

POLICAP abrasive caps and spiral bands

Highest performance on all materials



**YOU KNOW HOW.
WE KNOW
WOW!**

TRUST BLUE

- Unique material-specific, extensive product range
- Highest stock removal rate and cool grinding performance
- Ideally suited for use on hard-to-machine materials

POLICAP abrasive caps and spiral bands

General information

The broad, material-specific range of POLICAP abrasive cap and spiral band products offers tool solutions with the highest possible stock removal rate for universal and specific grinding applications alike.

POLICAP tools have a seamless design, and the entire tool surface can be used.

Perfectly matching, reusable holders are available for using abrasive caps and spiral bands.

Advantages:

- Abrasive caps and spiral bands fit securely on the holder as it expands during use.
- High standards of shape accuracy and excellent fine grinding thanks to a special manufacturing process.
- Easy tool changing.

Applications:

- Levelling
- Surface work
- Step-by-step fine grinding

Recommendations for use:

- To change the abrasive caps and spiral bands easily, raise and lower them while turning slightly to the right. When doing so, leave the tool carrier engaged in the tool drive and fix in place.
- For best performance, use with a recommended cutting speed of 10–20 m/s.

Matching tool drives:

- Flexible shaft drives
- Straight grinders



Ordering notes:

- When ordering, please state the EAN or the full description.
- **Ordering example:**
EAN 4007220150849
PC ZYA 1015 A 60
- **Ordering example explanation:**
PC = POLICAP abrasive caps
ZYA = Cylindrical shape
1015 = Outer diameter D x width T [mm]
A = Abrasive
60 = Grit size

Safety notes:




- The maximum permitted peripheral speed is 25 m/s.
- For safety reasons, the specified maximum permitted rotational speed must never be exceeded.



Accessories:

- Abrasive cap and rubber drum holder



Type	Application
Aluminium oxide A  A60/80 A150 A280	For universal use on steel materials (hardened, heat-treated, non-hardened). Especially developed for specific applications, e.g. in tool- and mould-making, in addition to corresponding repair tasks. Also suitable for work on plastics, wood and fillers in model-making applications.
SiC-COOL (Silicon carbide with active grinding layer) 	Ideal for work on components made from titanium, aluminium and their respective alloys. Ideally suited to use in aircraft and turbine construction, in addition to associated maintenance tasks. The special grain selection and the active grinding additive in the bond facilitate cool grinding, reduce the workpiece temperature and prevent chips from adhering.
CO-COOL (Ceramic oxide grain with active grinding layer) 	The specific structure of the ceramic oxide grain and the active-grinding bond components make this ideal for work on stainless steels (INOX) and the high-temperature-resistant nickel-based and cobalt-based alloys that are frequently used in turbine construction, e.g. Inconel, Hastelloy. The active grinding additives prevent clogging and facilitate cooler grinding with considerably higher stock removal rate.

The complete range of products with the CO-COOL abrasive grain can be found in our brochure "Ceramic oxide grain CO-COOL abrasive – For maximum stock removal" at www.pferd.com.



PFERDVIDEO:

Learn more about the advantages of using POLICAP tools.

POLICAP abrasive caps and spiral bands

General information

The fast way to the best tool

Material group ▼		Abrasive ▶	Aluminium oxide A	Ceramic oxide grain CO-COOL	Silicon carbide SiC-COOL
Steel, cast steel	Non-hardened, non-heat-treated steels	Construction steels, carbon steels, tool steels, non-alloyed steels, cast steel	●	○	
	Hardened, heat-treated steels	Tool steels, tempering steels, alloyed steels, cast steel	○	●	
Stainless steel (INOX)	Rust- and acid- resistant steels	Austenitic and ferritic stainless steels		●	
Non- ferrous metals	Soft non-ferrous metals, non- ferrous metals	Soft aluminium alloys	○	○	●
		Brass, copper, zinc	●		
	Hard non-ferrous metals	Hard aluminium alloys	○		●
		Bronze, titanium		○	●
High-temper- ature-resistant materials	Nickel-based and cobalt-based alloys		●		
Cast iron	Grey cast iron, white cast iron	Cast iron with flake graphite EN-GJL (GG), with nodular graphite/nodular cast iron EN-GJS (GGG), white annealed cast iron EN-GJMW (GTW), black cast iron EN-GJMB (GTS)	●	○	
Plastics, other materials	Fibre-reinforced plastics, thermoplastics, wood, chipboard, paintwork		○		●

● = Highly suitable

○ = Suitable

Recommended rotational speed range

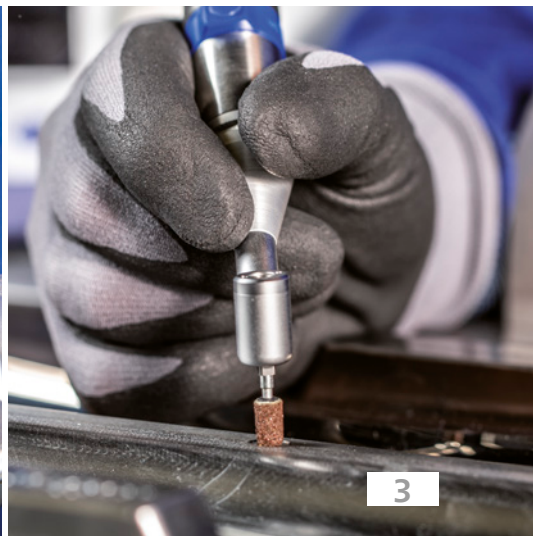
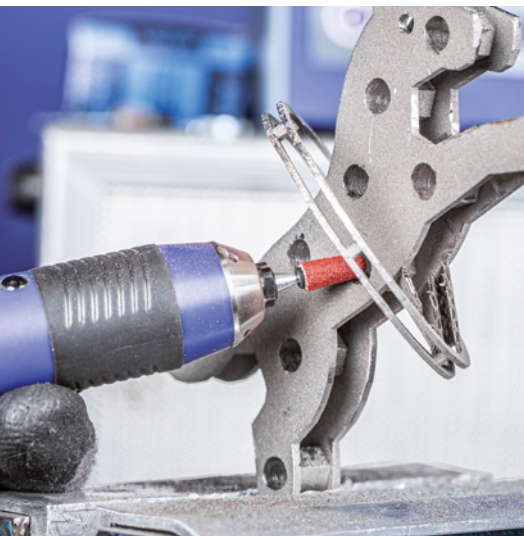
Example:

PC ZYA 1015 A 150

Cutting speed: 10–20 m/s

Rotational speed: 19,000–38,100 RPM

Tool dia. [mm]	Cutting speed [m/s]			
	10	15	20	25
	Rotational speeds [RPM]			
5	38,100	57,200	76,300	95,400
7	27,200	40,900	54,500	68,200
10	19,000	28,600	38,100	47,700
11	17,300	26,000	34,700	43,400
16	11,900	17,900	23,800	29,800
21	9,000	13,600	18,100	22,700
29	6,500	9,800	13,100	16,400
36	5,300	7,900	10,600	13,200



POLICAP abrasive caps and spiral bands

PC, shape ZYA

Abrasive caps PC ZYA

POLICAP abrasive caps in cylindrical shape ZYA (previously shape A).


Abrasive:

Aluminium oxide A
Grit size colour code:
60 and 80= brown
150 = black
280 = red-brown

Ordering notes:

■ Please complete the description with the desired grit size.

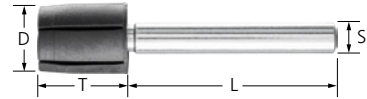



D [mm]	T [mm]	Grit size				Opt. RPM		Description
		60	80	150	280			
EAN 4007220								
5	10	-	150788	150795	150801	40,000	50	PC ZYA 0510 A ...
7	12	150818	-	150825	150832	30,000	50	PC ZYA 0712 A ...
10	15	150849	-	150856	150863	20,000	50	PC ZYA 1015 A ...
13	17	150870	-	150887	150894	16,000	50	PC ZYA 1317 A ...
16	26	150900	-	150917	150924	12,000	50	PC ZYA 1626 A ...

PCT, shape ZYA

Abrasive cap holders PCT ZYA

Matching POLICAP abrasive cap holder in cylindrical shape ZYA (previously shape A).



D [mm]	T [mm]	S [mm]	L [mm]	EAN 4007220	Max. RPM		Description
5	10	3	25	147139	95,000	5	PCT ZYA 0510/3
7	12	3	25	147146	65,000	5	PCT ZYA 0712/3
10	15	3	25	147153	45,000	5	PCT ZYA 1015/3
13	17	6	40	147221	35,000	5	PCT ZYA 1317/6
16	26	6	40	147238	30,000	5	PCT ZYA 1626/6

PCS, shape ZYA

Set PCS ZYA

Set of various POLICAP abrasive caps with matching holder in cylindrical shape ZYA (previously shape A).

Contents:

- 5 pcs. each of POLICAP abrasive caps PC ZYA 1015 A, 1317 A and 1626 A (grit size 60, 150, 280)
- 10 pcs. each of POLICAP abrasive caps PC ZYA 0510 A and 0712 A (grit size 60 or 80 and 150, 280)
- 1 pc. each of POLICAP abrasive cap holder PCT ZYA 0510/3, 0712/3, 1015/3, 1317/6 and 1626/6


Advantages:

- Sturdy, reusable plastic packaging.

Abrasive:

Aluminium oxide A
60 and 80= brown
150 = black
280 = red-brown



Shape	L x B x H [mm]	EAN 4007220		Description
ZYA	180 x 145 x 40	355404	1	PCS ZYA 110

POLICAP abrasive caps and spiral bands

PC, shape WRC

Abrasive caps PC WRC

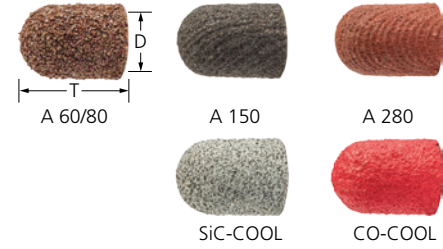
POLICAP abrasive caps in cylindrical shape with radius end WRC (previously shape C).


Abrasive:

Aluminium oxide A
 Silicon carbide SiC-COOL (grey)
 Ceramic oxide grain CO-COOL (red)
 Grit size colour code for aluminium oxide A:
 60 and 80= brown
 150 = black
 280 = red-brown

Ordering notes:

■ Please complete the description with the desired grit size.



D [mm]	T [mm]	Grit size					Opt. RPM		Description
		60	80	120	150	280			
EAN 4007220									

Aluminium oxide A

5	11	-	150931	-	150948	150955	40,000	50	PC WRC 0511 A ...
7	13	150962	-	-	150979	150986	30,000	50	PC WRC 0713 A ...
10	15	150993	-	-	151006	151013	20,000	50	PC WRC 1015 A ...
13	17	151020	-	-	151037	151044	16,000	50	PC WRC 1317 A ...
16	26	151051	-	-	151068	151075	12,000	50	PC WRC 1626 A ...

Silicon carbide SiC-COOL

5	11	-	953716	-	953723	-	40,000	50	PC WRC 0511 SiC-COOL ...
7	13	-	953730	-	953747	-	30,000	50	PC WRC 0713 SiC-COOL ...
10	15	-	953754	-	953761	-	20,000	50	PC WRC 1015 SiC-COOL ...
13	17	-	953778	-	953792	-	16,000	50	PC WRC 1317 SiC-COOL ...
16	26	-	953808	-	953815	-	12,000	50	PC WRC 1626 SiC-COOL ...

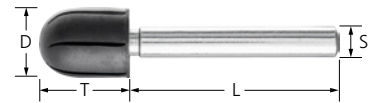
Ceramic oxide grain CO-COOL


5	11	-	953938	953945	-	-	40,000	50	PC WRC 0511 CO-COOL ...
7	13	-	953952	953969	-	-	30,000	50	PC WRC 0713 CO-COOL ...
10	15	-	953976	954041	-	-	20,000	50	PC WRC 1015 CO-COOL ...
13	17	-	954058	954119	-	-	16,000	50	PC WRC 1317 CO-COOL ...
16	26	-	954126	954133	-	-	12,000	50	PC WRC 1626 CO-COOL ...

PCT, shape WRC

Abrasive cap holders PCT WRC

Matching POLICAP abrasive cap holder in cylindrical shape with radius end WRC (previously shape C).



D [mm]	T [mm]	S [mm]	L [mm]	EAN 4007220	Max. RPM		Description
5	11	2.35	40	621820	30,000	5	PCT WRC 0511/2,35
		3	25	147160	95,000	5	PCT WRC 0511/3
7	13	2.35	40	621837	24,500	5	PCT WRC 0713/2,35
		3	25	147177	65,000	5	PCT WRC 0713/3
10	15	2.35	40	621844	17,500	5	PCT WRC 1015/2,35
		3	25	147184	45,000	5	PCT WRC 1015/3
13	17	2.35	40	621851	13,750	5	PCT WRC 1317/2,35
		6	40	147245	35,000	5	PCT WRC 1317/6
16	26	6	40	147252	30,000	5	PCT WRC 1626/6

POLICAP abrasive caps and spiral bands

PCS, shape WRC

Set PCS WRC

Set of various POLICAP abrasive caps with matching holder in cylindrical shape with radius end WRC (previously shape C).

Contents:

- 5 pcs. each of POLICAP abrasive caps
PC WRC 1015 A, 1317 A and 1626 A
(grit size 60, 150, 280)
- 10 pcs. each of POLICAP abrasive caps
PC WRC 0511 A and 0713 A (grit size 60 or
80 and 150, 280)
- 1 pc. each of POLICAP abrasive cap holder
PCT WRC 0511/3, 0713/3, 1015/3, 1317/6
and 1626/6


Advantages:

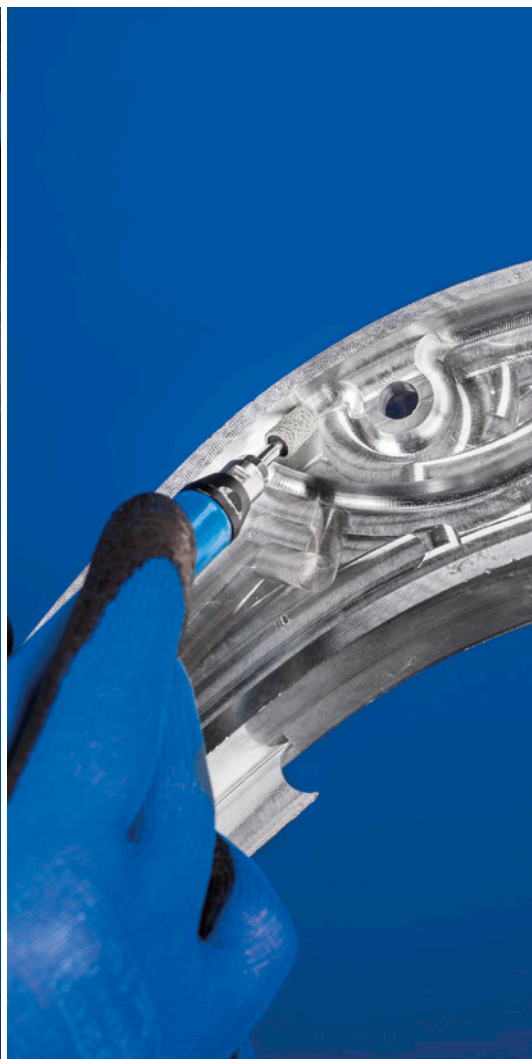
- Sturdy, reusable plastic packaging.

Abrasive:

Aluminium oxide A
 Grit size colour code:
 60 and 80= brown
 150 = black
 280 = red-brown



Shape	L x B x H [mm]	EAN 4007220		Description
WRC	180 x 145 x 40	355411	1	PCS WRC 110



POLICAP abrasive caps and spiral bands

PC, shape WKG

Abrasive caps PC WKG

POLICAP abrasive caps in tapered conical shape with radius end WKG (previously shape G). The taper angle of the cone is 30°.




Abrasive:

Aluminium oxide A
Grit size colour code:
60 and 80= brown
150 = black
280 = red-brown

Ordering notes:

■ Please complete the description with the desired grit size.


D [mm]	T [mm]	Grit size				Opt. RPM		Description
		60	80	150	280			
EAN 4007220								
5	11	-	151082	151099	151105	40,000	50	PC WKG 0511 A ...
7	13	151112	-	151129	151136	30,000	50	PC WKG 0713 A ...
10	15	151143	-	151150	151167	20,000	50	PC WKG 1015 A ...
13	17	151174	-	151181	151198	16,000	50	PC WKG 1317 A ...
16	26	151204	-	151211	151228	12,000	50	PC WKG 1626 A ...

PCT, shape WKG

Abrasive cap holders PCT WKG

Matching POLICAP abrasive cap holder in tapered conical shape with radius end WKG (previously shape G).



D [mm]	T [mm]	S [mm]	L [mm]	EAN 4007220	Max. RPM		Description
5	11	3	25	147191	95,000	5	PCT WKG 0511/3
7	13	3	25	147207	65,000	5	PCT WKG 0713/3
10	15	3	25	147214	45,000	5	PCT WKG 1015/3
13	17	2.35	40	434338	13,750	5	PCT WKG 1317/2,35
		6	40	147269	35,000	5	PCT WKG 1317/6
16	26	6	40	147276	30,000	5	PCT WKG 1626/6

PCS, shape WKG

Set PCS WKG

Set of various POLICAP abrasive caps with matching holder in tapered conical shape with radius end WKG (previously shape G).

Contents:

- 5 pcs. each of POLICAP abrasive caps PC WKG 1015 A, 1317 A and 1626 A (grit size 60, 150, 280)
- 10 pcs. each of POLICAP abrasive caps PC WKG 0511 A and 0713 A (grit size 60 or 80 and 150, 280)
- 1 pc. each of POLICAP abrasive cap holder PCT WKG 0511/3, 0713/3, 1015/3, 1317/6 and 1626/6


Advantages:

- Sturdy, reusable plastic packaging.

Abrasive:

Aluminium oxide A
60 and 80= brown
150 = black
280 = red-brown



Shape	L x B x H [mm]	EAN 4007220		Description
WKG	180 x 145 x 40	355428	1	PCS WKG 110

POLICAP abrasive caps and spiral bands

PC, shape KEL

Abrasive caps PC KEL

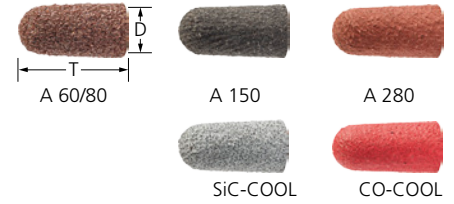
POLICAP abrasive caps in conical shape with radius end KEL (previously shape L).


Abrasive:

Aluminium oxide A
 Silicon carbide SiC-COOL (grey)
 Ceramic oxide grain CO-COOL (red)
 Grit size colour code for aluminium oxide A:
 60 and 80= brown
 150 = black
 280 = red-brown

Ordering notes:

■ Please complete the description with the desired grit size.



D [mm]	T [mm]	Grit size					Opt. RPM		Description
		60	80	120	150	280			
EAN 4007220									

Aluminium oxide A

5	15	-	151235	-	151242	151259	40,000	50	PC KEL 0515 A ...
11	25	151266	-	-	151273	151280	20,000	50	PC KEL 1125 A ...
16	32	151297	-	-	151303	151310	12,000	50	PC KEL 1632 A ...
21	40	151327	-	-	151334	151341	9,500	50	PC KEL 2140 A ...

Silicon carbide SiC-COOL

5	15	-	953822	-	953839	-	40,000	50	PC KEL 0515 SiC-COOL ...
11	25	-	953846	-	953853	-	20,000	50	PC KEL 1125 SiC-COOL ...
16	32	-	953891	-	953907	-	12,000	50	PC KEL 1632 SiC-COOL ...
21	40	-	953914	-	953921	-	9,500	50	PC KEL 2140 SiC-COOL ...

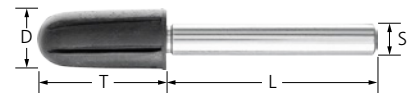
Ceramic oxide grain CO-COOL


5	15	-	954140	954263	-	-	40,000	50	PC KEL 0515 CO-COOL ...
11	25	-	954164	954188	-	-	20,000	50	PC KEL 1125 CO-COOL ...
16	32	-	954195	954218	-	-	12,000	50	PC KEL 1632 CO-COOL ...
21	40	-	954225	954232	-	-	9,500	50	PC KEL 2140 CO-COOL ...

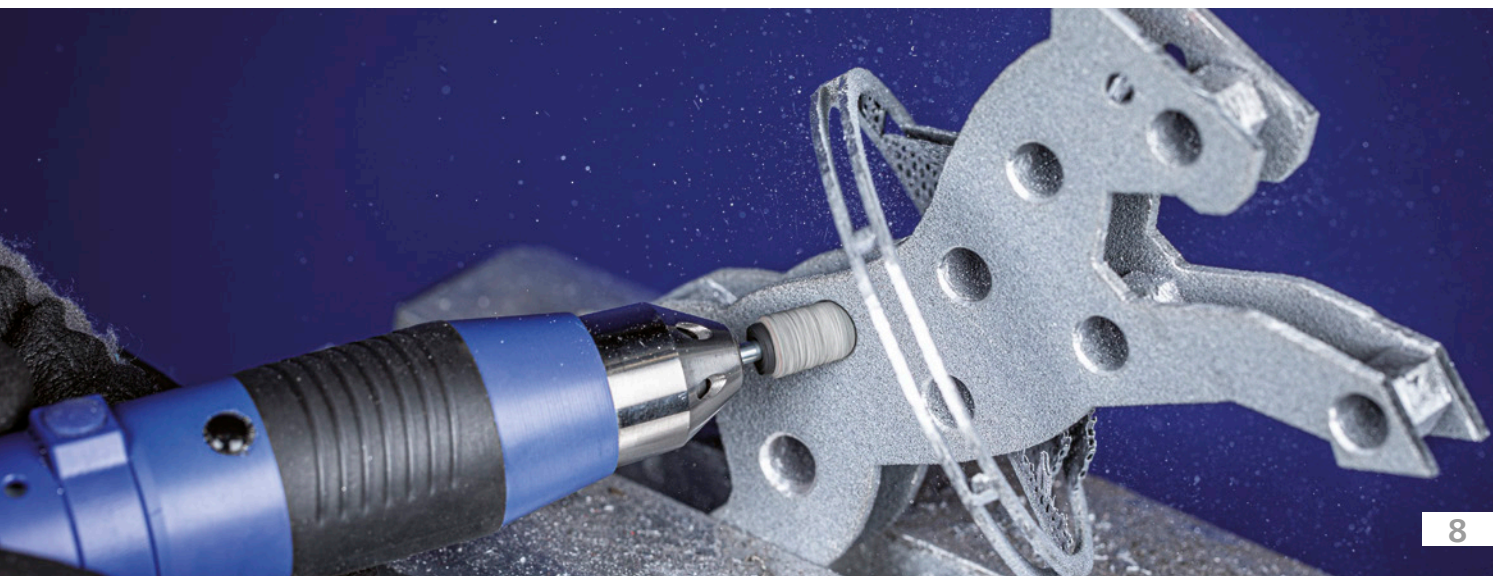
PCT, shape KEL

Abrasive cap holders PCT KEL

Matching POLICAP abrasive cap holder in conical shape with radius end KEL (previously shape L).



D [mm]	T [mm]	S [mm]	L [mm]	EAN 4007220	Max. RPM		Description
5	15	6	40	147283	95,000	5	PCT KEL 0515/6
11	25	6	40	147290	40,000	5	PCT KEL 1125/6
16	32	6	40	147306	30,000	5	PCT KEL 1632/6
21	40	6	40	147313	20,000	5	PCT KEL 2140/6



POLICAP abrasive caps and spiral bands

Set PCS

Set PCS 650

Set of various POLICAP abrasive caps with matching holder.

Contents:

- 10 pcs. each of POLICAP abrasive caps PC ZYA 1626 A and PC WKG 1626 A (grit size 150 and 280)
- 25 pcs. each of POLICAP abrasive caps PC ZYA 1015 A, PC ZYA 1317 A, PC WKG 1015 A and PC WKG 1317 A (grit size 150 and 280)
- 50 pcs. each of POLICAP abrasive caps PC ZYA 0510 A, PC ZYA 0712 A, PC WKG 0511 A and PC WKG 0713 A (grit size 150 and 280)
- 1 pc. each of POLICAP abrasive cap holder PCT ZYA 0510/3, PCT ZYA 0712/3, PCT ZYA 1015/3, PCT ZYA 1317/6, PCT ZYA 1626/6, PCT WKG 0511/3, PCT WKG 0713/3, PCT WKG 1015/3, PCT WKG 1317/6 and PCT WKG 1626/6


Advantages:

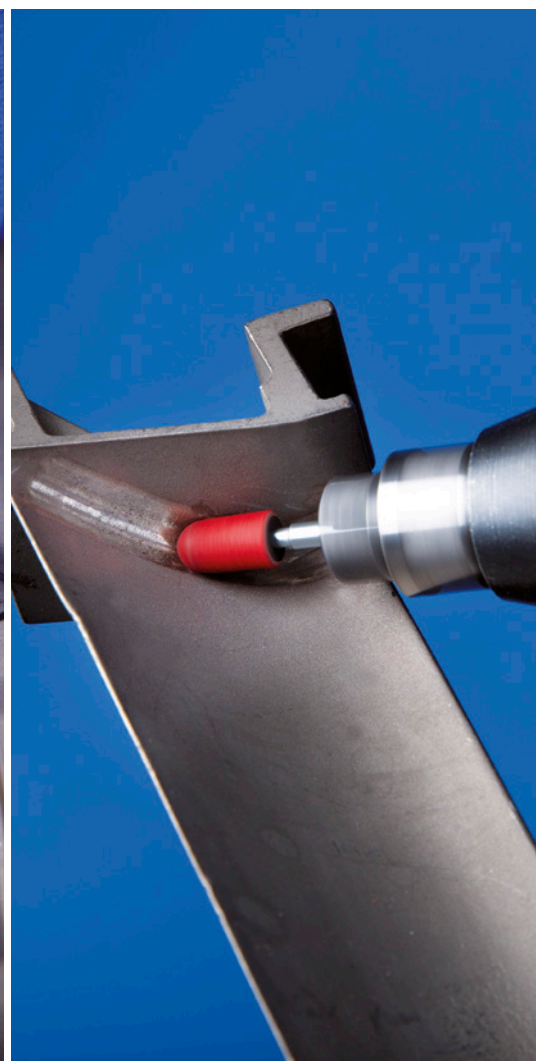
- Sturdy, reusable plastic packaging.

Abrasive:

Aluminium oxide A
 Grit size colour code:
 150 = black
 280 = red-brown



Shape	L x B x H [mm]	EAN 4007220		Description
ZYA, WKG	332 x 235 x 50	355435	1	SET PCS 650



POLICAP abrasive caps and spiral bands

PCH, conical shape

Abrasive cones PCH

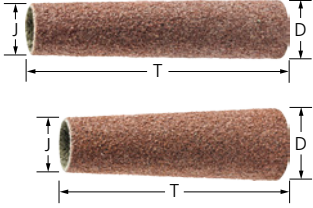
POLICAP abrasive cones with a conical shape.

Abrasive:

Aluminium oxide A
 Grit size colour code:
 60 = brown
 150 = black
 280 = red-brown

Ordering notes:

- Please complete the description with the desired grit size.



D [mm]	J [mm]	T [mm]	Grit size			Opt. RPM	Suitable arbors		Description
			60	150	280				
			EAN 4007220						
7	5	85	151358	151365	151372	12,000	PCT 0585	10	PCH 070585 LA ...
14	11	85	151389	151396	-	12,000	PCT 1185	10	PCH 141185 LA ...
20	16	85	151419	151426	-	12,000	PCT 1685	10	PCH 201685 LA ...
24	21	85	151440	151457	-	12,000	PCT 2185	10	PCH 242185 LA ...
20	15	65	151471	151488	-	18,500	GK 201463	10	PCH 201565 LA ...
36	22	65	151532	-	-	13,000	GK 362260	10	PCH 362265 LA ...

PCT, shape KEL

Rubber abrasive cone holders PCT KEL

Matching POLICAP rubber abrasive cone holder in conical shape with radius end KEL (previously shape L).

Advantages:

- The abrasive spiral bands are firmly held in place on the holder as the rubber surface offers excellent adhesion.



D [mm]	T [mm]	S [mm]	L [mm]	EAN 4007220	Max. RPM		Description
8	85	6	40	147320	20,000	5	PCT KEL 0585/6
13	85	6	40	147337	15,000	5	PCT KEL 1185/6
18	85	6	40	147344	13,000	5	PCT KEL 1685/6
23	85	6	30	147351	12,000	5	PCT KEL 2185/6

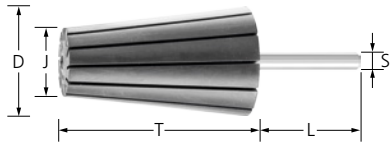
GK, conical shape

Rubber drum holders GK

Matching POLICAP rubber drum holder with a conical shape.

Advantages:

- The abrasive spiral bands are firmly held in place on the holder as the holder expands during use.



D [mm]	J [mm]	T [mm]	S [mm]	L [mm]	EAN 4007220	Max. RPM	Minimum rotational speed [RPM]		Description
20	14	63	6	40	147078	26,000	19,000	5	GK 201463/6
36	22	60	6	40	147092	15,900	10,000	5	GK 362260/6