

2005

203



Mounted Points

Main Fields of Application and Materials

PFERD offers a very extensive line of vitrified and resinoid-bonded mounted points. Designed to meet individual application needs, these products come in a broad range of grain types, grit sizes, hardness levels and shapes. They are manufactured on advanced production lines to high standards of dimensional accuracy and stability, unvarying quality, and close tolerances.

To enable you to find the right tool for your needs even faster, the PFERD range of mounted points has been restructured.












We classify these tools according to material groups, main fields of application, and specific operating requirements. Just select the optimum hardness grade in line with these parameters. The table below shows you where to find tools of the appropriate hardness in this catalogue.



Benefits:

- PFERD mounted points are noted for their consistently superior stock removal, long service life, and high-quality surface finishing performance.
- High dimensional accuracy and stability, close manufacturing tolerances.

- Availability of adapted bond types, grit sizes and hardness grades for any application.
- The high concentricity of PFERD mounted points:
 - protects the operator's safety and health
 - reduces the load on the power tool
 - minimizes operating vibrations
 - prevents chatter marks
 - reduces wear

Material groups	Main fields of application	Application	Hardness grade	Page
Steels	Alloyed and unalloyed structural carbon steels, tool and high-speed steels	General use, surface machining, high stock removal, reduced grinding time	M 	7-10
		Heavy-duty use, edge finishing, high edge stability, reduced tool wear	O 	11-15
		High stock removal rates at high peripheral speeds in surface machining	H I 	16-17 18-19
		High edge stability at low peripheral speeds in edge finishing	T 	20-21
High-grade steels	Stainless steels	General use, surface machining, high stock removal, reduced grinding time	L 	22-23
		Heavy-duty use, edge finishing, high edge stability, reduced tool wear	N 	24-25
Cast iron	Grey cast iron Spheroidal graphite cast iron	General use, surface machining, high stock removal, reduced grinding time	K 	26-27
		Heavy-duty use, edge finishing, high edge stability, reduced tool wear	R 	28-29
Non-ferrous metals	Aluminium Non-ferrous metals	General use, surface machining, high stock removal, reduced grinding time	F 	30
Plastics Other materials	Fibre-reinforced plastics, thermoplastics, Rubber, GRP Wood	General use, surface machining, high stock removal, reduced grinding time	D 	31
	Glass, Ceramics Tungsten carbide	General use, surface machining, high stock removal, reduced grinding time	J 	32
Mounted points in special shapes, dressing tools, sets				33-39

For further recommendations on how to select the optimum mounted point, refer to pages 4 and 5.

Mounted Points

Peripheral Speeds, Safety Notes, Special Productions, Customer Support

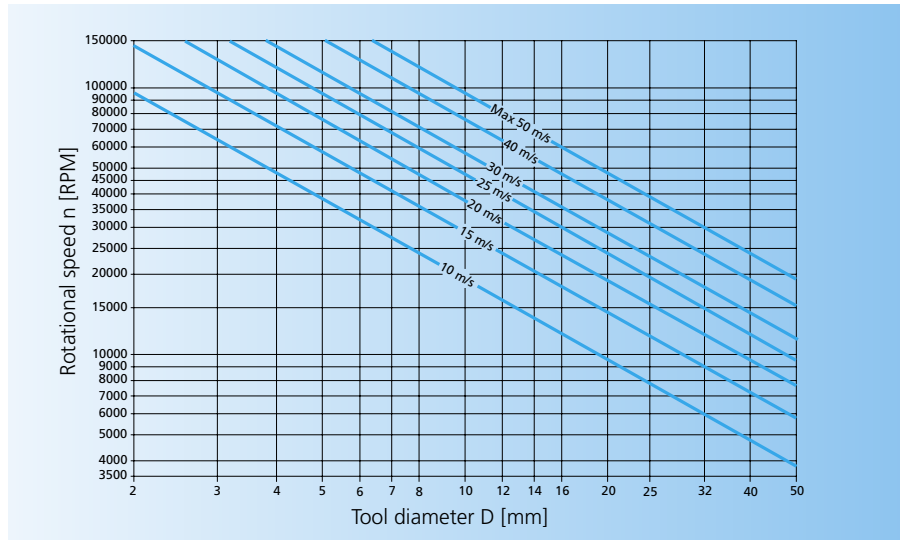
Peripheral speeds of mounted points:

The diagram on the right allows you to determine the rotational speed (RPM) from a given peripheral speed. Recommended peripheral speeds are stated in the introductory descriptions for the various hardness grades on the following pages.

In the diagram, peripheral speeds are represented by blue diagonal lines. Each vertical line represents a tool diameter. From its point of intersection with the diagonal line for a given peripheral speed, proceed horizontally to the left margin where you will find the corresponding rotational speed (RPM) of the grinding tool and spindle.

Example:

Mounted point diameter: 20 mm
 Hardness grade: O
 Application: surface grinding
 Peripheral speed: 25-40 m/s
 Rotational speed: 24,000-38,000 RPM



Safety recommendations

Wear safety glasses!



Use ear muffs!



All mounted points supplied by PFERD are approved for a maximum peripheral speed of 50 m/s.

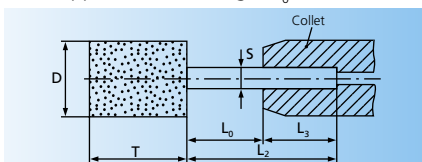
Maximum RPM levels for the various shank lengths and shank diameters are defined in EN 12413. These limits must be strictly observed to prevent hazards due to shank buckling.

Regardless of the shank length, the clamping depth (L_3) in the machine collet must be at least 10 mm.

Each package of PFERD mounted points comes with RPM recommendations for a given unsupported shank length (L_0) of that product. Check for proper concentricity and correct clamping in the power tool.

The buckling speed (RPM) calculated in accordance with EN 12413 is a function of the following factors:

- shape and dimensions of the point
- steel shank diameter
- unsupported shank length L_0



- D = head diameter
- T = head height
- S = shank diameter
- L_0 = unsupported shank length
- L_2 = shank length
- L_3 = shank clamping depth

Charts showing maximum permitted RPM for the entire PFERD range of mounted points can be made available upon request.

Products made to order

By special arrangement we can produce mounted points adapted specifically to your application needs, e.g.

- other dimensions and shapes
- different grit sizes and abrasive types
- custom grain mixtures
- special shank diameters and lengths

Customer support

Our experienced sales consultants and customer support engineers will be glad to assist with any specific grinding problem you may have.

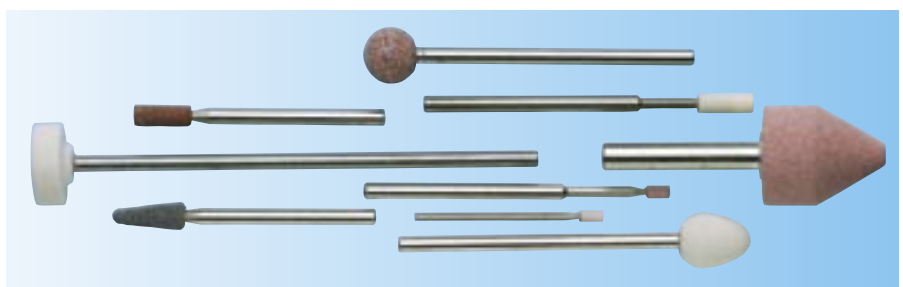


Minimum quantities and surcharges for mounted points made to order:

Quantity	minimum	minimum
Tool diameter	500 pcs.	300 pcs.
up to 10 mm and B points	10 % surcharge	20 % surcharge
up to 32 mm and A points	no surcharge	10 % surcharge
from 32 mm	no surcharge	no surcharge

Minimum order quantity:

300 pcs. (see table for surcharge rates)
 1000 pcs. and over: no surcharge








Mounted Points

Main Fields of Application

The table below gives an overview of the grit types and hardness grades we recommend for use on the various materials.

PFERD distinguishes between two applications: **edge grinding** and **surface grinding**.



Properties of workpiece material ▶		Low thermal conductivity				Sticky (causing tool loading)				Hard	
		Soft		Hard		Open cell				Soft	
Bond characteristics ▶		Resinoid-bonded mounted points				Vitrified-bonded mounted points					
Bond type (resinoid/vitrified)											
Hardness grade		L		N		D		F-Alu		H	
Abrasive medium / grit type											
Grit type code		ADW		AN		AH		CN		AWN	
Abrasive / grit type		Mixed alum. oxide, dark brown		Regular alum. oxide, brown		Bubble grain white		SiC green		Mixed alum. oxide, white/blue	
Grit colour											
Operating characteristics		high stock removal rate, resists loading, universally suitable		long service life		very open-structured, high stock removal rate		no loading problems on sticky materials		soft abrasive action, high abrasive rate	
Required motor speed (RPM) range		high 30 - 50		low + medium 20 - 30 30 - 40		medium 10 - 20		medium 20 - 40		high 35 - 50	
Recommended peripheral speed (m/s)		high 25 - 35								high 25 - 35	
Edge grinding (K) / Surface grinding (F)		K		F		K		F		K	
Steels	Mild steel	○	●	○	●					○	○
	Struct. carbon steel	○	●	○	●					○	○
	Tool steel	○	●	○	●					○	●
	High-speed steel	○	●	○	●						○
High-grade steels	Stainless steel	○	●	●	●					○	○
	High alloy stainless steel	○	●	●	●						
Cast iron / Cast steel	Cast steel, regular	○	●	●	●					○	○
	Cast steel, high alloy	○	●	●	●					○	○
	Grey cast iron	○	●	●	●					○	
	Nodular cast iron	○	●	●	●					○	○
Non-ferrous metals	Aluminium		○	○				●	●		
	Copper		○	●	○			●	●		
	Brass, bronze	●	●	●	○			●	●		
	High-temperature NiCo alloys	○	●	●	○				○		○
	Titanium / titanium alloys	○	●		○						
Other	Plastics, soft type					●	●				
	Rubber					●	●				
	Plastics, hard type	●				○	○				
	Wood					●	●				
	Glass, ceramics										
	Tungsten carbide										
	Deposit-welded claddings	○	○								

Key: ● = highly suitable, ○ = suitable

Mounted Points

Ordering Instructions



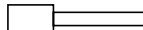
Ordering guide

Ordering code according to EN 12413

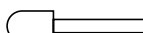
Cylindrical mounted point ZY 2025 6 AR 30 O 5 V
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

① Tool shapes according to EN 12413

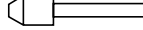
ZY = Cylindrical



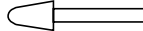
WR = Cylindrical radius end



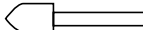
WK = Conical



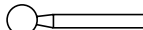
KE = Tapered



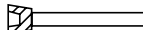
SP = Tree



KU = Ball



TO = Cup



US shapes

Series W

(cylindrical points in inch dimensions)

Series A and B

(other shapes)

② Dimensions according to EN

dia. (D) x height (T) mm
 e.g. D x T = EN (ISO) designation
 3 mm x 6 mm = 0306
 20 mm x 25 mm = 2025
 50 mm x 13 mm = 5013

US dimensions

Series W cylindrical mounted points and series A + B shaped mounted points are specified by a number (e.g., W 143).

③ Shanks

Please state the shank diameter in your purchase order. Shank lengths are factory-defined according to shank diameter as follows:

3 mm dia. x 30 mm shank length
 6 mm dia. x 40 mm shank length
 1/8" dia. x 1 1/4" shank length
 1/4" dia. x 1 1/2" shank length

④ Abrasives

As a rule, two types of abrasives with internationally defined designations according to ISO 525 and EN 12413 are used.

A = Aluminium oxide (Al₂O₃)

C = Silicon carbide (SiC)

In order to specify the exact type of abrasive or grain mixture, further classification – beyond this ISO 525 and EN 12413 code – is necessary.

The following classification is used:

AD = Aluminium oxide, dark red

AW = Aluminium oxide, white

AR = Aluminium oxide, pink

AN = Aluminium oxide, regular

AH = Bubble grain

ADW = Aluminium oxide mix, AD + AW

AWN = Aluminium oxide mix, AW + AN

ARN = Aluminium oxide mix, AR + AN

CN = Silicon carbide, green

CU = Silicon carbide, grey

⑤ Grit sizes

Grit sizes are specified according to FEPA, ISO 525 and EN 12413.

The grit sizes of PFERD mounted points are correlated to the shape and diameter of the point.

⑥ Hardness grade

Abrasive hardness grades are classified according to ISO 525 and EN 12413, using letters in alphabetical order to specify the hardness on an incremental scale (from soft to hard).

⑦ Structure number

The density of the structure, indicated in accordance with ISO 525 and EN 12413, is given in the order number.

The scale ranges from 1 = dense structure to 14 = open (porous) structure.

⑧ Bond

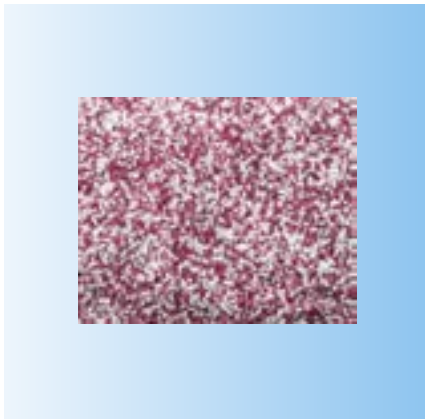
Bond types are designated by an internationally standardized letter code according to ISO 525 and EN 12413.

V = vitrified bond

B = resinoid bond

Mounted Points

Hardness M



Grade M mounted points are made of a mix of dark red and white aluminium oxide grit in a vitrified bond. M is amongst one of the most abrasive grades.

Advantages

- Grade M tools are ideal for **general use** on steel surfaces, providing high abrasive and stock removal rates.
- Naturally, a high stock removal rate reduces grinding time and labour costs.
- Cost reductions are achieved despite increased tool consumption, since the reduction in labour costs more than compensates tool costs.

Application examples

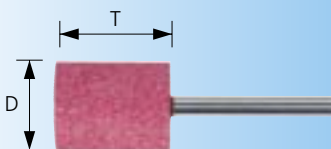
- Grinding of high-speed steel (H.S.S.) components
- Weld dressing on steel structures

Recommendations for use

Grade M mounted points perform best at a recommended peripheral speed of 20-30 m/s in surface grinding applications.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

Hardness M, cylindrical ZY



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Ordering example

ZY 3232 6 ADW 46 M 5 V

How to order

46 = Grit size

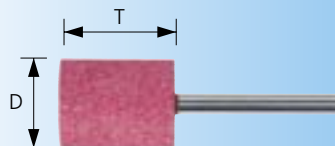
Please complete the order no. by adding the grit size.

Order No.	Grit size						Shank dia. [mm]	D x T [mm]	Max. speed [RPM]	10	20
	24	30	46	60	80	100					
	EAN 4007220										
ZY 0205 3 ADW ... M 5 V	-	-	-	-	-	094365	3	2 x 5	201,800	10	20
ZY 0306 3 ADW ... M 5 V	-	-	-	-	-	094518	3	3 x 6	206,100	10	20
ZY 0408 3 ADW ... M 5 V	-	-	-	094679	-	094662	3	4 x 8	175,100	10	20
ZY 0510 3 ADW ... M 5 V	-	-	-	094877	-	094860	3	5 x 10	130,700	10	26
ZY 0613 3 ADW ... M 5 V	-	-	-	095140	-	095133	3	6 x 13	93,600	10	30
ZY 0810 3 ADW ... M 5 V	-	-	095331	-	095348	-	3	8 x 10	87,600	10	38
ZY 0816 3 ADW ... M 5 V	-	-	095522	-	659878	-	3	8 x 16	61,000	10	50
ZY 1002 3 ADW ... M 5 V	-	-	-	-	-	098653	3	10 x 2	95,400	10	27
ZY 1013 3 ADW ... M 5 V	-	-	095706	-	-	-	3	10 x 13	58,400	10	55
ZY 1303 3 ADW ... M 5 V	-	-	-	098783	-	098776	3	13 x 3	73,400	10	35
ZY 0306 6 ADW ... M 5 V	-	-	-	-	-	094457	6	3 x 6	206,100	10	80
ZY 0408 6 ADW ... M 5 V	-	-	-	094570	-	-	6	4 x 8	177,400	10	85

Mounted Points

Hardness M

Hardness M, cylindrical ZY



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

ZY 3232 6 ADW **46** M 5 V

How to order

46 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size						Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60	80	100					
	EAN 4007220										
ZY 0510 6 ADW ... M 5 V	-	-	-	094754	-	-	6	5 x 10	157,800	10	90
ZY 0613 6 ADW ... M 5 V	-	-	-	095034	-	095027	6	6 x 13	131,500	10	95
ZY 0810 6 ADW ... M 5 V	-	-	-	-	095263	-	6	8 x 10	119,300	10	105
ZY 0816 6 ADW ... M 5 V	-	-	095416	-	095423	-	6	8 x 16	119,300	10	112
ZY 1013 6 ADW ... M 5 V	-	-	095614	-	095621	-	6	10 x 13	95,400	10	116
ZY 1020 6 ADW ... M 5 V	-	-	095850	-	095867	-	6	10 x 20	95,400	10	138
ZY 1025 6 ADW ... M 5 V	-	-	095959	-	659892	-	6	10 x 25	83,200	10	145
ZY 1032 6 ADW ... M 5 V	-	-	096017	-	659908	-	6	10 x 32	83,200	10	165
ZY 1313 6 ADW ... M 5 V	-	-	096093	-	-	-	6	13 x 13	73,400	10	137
ZY 1320 6 ADW ... M 5 V	-	-	096260	-	659915	-	6	13 x 20	73,400	10	167
ZY 1325 6 ADW ... M 5 V	-	-	096345	-	096352	-	6	13 x 25	73,400	10	180
ZY 1340 6 ADW ... M 5 V	-	-	098035	-	-	-	6	13 x 40	42,400	10	280
ZY 1604 6 ADW ... M 5 V	-	-	098912	-	660003	-	6	16 x 4	59,600	10	120
ZY 1620 6 ADW ... M 5 V	-	096451	-	096468	-	-	6	16 x 20	59,600	10	235
ZY 1632 6 ADW ... M 5 V	-	096598	-	096604	-	-	6	16 x 32	51,200	10	290
ZY 1640 6 ADW ... M 5 V	-	096727	-	-	-	-	6	16 x 40	40,500	10	345
ZY 1650 6 ADW ... M 5 V	-	659922	-	659939	-	-	6	16 x 50	40,500	10	410
ZY 2006 6 ADW ... M 5 V	-	-	099117	-	660010	-	6	20 x 6	47,700	10	150
ZY 2020 6 ADW ... M 5 V	-	096895	-	659946	-	-	6	20 x 20	47,700	10	295
ZY 2025 6 ADW ... M 5 V	-	096994	-	097007	-	-	6	20 x 25	47,700	10	330
ZY 2032 6 ADW ... M 5 V	-	097106	-	659953	-	-	6	20 x 32	41,100	10	385
ZY 2040 6 ADW ... M 5 V	-	097212	-	097229	-	-	6	20 x 40	32,400	10	465
ZY 2506 6 ADW ... M 5 V	-	-	099322	-	-	-	6	25 x 6	38,100	10	210
ZY 2525 6 ADW ... M 5 V	-	097335	-	659977	-	-	6	25 x 25	38,100	10	475
ZY 2532 6 ADW ... M 5 V	-	097434	-	-	-	-	6	25 x 32	32,900	10	545
ZY 3208 6 ADW ... M 5 V	-	099575	-	660034	-	-	6	32 x 8	29,800	5	160
ZY 3216 6 ADW ... M 5 V	099667	-	660058	-	-	-	6	32 x 16	29,800	5	235
ZY 3220 6 ADW ... M 5 V	099773	-	660065	-	-	-	6	32 x 20	29,800	5	287
ZY 3232 6 ADW ... M 5 V	097595	-	097601	-	-	-	6	32 x 32	25,700	5	460
ZY 3240 6 ADW ... M 5 V	097717	-	659984	-	-	-	6	32 x 40	18,600	5	510
ZY 4006 6 ADW ... M 5 V	-	-	100455	-	-	-	6	40 x 6	23,800	5	180
ZY 4010 6 ADW ... M 5 V	-	099889	-	660072	-	-	6	40 x 10	23,800	5	252
ZY 4020 6 ADW ... M 5 V	100028	-	100035	-	-	-	6	40 x 20	23,800	5	415
ZY 4040 6 ADW ... M 5 V	097809	-	659991	-	-	-	6	40 x 40	16,200	5	770
ZY 5008 6 ADW ... M 5 V	-	100509	-	-	-	-	6	50 x 8	19,000	5	290
ZY 5013 6 ADW ... M 5 V	-	100189	-	660089	-	-	6	50 x 13	19,000	5	430
ZY 5025 6 ADW ... M 5 V	-	-	100325	-	-	-	6	50 x 25	19,000	5	730
ZY 5025 8 ADW ... M 5 V	100554	-	-	-	-	-	8	50 x 25	19,000	5	770

Mounted Points

Hardness M

Hardness M, ball KU



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

KU 16 6 ADW **30** M 5 V

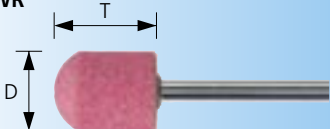
How to order

30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size					Shank dia. [mm]	D [mm]	Max. speed [RPM]		
	24	30	46	60	80					
	EAN 4007220									
KU 13 6 ADW ... M 5 V	-	-	101209	-	660133	6	13	73,400	10	125
KU 16 6 ADW ... M 5 V	-	101261	-	660140	-	6	16	59,600	10	164
KU 20 6 ADW ... M 5 V	-	101339	-	101346	-	6	20	47,700	10	230
KU 25 6 ADW ... M 5 V	-	660157	-	660164	-	6	25	38,100	10	340
KU 32 6 ADW ... M 5 V	660171	-	660188	-	-	6	32	29,800	5	295

Hardness M, cylindrical with radius end WR



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

WR 2025 6 ADW **30** M 5 V

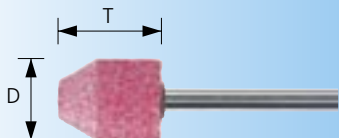
How to order

30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	30	46	60	80					
	EAN 4007220								
WR 1320 6 ADW ... M 5 V	-	660096	-	660102	6	13 x 20	73,400	10	165
WR 2025 6 ADW ... M 5 V	660119	-	660126	-	6	20 x 25	47,700	10	325

Hardness M, conical WK



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

WK 2025 6 ADW **60** M 5 V

How to order

60 = Grit size

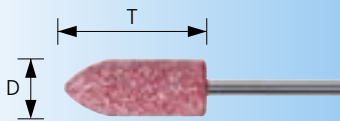
Please complete the order no. by adding the grit size.

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60					
	EAN 4007220								
WK 1332 6 ADW ... M 5 V	-	-	660232	-	6	13 x 32	65,700	10	240
WK 2025 6 ADW ... M 5 V	-	660195	-	660201	6	20 x 25	47,700	10	310
WK 2532 6 ADW ... M 5 V	-	660218	-	-	6	25 x 32	37,600	10	500
WK 3240 6 ADW ... M 5 V	660225	-	-	-	6	32 x 40	37,600	5	435

Mounted Points

Hardness M

Hardness M, tree SP



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

SP 1320 6 ADW **46** M 5 V

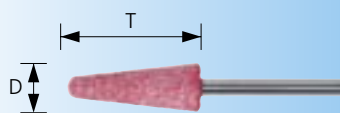
How to order

46 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	30	46	60	80					
	EAN 4007220								
SP 0816 6 ADW ... M 5 V	-	102008	-	-	6	8 x 16	119,300	10	110
SP 1320 6 ADW ... M 5 V	-	102138	-	660249	6	13 x 20	73,400	10	160
SP 2032 6 ADW ... M 5 V	102237	-	660256	-	6	20 x 32	47,700	10	330
SP 2050 6 ADW ... M 5 V	102312	-	-	-	6	20 x 50	30,500	10	490
SP 2540 6 ADW ... M 5 V	660270	-	-	-	6	25 x 40	35,000	10	550

Hardness M, tapered KE



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

KE 2032 6 ADW **30** M 5 V

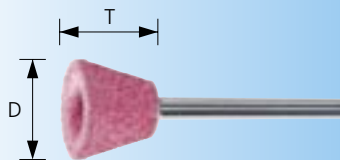
How to order

30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size					Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60	80					
	EAN 4007220									
KE 1025 6 ADW ... M 5 V	-	-	102763	-	102770	6	10 x 25	95,400	10	130
KE 1645 6 ADW ... M 5 V	-	-	102862	-	660300	6	16 x 45	52,000	10	250
KE 2032 6 ADW ... M 5 V	-	102671	-	660294	-	6	20 x 32	47,700	10	230
KE 2040 6 ADW ... M 5 V	-	102961	-	660348	-	6	20 x 40	47,700	10	325
KE 2525 6 ADW ... M 5 V	-	102534	-	-	-	6	25 x 25	38,100	10	278
KE 2545 6 ADW ... M 5 V	-	534687	-	660317	-	6	25 x 45	34,000	10	465
KE 2570 6 ADW ... M 5 V	-	103043	-	-	-	6	25 x 70	20,400	10	730
KE 3232 6 ADW ... M 5 V	660287	-	102596	-	-	6	32 x 32	29,800	5	270
KE 3250 8 ADW ... M 5 V	660355	-	-	-	-	8	32 x 50	29,800	5	390

Hardness M, cup TO



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

TO 2016 6 ADW **60** M 5 V

How to order

60 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size		Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	60					
	EAN 4007220						
TO 2016 6 ADW ... M 5 V	-	660942	6	20 x 16	47,700	10	195
TO 4032 6 ADW ... M 5 V	660959	-	6	40 x 32	23,800	5	360

Mounted Points

Hardness O



Grade O mounted points consist of pink aluminium oxide in a vitrified bond. Hardness and durability characterize grade O making it predominant in its field of application.

Advantages

- Grade O tools are ideally suited for **heavy-duty** edge grinding on steels. They are noted for their high edgeholding and dimensional stability, long service life and low wear.
- Due to their special edgeholding properties, grade O mounted points can also be used economically with low RPM power tools.

Application examples

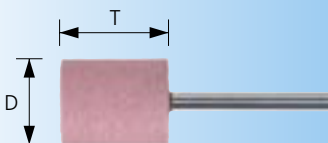
- Deburring of steel castings
- Chamfering in preparation of welding operations
- Contour and edge refining on forgings

Recommendations for use

In edge grinding operations, grade O mounted points perform best at a recommended peripheral speed of 25-40 m/s. For surface grinding we recommend a peripheral speed of 15-25 m/s.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

Hardness O, cylindrical ZY and series W



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Ordering example

ZY 1013 6 AR **46** O 5 V



How to order

46 = Grit size

Please complete the order no. by adding the grit size.



Order No.	Grit size						Shank dia. [mm]	D x T [mm]	D x T [inch]	Max. speed [RPM]	10	20
	24	30	46	60	80	100						
	EAN 4007220											
ZY 0205 3 AR ... O 5 V	-	-	-	-	-	094372	3	2 x 5	-	201,800	10	20
ZY 0306 3 AR ... O 5 V	-	-	-	-	-	094525	3	3 x 6	-	206,100	10	20
W 145 3 AR ... O 5 V	-	-	-	-	-	118139	3	3 x 10	1/8 x 3/8	131,400	10	20
W 146 3 AR ... O 5 V	-	-	-	-	-	118146	3	3 x 13	1/8 x 1/2	95,400	10	22
ZY 0402 3 AR ... O 5 V	-	-	-	-	-	098516	3	4 x 2	-	238,700	10	18
W 149 3 AR ... O 5 V	-	-	-	118160	-	118153	3	4 x 6	-	195,800	10	22
ZY 0408 3 AR ... O 5 V	-	-	-	094693	-	094686	3	4 x 8	-	175,100	10	20
W 152 3 AR ... O 5 V	-	-	-	-	-	118191	3	5 x 6	3/16 x 1/4	174,300	10	23
ZY 0510 3 AR ... O 5 V	-	-	-	094891	-	094884	3	5 x 10	-	130,700	10	26
W 154 3 AR ... O 5 V	-	-	-	118245	-	118238	3	5 x 13	3/16 x 1/2	114,800	10	27
W 158 3 AR ... O 5 V	-	-	-	-	-	118252	3	6 x 3	1/4 x 1/8	149,200	10	24
ZY 0515 3 AR ... O 5 V	-	-	-	534670	-	-	3	5 x 15	-	11,560	10	26
W 162 3 AR ... O 5 V	-	-	-	118320	-	118313	3	6 x 10	1/4 x 3/8	110,500	10	28

Hardness O

Order No.	Grit size						Shank dia. [mm]	D x T [mm]	D x T [inch]	Max. speed [RPM]		
	24	30	46	60	80	100						
	EAN 4007220											
ZY 0613 3 AR... O 5 V	-	-	-	095164	-	095157	3	6 x 13	-	93,600	10	30
W 164 3 AR... O 5 V	-	-	-	118368	-	118351	3	6 x 19	1/4 x 3/4	64,500	10	40
ZY 0625 3 AR... O 5 V	-	-	-	534656	-	-	3	6 x 25	-	53,100	10	38
ZY 0802 3 AR... O 5 V	-	-	-	-	-	098578	3	8 x 2	-	119,300	10	25
ZY 0810 3 AR... O 5 V	-	-	095355	-	095362	-	3	8 x 10	-	87,600	10	38
W 170 3 AR... O 5 V	-	-	118399	-	118405	-	3	8 x 13	5/16 x 1/2	74,400	10	44
ZY 0816 3 AR... O 5 V	-	-	095546	-	095553	-	3	8 x 16	-	61,000	10	50
ZY 1002 3 AR... O 5 V	-	-	-	-	-	098660	3	10 x 2	-	95,400	10	27
W 173 3 AR... O 5 V	-	-	-	118429	-	118412	3	10 x 3	3/8 x 1/8	100,500	10	29
W 175 3 AR... O 5 V	-	-	118450	-	118467	-	3	10 x 10	3/8 x 3/8	77,500	10	46
ZY 1013 3 AR... O 5 V	-	-	095720	-	095737	-	3	10 x 13	-	58,400	10	55
ZY 1303 3 AR... O 5 V	-	-	-	098806	-	098790	3	13 x 3	-	73,400	10	35
ZY 1313 3 AR... O 5 V	-	-	096154	-	096161	-	3	13 x 13	-	45,300	10	70
W 191 3 AR... O 5 V	-	-	-	118580	-	118573	3	16 x 3	5/8 x 1/8	60,000	10	55
ZY 1604 3 AR... O 5 V	-	-	098974	-	098981	-	3	16 x 4	-	59,600	10	46
W 200 3 AR... O 5 V	-	-	-	118627	-	-	3	19 x 3	3/4 x 1/8	49,900	10	58
ZY 2006 3 AR... O 5 V	-	-	100417	-	100424	-	3	20 x 6	-	47,700	10	84
W 215 3 AR... O 5 V	-	-	-	-	-	118696	3	25 x 3	1 x 1/8	37,500	10	78
ZY 0306 6 AR... O 5 V	-	-	-	-	-	094464	6	3 x 6	-	206,100	10	80
ZY 0408 6 AR... O 5 V	-	-	-	094594	-	094587	6	4 x 8	-	177,400	10	85
ZY 0510 6 AR... O 5 V	-	-	-	094778	-	094761	6	5 x 10	-	157,800	10	90
ZY 0613 6 AR... O 5 V	-	-	-	095058	-	095041	6	6 x 13	-	131,500	10	95
ZY 0625 6 AR... O 5 V	-	-	-	534663	-	-	6	6 x 25	-	62,200	10	117
ZY 0810 6 AR... O 5 V	-	-	095270	-	095287	-	6	8 x 10	-	119,300	10	105
ZY 0816 6 AR... O 5 V	-	-	095430	-	095447	-	6	8 x 16	-	119,300	10	112
ZY 1002 6 AR... O 5 V	-	-	-	-	-	098622	6	10 x 2	-	95,400	10	90
ZY 1013 6 AR... O 5 V	-	-	095638	-	095645	-	6	10 x 13	-	95,400	10	116
ZY 1020 6 AR... O 5 V	-	-	095874	-	095881	-	6	10 x 20	-	95,400	10	138
ZY 1025 6 AR... O 5 V	-	-	095966	-	095973	-	6	10 x 25	-	83,200	10	145
ZY 1032 6 AR... O 5 V	-	-	096024	-	096031	-	6	10 x 32	-	83,200	10	165
ZY 1303 6 AR... O 5 V	-	-	-	098745	-	098738	6	13 x 3	-	73,400	10	98
ZY 1306 6 AR... O 5 V	-	-	098851	-	-	-	6	13 x 6	-	73,400	10	115
ZY 1313 6 AR... O 5 V	-	-	096109	-	096116	-	6	13 x 13	-	73,400	10	137
ZY 1320 6 AR... O 5 V	-	-	096277	-	096284	-	6	13 x 20	-	73,400	10	167
ZY 1325 6 AR... O 5 V	-	-	096369	-	096376	-	6	13 x 25	-	73,400	10	180
ZY 1340 6 AR... O 5 V	-	-	098059	-	-	-	6	13 x 40	-	42,400	10	280
ZY 1604 6 AR... O 5 V	-	-	098929	-	098936	-	6	16 x 4	-	59,600	10	120
ZY 1610 6 AR... O 5 V	-	099063	-	-	-	-	6	16 x 10	-	59,600	10	160
ZY 1620 6 AR... O 5 V	-	096475	-	096482	-	-	6	16 x 20	-	59,600	10	235
ZY 1632 6 AR... O 5 V	-	096611	-	096628	-	-	6	16 x 32	-	51,200	10	290
ZY 1640 6 AR... O 5 V	-	096741	-	096758	-	-	6	16 x 40	-	40,500	10	345
ZY 1650 6 AR... O 5 V	-	096840	-	-	-	-	6	16 x 50	-	40,500	10	410
ZY 2006 6 AR... O 5 V	-	-	099124	-	099131	-	6	20 x 6	-	47,700	10	150
ZY 2010 6 AR... O 5 V	-	099216	-	099223	-	-	6	20 x 10	-	47,700	10	180
ZY 2013 6 AR... O 5 V	-	099261	-	-	-	-	6	20 x 13	-	47,700	10	225
ZY 2020 6 AR... O 5 V	-	096901	-	096918	-	-	6	20 x 20	-	47,700	10	295
ZY 2025 6 AR... O 5 V	-	097014	-	097021	-	-	6	20 x 25	-	47,700	10	330
ZY 2032 6 AR... O 5 V	-	097113	-	097120	-	-	6	20 x 32	-	41,100	10	385
ZY 2040 6 AR... O 5 V	-	097236	-	097243	-	-	6	20 x 40	-	32,400	10	465
ZY 2050 6 AR... O 5 V	-	098080	-	-	-	-	6	20 x 50	-	25,100	10	535
ZY 2506 6 AR... O 5 V	-	-	099339	-	099346	-	6	25 x 6	-	38,100	10	210
ZY 2510 6 AR... O 5 V	-	099377	-	099384	-	-	6	25 x 10	-	38,100	10	255
ZY 2513 6 AR... O 5 V	-	099438	-	-	-	-	6	25 x 13	-	38,100	10	289
ZY 2516 6 AR... O 5 V	-	-	-	099513	-	-	6	25 x 16	-	38,100	10	324

Mounted Points

Hardness O

Order No.	Grit size						Shank dia. [mm]	D x T [mm]	D x T [inch]	Max. speed [RPM]		
	24	30	46	60	80	100						
	EAN 4007220											
ZY 2525 6 AR ... O 5 V	-	097342	-	097359	-	-	6	25 x 25	-	38,100	10	475
ZY 2532 6 AR ... O 5 V	-	097458	-	097465	-	-	6	25 x 32	-	32,900	10	545
ZY 2540 6 AR ... O 5 V	-	098127	-	-	-	-	6	25 x 40	-	26,000	10	645
W 225 6 AR ... O 5 V	-	-	119112	-	-	-	6	32 x 6	-	30,000	5	145
ZY 3208 6 AR ... O 5 V	-	099582	-	099599	-	-	6	32 x 8	-	29,800	5	160
W 226 6 AR ... O 5 V	-	119143	-	-	-	-	6	32 x 10	-	30,000	5	180
ZY 3216 6 AR ... O 5 V	099674	-	099681	-	-	-	6	32 x 16	-	29,800	5	235
ZY 3220 6 AR ... O 5 V	099780	-	099797	-	-	-	6	32 x 20	-	29,800	5	287
ZY 3232 6 AR ... O 5 V	097618	-	097625	-	-	-	6	32 x 32	-	25,700	5	460
ZY 3240 6 AR ... O 5 V	097731	-	097748	-	-	-	6	32 x 40	-	18,600	5	510
ZY 4006 6 AR ... O 5 V	-	-	100462	-	-	-	6	40 x 6	-	23,800	5	180
ZY 4010 6 AR ... O 5 V	-	099896	-	099902	-	-	6	40 x 10	-	23,800	5	252
ZY 4015 6 AR ... O 5 V	-	099957	-	099964	-	-	6	40 x 15	-	23,800	5	320
ZY 4020 6 AR ... O 5 V	100042	-	100059	-	-	-	6	40 x 20	-	23,800	5	415
ZY 4040 6 AR ... O 5 V	097816	-	097823	-	-	-	6	40 x 40	-	16,200	5	770
ZY 5008 6 AR ... O 5 V	-	100516	-	-	-	-	6	50 x 8	-	19,000	5	290
ZY 5013 6 AR ... O 5 V	-	100202	-	100219	-	-	6	50 x 13	-	19,000	5	430
ZY 5025 6 AR ... O 5 V	100332	-	100349	-	-	-	6	50 x 25	-	19,000	5	730
ZY 3240 8 AR ... O 5 V	098196	-	-	-	-	-	8	32 x 40	-	27,200	5	550
ZY 4040 8 AR ... O 5 V	098271	-	-	-	-	-	8	40 x 40	-	23,800	5	810
W 220 1/4 AR ... O 5 V	-	117019	-	-	-	-	1/4	25 x 25	1 x 1	37,500	5	238

Hardness O, ball KU



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

KU 10 6 AR **80** O 5 V

How to order

80 = Grit size

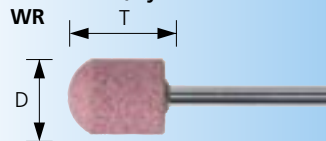
Please complete the order no. by adding the grit size.

Order No.	Grit size						Shank dia. [mm]	D [mm]	Max. speed [RPM]		
	24	30	46	60	80	100					
	EAN 4007220										
KU 03 3 AR ... O 5 V	-	-	-	-	-	101018	3	3	300,200	10	18
KU 05 3 AR ... O 5 V	-	-	-	101100	-	101094	3	5	190,900	10	20
KU 08 3 AR ... O 5 V	-	-	101551	-	101568	-	3	8	116,200	10	30
KU 10 3 AR ... O 5 V	-	-	101520	-	101537	-	3	10	83,300	10	41
KU 13 3 AR ... O 5 V	-	-	101605	-	101612	-	3	13	54,000	10	55
KU 03 6 AR ... O 5 V	-	-	-	-	-	100981	6	3	317,300	10	80
KU 05 6 AR ... O 5 V	-	-	-	101056	-	101049	6	5	190,900	10	84
KU 08 6 AR ... O 5 V	-	-	101148	-	101155	-	6	8	119,300	10	96
KU 10 6 AR ... O 5 V	-	-	101490	-	101506	-	6	10	95,400	10	113
KU 13 6 AR ... O 5 V	-	-	101216	-	101223	-	6	13	73,400	10	125
KU 16 6 AR ... O 5 V	-	101278	-	101285	-	-	6	16	59,600	10	164
KU 20 6 AR ... O 5 V	-	101353	-	101360	-	-	6	20	47,700	10	230
KU 25 6 AR ... O 5 V	-	101391	-	101407	-	-	6	25	38,100	10	340
KU 32 6 AR ... O 5 V	101445	-	101452	-	-	-	6	32	29,800	5	295

Mounted Points

Hardness O

Hardness O, cylindrical with radius end WR



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

WR 0816 6 AR 46 O 5 V

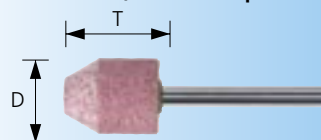
How to order

46 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size					Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	30	46	60	80	100					
EAN 4007220										
WR 0306 3 AR ... O 5 V	-	-	-	-	100745	3	3 x 6	219,800	10	20
WR 0510 3 AR ... O 5 V	-	-	100837	-	100820	3	5 x 10	136,500	10	26
WR 0306 6 AR ... O 5 V	-	-	-	-	100714	6	3 x 6	219,800	10	80
WR 0510 6 AR ... O 5 V	-	-	100783	-	100776	6	5 x 10	168,400	10	90
WR 0816 6 AR ... O 5 V	-	100851	-	100868	-	6	8 x 16	119,300	10	110
WR 1320 6 AR ... O 5 V	-	100905	-	100912	-	6	13 x 20	73,400	10	165
WR 2025 6 AR ... O 5 V	100943	-	100950	-	-	6	20 x 25	47,700	10	325

Hardness O, conical shape WK



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

WK 2025 6 AR 30 O 5 V

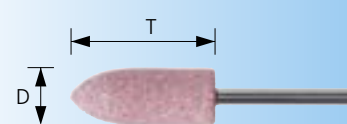
How to order

30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60					
EAN 4007220									
WK 1320 6 AR ... O 5 V	-	-	101643	-	6	13 x 20	73,400	10	150
WK 1332 6 AR ... O 5 V	-	-	101759	-	6	13 x 32	65,700	10	240
WK 2025 6 AR ... O 5 V	-	101698	-	101704	6	20 x 25	47,700	10	310
WK 2532 6 AR ... O 5 V	-	101728	-	-	6	25 x 32	37,600	10	500
WK 3240 6 AR ... O 5 V	101735	-	-	-	6	32 x 40	37,600	5	435

Hardness O, tree shape SP



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

SP 1320 6 AR 46 O 5 V

How to order

46 = Grit size

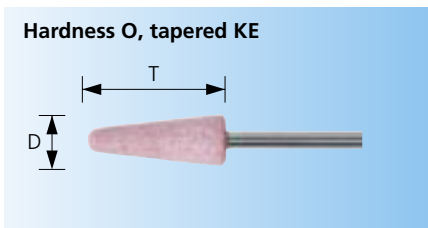
Please complete the order no. by adding the grit size.

Order No.	Grit size					Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	30	46	60	80	100					
EAN 4007220										
SP 0306 3 AR ... O 5 V	-	-	-	-	101810	3	3 x 6	252,000	10	20
SP 0510 3 AR ... O 5 V	-	-	101940	-	101933	3	5 x 10	149,500	10	26
SP 0816 3 AR ... O 5 V	-	102084	-	102091	-	3	8 x 16	72,800	10	43
SP 0306 6 AR ... O 5 V	-	-	-	-	101773	6	3 x 6	255,500	10	80
SP 0510 6 AR ... O 5 V	-	-	101872	-	101865	6	5 x 10	190,900	10	90
SP 0816 6 AR ... O 5 V	-	102015	-	102022	-	6	8 x 16	119,300	10	110

Mounted Points

Hardness O

Order No.	Grit size					Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	30	46	60	80	100					
EAN 4007220										
SP 1320 6 AR ... O 5 V	-	102152	-	102169	-	6	13 x 20	73,400	10	160
SP 2032 6 AR ... O 5 V	102244	-	102251	-	-	6	20 x 32	47,700	10	330
SP 2050 6 AR ... O 5 V	102329	-	-	-	-	6	20 x 50	30,500	10	490
SP 2540 6 AR ... O 5 V	102350	-	-	-	-	6	25 x 40	35,000	10	550



Ordering note

Type KE 3550 8 ADR 24 O 5 V mounted points contain a mixture of dark red and pink aluminium oxide. These tools have been developed specifically for volume use in foundry applications. Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM)

relates to the specified minimum clamp depth of 10 mm.

Ordering example

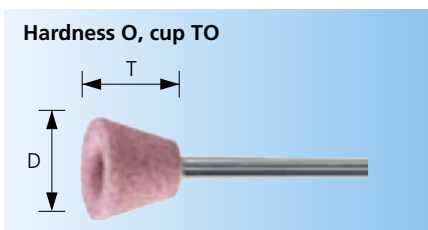
KE 2032 6 AR **30** O 5 V

How to order

30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size					Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60	80					
EAN 4007220										
KE 1010 3 AR ... O 5 V	-	-	102404	-	-	3	10 x 10	95,400	10	40
KE 1010 6 AR ... O 5 V	-	-	102374	-	102381	6	10 x 10	95,400	10	105
KE 1025 6 AR ... O 5 V	-	-	102787	-	102794	6	10 x 25	95,400	10	130
KE 1313 6 AR ... O 5 V	-	-	102428	-	-	6	13 x 13	73,400	10	120
KE 1616 6 AR ... O 5 V	-	102466	-	102473	-	6	16 x 16	59,600	10	140
KE 1645 6 AR ... O 5 V	-	-	102879	-	102886	6	16 x 45	52,000	10	250
KE 2020 6 AR ... O 5 V	-	102497	-	102503	-	6	20 x 20	47,700	10	210
KE 2032 6 AR ... O 5 V	-	102688	-	102695	-	6	20 x 32	47,700	10	230
KE 2040 6 AR ... O 5 V	-	102978	-	102985	-	6	20 x 40	47,700	10	325
KE 2525 6 AR ... O 5 V	-	102541	-	102558	-	6	25 x 25	38,100	10	278
KE 2545 6 AR ... O 5 V	-	102923	-	102930	-	6	25 x 45	34,000	10	465
KE 2570 6 AR ... O 5 V	-	103067	-	-	-	6	25 x 70	20,400	10	730
KE 3232 6 AR ... O 5 V	102602	-	102619	-	-	6	32 x 32	29,800	5	270
KE 3250 8 AR ... O 5 V	103098	-	-	-	-	8	32 x 50	29,800	5	390
KE 3550 8 ADR ... O 5 V	642672	-	-	-	-	8	35 x 50	10,100	50	4,850



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Ordering example

TO 3225 6 AR **24** O 5 V

How to order

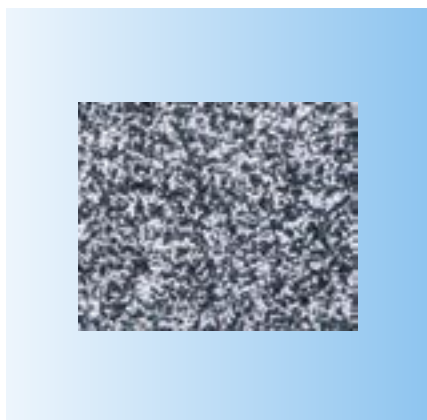
24 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60					
EAN 4007220									
TO 2016 6 AR ... O 5 V	-	103128	-	103135	6	20 x 16	47,700	10	195
TO 2520 6 AR ... O 5 V	-	103142	-	103159	6	25 x 20	38,100	10	280
TO 3225 6 AR ... O 5 V	103173	-	103180	-	6	32 x 25	29,800	5	225
TO 4032 6 AR ... O 5 V	103203	-	-	-	6	40 x 32	23,800	5	360

Mounted Points

Hardness H



Grade H mounted points are manufactured from a mix of regular and white aluminium oxide in a vitrified bond. Despite its softness, grade H provides maximum abrasive rates.

Advantages

- Grade H is ideally suited for use on hard and tough steel surfaces at high peripheral speeds.
- Outstanding soft abrasive action combined with aggressive grinding performance.
- Soft bond ensures continuous exposure of new, sharp abrasive grit.

Application examples

- Grinding on heat-treated tools and dies (e.g., of presses, metalforming or punching machines)
- Grinding work on injection moulds

Recommendations for use

Grade H mounted points perform best at a recommended peripheral speed of 25-35 m/s.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

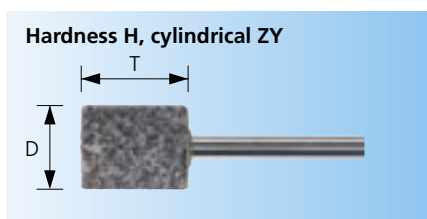
Ordering example

ZY 1632 6 AWN **30** H 5 V

How to order

30 = Grit size

Please complete the order no. by adding the grit size.



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

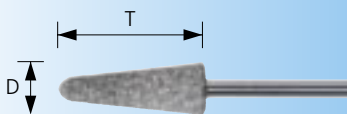
The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60					
	EAN 4007220								
ZY 0306 3 AWN ... H 5 V	-	-	-	094495	3	3 x 6	206,100	10	20
ZY 0408 3 AWN ... H 5 V	-	-	-	094648	3	4 x 8	175,100	10	20
ZY 0510 3 AWN ... H 5 V	-	-	-	094846	3	5 x 10	130,700	10	26
ZY 0613 3 AWN ... H 5 V	-	-	-	095102	3	6 x 13	93,600	10	30
ZY 0810 3 AWN ... H 5 V	-	-	095317	-	3	8 x 10	87,600	10	38
ZY 0816 3 AWN ... H 5 V	-	-	095508	-	3	8 x 16	61,000	10	50
ZY 0816 6 AWN ... H 5 V	-	-	095393	-	6	8 x 16	119,300	10	112
ZY 1020 6 AWN ... H 5 V	-	-	095836	-	6	10 x 20	95,400	10	138
ZY 1325 6 AWN ... H 5 V	-	-	096314	-	6	13 x 25	73,400	10	180
ZY 1632 6 AWN ... H 5 V	-	096550	-	-	6	16 x 32	51,200	10	290
ZY 2025 6 AWN ... H 5 V	-	096956	-	-	6	20 x 25	47,700	10	330
ZY 2040 6 AWN ... H 5 V	-	097182	-	-	6	20 x 40	32,400	10	465
ZY 2525 6 AWN ... H 5 V	-	097311	-	-	6	25 x 25	38,100	10	475
ZY 3232 6 AWN ... H 5 V	097557	-	-	-	6	32 x 32	25,700	5	460
ZY 5013 6 AWN ... H 5 V	-	100141	-	-	6	50 x 13	19,000	5	430
ZY 5040 8 AWN ... H 5 V	100646	-	-	-	8	50 x 40	19,000	5	980

Mounted Points

Hardness H

Hardness H, tapered KE



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

KE 1645 6 AWN **46** H 5 V

How to order

46 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size	EAN 4007220	Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
KE 1025 6 AWN . . . H 5 V	46	102732	6	10 x 25	95,400	10	130
KE 1645 6 AWN . . . H 5 V	46	102831	6	16 x 45	52,000	10	250



Removal of sprue and risers on high-grade steel castings.

Mounted Points

Hardness I



Grade I mounted points consist of white aluminium oxide in a vitrified bond. Despite their softness, grade I tools provide maximum abrasive rates particularly when used in smaller grit sizes.

Advantages

- Grade I tools are ideally suited for use on hard steel surfaces at high peripheral speeds.
- Very high stock removal and abrasive action.
- Cool grinding characteristics.

Application examples

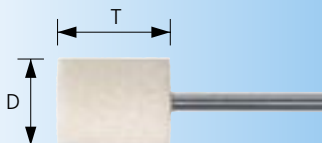
- Grinding of heat-treated steels
- Dressing of hard deposit-welded claddings
- Grinding of titanium and titanium alloy workpieces

Recommendations for use

Grade I mounted points perform best at a recommended peripheral speed of 25-50 m/s.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

Hardness I, cylindrical ZY



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

ZY 2040 6 AW 30 I 5 V

How to order



30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size						Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60	80	100					
	EAN 4007220										
ZY 0205 3 AW ... I 5 V	-	-	-	-	-	094358	3	2 x 5	201,800	10	20
ZY 0306 3 AW ... I 5 V	-	-	-	-	-	094501	3	3 x 6	206,100	10	20
ZY 0408 3 AW ... I 5 V	-	-	-	-	-	094655	3	4 x 8	175,100	10	20
ZY 0510 3 AW ... I 5 V	-	-	-	-	-	094853	3	5 x 10	130,700	10	26
ZY 0613 3 AW ... I 5 V	-	-	-	095126	-	095119	3	6 x 13	93,600	10	30
ZY 1303 3 AW ... I 5 V	-	-	-	098769	-	-	3	13 x 3	73,400	10	35
ZY 2006 3 AW ... I 5 V	-	-	100400	-	-	-	3	20 x 6	47,700	10	84
ZY 0816 6 AW ... I 5 V	-	-	-	-	095409	-	6	8 x 16	119,300	10	112
ZY 1013 6 AW ... I 5 V	-	-	-	-	095607	-	6	10 x 13	95,400	10	116
ZY 1020 6 AW ... I 5 V	-	-	-	-	095843	-	6	10 x 20	95,400	10	138
ZY 1325 6 AW ... I 5 V	-	-	096321	-	-	-	6	13 x 25	73,400	10	180
ZY 1620 6 AW ... I 5 V	-	096444	-	-	-	-	6	16 x 20	59,600	10	235
ZY 1632 6 AW ... I 5 V	-	096581	-	-	-	-	6	16 x 32	51,200	10	290
ZY 2025 6 AW ... I 5 V	-	096970	-	096987	-	-	6	20 x 25	47,700	10	330
ZY 2040 6 AW ... I 5 V	-	097205	-	-	-	-	6	20 x 40	32,400	10	465

Mounted Points

Hardness I

Order No.	Grit size						Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60	80	100					
	EAN 4007220										
ZY 2532 6 AW ... I 5 V	-	097427	-	-	-	-	6	25 x 32	32,900	10	545
ZY 3216 6 AW ... I 5 V	-	-	099650	-	-	-	6	32 x 16	29,800	5	235
ZY 3232 6 AW ... I 5 V	-	-	097588	-	-	-	6	32 x 32	25,700	5	460
ZY 4010 6 AW ... I 5 V	-	-	-	099872	-	-	6	40 x 10	23,800	5	252
ZY 4020 6 AW ... I 5 V	-	-	100011	-	-	-	6	40 x 20	23,800	5	415
ZY 5013 6 AW ... I 5 V	-	-	-	100172	-	-	6	50 x 13	19,000	5	430
ZY 5025 6 AW ... I 5 V	100301	-	-	-	-	-	6	50 x 25	19,000	5	730

Hardness I, ball KU



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

KU 08 3 AW **80** I 5 V

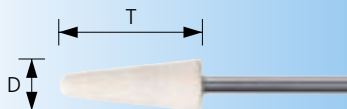
How to order

80 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size	EAN 4007220	Shank dia. [mm]	D [mm]	Max. speed [RPM]		
KU 08 3 AW ... I 5 V	80	101544	3	8	116,200	10	30

Hardness I, tapered KE



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

KE 1025 6 AW **46** I 5 V

How to order

46 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size	EAN 4007220	Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
KE 1025 6 AW ... I 5 V	46	102749	6	10 x 25	95,400	10	130
KE 1645 6 AW ... I 5 V	46	102855	6	16 x 45	52,000	10	250

Mounted Points

Hardness T



Grade T mounted points are made of white aluminium oxide in a special high-quality vitrified bond. In the range of smaller-sized points, grade T products are noted as hard and durable.

Advantages

- Grade T tools are ideally suited for **heavy-duty** edge grinding on steels. They are distinguished by their outstanding dimensional stability and edgeholding, long service life and very low wear.
- Due to their exceptional edgeholding capability, grade T mounted points can also be used economically with power tools operating at very low RPM.

Application examples

- Deburring of components made of heat-treated steel
- Very fine chamfering of hard components in tool, die and mouldmaking applications

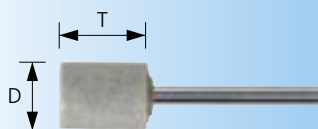
Recommendations for use

Grade T mounted points perform best at a recommended peripheral speed of 15-20 m/s.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

203

Hardness T, cylindrical ZY



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

ZY 0613 3 AW 60 T 5 V

How to order

60 = Grit size

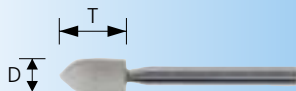
Please complete the order no. by adding the grit size.

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	60	80	100	320					
	EAN 4007220								
ZY 0105 3 AW ... T 5 V	-	-	-	098349	3	1 x 5	140,200	10	18
ZY 1,508 3 AW ... T 5 V	-	-	-	098356	3	1,5 x 8	104,700	10	20
ZY 1,708 3 AW ... T 5 V	-	-	-	098363	3	1,7 x 8	112,300	10	20
ZY 0205 3 AW ... T 5 V	-	-	094396	-	3	2 x 5	201,800	10	20
ZY 0306 3 AW ... T 5 V	-	-	094549	-	3	3 x 6	206,100	10	20
ZY 0408 3 AW ... T 5 V	-	-	094723	-	3	4 x 8	175,100	10	20
ZY 0510 3 AW ... T 5 V	-	-	094921	-	3	5 x 10	130,700	10	26
ZY 0613 3 AW ... T 5 V	095201	-	095195	-	3	6 x 13	93,600	10	30
ZY 0816 3 AW ... T 5 V	-	095584	-	-	3	8 x 16	61,000	10	50
ZY 1013 3 AW ... T 5 V	-	095768	-	-	3	10 x 13	58,400	10	55
ZY 0510 6 AW ... T 5 V	-	-	094808	-	6	5 x 10	157,800	10	90

Mounted Points

Hardness T

Hardness T, tree SP



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

SP 0510 3 AW 100 T 5 V

How to order

100 = Grit size

Please complete the order no. by adding the grit size.

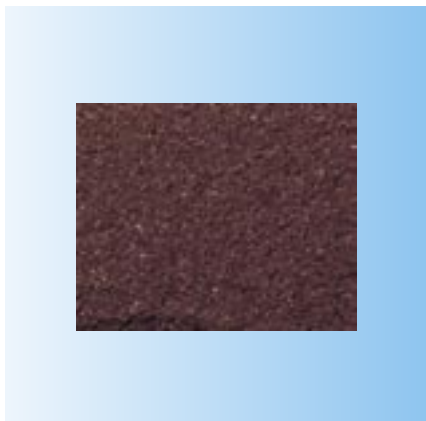
Order No.	Grit size	EAN 4007220	Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
SP 0306 3 AW . . . T 5 V	100	101834	3	3 x 6	252,000	10	20
SP 0510 3 AW . . . T 5 V	100	101971	3	5 x 10	149,500	10	26



Deburring on an eroded forging die.

Mounted Points

Hardness L



Grade L mounted points consist of a mix of white and dark red aluminium oxide in a high-quality resinoid bond. Grade L is considered a fairly soft bond achieving very good abrasive rates.

Advantages

- Grade L tools are ideal for **general use** on stainless steel surfaces. This hardness grade ensures high abrasive rates and a high stock removal capability.
- Naturally a high stock removal rate reduces grinding time and labour costs.
- Cost reductions are achieved despite increased tool consumption, since the reduction in labour costs more than compensates tool costs.
- Cool grinding properties reduce the heat load on the workpiece.

Application examples

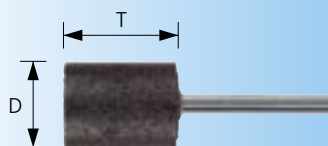
- Grinding on high-temperature alloy components
- Weld dressing on stainless steel structures
- Coarse grinding of stainless steel
- Grinding of high-grade steel castings
- Dressing of titanium and titanium alloy products

Recommendations for use

Grade L mounted points perform best at a recommended peripheral speed of 25-35 m/s in surface grinding applications.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

Hardness L, cylindrical ZY



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Ordering example

ZY 3216 6 ADW **24** L 6 B

How to order



24 = Grit size

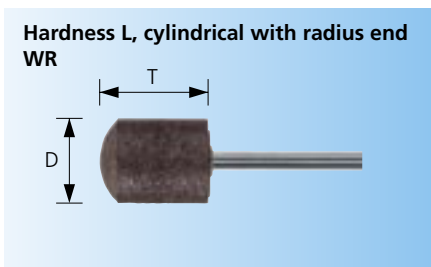
Please complete the order no. by adding the grit size.

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60					
	EAN 4007220								
ZY 0816 6 ADW ... L 6 B	-	-	346877	-	6	8 x 16	119,300	10	112
ZY 1020 6 ADW ... L 6 B	-	-	346891	-	6	10 x 20	95,400	10	138
ZY 1032 6 ADW ... L 6 B	-	-	346907	-	6	10 x 32	83,200	10	165
ZY 1632 6 ADW ... L 6 B	-	096697	-	-	6	16 x 32	51,200	10	290
ZY 2025 6 ADW ... L 6 B	-	097083	-	346914	6	20 x 25	47,700	10	330
ZY 2040 6 ADW ... L 6 B	-	097304	-	-	6	20 x 40	32,400	10	465
ZY 2513 6 ADW ... L 6 B	-	099483	-	-	6	25 x 13	38,100	10	289
ZY 2525 6 ADW ... L 6 B	-	346938	-	-	6	25 x 25	38,100	10	475
ZY 2532 6 ADW ... L 6 B	-	097533	-	-	6	25 x 32	32,900	10	545
ZY 3216 6 ADW ... L 6 B	099742	-	-	-	6	32 x 16	29,800	5	235

Mounted Points

Hardness L

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60					
	EAN 4007220								
ZY 3240 6 ADW ... L 6 B	097793	-	-	-	6	32 x 40	18,600	5	510
ZY 4006 6 ADW ... L 6 B	-	-	-	346976	6	40 x 6	23,800	5	180
ZY 4010 6 ADW ... L 6 B	-	099940	-	-	6	40 x 10	23,800	5	252
ZY 4020 6 ADW ... L 6 B	100127	-	-	-	6	40 x 20	23,800	5	415
ZY 5013 6 ADW ... L 6 B	-	100271	-	-	6	50 x 13	19,000	5	430
ZY 5025 6 ADW ... L 6 B	100394	-	-	-	6	50 x 25	19,000	5	730
ZY 3240 8 ADW ... L 6 B	098257	-	-	-	8	32 x 40	27,200	5	550
ZY 5040 8 ADW ... L 6 B	100653	-	-	-	8	50 x 40	19,000	5	980



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

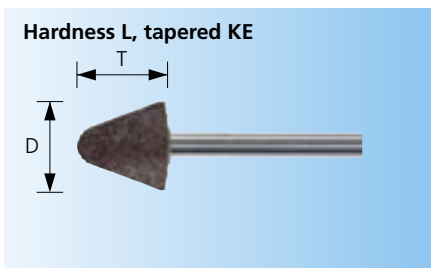
WR 2532 6 ADW **30** L 6 B

How to order

30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size	EAN 4007220	Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
WR 2532 6 ADW ... L 6 B	30	353813	6	25 x 32	37,300	10	515



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

KE 2545 6 ADW **30** L 6 B

How to order

30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size	EAN 4007220	Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
KE 2020 6 ADW ... L 6 B	30	347034	6	20 x 20	47,700	10	210
KE 2545 6 ADW ... L 6 B	30	660331	6	25 x 45	34,000	10	465

Mounted Points

Hardness N



Grade N mounted points are made of regular aluminium oxide in a high-quality resinoid bond. Tools of grade N are noted for their elevated hardness and durability.

Advantages

- Grade N tools are perfect for **heavy-duty** edge grinding on stainless steel. These products are distinguished by their high edgeholding capability, long service life and low wear.
- Due to their special edgeholding properties, grade N mounted points can also be used economically with low RPM power tools.
- Cool grinding properties reduce the heat load on the workpiece.

Application examples

- Deburring of high-grade steel castings
- Chamfering of stainless steel shapes in preparation of welding
- Dressing of fillet welds on high-grade steel components
- Deburring of high-temperature alloy parts

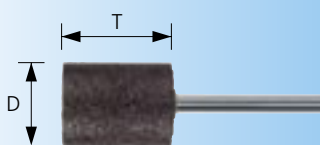
Recommendations for use

Grade N mounted points perform best at a recommended peripheral speed of 30-40 m/s when used for edge grinding. For surface grinding we recommend a peripheral speed of 20-30 m/s.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

203

Hardness N, cylindrical ZY



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Ordering example

ZY 1632 6 AN 30 N 5 B

How to order



30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60					
	EAN 4007220								
ZY 0816 6 AN . . . N 5 B	-	-	346860	-	6	8 x 16	119,300	10	112
ZY 1020 6 AN . . . N 5 B	-	-	346884	-	6	10 x 20	95,400	10	138
ZY 1032 6 AN . . . N 5 B	-	-	096062	-	6	10 x 32	83,200	10	165
ZY 1325 6 AN . . . N 5 B	-	-	096420	-	6	13 x 25	73,400	10	180
ZY 1632 6 AN . . . N 5 B	-	096673	-	096680	6	16 x 32	51,200	10	290
ZY 1650 6 AN . . . N 5 B	-	096871	-	-	6	16 x 50	40,500	10	410
ZY 2008 6 AN . . . N 5 B	-	346952	-	-	6	20 x 8	47,700	10	170
ZY 2025 6 AN . . . N 5 B	-	097076	-	-	6	20 x 25	47,700	10	330
ZY 2040 6 AN . . . N 5 B	-	097298	-	-	6	20 x 40	32,400	10	465
ZY 2506 6 AN . . . N 5 B	-	-	346969	-	6	25 x 6	38,100	10	210
ZY 2513 6 AN . . . N 5 B	-	099476	-	-	6	25 x 13	38,100	10	289
ZY 2532 6 AN . . . N 5 B	-	097526	-	-	6	25 x 32	32,900	10	545
ZY 2540 6 AN . . . N 5 B	-	098141	-	-	6	25 x 40	26,000	10	645

Mounted Points

Hardness N

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46	60					
	EAN 4007220								
ZY 3208 6 AN ... N 5 B	-	099629	-	-	6	32 x 8	29,800	5	160
ZY 3216 6 AN ... N 5 B	099735	-	-	-	6	32 x 16	29,800	5	235
ZY 3220 6 AN ... N 5 B	099834	-	-	-	6	32 x 20	29,800	5	287
ZY 3232 6 AN ... N 5 B	097670	-	-	-	6	32 x 32	25,700	5	460
ZY 3240 6 AN ... N 5 B	097786	-	-	-	6	32 x 40	18,600	5	510
ZY 3240 8 AN ... N 5 B	098240	-	-	-	8	32 x 40	27,200	5	550
ZY 4006 6 AN ... N 5 B	-	-	100479	-	6	40 x 6	23,800	5	180
ZY 4010 6 AN ... N 5 B	-	099933	-	-	6	40 x 10	23,800	5	252
ZY 4020 6 AN ... N 5 B	100110	-	-	-	6	40 x 20	23,800	5	415
ZY 4040 6 AN ... N 5 B	346945	-	-	-	6	40 x 40	16,200	5	770
ZY 5008 6 AN ... N 5 B	-	100523	-	-	6	50 x 8	19,000	5	290
ZY 5013 6 AN ... N 5 B	-	100264	-	-	6	50 x 13	19,000	5	430
ZY 5025 6 AN ... N 5 B	100387	-	-	-	6	50 x 25	19,000	5	730

Hardness N, ball KU



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

KU 20 6 AN 30 N 5 B

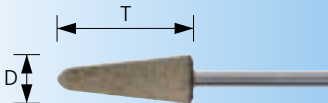
How to order

30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size	EAN 4007220	Shank dia. [mm]	D [mm]	Max. speed [RPM]		
KU 16 6 AN ... N 5 B	30	347003	6	16	59,600	10	164
KU 20 6 AN ... N 5 B	30	347010	6	20	47,700	10	230
KU 25 6 AN ... N 5 B	30	347027	6	25	38,100	10	340

Hardness N, tapered KE



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

KE 1645 6 AN 46 N 5 B

How to order

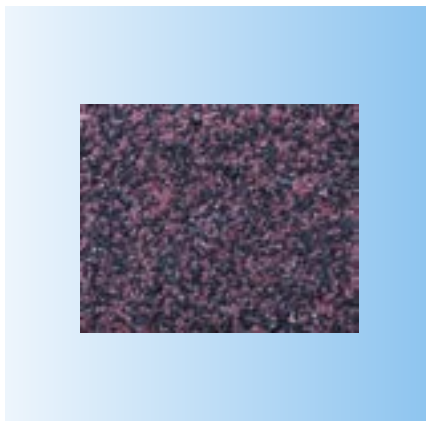
46 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size			Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46					
	EAN 4007220							
KE 1025 6 AN ... N 5 B	-	-	347041	6	10 x 25	95,400	10	130
KE 1645 6 AN ... N 5 B	-	-	347065	6	16 x 45	52,000	10	250
KE 2545 6 AN ... N 5 B	-	660324	-	6	25 x 45	34,000	10	465
KE 3232 6 AN ... N 5 B	347072	-	-	6	32 x 32	29,800	5	270

Mounted Points

Hardness K



Grade K mounted points are made of a mix of pink and regular aluminium oxide in a vitrified bond. Grade K is rated a medium-hard bond.

Advantages

- Grade K tools are ideally suited for **general use** on surfaces of castings. They are noted for their high abrasion and stock removal capability.
- Superior stock removal speeds up grinding operations, thereby cutting labour costs.
- Cost reductions are achieved despite increased tool consumption, since the reduction in labour costs more than compensates tool costs.

Application examples

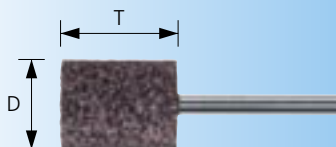
- Fettling of castings (grey or nodular cast iron)
- Grinding out shrinkage holes in grey or nodular cast iron parts

Recommendations for use

Grade K mounted points perform best at a recommended peripheral speed of 25-35 m/s.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

Hardness K, cylindrical ZY



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

ZY 3232 6 ARN **24** K 5 V

How to order

24 = Grit size

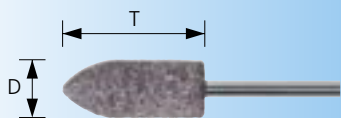
Please complete the order no. by adding the grit size.

Order No.	Grit size		Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30					
	EAN 4007220						
ZY 1632 6 ARN ... K 5 V	-	096567	6	16 x 32	51,200	10	290
ZY 1650 6 ARN ... K 5 V	-	096819	6	16 x 50	40,500	10	410
ZY 2025 6 ARN ... K 5 V	-	096963	6	20 x 25	47,700	10	330
ZY 2040 6 ARN ... K 5 V	-	097199	6	20 x 40	32,400	10	465
ZY 2532 6 ARN ... K 5 V	-	097410	6	25 x 32	32,900	10	545
ZY 3232 6 ARN ... K 5 V	097564	-	6	32 x 32	25,700	5	460
ZY 3240 6 ARN ... K 5 V	097694	-	6	32 x 40	18,600	5	510
ZY 4010 6 ARN ... K 5 V	-	099865	6	40 x 10	23,800	5	252
ZY 4020 6 ARN ... K 5 V	100004	-	6	40 x 20	23,800	5	415
ZY 5008 6 ARN ... K 5 V	-	100493	6	50 x 8	19,000	5	290
ZY 5013 6 ARN ... K 5 V	-	100165	6	50 x 13	19,000	5	430
ZY 3240 8 ARN ... K 5 V	098158	-	8	32 x 40	27,200	5	550
ZY 5025 8 ARN ... K 5 V	100530	-	8	50 x 25	19,000	5	770

Mounted Points

Hardness K

Hardness K, tree SP



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Ordering example

SP 2050 6 ARN **30** K 5 V

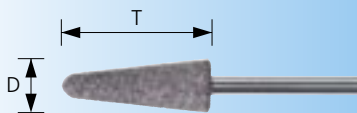
How to order

30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size	EAN 4007220	Shank dia. [mm]	D x T [mm]	Max. speed [RPM]	Packaging	
						Box	Box
SP 2050 6 ARN . . . K 5 V	30	102305	6	20 x 50	30,500	10	490

Hardness K, tapered KE



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Ordering example

KE 1025 6 ARN **46** K 5 V

How to order

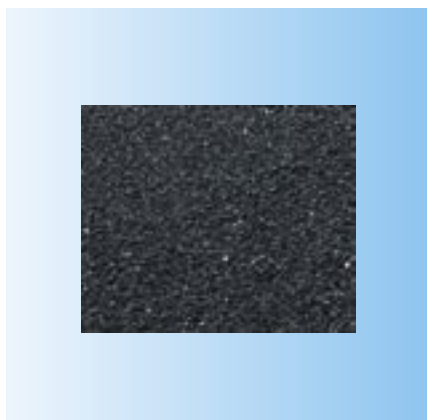
46 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size		Shank dia. [mm]	D x T [mm]	Max. speed [RPM]	Packaging	
	24	46				Box	Box
	EAN 4007220						
KE 1025 6 ARN . . . K 5 V	-	534649	6	10 x 25	95,400	10	130
KE 1645 6 ARN . . . K 5 V	-	102848	6	16 x 45	52,000	10	250
KE 2040 6 ARN . . . K 5 V	534694	-	6	20 x 40	47,700	10	325
KE 3250 8 ARN . . . K 5 V	103081	-	8	32 x 50	29,800	5	390

Mounted Points

Hardness R



Grade R mounted points are made of grey silicon carbide in a vitrified bond. These products are noted for their hardness and durability.

Advantages

- Grade R tools are ideally suited for **heavy-duty** edge grinding on castings. They are distinguished by their high edgeholding capability, long service life and low wear.
- Due to their special edgeholding properties, grade R mounted points can also be used economically with low RPM power tools.

Application examples

- Removal of sharp burrs on castings (grey and nodular cast iron)
- Removal of sand inclusions and scale from castings

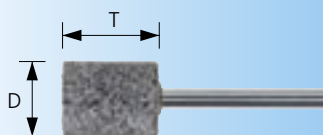
Recommendations for use

In edge grinding operations, grade R mounted points perform best at a recommended peripheral speed of 30-40 m/s. For surface grinding we recommend a peripheral speed of 20-30 m/s.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

203

Hardness R, cylindrical ZY



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Ordering example

ZY 2025 6 CU 30 R 5 V

How to order

30 = Grit size

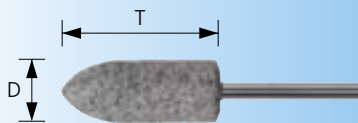
Please complete the order no by adding the grit size.

Order No.	Grit size			Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46					
	EAN 4007220							
ZY 0816 6 CU ... R 5 V	-	-	095492	6	8 x 16	119,300	10	112
ZY 1632 6 CU ... R 5 V	-	096666	-	6	16 x 32	51,200	10	290
ZY 2025 6 CU ... R 5 V	-	097069	-	6	20 x 25	47,700	10	330
ZY 2040 6 CU ... R 5 V	-	097281	-	6	20 x 40	32,400	10	465
ZY 2050 6 CU ... R 5 V	-	098097	-	6	20 x 50	25,100	10	535
ZY 3232 6 CU ... R 5 V	097663	-	-	6	32 x 32	25,700	5	460
ZY 4020 6 CU ... R 5 V	100103	-	-	6	40 x 20	23,800	5	415
ZY 3240 8 CU ... R 5 V	098233	-	-	8	32 x 40	27,200	5	550
ZY 4040 8 CU ... R 5 V	098301	-	-	8	40 x 40	23,800	5	810

Mounted Points

Hardness R

Hardness R, tree SP



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

SP 2032 6 CU **30** R 5 V

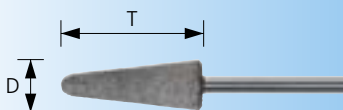
How to order

30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size		Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	30	46					
	EAN 4007220						
SP 0816 6 CU . . . R 5 V	-	102053	6	8 x 16	119,300	10	110
SP 2032 6 CU . . . R 5 V	102282	-	6	20 x 32	47,700	10	330
SP 2050 6 CU . . . R 5 V	102336	-	6	20 x 50	30,500	10	490

Hardness R, tapered KE



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Type KE 3550 8 CU 24 R 5 V mounted points have been specifically developed for volume use in foundry environments.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.



Ordering example

KE 2040 6 CU **30** R 5 V

How to order

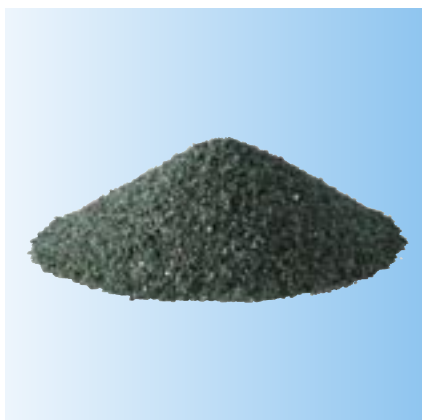
30 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size			Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	24	30	46					
	EAN 4007220							
KE 1025 6 CU . . . R 5 V	-	-	102824	6	10 x 25	95,400	10	130
KE 1645 6 CU . . . R 5 V	-	-	102916	6	16 x 45	52,000	10	250
KE 2032 6 CU . . . R 5 V	-	102725	-	6	20 x 32	47,700	10	230
KE 2040 6 CU . . . R 5 V	-	103012	-	6	20 x 40	47,700	10	325
KE 2545 6 CU . . . R 5 V	-	102947	-	6	25 x 45	34,000	10	465
KE 3232 6 CU . . . R 5 V	102640	-	-	6	32 x 32	29,800	5	270
KE 3550 8 CU . . . R 5 V	642665	-	-	8	35 x 50	10,100	50	4,850

Mounted Points

Hardness F-Alu



Grade F-Alu mounted points are made of green silicon carbide in a vitrified bond. F-Alu can be classified as a soft grade providing maximum abrasive rates.

Advantages

- Grade F-Alu tools are perfect for **general-purpose** grinding on components made of aluminium or other soft metals. This hardness grade is characterized by its aggressive abrasive action and high material removal capability.
- A special conditioning treatment prevents loading of the tool during grinding on sticky materials.

Application examples

- Deburring of aluminium castings
- Grinding of brass, bronze and copper
- Chamfering on aluminium shapes in preparation of welding

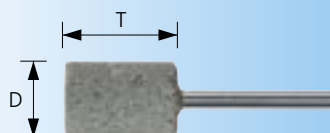
Recommendations for use

Grade F-Alu mounted points perform best at a recommended peripheral speed of 20-40 m/s.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

203

Hardness F-Alu, cylindrical ZY



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Ordering example

ZY 2032 6 CN 80 F Alu 10 V

How to order

80 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size	EAN 4007220	Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
ZY 2032 6 CN . . . F Alu 10 V	80	097151	6	20 x 32	41,100	10	385
ZY 4020 6 CN . . . F Alu 10 V	80	100080	6	40 x 20	23,800	5	415

Mounted Points

Hardness D



Grade D mounted points are made of bubble grain in a special vitrified bond. This structure accounts for the softness of grade D tools.

Advantages

- Grade D tools are ideally suited for **general use** on plastics and rubber mouldings, where they provide high abrasive rates and high stock removal.
- Bubble grain presents a very open-structured surface with large chip spaces.
- Tool loading problems are prevented by this open-cell structure.

Application examples

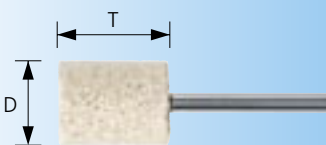
- Deflashing of plastic mouldings
- Trimming of rubber parts
- Deburring of PUR components
- Grinding of glass-fibre reinforced (GRP) plastics

Recommendations for use

Grade D mounted points perform best at a recommended peripheral speed of 10-20 m/s.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

Hardness D, cylindrical ZY



Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

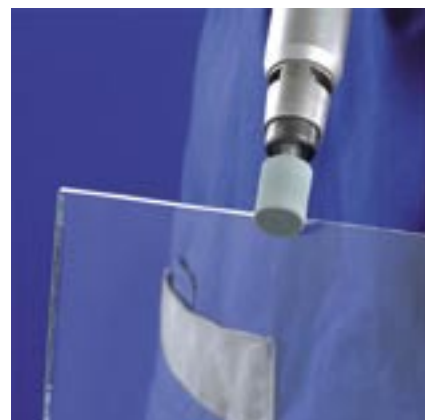
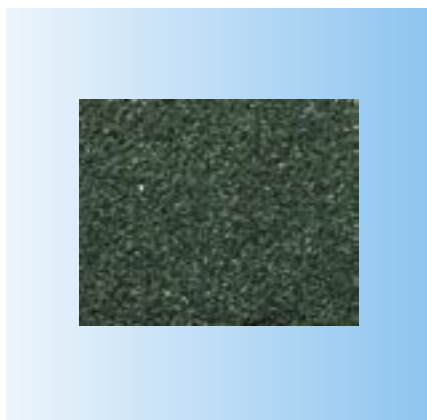
Ordering example

ZY 1632 6 AH 1 D 12 V

Order No.	EAN 4007220	Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
ZY 1632 6 AH 1 D 12 V	096703	6	16 x 32	51,200	10	190
ZY 2532 6 AH 1 D 12 V	097540	6	25 x 32	32,900	10	295
ZY 4020 6 AH 2 D 12 V	100134	6	40 x 20	23,800	5	230

Mounted Points

Hardness J



Grade J mounted points are made of green silicon carbide in a vitrified bond. Grade J is considered a soft bond.

Advantages

- Grade J tools are ideally suited for **general use** on very hard workpieces, e.g., glass, ceramics or tungsten carbide. They are distinguished by their high abrasive and stock removal capability.
- Naturally a high stock removal rate reduces grinding time and labour costs.
- Cost reductions are achieved despite increased tool consumption, since the reduction in labour costs more than compensates tool cost.

Application examples

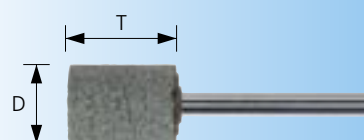
- Dressing of deposit-welded and other claddings
- Chamfering of plate glass
- Grinding of tungsten carbide dies

Recommendations for use

Grade J mounted points perform best at a recommended peripheral speed of 20-25 m/s.

Suitable drive systems include flexible shafts and electric or air-powered straight grinders.

Hardness J, cylindrical ZY



Ordering note

Order numbers appearing in blue indicate user-preferred dimensions.

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Ordering example

ZY 1013 6 CN 46 J 5 V

How to order

46 = Grit size

Please complete the order no. by adding the grit size.

Order No.	Grit size				Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
	46	60	80	100					
	EAN 4007220								
ZY 0306 3 CN . . . J 5 V	-	-	-	094556	3	3 x 6	206,100	10	20
ZY 0408 3 CN . . . J 5 V	-	-	-	094730	3	4 x 8	175,100	10	20
ZY 0510 3 CN . . . J 5 V	-	-	-	094938	3	5 x 10	130,700	10	26
ZY 0613 3 CN . . . J 5 V	-	095225	-	095218	3	6 x 13	93,600	10	30
ZY 0816 6 CN . . . J 5 V	-	-	095485	-	6	8 x 16	119,300	10	112
ZY 1013 6 CN . . . J 5 V	095683	-	-	-	6	10 x 13	95,400	10	116
ZY 1325 6 CN . . . J 5 V	-	-	096406	-	6	13 x 25	73,400	10	180
ZY 1620 6 CN . . . J 5 V	-	096536	-	-	6	16 x 20	59,600	10	235
ZY 1632 6 CN . . . J 5 V	-	096659	-	-	6	16 x 32	51,200	10	290
ZY 2025 6 CN . . . J 5 V	-	097052	-	-	6	20 x 25	47,700	10	330
ZY 3232 6 CN . . . J 5 V	097656	-	-	-	6	32 x 32	25,700	5	460
ZY 4020 6 CN . . . J 5 V	100097	-	-	-	6	40 x 20	23,800	5	415





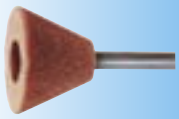



Mounted Points, Special Shapes

Series A











	Order No.	EAN 4007220	Shank dia. [mm] [inch]	Hard- ness	Grit size	D x T [mm]	D x T [inch]	Max. speed [RPM]		
	A1 1/4 ADW 30 M 5 V	114582	1/4	M	30	19 x 64	3/4 x 2 1/2	30,400	10	448
	A1 6 AR 30 O 5 V	117101	6	O	30	19 x 64	3/4 x 2 1/2	30,400	10	448
	A1 1/4 AR 30 O 5 V	114599	1/4	O	30	19 x 64	3/4 x 2 1/2	30,400	10	448
	A1 6 ADW 60 L 6 B	347096	6	L	60	19 x 64	3/4 x 2 1/2	30,400	10	448
	A1 6 AN 30 N 5 B	347089	6	N	30	19 x 64	3/4 x 2 1/2	30,400	10	448
	A2 6 AR 30 O 5 V	117125	6	O	30	25 x 32	1 x 1 1/4	37,500	10	320
	A2 1/4 AR 30 O 5 V	114612	1/4	O	30	25 x 32	1 x 1 1/4	37,500	10	320
	A3 6 AR 30 O 5 V	117149	6	O	30	25 x 70	1 x 2 3/4	18,600	10	755
	A3 1/4 AR 30 O 5 V	114636	1/4	O	30	25 x 70	1 x 2 3/4	18,600	10	755
	A3 6 ADW 60 L 6 B	347119	6	L	60	25 x 70	1 x 2 3/4	18,600	10	755
	A3 6 AN 30 N 5 B	347102	6	N	30	25 x 70	1 x 2 3/4	18,600	10	755
	A3 6 CU 30 R 5 V	117156	6	R	30	25 x 70	1 x 2 3/4	18,600	10	755
	A4 6 AR 30 O 5 V	117163	6	O	30	32 x 32	1 1/4 x 1 1/4	30,000	5	230
	A4 1/4 AR 30 O 5 V	114650	1/4	O	30	32 x 32	1 1/4 x 1 1/4	30,000	5	230
	A5 6 AR 30 O 5 V	117170	6	O	30	19 x 29	3/4 x 1 1/8	49,900	10	225
	A5 1/4 AR 30 O 5 V	114667	1/4	O	30	19 x 29	3/4 x 1 1/8	49,900	10	225
	A6 6 AR 30 O 5 V	117187	6	O	30	19 x 29	3/4 x 1 1/8	49,900	10	290
	A11 1/4 ADW 30 M 5 V	114681	1/4	M	30	22 x 50	7/8 x 2	27,600	10	565
	A11 6 AR 30 O 5 V	117200	6	O	30	22 x 50	7/8 x 2	27,600	10	565
	A11 1/4 AR 30 O 5 V	114698	1/4	O	30	22 x 50	7/8 x 2	27,600	10	565
	A11 6 ADW 60 L 6 B	347133	6	L	60	22 x 50	7/8 x 2	27,600	10	565
	A11 6 AN 30 N 5 B	347126	6	N	30	22 x 50	7/8 x 2	27,600	10	565
	A11 1/4 AN 30 N 5 B	347157	1/4	N	30	22 x 50	7/8 x 2	27,600	10	565
	A11 6 ARN 30 K 5 V	534700	6	K	30	22 x 50	7/8 x 2	27,600	10	565
	A11 6 CU 30 R 5 V	117217	6	R	30	22 x 50	7/8 x 2	27,600	10	565
	A12 6 AR 30 O 5 V	117224	6	O	30	17 x 32	1 1/16 x 1 1/4	54,500	10	265
	A12 1/4 AR 30 O 5 V	114711	1/4	O	30	17 x 32	1 1/16 x 1 1/4	54,500	10	265
	A14 6 AR 30 O 5 V	117248	6	O	30	17 x 22	11/16 x 7/8	54,500	10	226
	A15 6 AR 60 O 5 V	117262	6	O	60	6 x 27	1/4 x 1 1/16	112,900	10	108
	A15 6 AR 100 O 5 V	117255	6	O	100	6 x 27	1/4 x 1 1/16	112,900	10	108
	A15 1/4 AR 60 O 5 V	114759	1/4	O	60	6 x 27	1/4 x 1 1/16	112,900	10	108
	A21 6 AR 30 O 5 V	117279	6	O	30	25 x 25	1 x 1	37,500	10	410
	A21 1/4 AR 30 O 5 V	114766	1/4	O	30	25 x 25	1 x 1	37,500	10	410
	A24 6 AR 60 O 5 V	117316	6	O	60	6 x 19	1/4 x 3/4	117,400	10	105
	A24 6 AR 100 O 5 V	117309	6	O	100	6 x 19	1/4 x 3/4	117,400	10	105
	A24 1/4 AR 60 O 5 V	114803	1/4	O	60	6 x 19	1/4 x 3/4	117,400	10	105

Mounted Points, Special Shapes

Series A

	Order No.	EAN 4007220	Shank dia. [mm] [inch]	Hard- ness	Grit size	D x T [mm]	D x T [inch]	Max. speed [RPM]		
	A25 6 AR 30 O 5 V	117323	6	O	30	25	1	37,500	10	350
	A25 1/4 AR 30 O 5 V	114810	1/4	O	30	25	1	37,500	10	350
	A26 6 AR 30 O 5 V	117330	6	O	30	16	5/8	60,000	10	160
	A31 6 ADW 30 M 5 V	117347	6	M	30	35 x 25	1 3/8 x 1	27,300	5	230
	A34 6 AR 30 O 5 V	117385	6	O	30	38 x 10	1 1/2 x 3/8	25,000	5	210
	A36 6 AR 60 O 5 V	117415	6	O	60	41 x 10	1 5/8 x 3/8	23,100	5	180
	A36 1/4 AR 60 O 5 V	114902	1/4	O	60	41 x 10	1 5/8 x 3/8	32,100	5	180
	A37 6 AR 60 O 5 V	117422	6	O	60	32 x 6	1 1/4 x 1/4	30,000	5	112
	A37 1/4 AR 60 O 5 V	114919	1/4	O	60	32 x 6	1 1/4 x 1/4	30,000	5	112

Series B

	Order No.	EAN 4007220	Shank dia. [mm] [inch]	Hard- ness	Grit size	D x T [mm]	D x T [inch]	Max. speed [RPM]		
	B43 3 AR 100 O 5 V	117453	3	O	100	6 x 8	1/4 x 5/16	149,200	10	26
	B44 3 AR 100 O 5 V	117460	3	O	100	6 x 10	7/32 x 3/8	141,100	10	24
	B45 3 AR 100 O 5 V	117477	3	O	100	5 x 8	3/16 x 5/16	181,900	10	23
	B46 3 AR 100 O 5 V	117484	3	O	100	3 x 8	1/8 x 5/16	267,100	10	20
	B51 3 AR 80 O 5 V	117507	3	O	80	11 x 19	7/16 x 3/4	63,600	10	60
	B52 3 AR 46 O 5 V	117514	3	O	46	10 x 19	3/8 x 3/4	66,200	10	60
	B52 3 AR 80 O 5 V	117521	3	O	80	10 x 19	3/8 x 3/4	66,200	10	60
	B53 3 AR 60 O 5 V	117545	3	O	60	6 x 16	1/4 x 5/8	149,200	10	28
	B53 3 AR 100 O 5 V	117538	3	O	100	6 x 16	1/4 x 5/8	149,200	10	28
	B54 3 AR 60 O 5 V	117569	3	O	60	6 x 13	1/4 x 1/2	101,500	10	30
	B54 3 AR 100 O 5 V	117552	3	O	100	6 x 13	1/4 x 1/2	101,500	10	30

Mounted Points, Special Shapes

Series B

	Order No.	EAN 4007220	Shank dia. [mm] [inch]	Hard- ness	Grit size	D x T [mm]	D x T [inch]	Max. speed [RPM]		
	B55 3 AR 100 O 5 V	117576	3	O	100	3 x 6	1/8 x 1/4	257,000	10	20
	B61 3 AR 80 O 5 V	117590	3	O	80	19 x 8	3/4 x 5/16	45,000	10	72
	B63 3 AR 100 O 5 V	117620	3	O	100	6 x 5	1/4 x 3/16	149,200	10	24
	B64 3 AR 100 O 5 V	117637	3	O	100	6 x 2	1/4 x 1/16	149,200	10	20
	B65 3 AR 100 O 5 V	117644	3	O	100	3 x 3	1/8 x 1/8	277,700	10	18
	B69 3 AR 100 O 5 V	117668	3	O	100	8 x 2	5/16 x 1/16	120,800	10	22
	B70 3 AR 100 O 5 V	117675	3	O	100	19 x 3	3/4 x 1/8	49,900	10	43
	B71 3 AR 100 O 5 V	117682	3	O	100	16 x 2	5/8 x 3/32	60,000	10	32
	B72 3 AR 100 O 5 V	117699	3	O	100	13 x 3	1/2 x 1/8	75,100	10	32
	B73 3 AR 100 O 5 V	117705	3	O	100	13 x 3	1/2 x 1/8	75,100	10	30
	B81 3 AR 60 O 5 V	117729	3	O	60	19 x 8	3/4 x 5/16	49,900	10	43
	B81 3 AR 100 O 5 V	117712	3	O	100	19 x 8	3/4 x 5/16	49,900	10	43
	B82 3 AR 100 O 5 V	117736	3	O	100	13 x 6	1/2 x 1/4	75,100	10	30
	B84 3 AR 100 O 5 V	117750	3	O	100	8 x 5	5/16 x 3/16	120,800	10	26
	B92 3 AR 100 O 5 V	117767	3	O	100	6 x 6	1/4 x 1/4	149,200	10	24
	B95 3 AR 100 O 5 V	117798	3	O	100	3 x 5	1/8 x 3/16	260,300	10	20
	B96 3 AR 100 O 5 V	117804	3	O	100	3 x 6	1/8 x 1/4	236,100	10	20
	B96 1/8 AR 100 O 5 V	115435	1/8	O	100	3 x 6	1/8 x 1/4	236,100	10	20

Mounted Points, Special Shapes

Series B

	Order No.	EAN 4007220	Shank dia. [mm] [inch]	Hard- ness	Grit size	D x T [mm]	D x T [inch]	Max. speed [RPM]		
	B97 3 AR 100 O 5 V	117811	3	O	100	2 x 10	3/32 x 3/8	107,300	10	18
	B98 3 AR 100 O 5 V	117828	3	O	100	2 x 6	3/32 x 1/4	168,300	10	18
	B102 3 AR 80 O 5 V	117842	3	O	80	16 x 13	5/8 x 1/2	46,400	10	50
	B103 3 AR 80 O 5 V	117866	3	O	80	16 x 5	5/8 x 3/16	60,000	10	45
	B104 3 AR 80 O 5 V	117873	3	O	80	8 x 10	5/16 x 3/8	104,500	10	40
	B105 3 AR 100 O 5 V	117880	3	O	100	6 x 6	1/4 x 1/4	149,200	10	22
	B106 3 AR 100 O 5 V	117897	3	O	100	3 x 2	1/8 x 7/64	295,600	10	18
	B111 3 AR 80 O 5 V	117910	3	O	80	11 x 17	7/16 x 11/16	47,700	10	60
	B112 3 AR 80 O 5 V	117934	3	O	80	10 x 13	3/8 x 1/2	73,400	10	42
	B114 3 AR 100 O 5 V	117958	3	O	100	6 x 10	7/32 x 3/8	136,900	10	26
	B115 3 AR 100 O 5 V	117965	3	O	100	2 x 3	3/32 x 1/8	299,400	10	18
	B121 3 AR 46 O 5 V	117972	3	O	46	13	1/2	56,200	10	54
	B122 3 AR 46 O 5 V	117996	3	O	46	10	3/8	90,200	10	34
	B122 3 AR 80 O 5 V	118009	3	O	80	10	3/8	90,200	10	34
	B123 3 AR 100 O 5 V	118016	3	O	100	5	3/16	198,900	10	20
	B123 1/8 AR 100 O 5 V	115701	1/8	O	100	5	3/16	198,900	10	20
	B124 3 AR 100 O 5 V	118023	3	O	100	3	1/8	291,800	10	18
	B125 3 AR 100 O 5 V	118030	3	O	100	6	1/4	149,200	10	40
	B125 1/8 AR 100 O 5 V	115732	1/8	O	100	6	1/4	149,200	10	40

Mounted Points, Special Shapes



Sharpening Stones for Chain Saws

Sharpening stones for chain saws



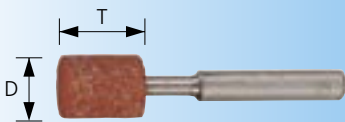
These sharpening stones are used for machine-sharpening of chain saws.

Chain saw sharpening stones have a 1/8-40 UNC threaded shank for mounting in power tools. They can also be mounted in a 1/8" dia. collet.

Order No.	EAN 4007220	Shank dia. [inch]	D [mm]	D [inch]	Max. speed [RPM]		
ZY 4.015 1/8 AW 60 P V 4.0	098318	1/8	4.0	5/32	126,600	25	80
ZY 4.817 1/8 AW 60 P V 4.8	098325	1/8	4.8	3/16	109,100	25	85
ZY 5.519 1/8 AW 60 P V 5.5	098332	1/8	5.5	7/32	97,000	25	90

Mounted Points for Grinding Threading Dies

Mounted points for grinding threading dies



These mounted points are ideally suited for regrinding all types of H.S.S. cutting tools, e.g., threading dies.



Mounted points for grinding threading dies are based on aluminium oxide in a vitrified bond. They come in grit sizes and hardnesses matched to the individual diameter, mounted on a 6 mm dia. stepped shank.

Application

- Resharpener of threading dies
- Reconditioning H.S.S. form turning tools
- Drill tip sharpening
- Regrinding chip breakers on H.S.S. tools

Safety note

The maximum permissible tool speed (RPM) relates to the specified minimum clamp depth of 10 mm.

Order No.	EAN 4007220	Shank dia. [mm]	D x T [mm]	Max. speed [RPM]		
702 6 AR 100 MO V	098370	6	2 x 5	201,800	10	80
703 6 AR 100 MO V	098387	6	3 x 8	152,500	10	80
704 6 AR 100 MO V	098394	6	4 x 8	177,400	10	80
705 6 AR 80 MO V	098400	6	5 x 8	190,900	10	80
706 6 AR 80 MO V	098417	6	6 x 10	159,100	10	80
707 6 AR 80 MO V	098424	6	7 x 10	136,400	10	90
708 6 AR 80 MO V	098431	6	8 x 12	119,300	10	97
709 6 AR 80 MO V	098448	6	9 x 12	106,100	10	100
710 6 AR 80 M V	098455	6	10 x 12	95,400	10	105
712 6 AR 80 M V	098479	6	12 x 15	79,500	10	130

Hand Dressers, Whetstone

Dressing Stones

Dressing stones

400 C



Dressing stone 400 C



This coarse dressing stone (30 grit) is ideal for rough dressing work. Its anti-slip rubber backing provides a firm grip and protects the support surfaces.

Dressing stone SE 1203050 (not shown)

Dressing stone with two grit sizes. Top (coarse): Profiling and sharpening of large mounted points with coarse bond and grit properties. Bottom (fine): Profiling and dressing of mounted points with fine bond and grit (including PFERD Poliflex®, refer to catalogue 204).

Dressing stone SE 702212 (not shown)

For small mounted points.



Order No.	EAN 4007220	Dimension [mm]		
400 C	103500	120 x 30 x 50	5	2,400
SE 1203050 CU 30/60 R 5 V	505687	120 x 30 x 50	5	2,200
SE 702212 C 46 M 5 V	114445	70 x 22 x 12	5	220

Diamond Dresser

Diamond dresser



Long-life dressing stick with diamond tip for profiling and dressing mounted points and Poliflex® abrasive tools (refer to catalogue 204).



Order No.	EAN 4007220	Dimension [mm]		
400 B	103494	81 x 6	1	20

Whetstone

Whetstone



Whetstones are used for sharpening scythes, sickles and other cutting tools and implements.

Order No.	EAN 4007220	Dimension [mm]		
S 250	103517	250 x 35 x 12	10	1,500

Assortments of Mounted Points

Assortments of Mounted Points

Mounted point sets



Mounted point set 2001

These hardness "O" tools with 6 mm shank dia. are noted for their outstanding versatility, dimensional stability and edge-holding properties.

The set contains 10 mounted points of various shapes and sizes.

Contents:

One each of the following

ZY 1013, ZY 1320, ZY 2006, ZY 2013, ZY 2025, KU 16, WR 2025, WK 2025, SP 1320, KE 2020.

Mounted point set 2002

This set comprises small mounted points, hardness "O", with 3 mm shank dia., universally suitable for many fine-grinding tasks. It includes the most common shapes and sizes.

Contains 15 mounted points in various shapes and dimensions.

Contents:

Two each of the following:



ZY 0510, ZY 0810, ZY 1604.

One each of the following:

ZY 0408, ZY 0613, ZY 0802, ZY 1013, ZY 1303, WR 0510, KU 05, SP 0306, SP 0816.

Recommendation for use

Recommended peripheral speed: 15-40 m/s.

Order No.	EAN 4007220	Hardness	Grit size	Shank dia. [mm]		
2001	114469	O	coarse	6	1	390
2002	114476	O	fine	3	1	100

Assortments of mounted points



Assortment of mounted points SSO 5300

High-performance mounted points, hardness "M" with 6 mm shank, in a sales promoting display carton for (self-service) retail use. The choice of types reflects the most common applications.

Contents:

100 mounted points with 6 mm shank dia. hardness "M", coarse grit.

10 pcs. per type

ZY 1620, ZY 2025, ZY 2506, ZY 2532, ZY 3216, ZY 3232, ZY 4020, SP 2032, KE 2032, KE 2570

Assortment of mounted points SSO 5301



Mounted points in a sales-promoting display carton for over-the-counter or self-service retail environments.

Contents:

At least 100 pcs. in various sizes, head shapes, hardness levels and grit sizes, 3 mm and 6 mm shank dia.

Recommendation for use

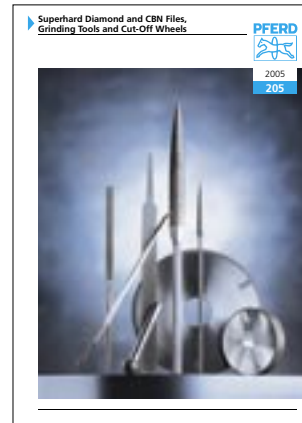
Recommended peripheral speed: 25-50 m/s.

Order No.	EAN 4007220	Hardness	Grit size	Shank dia. [mm]		
SSO 5300	114513	M	coarse	6	1	5,200
SSO 5301	597088	various	various	3 + 6	1	5,115



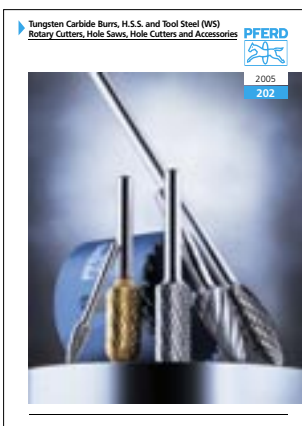
Catalogue 201

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



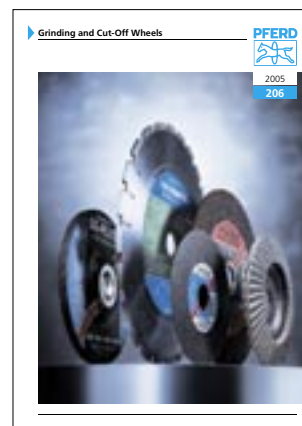
Catalogue 205

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



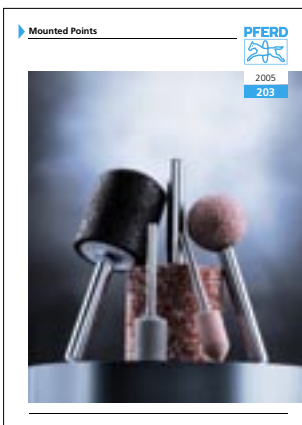
Catalogue 202

Tungsten Carbide Burrs,
H.S.S. and Tool Steel (WS)
Rotary Cutters, Hole Saws,
Hole Cutters and Accessories



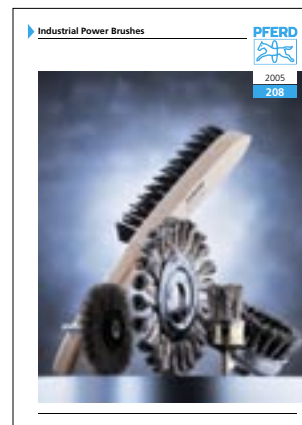
Catalogue 206

Grinding and Cut-Off Wheels



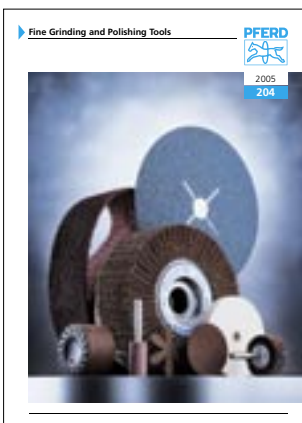
Catalogue 203

Mounted Points



Catalogue 208

Industrial Power Brushes



Catalogue 204

Fine Grinding and
Polishing Tools



Catalogue 209

Tool Drives

Subject to technical modifications.

05/2005

833 103

