005/	6	-	●	●	●	●	●	●	●	●		30 x 5	6	12000	18000	10	150
F 3010/	3	-	●	●	●	●	●	●	●	●		30 x 10	3	12000	18000	10	117
F 3010/	6	-	●	●	●	●	●	●	●	●		30 x 10	6	12000	18000	10	181
F 3015/	6	-	●	●	●	●	●	●	●	●		30 x 15	6	12000	18000	10	250
F 3030/	6	-	●	●	●	●	●	●	●	●		30 x 30	6	12000	18000	10	350
F 4010/	6	-	●	●	●	●	●	●	●	-		40 x 10	6	9600	18000	10	250
F 4015/	6	-	●	●	●	●	●	●	●	●		40 x 15	6	9600	18000	10	305
F 4020/	6	-	●	●	●	●	●	●	●	-		40 x 20	6	9600	18000	10	360
F 5010/	6	-	●	●	●	●	●	●	●	●		50 x 10	6	7000	12000	10	340
F 5015/	6	-	●	●	●	●	●	●	●	●		50 x 15	6	7000	12000	10	425
F 5020/	6	-	●	●	●	●	●	●	-	●		50 x 20	6	7000	12000	10	515
F 5030/	6	-	●	●	●	●	●	●	●	●		50 x 30	6	7000	12000	10	780
F 6015/	6	-	●	●	●	●	●	●	●	●		60 x 15	6	6300	12000	10	555
F 6020/	6	-	●	●	●	●	●	●	●	●		60 x 20	6	6300	12000	10	680
F 6030/	6	●	●	●	●	●	●	●	●	●		60 x 30	6	6300	12000	10	930
F 6040/	6	-	●	●	●	●	●	●	●	●		60 x 40	6	6300	10000	10	1180
F 6050/	6	●	●	●	●	●	●	●	●	●		60 x 50	6	6300	10000	10	1440
F 8015/	6	-	●	●	●	●	●	●	-	-		80 x 15	6	4800	9000	10	800
F 8020/	6	-	●	●	●	●	●	●	-	-		80 x 20	6	4800	9000	10	990
F 8030/	6	●	●	●	●	●	●	●	●	●		80 x 30	6	4800	9000	10	1405
F 8040/	6	-	●	●	●	●	●	●	●	-		80 x 40	6	4800	7000	10	1770
F 8050/	6	●	●	●	●	●	●	●	●	●		80 x 50	6	4800	7000	10	2175

Fan Grinders F-SiC
Type C (Silicon carbide)



For materials such as aluminium, copper, bronze, titanium, high-alloyed steels and plastics. Particularly well suited for titanium and its alloys, as the combination of high stock removal rates and low heat build-up prevents thermal cracking.

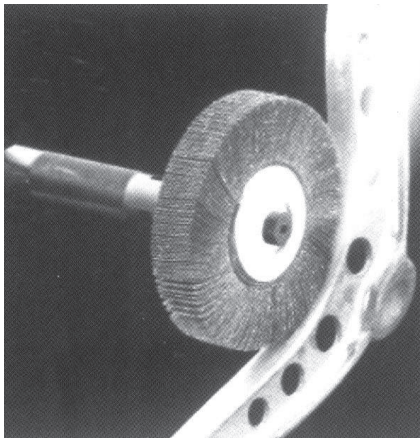
Ordering example:

F 6030 69 A 180
 ① ② ③ ④ ⑤

Order No.								Head dia x head height mm D x T	Shank dia. mm	Speed(RPM)			
Available grit sizes C=Silicon carbide ④										Optimum	Maximum		
①	②	③	⑤	60	80	120	150						
F	3010/	6	●	●	●	●		30 x 10	6	12000	18000	10	178
F	6030/	6	●	●	●	●		60 x 30	6	6300	12000	10	910
F	8030/	6	●	●	●	●		80 x 30	6	4800	9000	10	1430



FLAP WHEELS



PFERD flap wheels are designed for grinding flat or irregular surface. Because of their softness and flexibility, the coated abrasive elements adapt easily to any workpiece contour. **Flap wheels are listed under DIN 69 184 standard specifications.**

Fields of application:

Fine surface grinding of level, convex and concave surface, surface grinding of high-grade steel sheet, internal grinding of stainless steel containers, etc.

For steel and non-ferrous metals.

Suitable power tools:

Hand tools, stationary machines (e.g. with flexible shafts) or floor stand grinders with a minimum power output of 1500 watts.

Peripheral speeds:

PFERD flap wheels are DSA-approved for peripheral speeds up to 50 m/s.

Recommended peripheral speed:

25 to 30 m/s

Recommended for use:

Flap wheels can be used dry or with grinding oil. Reduce contact pressure at lower speeds; the working pressure must never cause an excessive flap deflection. When working with feed, the workpiece and flap wheel must be advanced in opposite directions to prevent grinding action from being neutralized and resulting destruction of the wheel.

Flap wheels are mounted with two clamping flanges

Ordering example:

FR 100 25 A 120
① ② ③ ④ ⑤

How to order

① Product code FR= Flap wheel

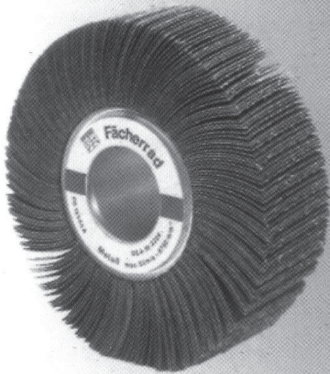
② Dimensions Diameter

③ Width

④ Abrasive type = Aluminium oxide

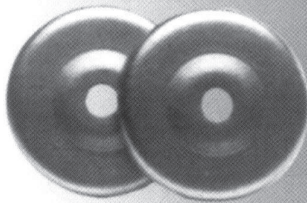
⑤ Grit Size

Flap Wheels



Order No.										Dia meter	Width	Arbore Hole	Recom mended speed RPM	Matching arbor			
Available grit sizes A=Aluminium oxide ④																	
①	②	③	⑤	40	60	80	120	150	240	320							
F	100	30	●	●	●	●	●	—	—	—	100	30	21.2	5500	12-1/18 25-50	2	430
F	100	50	●	●	●	●	●	—	—	—	100	50	21.2	5500		MK1-1/18 25-50	2
F	150	30	●	●	●	●	●	●	—	—	150	30	25.4	3500	12-2/18 25-50	2	930
F	150	50	●	●	●	●	●	●	—	—	150	50	25.4	3500		MK1-2/18 25-50	2
F	165	30	●	●	●	●	●	●	●	●	165	30	44.0	3200	12-3/18 25-50	2	1025
F	165	50	●	●	●	●	●	●	●	●	165	50	44.0	3200		MK1-1/18 25-50	2
F	200	30	—	●	●	●	●	●	●	—	200	30	68.0	2600	MK1-1/18 25-50	2	2075
F	200	50	—	●	●	●	●	●	●	—	200	50	68.0	2600		2	3175
F	250	50	—	●	●	●	●	●	●	—	250	50	68.0	2100		1	1920

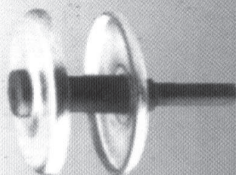
Flap Wheel Mounting Flanges without Arbor



Position flanges firmly against the flap wheel locating groove. The arbor hole can be extended to 50 mm if necessary. Flanges are re-usable and should therefore be ordered separately.

Flange Order No.	For flap wheel	Outside dia. mm	Arbor hole mm		
SD 5510/2	FR 10030 FR 10050	55	10 enlargem. to 20 mm possible	1 pair	106
SD 7912/2	FR 15030 FR 15050 FR 16530 FR 16550	79	12 enlargem. to 40 mm possible	1 pair	350
SD 12114/2	FR 20030 FR 20050 FR 25050	121	14 enlargem. to 60 mm possible	1 pair	660

Flap Wheel Arbors with Flanges



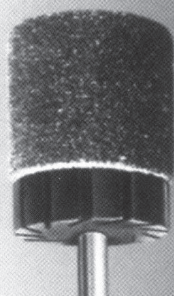
The following flap wheel mounting arbors are supplied complete with flanges. With 12 mm shank or Morse taper MK I. Please indicate appropriate **order number**.

Arbors with flanges		For flap wheel	Flange		Shank				
Order No.	Order No.		dia mm	bore mm	mm	Morse taper			
12-1/18	MK 1-1/18	FR 10030 FR 10050	55	18	12	MK 1	1	305	315
12-2/18	MK 1-2/18	FR 15030 FR 15050 FR 16530 FR 16550	79	18	12	MK 1	1	455	465
12-3/18	MK 1-3/18	FR 20030 FR 20050 FR 25050	121	18	12	MK 1	1	765	775

ABRASIVES & GRINDING TOOLS

RUBBER DRUM SANDERS

Rubber Drum Holder
Type GK



Rubber Drum Holder
Type A



Designed for used with abrasive spiral bands. Many cylindrical types are available in two versions.

1. GK = Slotted drum type

The abrasive spiral band is slipped on to the elastic slotted drum. The slots facilitate the expansion of the drum during the grinding process, thereby tensioning the abrasive band and increasing the tool resilience. The abrasive spiral band is locked on the drum and achieves maximum workpiece contact over its entire width. This drum type is preferable on machines reaching the specified minimum speed. The spiral band can be easily mounted and removed by a slight clockwise twist. Spiral bands are easier to mount when drum is clamped in a chuck.

2. A = Drum with conical clamping jaws

If the minimum speeds listed in the tables for slotted drum holders cannot be obtained with the machine in use, a rubber drum with conical clamping jaws should be used. The jaws keep the abrasive spiral band firmly in place, regardless of the machine speed.

Ordering example:

GK 2220 6 H
A 427 6

1 2 3 4

How to order

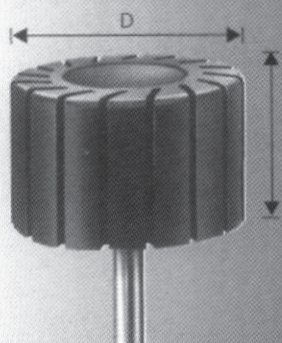
- 1 Product code GK=Slotted drum holder, cylindrical
A =Drum with conical clamping jaws
2 Dimension =Head dia. x head height mm
3 Shank dia. =mm
4 Rubber hardness

Rubber hardness 'H'

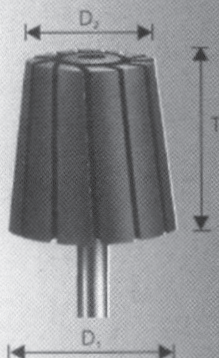
Rubber holders marked by the letter "H" have a greater hardness for increased working pressures. They are less elastic and therefore suitable for edge breaking.

Rubber drum holder	Rubber hardness
Standard type	approx. 65 Shore A
Special type "H"	approx. 80 Shore A

Rubber drum holder
Cylindrical type



Rubber drum holder
Conical type

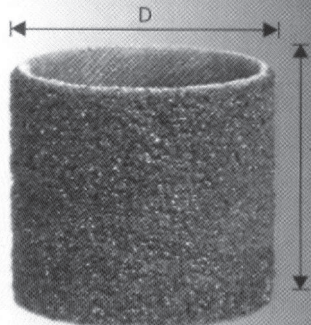


Order No.				Order No.			Head dia. x head height mm D x T	Shank dia. mm	Maximum RPM	GK minimum RPM			
GK type				A type*									
①	②	③	④	①	②	③						GK	A
GK	0410/	3		-	-	-	4 x 10	3	55000	30000	5	44	-
GK	0410/	6		-	-	-	4 x 10	6	55000	30000	5	89	-
GK	0610/	3		-	-	-	6 x 10	6	55000	30000	5	48	-
GK	0610/	6		-	-	-	6 x 10	6	55000	30000	5	93	-
GK	0810/	3		-	-	-	8 x 10	3	44000	30000	5	50	-
GK	0810/	6		-	-	-	8 x 10	6	44000	30000	5	95	-
GK	1010/	6	1)	-	-	-	10 x 10	6	44000	30000	5	50	-
GK	1020/	6	1)	-	-	-	10 x 20	6	44000	30000	5	60	-
GK	1310/	6		-	-	-	13 x 10	6	36000	30000	5	54	-
GK	1325/	6		-	-	-	13 x 25	6	36000	30000	5	80	-
GK	1510/	6	1)	-	-	-	15 x 10	6	36000	25000	5	60	-
GK	1530/	6	1)	-	-	-	15 x 30	6	36000	25000	5	100	-
GK	1925/	6		-	-	-	19 x 25	6	30000	20000	5	104	-
GK	2220/	6	1)	A	427/	6** 1)	22 x 20	6	26000	18000	5	102	149
GK	2220/	6	H 1)	-	-	-	22 x 20	6	26000	18000	5	102	-
GK	2525/	6		-	-	-	25 x 25	6	22900	16000	5	130	-
GK	3020/	6	1)	A	428/	6** 1)	30 x 20	6	19100	13000	5	138	264
GK	3030/	6	1)	A	429/	6 1)	30 x 30	6	19100	13000	5	187	380
GK	3030/	6	H 1)	-	-	-	30 x 30	6	19100	13000	5	187	-
GK	3825/	6		-	-	-	38 x 25	6	15100	10000	5	248	-
GK	4530/	6	1)	A	430/	6 1)	45 x 30	6	12700	9000	5	445	480
GK	4530/	6	H 1)	-	-	-	45 x 30	6	12700	9000	5	445	-
GK	5125/	6	1)	-	-	-	51 x 25	6	11200	8000	5	470	-
GK	6030/	6	1)	A	431/	6 1)	60 x 30	6	9500	6500	5	670	725
GK	6030/	8	1)	-	-	-	60 x 30	8	9500	6500	5	770	-
GK	7530/	8	1)	-	-	-	75 x 30	8	7600	5000	5	1025	-
GK	10040/	8	1)	-	-	-	100 x 40	8	5700	4000	5	2250	-
GK	292230/	6		A	433/	6	D, / D x T						
GK	201463/	6		-	-	-	29/22 x 30	6	19100	13000	5	167	242
GK	362260/	6		-	-	-	20/14 x 63	6	22000	15000	5	190	-
GK	362260/	6		-	-	-	36/22 x 60	6	15900	10000	5	370	-



ABRASIVE SPIRAL BANDS KSB/GSB

Abrasive Spiral Bands



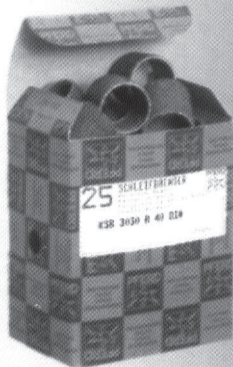
Abrasive spiral bands are used for batch production as well as occasionally in re-working and assembly applications. They are made of tear-resistant, resinold-bonded abrasive cloth.

A strong grain adhesive guarantees long life. The use of grease or grinding oil is recommended, especially when working on light metal alloys. Recommended peripheral speed: approx. 20m/s.

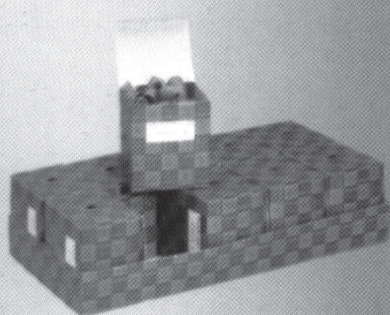
PFERD offers two types of packing units:
Small pack (KSB). For occasional requirements. Package contains 10 or 25 bands, depending on dimensions.

Bulk pack (GSB). The cheaper bulk pack contains 5 or 10 packages, respectively.
GSB 0410 to GSB 5125 = 10 cartons of 100 bands each
GSB 6030 and GSB 7530 = 5 cartons of 100 bands each
GSB 10040 = 5 cartons of 50 bands each

Abrasive Spiral Bands Small Pack KSB



Abrasive Spiral Bands Bulk Pack GSB



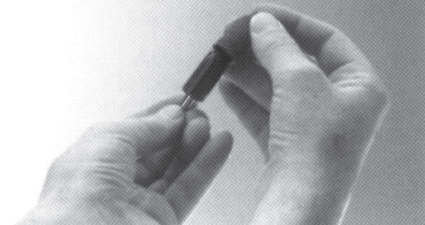
	Order No.	Bands suitable also for A-type holders	Available grit sizes A=Aluminium oxide						Diameter x Width mm D x T		
			40	50	60	80	150	240			
KSB 0410			-	-	-	-	●	-	4 x 10	25	9
KSB 0610			-	-	-	-	●	-	6 x 10	25	10
KSB 0810			-	-	-	-	●	-	8 x 10	25	10
KSB 1010*			-	-	-	●	●	-	10 x 10	25	20
KSB 1020*			-	-	-	●	●	●	10 x 20	25	25
KSB 1310			-	-	-	●	●	-	13 x 10	25	23
KSB 1325			-	-	-	●	●	-	13 x 25	25	48
KSB 1510*			-	-	●	●	●	-	15 x 10	25	25
KSB 1530*			-	●	●	●	●	●	15 x 30	25	58
KSB 1925			-	-	●	●	●	●	19 x 25	25	62
KSB 2220*	A 427		-	●	●	●	●	●	22 x 20	25	88
KSB 2525			-	-	●	●	●	●	25 x 25	25	103
KSB 3020*	A 428		●	-	●	●	●	-	30 x 20	25	103
KSB 3030*	A 429		●	●	●	●	●	●	30 x 30	25	128
KSB 3825			●	-	●	●	●	-	38 x 25	25	137
KSB 4530*	A 430		●	●	●	●	●	●	45 x 30	10	95
KSB 5125			●	-	●	●	●	-	51 x 25	10	102
KSB 6030*	A 431		●	●	●	●	●	-	60 x 30	10	117
KSB 7530*			●	-	●	●	●	-	75 x 30	10	140
KSB 10040*			●	-	●	●	●	-	100 x 40	10	284
KSB 292230	A 433		●	-	●	●	●	●	29/22 x 30	25	101
KSB 201463			●	-	●	●	●	●	20/14 x 60	25	143
KSB 362260			●	-	●	●	●	-	36/22 x 60	25	228

	Order No.	Bands suitable also for A-type holders	Available grit sizes A=Aluminium oxide						Diameter x Width mm D x T		
			40	50	60	80	150	240			
GSB 0410			-	-	-	-	●	-	4 x 10	1000	360
GSB 0610			-	-	-	-	●	-	6 x 10	1000	410
GSB 0810			-	-	-	-	●	-	8 x 10	1000	410
GSB 1010*			-	-	-	●	●	-	10 x 10	1000	800
GSB 1020*			-	-	-	●	●	●	10 x 20	1000	1640
GSB 1310			-	-	-	●	●	-	13 x 10	1000	900
GSB 1325			-	-	-	●	●	-	13 x 25	1000	2090
GSB 1510*			-	-	●	●	●	●	15 x 10	1000	1000
GSB 1530*			-	●	●	●	●	●	15 x 30	1000	2610
GSB 1925			-	-	●	●	●	●	19 x 25	1000	2760
GSB 2220*	A 427		-	●	●	●	●	●	22 x 20	1000	2910
GSB 2525			-	-	●	●	●	-	25 x 25	1000	4460
GSB 3020*	A 428		●	-	●	●	●	-	30 x 20	1000	4460
GSB 3030*	A 429		●	●	●	●	●	●	30 x 30	1000	5460
GSB 3825			●	-	●	●	●	-	38 x 25	1000	7000
GSB 4530*	A 430		●	●	●	●	●	●	45 x 30	1000	9100
GSB 5125			●	-	●	●	●	-	51 x 25	1000	8600
GSB 6030*	A 431		●	●	●	●	●	●	60 x 30	500	6450
GSB 7530*			●	-	●	●	●	-	75 x 30	500	7600
GSB 10040*			●	-	●	●	●	-	100 x 40	250	7450
GSB 292230	A 433		●	-	●	●	●	●	29/22 x 30	1000	4310
GSB 201463			●	-	●	●	●	●	20/14 x 60	1000	5110
GSB 362260			●	-	●	●	●	-	36/22 x 60	1000	9460

ABRASIVES & GRINDING TOOLS

ABRASIVE CAP HOLDERS

POLICAP® Abrasive Cap Holder



POLICA® tools are preferably used in tool making applications for finishing work in hard-to-reach areas.

The slotted cap holder is designed to accommodate a seamless abrasive cap. The centrifugal force locks the cap firmly in place. Maximum ease of cap replacement.

Ordering example:

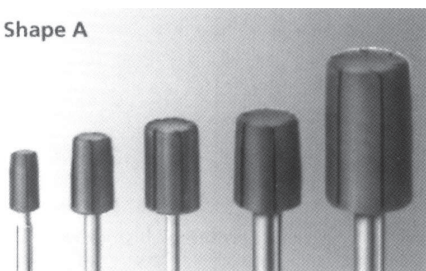
PCT 0510 A 3

① ② ③ ④

How to order

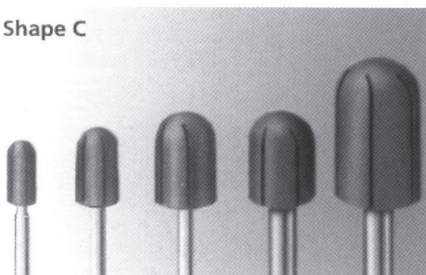
- ① Product code PCT=POLICA® abrasive cap holder
- ② Dimension = Diameter x head height mm
- ③ Shape A = Cylindrical
C = Cylindrical with radius end
G = Cylindrical with pointed cone
L = Tapered
- ④ Shank Diameter = mm

Shape A



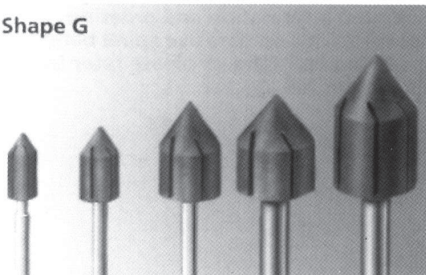
Order No.				Diameter x head height mm	Optimum speed rpm		
①	②	③	④				
PCT	0510	A	3	5 x 10	40000	5	14
PCT	0712	A	3	7 x 12	30000	5	18
PCT	1015	A	3	10 x 15	20000	5	24
PCT	1317	A	6	13 x 17	16000	5	72
PCT	1626	A	6	16 x 26	12000	5	102

Shape C



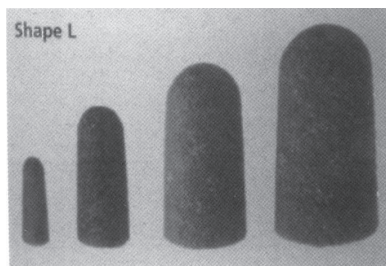
Order No.				Diameter x head height mm	Optimum speed rpm		
①	②	③	④				
PCT	0511	C	3	5 x 11	40000	5	14
PCT	0713	C	3	7 x 13	30000	5	18
PCT	1015	C	3	10 x 15	20000	5	24
PCT	1317	C	6	13 x 17	16000	5	72
PCT	1626	C	6	16 x 26	12000	5	102

Shape G



Order No.				Diameter x head height mm	Optimum speed rpm		
①	②	③	④				
PCT	0511	G	3	5 x 11	40000	5	14
PCT	0713	G	3	7 x 13	30000	5	18
PCT	1015	G	3	10 x 15	20000	5	22
PCT	1317	G	6	13 x 17	16000	5	68
PCT	1626	G	6	16 x 26	12000	5	95

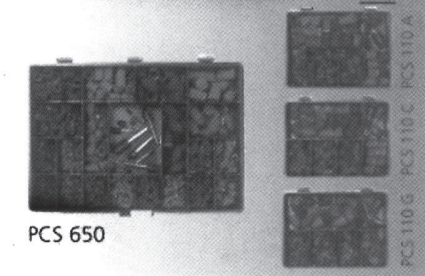
Shape L



Order No.				Diameter x head height mm	Optimum speed rpm		
①	②	③	④				
PCT	0515	L	6	5 x 15	40000	5	48
PCT	1125	L	6	11 x 25	20000	5	76
PCT	1632	L	6	16 x 32	12000	5	106
PCT	2140	L	6	21 x 40	9500	5	155

ABRASIVE CAPS

POLICAP® Tool Sets



Contents:

320 ea. POLICA® abrasive caps, shapes A and G, in 5 different dimensions and grit sizes.

10 matching POLICA® abrasive cap holders.

Contents:

105 ea. POLICA® abrasive caps, shapes A, C or G, in 5 different dimensions and grit sizes.

5 matching POLICA® abrasive cap holders.

Order No.	Dimensions mm		
PCS 650	332 x 235 x 50	1	1000

Order No.	Dimensions mm		
PCS 110 A	180 x 450 x 40	1	250
PCS 110 C	180 x 145 x 40	1	250
PCS 110 G	180 x 450 x 40	1	250

POLICAP® Abrasive Caps Shape A



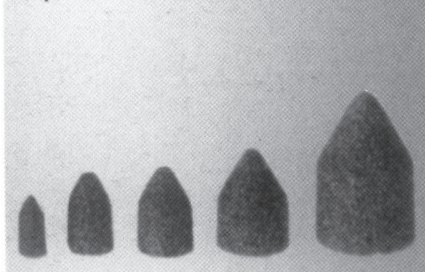
Order No.					
Shape	Available grit sizes	A = Aluminium oxide			
	60 Brown	150 Black	280 reddish brown		
PC 05 A	* ●	●	●	50	20
PC 07 A	●	●	●	50	29
PC 10 A	●	●	●	50	65
PC 13 A	●	●	●	50	70
PC 16 A	●	●	●	50	130

Shape C



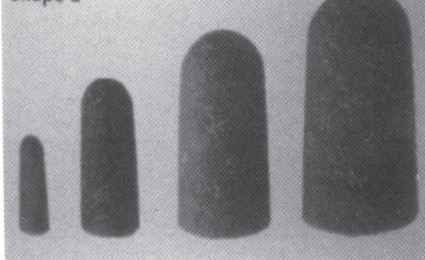
Order No.					
Shape	Available grit sizes	A = Aluminium oxide			
	60 Brown	150 Black	280 reddish brown		
PC 05 C	* ●	●	●	50	20
PC 07 C	●	●	●	50	29
PC 10 C	●	●	●	50	65
PC 13 C	●	●	●	50	70
PC 16 C	●	●	●	50	130

Shape G



Order No.					
Shape	Available grit sizes	A = Aluminium oxide			
	60 Brown	150 Black	280 reddish brown		
PC 05 G	* ●	●	●	50	20
PC 07 G	●	●	●	50	29
PC 10 G	●	●	●	50	45
PC 13 G	●	●	●	50	60
PC 16 G	●	●	●	50	105

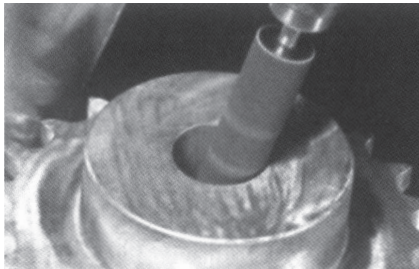
Shape L



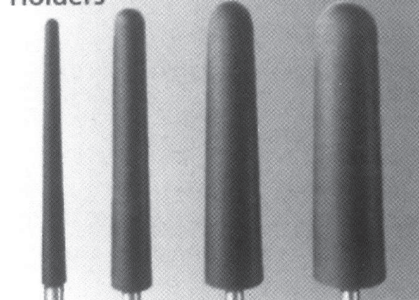
Order No.					
Shape	Available grit sizes	A = Aluminium oxide			
	60 Brown	150 Black	280 reddish brown		
PC 05 L	* ●	●	●	50	27
PC 11 L	●	●	●	50	91
PC 16 L	●	●	●	50	145
PC 21 L	●	●	●	50	255

ABRASIVES & GRINDING TOOLS

RUBBER ABRASIVE CONE HOLDERS, ABRASIVE CONES



POLICAP® Rubber Abrasive Cone Holders



Field of application

Seamless POLICAP® abrasive cones are designed for fine grinding and finishing work in confined areas and narrow holes in tool and mould making applications,

Note:

POLICAP® abrasive cone holders can be used with POLICA® abrasive caps PC 05L, PC 11L, PC 16L and PC 21L.

Ordering example:

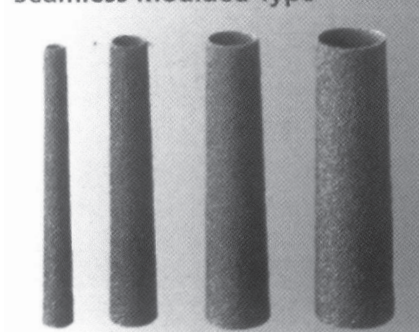
PCT 0585 L 6
 ① ② ③

How to order

- ① Product code PCT = POLICA® rubber abrasive cone holder
- ② Dimension = diameter x head height / shape mm
- ③ Shank diameter = 6 mm

Order No.			Diameter x head height mm	Optimum speed rpm		
①	②	③ Shank dia.mm				
PCT	0585 L	6	8 x 85	12000	5	100
PCT	1185 L	6	13 x 85	12000	5	170
PCT	1685 L	6	18 x 85	12000	5	250
PCT	2185 L	6	23 x 85	12000	5	350

POLICAP® Abrasive Cones Seamless Moulded Type



Ordering example:

PCH 05 L A 60
 ① ② ③ ④

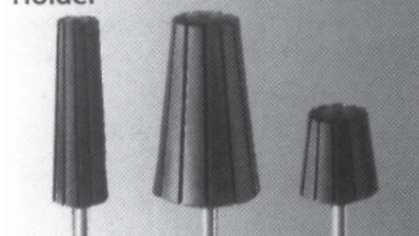
How to order

- ① Product code PCH = POLICA® abrasive cone seamless moulded type
- ② Dimension / Shape mm
- ③ Abrasive material A = Aluminium oxide
- ④ Grit Size

Order No.			Available grit sizes	A = Aluminium oxide ③			
①	②	③		150 Black	280 reddish brown		
PCH	05 L		60 Brown ④	●	●	10	37
PCH	11 L		●	●	●	10	65
PCH	16 L		●	●	●	10	84
PCH	21 L		●	●	●	10	110

Where no grit size is specified, grit 150 will be supplied.

POLICAP® Rubber Abrasive Cone Holder



Ordering example:

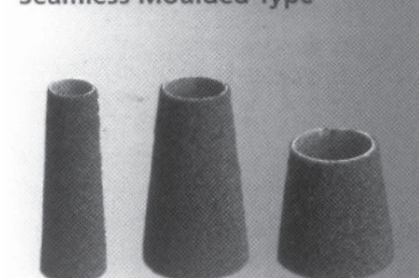
GK 201463 6
 ① ② ③

How to order

- ① Product code PCH = POLICA® abrasive cone holder
- ② Dimension = diameter x head height mm
- ③ Shank diameter = 6 mm

Order No.			Diameter x head height mm	Optimum speed rpm		
①	②	③ Shank dia.mm				
GK	201463	6	22/14 x 63	18500	5	190
GK	362260	6	36/22 x 60	13000	5	370
GK	292230	6	29/22 x 30	16000	5	167

POLICAP® Abrasive Cones Seamless Moulded Type



Ordering example:

PCH 2065 L A 60
 ① ② ③ ④

How to order

- ① Product code PCH = POLICA® abrasive cone seamless moulded type
- ② Dimension = Dia. x height/shape mm
- ③ Abrasive material A = Aluminium oxide
- ④ Grit Size

Order No.			Available grit sizes	A = Aluminium oxide ③			
①	②	③		150 Black	280 reddish brown		
PCH	2065 L		60 Brown ④	●	●	10	67
PCH	3665 L		●	●	●	10	120
PCH	2935 L		●	●	●	10	65

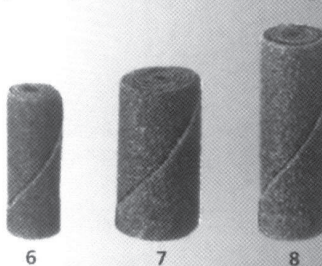
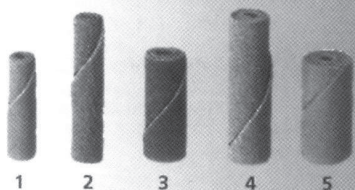
Where no grit size is specified, grit 150 will be supplied.



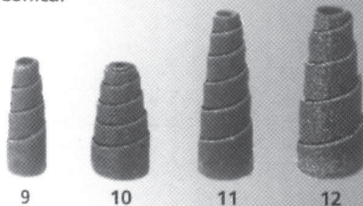
ABRASIVES & GRINDING TOOLS

POLIROLL®, POLICO®, ARBORS

POLIROLL® Cartridge Rolls PR Cylindrical



POLIROLL® Cartridge Rolls PRK Conical



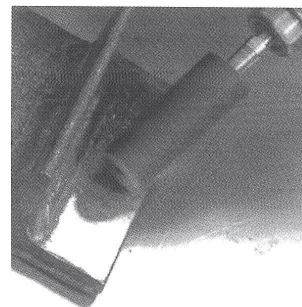
POLICO® Abrasive Cones PCO



POLIROLL®

PR type (cylindrical) cartridge rolls are used for levelling work in confined areas. As the outer layer wears off, fresh grain is exposed in successive layers. Good stock removal properties. **Always grind with the tip and not with the full roll surface** as this would cause the adhesive bond to suffer due to overheating. Always place roll on the arbor with its adhesive bonded end. Cylindrical cartridge rolls become cone-shaped in use.

Easily replaceable.



POLIROLL®

PRK type (conical) cartridge rolls

POLIROLL®

PRK Abrasive Cones

POLICO® grinding tools are ideal for deburring work in machined holes or confined areas. The self-locking action provided by the grooved tapered arbor enables a quick tool change.

Ordering example:

PR 1225 A 80
① ② ③ ④

How to order

① Product code

PR = POLIROLL® cylindrical cartridge rolls

PRK = POLIROLL® conical cartridge rolls

PCO = POLIROLL® abrasive cones

② Dimension = diameter x height mm

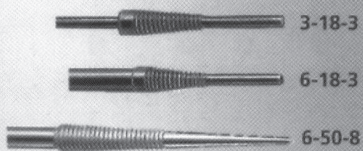
③ Abrasive material A = Aluminium oxide

④ Grit Size

	Order No.				Matching arbors	Dia. x height mm	Max. speed rpm			
			Available grit sizes A=Aluminium oxide ^③							
	①	②	④ 50	80						150
1	PR	0625	—	●	●	3+6-18-3	6 x 25	25000	20	20
2	PR	0635	—	●	●	6-24-3	6 x 35	25000	20	29
3	PR	0925	—	●	●	6-18-3	9 x 25	23000	20	40
4	PR	0935	—	●	●	6-24-3	9 x 35	23000	20	60
5	PR	1225	●	●	●	6-18-3	12 x 25	17000	20	77
6	PR	1235	●	●	●	6-24-3	12 x 35	17000	20	104
7	PR	1835	●	●	●	6-25-5	18 x 35	12000	20	227
8	PR	1850	●	●	●	6-30-5	18 x 50	12000	20	294
9	PRK	1025	—	●	●	3+6-18-3	10 x 25	23000	20	37
10	PRK	1225	●	●	●	6-18-3	12 x 25	17000	20	52
11	PRK	1235	●	●	●	6-24-3	12 x 35	17000	20	70
12	PRK	1535	●	●	●	6-24-3	15 x 35	15000	20	102
13	PCO	1050*	—	●	●	6-50-8	10 x 50	23000	20	60

* Conical: 5 deg.

Arbors for POLIROLL® and POLICO® Grinding Tools

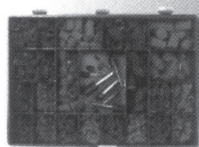


Order No.	3-18-3	6-18-3	6-24-3	6-25-5	6-30-5	6-50-8
Shank dia. mm	3	6	6	6	6	6
	1	1	1	1	1	1
	8	12	14	20	22	22

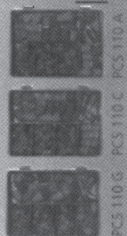
Fits	PR 0625	PR 0625	PR 0635	PR 1835	PR 1850	PCO 1050
POLIROLL®	PRK 1025	PR 0925	PR 0935			Locking
PR=cylindrical		PR 1225	PR 1235			Portion
PRK=conical		PRK 1025	PRK 1235			conicity
POLICO® PCO		PRK 1225	PRK 1535			5 deg.

POLICAP® Tool Sets

N!



PCS 650



150 POLIROLL® Cartridge Rolls and 1 matching arbor

20 pcs. each of PR 0625, A80 and A150

20 pcs. each of PR 0925, A80 and A150

20 pcs. each of PR 1225, A80 and A150

10 pcs. each of PRK 1025, A80 and A150

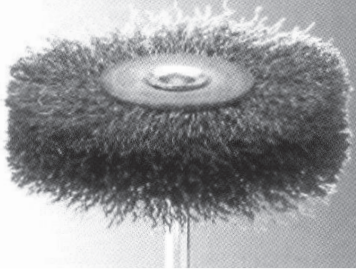
10 pcs. of PRK 1225, A80

Order No.	Dimensions mm		
PRS 151	180 x 145 x 40	1	390

ABRASIVES & GRINDING TOOLS

MOUNTED BRUSHES

Mounted Brushes with Crimped Wire



- Steel wire, as hardened
- Stainless steel wire, acid resistant
- Brass wire
- SiC filament, 180 grit (from 50 mm dia.)

RBU = Mounted brushes, crimped wire type.

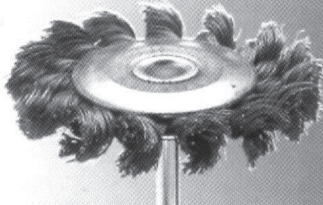
For cleaning, rust removal, smoothing, descaling, fettling or cast seams, light deburring work, removal of corrosion and painting coatings.

Recommended speed range:
approx. 5000 to 8000 RPM
Power input:
300-600 watts

Order No.		Available Wire Grades				Head dia. mm	Face width mm	Trim length mm	Shank dia. mm	Wire size mm SiC	Max speed RPM			SiC
New	Previous	Steel	Stainless	Brass	SiC (180) ¹⁾									
RBU 2004	419 A	●	●	●	—	20.0	4.0	3.0	6.0	0.2 -	20000	10	180	-
RBU 3006	419 B	●	●	●	—	30.0	6.0	6.5	6.0	0.2 -	20000	10	230	-
RBU 4009	419 C	●	●	●	—	40.0	9.0	9.0	6.0	0.2 -	18000	10	505	-
RBU 5015	419 D	●	●	●	●	50.0	15.0	12.5	6.0	0.2 0.9	15000	10	790	590
RBU 7015	419 E	●	●	●	●	70.0	15.0	19.0	6.0	0.3 0.9	15000	10	1106	810
RBU 8015	419 F	●	●	●	●	80.0	15.0	19.0	6.0	0.3 0.9	12000	10	1333	1010

1) Other grit size available on request. 2) SiC filament: 180 grit, 0.90 mm filament dia.

Mounted Brushes with Knotted Wire



- Steel wire, as hardened
- Stainless steel wire

Knotted wire provides a more aggressive stock removal than crimped wire.

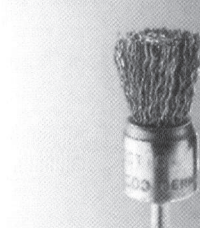
RBU = Mounted brushes, crimped wire type.

For cleaning, rust removal and weld seam conditioning work.

Recommended speed range:
approx. 5000 to 10000 RPM
Power input:
minimum 500 watts (recommended)

Order No.		Available Wire Grades		Dimensions Dia. x Width mm	Shank dia. mm	Trim length mm	Wire size mm	Max. speed RPM			
New	Previous	Steel	Stainless								
RBG 7006	419 EZ	●	●	70 x 6	6.0	15	0.30 20000	10	600		

Pencil Brushes with Crimped Wire



- Steel wire, as hardened
- Stainless steel wire, acid resistant
- Brass wire

Important:
Use at low speed

- SiC filament, 180 grit

RBU = Pencil brushes, crimped wire type

For removing burrs, slag, scale, paint, rust, deposits and stains. The wires spread out as the tool rotates, permitting an effective brushing action even in hard-to-reach areas (e.g. inside of bores and cavities)

Recommended speed range:
approx. 5000 to 8000 RPM
Power input:
300 watts

Order No.		Available Wire Grades				Head dia. mm	Overall length mm	Face width mm	Trim length mm	Shank dia. mm	Wire size mm SiC	Max speed RPM			SiC
New	Previous	Steel	Stainless	Brass	SiC (180) ¹⁾										
PBU 1010	420 D	●	●	●	●	10.0	70.0	10.0	20.0	6.0	0.4 0.9	20000	10	187	142
PBU 1516	420 C	●	●	●	●	15.0	70.0	16.0	22.0	6.0	0.4 0.9	18000	10	373	312
PBU 2020	420 B	●	●	●	●	20.0	70.0	20.0	25.0	6.0	0.5 0.9	18000	10	690	512
PBU 3020	420 A	●	●	●	●	30.0	70.0	29.0	25.0	6.0	0.5 0.9	15000	10	1308	844

1) Other grit size available on request. 2) SiC filament: 180 grit



POLIFAN® WHEELS, FLAT TYPE (PFF)

POLIFAN® Wheels PFF

Type A (Aluminium Oxide)



PFF

Type A-Forte (Aluminium Oxide)

NI



PFF

Type Z (Zirconia Alumina Grain)



PFF

Type Z-Forte (Zirconia Alumina Grain)

NI



PFF

Assortment of POLIFAN® PFF NI Surface Grinding Wheels



Type A (Aluminium Oxide):

for any work on aluminium, soft non-ferrous metals, low-strength structural steels, plastics and wood.

Order No.						D1 x D2 [mm (in)]	max. speed RPM		
	Available grit sizes								
	24	40	60	80	120				
PFF 100-16 A	—	●	●	●	●	100 x 16.0 (5/8")	15300	10	0.800
PFF 115-22 A	—	●	●	●	●	115 x 22.2 (7/8")	13300	10	1.100
PFF 125-22 A	—	●	●	●	●	125 x 22.2 (7/8")	12200	10	1.200
PFF 180-22 A	●	●	●	●	●	180 x 22.2 (7/8")	8500	10	2.600

Please specify order No. and grit in your purchase order.

Type A-Forte (Aluminium Oxide):

particularly suited for surface grinding of stainless steels and high-temperature alloys.

Order No.						D1 x D2 [mm (in)]	max. speed RPM		
	Available grit sizes								
	24	40	60	80	120				
PFF 100-16 A-Forte	■	●	●	●	■	100 x 16.0 (5/8")	15300	10	0.800
PFF 115-22 A-Forte	■	●	●	●	■	115 x 22.2 (7/8")	13300	10	1.100
PFF 125-22 A-Forte	■	●	●	●	■	125 x 22.2 (7/8")	12200	10	1.200
PFF 180-22 A-Forte	■	●	●	●	■	180 x 22.2 (7/8")	8500	10	2.600

Please specify order No. and grit in your purchase order.

Type Z (Zirconia Alumina Grain):

for heavy duty use such as deburring, weld seam dressing and edge breaking work on any material.

Order No.						D1 x D2 [mm (in)]	max. speed RPM		
	Available grit sizes								
	24	40	60	80	120				
PFF 115-22 Z	—	●	●	—	—	115 x 22.2 (7/8")	13300	10	1.100
PFF 125-22 Z	—	●	●	—	—	125 x 22.2 (7/8")	12200	10	1.200
PFF 180-22 Z	—	●	●	—	—	180 x 22.2 (7/8")	8500	10	2.600

Please specify order No. and grit in your purchase order.

Type Z-Forte (Zirconia Alumina Grain)

for medium duty work, e.g. surface grinding, weld seam dressing on planar surfaces, fettling of alloyed and unalloyed steel casting, and grinding on elevated strength non-ferrous metals. Also suitable for light deburring and bevelling work on stainless and high-temperature steels.

Order No.						D1 x D2 [mm (in)]	max. speed RPM		
	Available grit sizes								
	24	40	60	80	120				
PFF 100-16 Z-Forte	■	●	●	●	■	100 x 16.0 (5/8")	15300	10	0.800
PFF 115-22 Z-Forte	■	●	●	●	■	115 x 22.2 (7/8")	13300	10	1.100
PFF 125-22 Z-Forte	■	●	●	●	■	125 x 22.2 (7/8")	12200	10	1.200
PFF 180-22 Z-Forte	●	●	●	●	■	180 x 22.2 (7/8")	8500	10	2.600

Please specify order No. and grit in your purchase order.

Order No.	Contents		
PFF-SO 115	PFF Z 40 (10 pcs) PFF Z 60, 80 (5 ea.) PFF A 40, 80 (5 ea.)	1	3.615
PFF-SO 115 Forte	PFF Z Forte 40 (10 pcs) PFF Z-Forte 60, 80 (5 ea.) PFF A-Forte 40, 80 (5 ea.)	1	3.615

ABRASIVES & GRINDING TOOLS

REINFORCED GRINDING WHEELS

Grinding Wheels A-SG



E 178 - 6 A 24 SG

PFERD universal grinding wheels for use on steel and other metals.
Surface, weld and edge grinding

A: Aluminium oxide
SG: Fast stock removal, long service life

IMPA	Order No.	DIN Designation	D1 x B x D2 [mm (in)]	max. speed RPM		
	E 70-6 A 24 SG*	27 A 24 R BF80	70 x 6.3 x 10.0 (25/64")	21800	10	0.650
	E 70-8 A 24 SG* ¹⁾	27 A 24 R BF80	70 x 8.2 x 10.0 (25/65")	21800	10	0.830
	E 76-6 A 24 SG*	27 A 24 R BF80	76 x 6.3 x 10.0 (25/64")	20200	10	0.745
	E 90-4 A 24 SG* ¹⁾	27 A 24 R BF80	90 x 4.5 x 16.0 (5/8")	17000	10	0.795
614802	E 100-4 A 24 SG*	27 A 24 R BF80	100 x 4.5 x 16.0 (5/8")	15300	10	1.035
614803	E 100-6 A 24 SG*	27 A 24 R BF80	100 x 6.4 x 16.0 (5/8")	15300	10	1.270
	E 115-4 A 24 SG*	27 A 24 R BF80	115 x 5.1 x 22.2 (7/8")	13300	10	1.260
	E 115-6 A 24 SG*	27 A 24 R BF80	115 x 6.8 x 22.2 (7/8")	13300	10	1.840
614805	E 125-4 A 24 SG*	27 A 24 R BF80	125 x 5.1 x 22.2 (7/8")	12200	10	1.530
614806	E 125-6 A 24 SG*	27 A 24 R BF80	125 x 6.8 x 22.2 (7/8")	10200	10	2.250
614808	E 125-6 A 24 SG*	27 A 24 R BF80	150 x 6.8 x 22.2 (7/8")	8600	10	3.050
	E 178-4 A 24 SG*	27 A 24 R BF80	178 x 5.3 x 22.2 (7/8")	8600	10	3.190
614811	E 178-6 A 24 SG*	27 A 24 R BF80	178 x 6.8 x 22.2 (7/8")	8600	10	4.360
614815	E 230-4 A 24 SG*	27 A 24 R BF80	230 x 5.3 x 22.2 (7/8")	6600	10	5.350
614816	E 230-6 A 24 SG*	27 A 24 R BF80	230 x 6.8 x 22.2 (7/8")	6600	10	6.940

Grinding Wheels A-SG Forte



E 178 - 6 A 24 SG Forte

PFERD universal grinding wheels for use on steel and other metals. Particularly suitable for alloyed steels.
Surface, weld and edge grinding

A: Aluminium oxide
SG-Forte: Fast stock removal, long service life

Order No.	DIN Designation	D1 x B x D2 [mm (in)]	max. speed RPM		
E 178-4 A 24 SG Forte	27 A 24 N BF80	178 x 4.1 x 22.2 (7/8")	8600	10	2.390
E 178-6 A 24 SG Forte	27 A 24 N BF80	178 x 6.8 x 22.2 (7/8")	8600	10	4.360
E 178-8 A 24 SG Forte	27 A 24 N BF80	178 x 8.6 x 22.2 (7/8")	8600	10	5.690
E 178-10 A 24 SG Forte	27 A 24 N BF80	178 x 10.5 x 22.2 (7/8")	8600	10	6.300
E 230-6 A 24 SG Forte	27 A 24 N BF80	230 x 6.8 x 22.2 (7/8")	6600	10	6.940
E 230-8 A 24 SG Forte	27 A 24 N BF80	230 x 8.6 x 22.2 (7/8")	6600	10	9.060

Grinding Wheels A/C-SG Forte



E 178 - 6 A/C 24 SG Forte

PFERD universal grinding wheels for use on alloy cast iron, cast steel and malleable cast iron.

A/C: Mixed abrasive grain
Aluminium oxide / Silicon carbide
SG-Forte: Fast stock removal, long service life

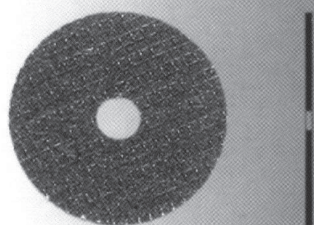
Order No.	DIN Designation	D1 x B x D2 [mm (in)]	max. speed RPM		
E 178-6 A/C 24 SG Forte ¹⁾	27 AC 24 N BF80	178 x 6.8 x 22.2 (7/8")	8600	10	4.500
E 178-6 A/C 24 SG Forte ¹⁾	27 AC 24 N BF80	178 x 8.6 x 22.2 (7/8")	8600	10	5.210



CUT-OFF WHEELS

Cut-off wheels S-SG

EHT = flat type



EHT 50-2.1 A 46 SG

Universal cut-off wheel for steel, castings and non-ferrous metals.

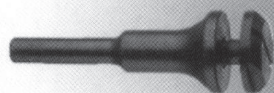
These thin PFERD tools (30-76 mm dia.) are particularly suited for use on high-temperature materials, e.g., in jet engine repair maintenance applications. They are also used on automotive bodywork and for cutting sheet metal in confined spaces.

A: Aluminium oxide

SG: Fast stock removal, long service life

IMPA	Order No.	DIN Designation	D1 x B x D2 [mm (in)]	max. speed RPM		
	EHT 30-1.1 A 60 SG	41 A 60 P BF80	30 x 1.1 x 6.0 (1/4")	51000	50	0.125
	EHT 40-1.1 A 60 SG	41 A 60 P BF80	40 x 1.1 x 6.0 (1/4")	38200	50	0.185
	EHT 50-1.1 A 60 SG	41 A 60 P BF80	50 x 1.1 x 6.0 (1/4")	30600	50	0.260
	EHT 50-2.1 A 46 SG	41 A 46 P BF80	50 x 2.1 x 6.0 (1/4")	30600	50	0.450
	EHT 65-1.1 A 60 SG	41 A 60 P BF80	65 x 1.1 x 6.0 (1/4")	23500	50	0.405
	EHT 65-1.4 A 60 SG	41 A 60 P BF80	65 x 1.4 x 10.0 (25/64")	23500	50	0.500
	EHT 70-1.1 A 60 SG	41 A 60 P BF80	70 x 1.1 x 10.0 (25/64")	21800	50	0.460
	EHT 70-2.1 A 46 SG	41 A 46 P BF80	70 x 2.1 x 10.0 (25/64")	21800	50	0.835
614851	EHT 76-1.1 A 60 SG	41 A 60 P BF80	76 x 1.1 x 10.0 (25/64")	20100	50	0.535
614852	EHT 76-2.1 A 46 SG	41 A 60 P BF80	76 x 2.1 x 10.0 (25/64")	20100	50	0.975

Arbors



N1

Arbors for thin PFERD cut-off wheels (30-76 mm diameter range)

Order No.	Shank dia. (mm) for centre hole dia	Clamping range mm		
6 / 6 0-4	6 for 6	0-4	1	0.036
6.35 / 6 0-4	6.35 for 6	0-4	1	0.036
6 / 10 0-4	6 for 10	0-4	1	0.036
6.35 / 10 0-4	6.35 for 10	0-4	1	0.036
8 / 10 0-4	8 for 10	0-4	1	0.040

Cut-off wheels A-SG

EHT = flat type

EH = depressed centre type



EHT 178 - 2A 24 SG

EHT EH

Universal PFERD cut-off wheels for steel, casting and non-ferrous metals.

IMPA	Order No.	DIN Designation	D1 x B x D2 [mm (in)]	max. speed RPM		
614859	EHT 100-2 A 46 SG	41 A 46 P BF80	100 x 2.5 x 16.0 (5/8")	15300	25	0.860
	EH 100-2 A 46 SG	41 A 46 P BF80	100 x 2.5 x 16.0 (5/8")	15300	25	1.180
	EHT 115-2 A 30 SG	41 A 30 P BF80	115 x 2.1 x 22.2 (7/8")	13300	25	1.140
	EHT 115-2 A 46 SG	41 A 46 P BF80	115 x 2.8 x 22.2 (7/8")	13300	25	1.460
	EH 115-2 A 46 SG	41 A 46 P BF80	115 x 2.8 x 22.2 (7/8")	13300	25	1.460
	EHT 125-2 A 24 SG	41 A 24 R BF80	125 x 2.6 x 22.2 (7/8")	12200	25	1.850
	EH 125-2 A 24 SG	41 A 24 R BF80	125 x 2.6 x 22.2 (7/8")	12200	25	1.850
	EHT 125-2 A 30 SG	41 A 30 P BF80	125 x 2.7 x 22.2 (7/8")	12200	25	1.850
614863	EHT 150-2 A 24 SG	41 A 24 R BF80	150 x 3.0 x 22.2 (7/8")	10200	25	3.050
	EH 150-2 A 24 SG	41 A 24 R BF80	150 x 3.0 x 22.2 (7/8")	10200	25	3.050
	EHT 178-2 A 24 SG	41 A 24 R BF80	178 x 3.2 x 22.2 (7/8")	8600	25	4.500
614864	EHT 178-2 A 46 SG	41 A 46 P BF80	178 x 2.2 x 22.2 (7/8")	8600	25	2.850
	EH 178-2 A 24 SG	41 A 24 R BF80	178 x 3.2 x 22.2 (7/8")	8600	25	4.500
614870	EHT 230-2 A 24 SG	41 A 24 R BF80	230 x 3.2 x 22.2 (7/8")	6600	25	7.300
614869	EHT 230-2 A 46 SG	41 A 46 P BF80	230 x 3.2 x 22.2 (7/8")	6600	25	4.575
	EH 230-2 A 24 SG	41 A 24 R BF80	230 x 3.2 x 22.2 (7/8")	6600	25	7.300

IMPA	Order No.										DIN Designation	D ₁ [mm (in)]	B [mm (in)]	max. speed RPM		
		Standard centre hole D ₂ [mm]				Special centre hole* D ₂ [mm]										
614875	80 T 300 - 3A 24 SG	22.2	25.4	30.0	40.0	28.0	32.0	-	-	41A 24R BF 80	300 (12")	3.5 (9/64")	5100	20	10.900	
614878	80 T 350 - 3A 24 SG	-	25.4	-	40.0	22.2	28.0	32.0	-	41A 24R BF 80	350 (14")	3.8 (9/64")	4400	10	9.000	
614881/2	80 T 400 - 4A 24 SG	-	-	-	40.0	25.4	28.0	30.0	32.0	41A 24R BF 80	400 (16")	4.3 (11/64")	3800	10	12.940	
	80 T 500 - 5A 24 SG	-	-	-	40.0	25.4	28.0	30.0	32.0	41A 24R BF 80	500 (20")	5.5 (7/32")	3100	5	13.580	
	100PT600 - 6A 24 SG	-	-	-	76.2	-	-	-	-	42A 24R BF 100	600 (24")	7.6 (19/64")	3200	5	29.450	
	100PT 800 - 8A 24 SG	-	-	-	100.0	-	-	-	-	42A 24R BF 100	800 (32")	9.0 (23/64")	2400	5	61.000	

Please indicate order number and centre hole diameter in your purchase order. e.g., 80T 350 - 3A 24 SG, 40 mm centre hole.

Unless otherwise specified, wheels up to 500 mm diameter are supplied with 40 mm centre holes. Wheels with non-standard centre holes are supplied with free adapter rings.

** 100T 300 - 3A 24 SG with 25.4 x 25.4 mm (1" x 1") special centre hole for KUSTER cut-off machines is available on request.

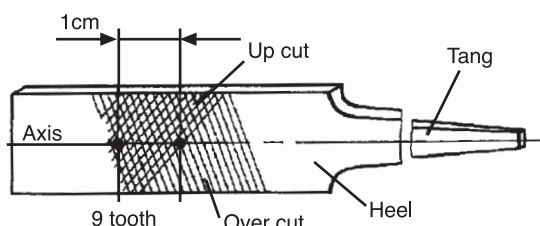
* Other centre holes available by special arrangement.

ABRASIVES & GRINDING TOOLS

FILES

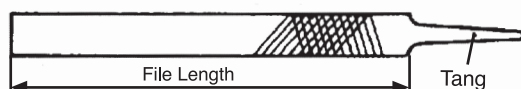
The teeth number indicates how many cuts the file possesses per centimetre of length (i.e., counted in the longitudinal axis). For a double-cut file, the teeth number is determined from the upper cut (second course)

Determination of the teeth number:



Example: At a file length of 250 mm, 9 teeth per centimetre indicate a Cut 1 file. A 100-mm long file of the same Cut 1 has 17 teeth per 1 cm of file length. The higher number of teeth found on shorter files is extended to provide the same convenience (in terms of force input, guidability and stock removal rate) on surfaces on edges as a longer tool.

Sizes



The cross-sectional dimensions indicated in the tables are measured across the cut. PFERD files are manufactured in full compliance with DIN and ISO standard specifications.

Professional quality for DIY users

Our comprehensive range of industry-proven PFERD files includes machinist's files, sharpening files and rasps in an attractive self-service pack. These tools are ideally suited for DIY purposes and for the hobbyist's workshop, in addition to industrail and trade use. Each file comes with an ergonomically designed, convenient-to-use plastic handle.

Number of teeth per cm according to DIN 8349

Length (without tang) mm	Machinist's Files Teeth Nos. 8%			Sharpening Files Teeth Nos. 5%				
	Cut 1	Cut 2	Cut 3	regular	slim	extra slim	Mill Saw File Cut 1	Cut 2
100	17	22	28	20	23	26	-	-
125	-	-	-	19	22	24	-	-
150	13	18	22	17	20	22	20	24
175	-	-	-	16	19	21	-	-
200	10	14	18	15	17	20	18	20
250	9	12	16	14	16	17	16	18
300	8	11	14	-	-	-	14	16
350	7	10	13	-	-	-	12	14

Cut 1-B = Bastard / Cut 2 = Second cut / Cut 3-S = Smooth

Cut 1 = green

10 Hand



mm

Bastard
batarde

1112

250

1

Cut 2 = yellow

10 Hand



mm

Second cut

1112

250

2

Cut 3 = red

10 Hand



mm

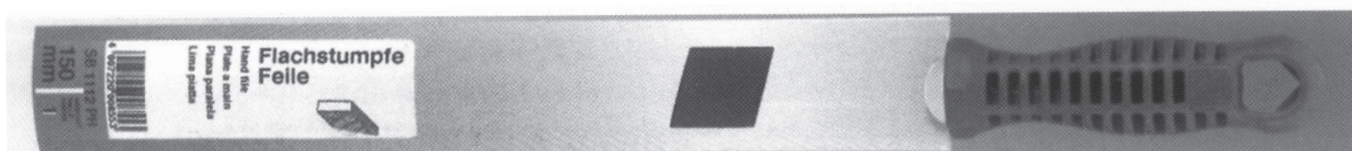
Smooth

1112

250

3

Packing Unit:  5 pcs



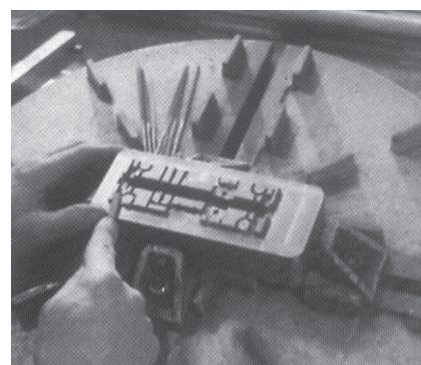
PFERD in use



Sharpening file



Rasp



Needle file



MACHINIST'S FILES (DIN SERIES)

Hand



DIN 7261	PFERD No.	Length in	Length mm	Cross section mm	Weight Kg p. packing unit	Suitable File Handle	Available in cut
	1112	4"	100	10.4 x 2.5	0.195	PH 08	1 2 3
		6"	150	16.0 x 4.0	0.765	PH 09	1 2 3
		8"	200	20.0 x 5.0	1.535	PH 11	1 2 3
		10"	250	25.0 x 6.3	2.960	PH 11	1 2 3
		12"	300	30.0 x 6.7	2.255	PH 13	1 2 3
		14"	350	34.5 x 7.6	3.440	PH 13	1 2 3

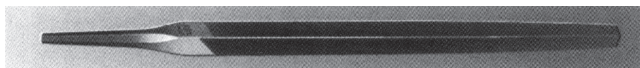
SB = File with this cut is also available with plastic handle in a set-service pack. Please place the letters "SB" before the order number, e.g. SB 1112, 150mm Cut 1.
 5 pcs

Flat



IMPA	DIN 7261	PFERD No.	Length in	Length mm	Cross section mm	Weight Kg p. packing unit	Suitable File Handle	Available in cut
		1122	4"	100	10.4 x 2.5	0.195	PH 08	1 2 3
614301			6"	150	16.0 x 4.0	0.765	PH 09	1 2 3
614302			8"	200	20.0 x 5.0	1.535	PH 11	1 2 3
614303			10"	250	25.0 x 6.3	2.960	PH 11	1 2 3
614304			12"	300	30.0 x 6.7	2.255	PH 13	1 2 3
614305			14"	350	34.5 x 7.6	3.440	PH 13	1 2 3

Three Square



IMPA	DIN 7261	PFERD No.	Length in	Length mm	Cross section mm	Weight Kg p. packing unit	Suitable File Handle	Available in cut
		1132	4"	100	10.4 x 2.5	0.195	PH 08	1 2 3
614384			6"	150	16.0 x 4.0	0.765	PH 09	1 2 3
614385			8"	200	20.0 x 5.0	1.535	PH 11	1 2 3
614386			10"	250	25.0 x 6.3	2.960	PH 11	1 2 3
614387			12"	300	30.0 x 6.7	2.255	PH 13	1 2 3
614388			14"	350	34.5 x 7.6	3.440	PH 13	1 2 3

SB = File with this cut is also available with plastic handle in a set-service pack. Please place the letters "SB" before the order number, e.g. SB 1132, 150mm Cut 1.
 5 pcs

Square



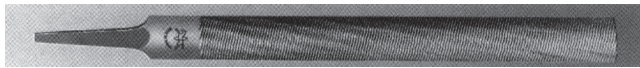
IMPA	DIN 7261	PFERD No.	Length in	Length mm	Cross section mm	Weight Kg p. packing unit	Suitable File Handle	Available in cut
		1142	4"	100	10.4 x 2.5	0.195	PH 08	1 2 3
614384			6"	150	16.0 x 4.0	0.765	PH 09	1 2 3
614385			8"	200	20.0 x 5.0	1.535	PH 11	1 2 3
614386			10"	250	25.0 x 6.3	2.960	PH 11	1 2 3
614387			12"	300	30.0 x 6.7	2.255	PH 13	1 2 3
614388			14"	350	34.5 x 7.6	3.440	PH 13	1 2 3

SB = File with this cut is also available with plastic handle in a set-service pack. Please place the letters "SB" before the order number, e.g. SB 1142, 150mm Cut 1.
 5 pcs

Cut 1-b = Bastard / Cut 2 = Second cut / Cut 3-S = Smooth.
dimensional tolerances within DIN standard specifications.

Half Round

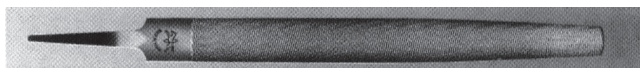
Unparalleled filing performance due to PFERD spiral cut



IMPA	DIN 7261	PFERD No.	Length in	Length mm	Cross section mm	Weight Kg p. packing unit	Suitable File Handle	Available in cut
		1152	4"	100	10.4 x 2.5	0.195	PH 08	1 2 3
614328			6"	150	16.0 x 4.0	0.765	PH 09	1 2 3
614329			8"	200	20.0 x 5.0	1.535	PH 11	1 2 3
614330			10"	250	25.0 x 6.3	2.960	PH 11	1 2 3
614331			12"	300	30.0 x 6.7	2.255	PH 13	1 2 3
614332			14"	350	34.5 x 7.6	3.440	PH 13	1 2 3

SB = File with this cut is also available with plastic handle in a set-service pack. Please place the letters "SB" before the order number, e.g. SB 1152, 150mm Cut 1.
 5 pcs

Half Round Pointed with PFERD spiral cut



DIN 7261	PFERD No.	Length in	Length mm	Cross section mm	Weight Kg p. packing unit	Suitable File Handle	Available in cut
	1152 P	4"	100	10.4 x 2.5	0.195	PH 08	1 2 3
		6"	150	16.0 x 4.0	0.765	PH 09	1 2 3
		8"	200	20.0 x 5.0	1.535	PH 11	1 2 3
		10"	250	25.0 x 6.3	2.960	PH 11	1 2 3
		12"	300	30.0 x 6.7	2.255	PH 13	1 2 3
		14"	350	34.5 x 7.6	3.440	PH 13	1 2 3

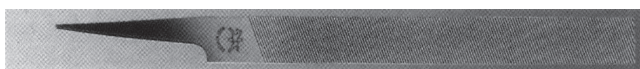
Round with PFERD spiral cut



IMPA	DIN 7261	PFERD No.	Length in	Length mm	Cross section mm	Weight Kg p. packing unit	Suitable File Handle	Available in cut
		1162	4"	100	10.4 x 2.5	0.195	PH 08	1 2 3
614356			6"	150	16.0 x 4.0	0.765	PH 09	1 2 3
614357			8"	200	20.0 x 5.0	1.535	PH 11	1 2 3
614358			10"	250	25.0 x 6.3	2.960	PH 11	1 2 3
614359			12"	300	30.0 x 6.7	2.255	PH 13	1 2 3
614360			14"	350	34.5 x 7.6	3.440	PH 13	1 2 3

SB = File with this cut is also available with plastic handle in a set-service pack. Please place the letters "SB" before the order number, e.g. SB 1162, 150mm Cut 1.
 5 pcs

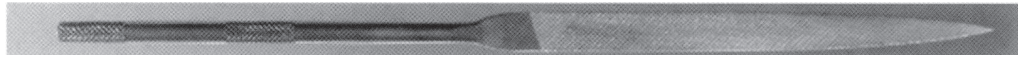
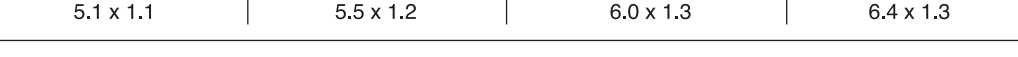
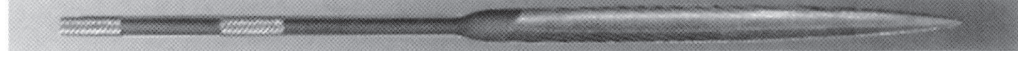
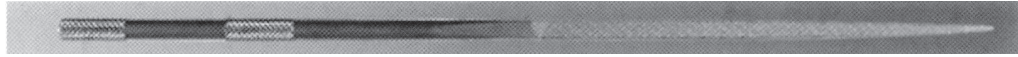
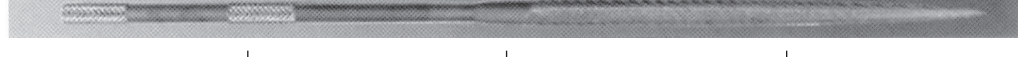
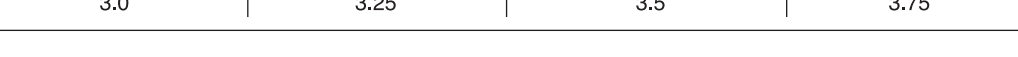
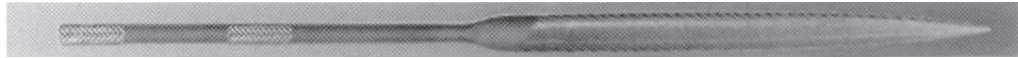
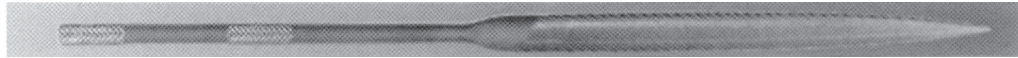
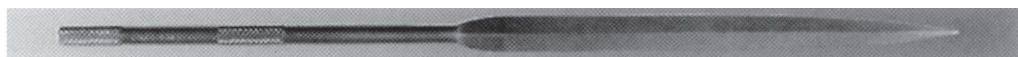
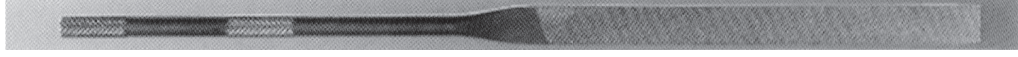
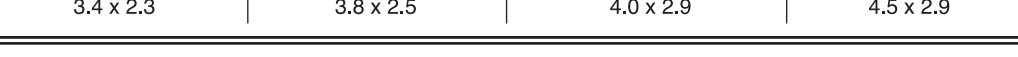
Knife Files the back is uncut



DIN 7261	PFERD No.	Length in	Length mm	Cross section mm	Weight Kg p. packing unit	Suitable File Handle	Available in cut
	1172	4"	100	10.4 x 2.5	0.195	PH 08	1 2 3
		6"	150	16.0 x 4.0	0.765	PH 09	1 2 3
		8"	200	20.0 x 5.0	1.535	PH 11	1 2 3
		10"	250	25.0 x 6.3	2.960	PH 11	1 2 3
		12"	300	30.0 x 6.7	2.255	PH 13	1 2 3
		14"	350	34.5 x 7.6	3.440	PH 13	1 2 3

ABRASIVE AND GRINDING TOOLS

NEEDLE FILES

	Length 140mm Cross section mm	Length 160mm Cross section mm	Length 180mm Cross section mm	Length 200mm Cross section mm
2406  Flat	 5.1 x 1.1	 5.5 x 1.2	 6.0 x 1.3	 6.4 x 1.3
2401  Hand	 5.1 x 1.1	 5.5 x 1.2	 6.0 x 1.3	 6.4 x 1.3
2403  Crossing	 4.5 x 1.8	 5.2 x 2.1	 5.7 x 2.2	 6.3 x 2.3
2407  Three Square	 3.5	 3.65	 4.1	 4.1
2408  Square	 2.4	 2.4	 2.7	 3.0
2410  Round	 3.0	 3.25	 3.5	 3.75
2405  Knife	 5.5 x 1.5	 5.3 x 1.7	 6.2 x 1.8	 6.6 x 2.0
2402  Half Round	 5.0 x 1.6	 5.7 x 1.8	 6.0 x 2.0	 6.4 x 1.8
2411  Barrette	 5.0 x 2.0	 5.3 x 1.8	 5.6 x 2.1	 6.0 x 2.2
2415  Flat, round edges	 5.1 x 1.1	 5.5 x 1.2	 6.0 x 1.3	 6.4 x 1.3
2416  Hand, round edges	 5.1 x 1.1	 5.5 x 1.2	 6.6 x 1.3	 6.4 x 1.3
2409  Crossing oval	 3.4 x 2.3	 3.8 x 2.5	 4.0 x 2.9	 4.5 x 2.9

NEEDLE FILES

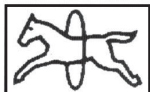
Needle file type	Order No.	Length mm	140	160	180	200
		Shank dia. mm	3.0	3.25	3.5	3.75
			12	12	12	12
			0.085	0.116	0.153	0.192
Flat 	2406	Swiss cuts	00 0 1 2 3 4 - ● ● ● - -	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 ● ● ● ● - -	00 0 1 2 3 4 - ● - ● - -
Hand 	2401	Swiss cuts	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 ● ● ● ● - -	00 0 1 2 3 4 ● ● ● ● - -
Lenticular 	2403	Swiss cuts	00 0 1 2 3 4 - ● ● ● - -	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 - ● ● ● - -	00 0 1 2 3 4 ● ● - ● - -
Three Square 	2407	Swiss cuts	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 ● ● - ● ● -	00 0 1 2 3 4 ● ● - ● ● -
Square 	2408	Swiss cuts	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 ● ● - ● ● -	00 0 1 2 3 4 ● ● - ● ● -
Round 	2410	Swiss cuts	00 0 1 2 3 4 - ● ● ● - ●	00 0 1 2 3 4 - ● ● ● - ●	00 0 1 2 3 4 ● ● ● ● ● -	00 0 1 2 3 4 ● ● ● ● ● -
Knife 	2405	Swiss cuts	00 0 1 2 3 4 - ● ● ● - -	00 0 1 2 3 4 - ● ● ● - ●	00 0 1 2 3 4 ● ● - ● - -	00 0 1 2 3 4 ● ● - ● - -
Half Round 	2402	Swiss cuts	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 ● ● - ● ● -	00 0 1 2 3 4 ● ● - ● ● -
Barrette 	2411	Swiss cuts	00 0 1 2 3 4 - ● ● ● - -	00 0 1 2 3 4 - ● ● ● ● -	00 0 1 2 3 4 ● ● ● ● - -	00 0 1 2 3 4 ● ● ● ● - -
Flat, two round edges 	2415	Swiss cuts	00 0 1 2 3 4 - - ● - - -	00 0 1 2 3 4 - - ● ● - -	00 0 1 2 3 4 - ● - - - -	00 0 1 2 3 4 - ● - - - -
Hand, two round edges 	2416	Swiss cuts	00 0 1 2 3 4 - - ● - - -	00 0 1 2 3 4 - ● ● ● - -	00 0 1 2 3 4 - ● ● - - -	00 0 1 2 3 4 ● ● - - - -
Crossing oval 	2409	Swiss cuts	00 0 1 2 3 4 - - ● - - -	00 0 1 2 3 4 - - ● ● - -	00 0 1 2 3 4 - ● - - - -	00 0 1 2 3 4 - ● - - - -

ABRASIVE AND GRINDING TOOLS

RIFFLER FILES

954 P			
955 P <u>NI</u>			
956 P <u>NI</u>			
961 P <u>NI</u>			
963 P			
964 P <u>NI</u>			
965 P			
972 P			
973 P <u>NI</u>			
974 P			
980 P <u>NI</u>			
981 P			
982 P			
983 P <u>NI</u>			
984 P <u>NI</u>			
985 P			
986 P <u>NI</u>			
988 P <u>NI</u>			
996 P <u>NI</u>			

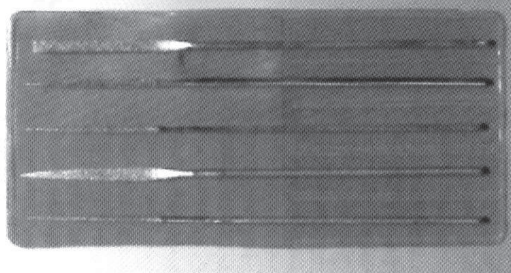
Order No.	954 P	955 P <u>NI</u>	956 P <u>NI</u>	961 P <u>NI</u>	963 P	964 P <u>NI</u>	965 P	972 P	973 P <u>NI</u>	974 P	980 P <u>NI</u>	981 P	982 P	983 P <u>NI</u>	984 P <u>NI</u>	985 P	986 P <u>NI</u>	988 P <u>NI</u>	996 P <u>NI</u>
Swiss Cut 2	●	-	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Swiss Cut 4	●	●	-	-	●	-	●	●	-	●	-	●	●	-	●	●	●	-	-
Length mm	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150	150
	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110



ABRASIVES & GRINDING TOOLS

DIAMOND ESCAPEMENT FILES, SET OF DIAMOND ESCAPEMENT FILES DIAMOND RIFFLER FILES, SET OF DIAMOND RIFFLER FILES

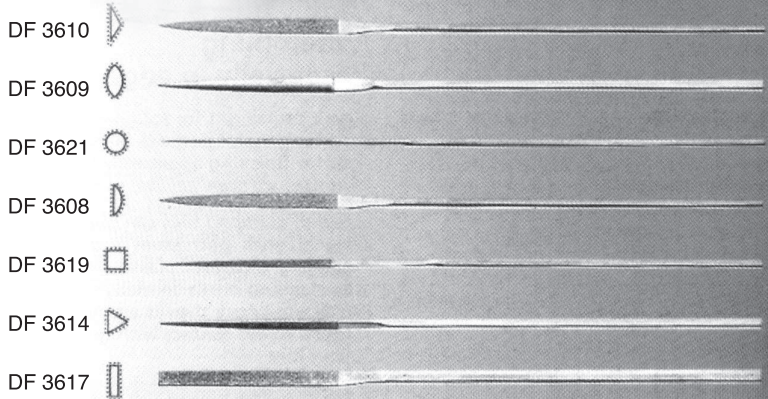
Set of Diamond Escapement Files



Contents: One file each of DF 3621, DF 3617, DF 3614, DF 3608 and DF 3619

Order No.				Overall length mm		
	Available grit size					
DF 3090	D46 (very fine)	D91 (fine)	D126 (medium)	140	1	27

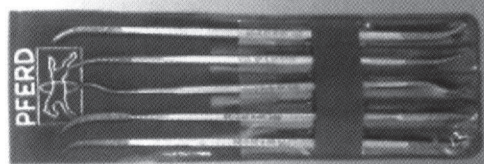
Diamond Escapement Files



Order No.				Overall length mm	Length of diam.-coated section mm	Width x Height mm		
	Available grit size							
	D46 (very fine)	D 91 (fine)	D 126 (medium)					
DF 3610	●	●	●	140	40	4 x 1.2	1	4
DF 3609	●	●	●	140	40	3.8 x 1.8	1	4
DF 3621	●	●	●	140	40	1.8	1	4
DF 3608	●	●	●	140	40	4.2 x 1.5	1	4
DF 3619	●	●	●	140	40	2 x 2	1	4
DF 3614	●	●	●	140	40	3	1	4
DF 3617	●	●	●	140	40	4 x 1.2	1	4

Set of Diamond Riffler Files

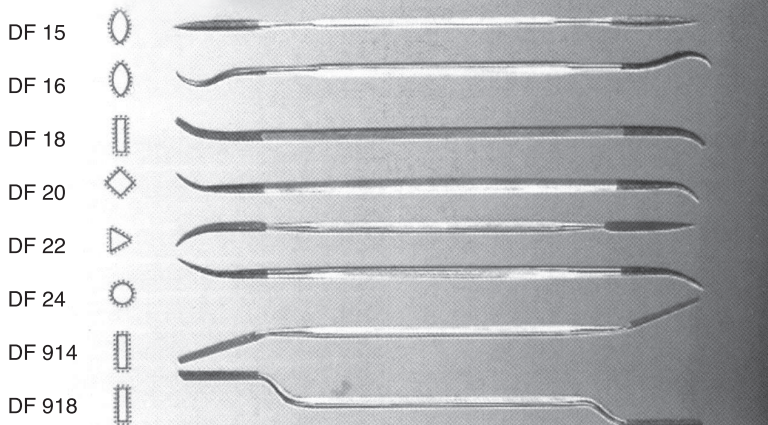
N!



Contents: One file each of DF 16, DF 18, DF 20, DF 22 and DF 24.

Order No.		Overall length mm		
	Available grit size			
DF 1624	D 126	150	1	50

Diamond Riffler Files

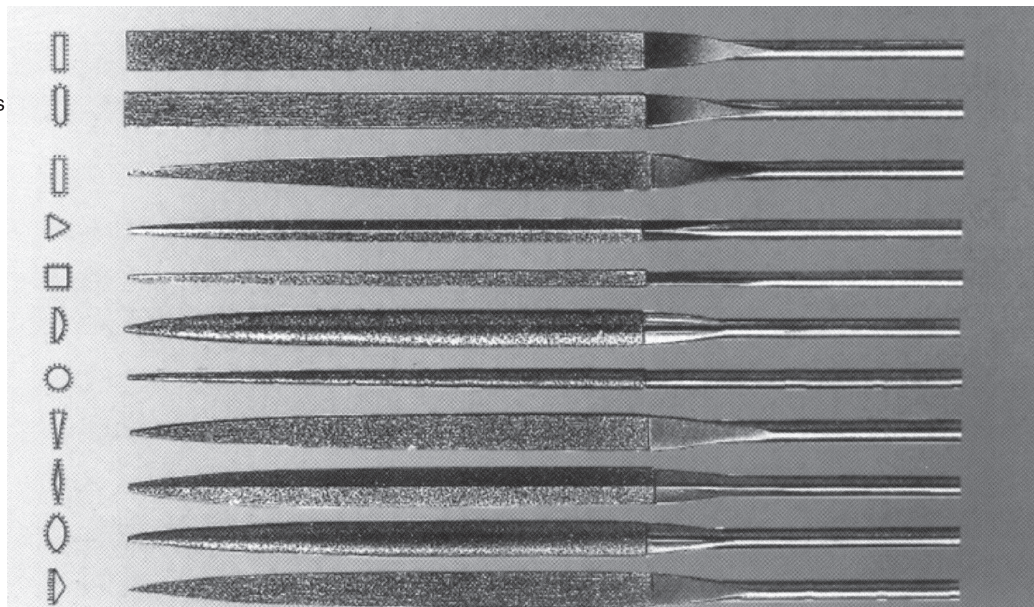


Order No.				Overall length mm	Length of diam.-coated section mm	Width x Height mm		
	Available grit size							
	D91 (fine)	D 126 (medium)	D 181 (coarse)					
DF 15	●	●	●	150	2 x 25	3.2 x 2	1	8
DF 16	●	●	●	150	2 x 25	3.7 x 2	1	8
DF 18	●	●	●	150	2 x 25	3.1 x 3	1	8
DF 20	●	●	●	150	2 x 25	2.5 x 2.5	1	8
DF 22	●	●	●	150	2 x 25	3	1	8
DF 24	●	●	●	150	2 x 25	3	1	8
DF 914	●	●	●	150	2 x 25	3.8 x 1.6	1	8
DF 918	●	●	●	150	2 x 25	4 x 2	1	8

ABRASIVES & GRINDING TOOLS

DIAMOND NEEDLE FILES

- DF 4112 hand
- DF 4112 R hand 2 round edges
- DF 4122 flat
- DF 4132 three square
- DF 4142 square
- DF 4152 half round
- DF 4162 round
- DF 4172 knife
- DF 4182 feather-edge
- DF 4192 crossing oval
- DF 4102 T barrette

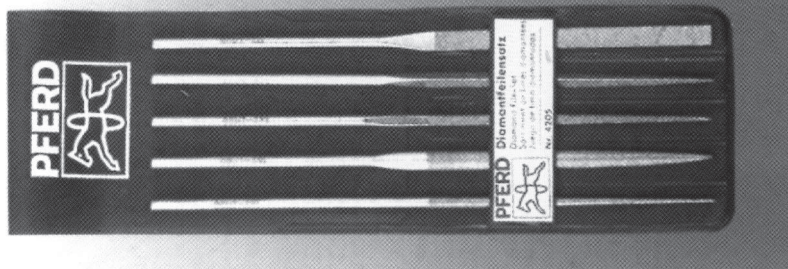


Recommended grit numbers for diamond needle files

Grit	FEPA	Recommended use
fine	D 91	for finishing
medium	D 126	for general use
coarse	D 181	for rough filing

Order No.	Available grit size			Overall length mm	Length of diam.-coated section mm	Width x Height mm		
	D 46 (very fine)	D 91 (fine)	D 126 (medium)					
DF 4112	●	●	●	140	70	5.5 x 1.6	1	8
DF4112 R	●	●	●	140	70	5.5 x 1.6	1	8
DF 4122	●	●	●	140	70	5.5 x 1.6	1	8
DF 4132	●	●	●	140	70	3.5	1	7
DF 4142	●	●	●	140	70	2.6 x 2.6	1	7
DF 4152	●	●	●	140	70	5.5 x 1.6	1	8
DF 4162	●	●	●	140	70	3.2	1	7
DF 4172	●	●	●	140	70	5 x 1.8	1	8
DF 4182	●	●	●	140	70	5 x 2.4	1	8
DF 4192	●	●	●	140	70	5 x 2.2	1	8
DF 4102 T	●	●	●	140	70	5 x 2	1	8

Set of Diamond Needle Files



Order No.	Available grit size	Overall length mm		
DF 4205	D 91	140	1	50
DF 4205	D 126	140	1	50
DF 4205	D 181	140	1	50

One file each of DF 4112, DF 4132, DF 4142, DF 4152, DF 4162.

Order No.	Available grit size	Overall length mm		
DF 4211	D 91	140	1	100
DF 4211	D 126	140	1	100
DF 4211	D 181	140	1	100

One file each of DF 4112, DF 4112 R, DF 4122, DF 4132, DF 4142, DF 4152, DF 4162, DF 4172, DF 4182, DF 4192, DF 4102 T.

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- Machinist's Files, Sharpening Files, Rasps and Precision Files



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- Industrial Power Brushes



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- Tool Drives



- Fine Grinding and Polishing Tools



- Coated Abrasives



- Superabrasives Diamond and CBN Files, Grinding Tools and Cut-Off Wheels

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