

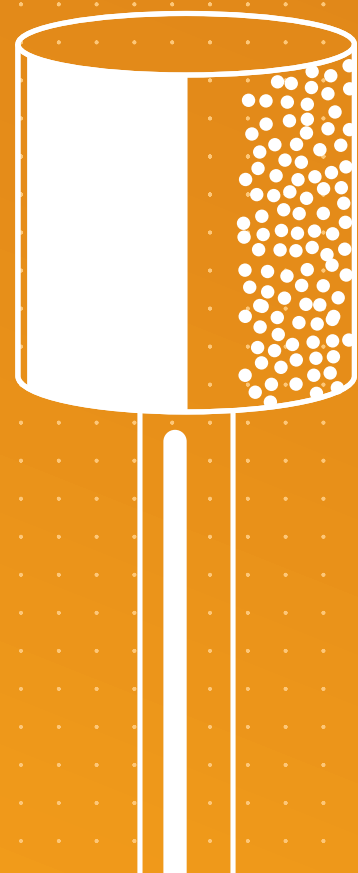
Mounted points

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106	Mounted points
130	Mounted points, tailor-made solution



Product line marking

Product lines are labelled in the table header with the appropriate tabs. Further information on page **14** and **15**.



Technical Information

Grit sizes, ISO 525

Coarse	4, 5, 6, 7, 8, 10, 12, 14, 16, 20, 24
Medium	30, 36, 46, 54, 60
Fine	70, 80, 90, 100, 120, 150, 180, 220
Very fine	230, 240, 280, 320, 360, 400, 500

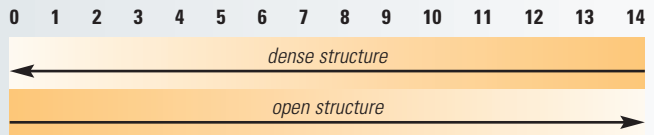
Hardness grade, ISO 525

The hardness is a measure of the strength with which the grits are retained by the bond. It is determined by special measuring instruments. The grades are indicated by letter. The hardness increases in alphabetical order.

extreme soft	very soft	soft	medium	hard	very hard	extreme hard
A	E	H	L	P	T	X
B	F	I	M	Q	U	Y
C	G	Jot	N	R	V	Z
D		K	O	S	W	

Structure

The structure of grinding wheels is determined by the ratio of pore volume to the volume of grit and bond. The international standardized structure numbers start with 0 and end with 14.



Bond

The bond retains the grit in the grinding wheel. The most important bonds are ISO 525:

Vitrified bond

V = vitrified bond

The figure behind the bonding code is a company-internal reference.

Organic bonds

Ba = resin bond

BF = resin bond, reinforced

R = rubber bond or other elastomers

RF = rubber bond, reinforced

Impregnation

The impregnation of vitrified bonds considerably improves the performance of the mounted points when grinding certain steels.

Su = with sulphur

Lu = with resin

W = with wax

F = with grinding oil

Description of Mounted points

Shape	Diameter	Length	Shank	Abrasive	Grit size	Hardness	Bond
ZY	1632	06	EKR		46	N	V4

Technical Information

Quality

The wide range of abrasive applications, from snagging to polishing, demands mounted points that meet the requirements of stock removal, surface finish and tool life. The crucial formulation of the mounted point quality results from a combination of the technical

application and selection of the most suitable raw materials. The following tables state the type of raw materials used in LUKAS mounted points.

Abrasives

<p>NK</p>  <p>Aluminum oxide</p>	<p>EKR</p>  <p>Aluminum oxide pink</p>	<p>EKW</p>  <p>Aluminum oxide white</p>	<p>EKD</p>  <p>Aluminum oxide dark red</p>
<p>EKbr</p>  <p>Standard aluminum oxide pink, type brown</p>	<p>MK</p>  <p>Mixture EKR/NK</p>	<p>HK</p>  <p>Mixture EKW/NK</p>	<p>HKD</p>  <p>Mixture EKW/EKD</p>
<p>MKD</p>  <p>Mixture NK/EKD</p>	<p>RKD</p>  <p>Mixture EKD/EKR</p>	<p>SiC-ALU</p>  <p>Silicon carbide green</p>	<p>SiCdkl</p>  <p>Silicon carbide dark</p>
<p>NDW</p>  <p>Mixture NK/EKD/EKK white</p>	<p>CERAMIC</p>  <p>Mixture of ceramic grain and monocystal aluminium oxide</p>	<p>HOK</p>  <p>Mixture aluminium oxide hollow ball</p>	

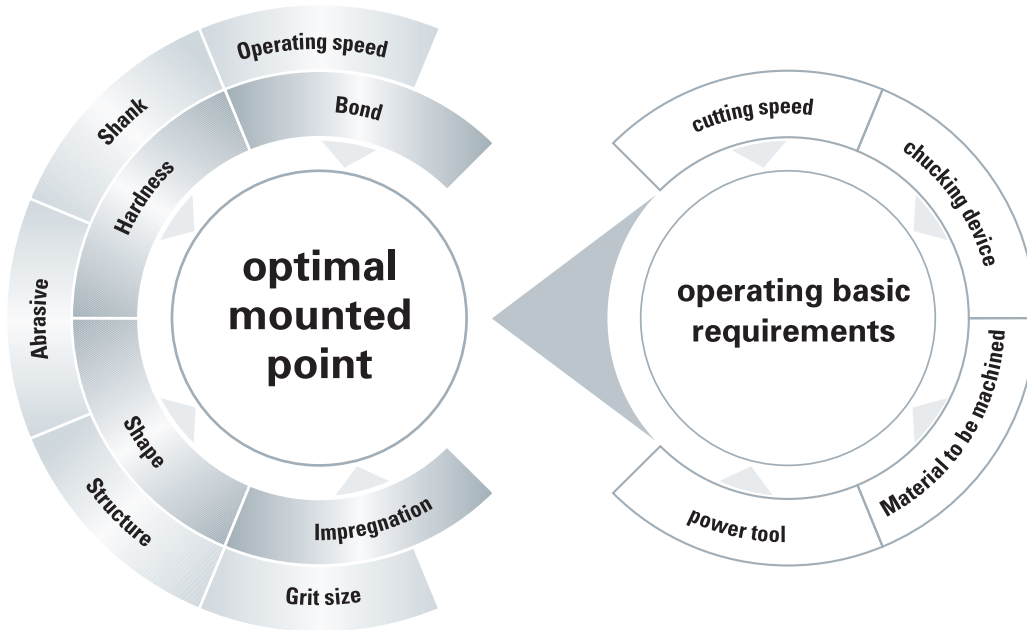
Qualities and areas of application

From the large variety of specifications we have selected various dimensions and shapes in well-proven standard qualities for you. These mounted points are available ex-stock.

			Materials								
best suitable suitable	Reference/ Qualities	Cutting speed vc [m/s]	1	2	3	4	5	6	7	8	9
			steels and cast steels	alloyed, tempered steels	tool steels	rust, acid and heat resistant steels and cast steels	cast iron	aluminium, magnesium and copper alloys	titanium and nickel alloys	plastics, wood, rubber	glass, carbides
	EKR aluminium oxide pink	ca. 30 - 50									
	EKWbr aluminium oxide white, type brown	ca. 25 - 40									
	RKD mixture aluminium oxide deep red / aluminium oxide pink	ca. 30 - 50									
	NK-BA-soft aluminium oxide resin bonded iron and sulphur free	ca. 40 - 50									
	NK-BA-hard aluminium oxide resin bonded	ca. 40 - 50									
	HK mixture aluminium oxide white / aluminium oxide	ca. 40 - 50									
	MK mixture aluminium oxide pink / aluminium oxide	ca. 30 - 50									
	NDW mixture aluminium oxide, aluminium oxide dark red and mono cristall aluminium oxide white	ca. 10 - 30									
	CERAMIC Mixture of ceramic grain and monocrystal aluminium oxide	ca. 30 - 50									
	EKW aluminium oxide white	ca. 20 - 35									
	EKbr aluminium oxide pink, type brown	ca. 40 - 50									
	SiC-ALU silicon carbide green	ca. 25 - 40									
	HOK mixture aluminium oxide hollow ball	ca. 5 - 20									

These quality recommendations apply only when optimum application conditions are used.


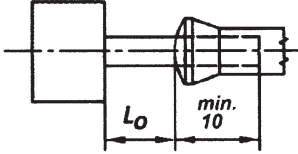


Choice of the optimal grinding tool



Speeds for grinding tools

		Recommended cutting speed v_c [m/s]							
		5	10	20	30	40	50	63	80
		Rotational speed [min ⁻¹]							
Tool-diameter [mm]	2	47.700	95.500	191.000	286.500	382.000	477.500	601.600	763.900
	3	31.800	63.700	127.300	191.000	254.600	318.300	401.100	509.300
	4	23.900	47.700	95.500	143.200	191.000	238.700	300.800	382.000
	5	19.100	38.200	76.400	114.600	152.800	191.000	240.600	305.600
	6	15.900	31.800	63.700	95.500	127.300	159.200	200.500	254.600
	8	11.900	23.900	47.700	71.600	95.500	119.400	150.400	191.000
	10	9.500	19.100	38.200	57.300	76.400	95.500	120.300	152.800
	13	7.300	14.700	29.400	44.100	58.800	73.500	92.600	117.500
	20	4.800	9.500	19.100	28.600	38.200	47.700	60.200	76.400
	25	3.800	7.600	15.300	22.900	30.600	38.200	48.100	61.100
	32	3.000	6.000	11.900	17.900	23.900	29.800	37.600	47.700
	40	2.400	4.800	9.500	14.300	19.100	23.900	30.100	38.200
	50	1.900	3.800	7.600	11.500	15.300	19.100	24.100	30.600
	60	1.600	3.200	6.400	9.500	12.700	15.900	20.100	25.500
	80	1.200	2.400	4.800	7.200	9.500	11.900	15.000	19.100
100	1.000	1.900	3.800	5.700	7.600	9.500	12.000	15.300	

Safety instructions

Schleifkörper keramisch Brousicí tělíska keramická Mounted points - vitrified Muelas cerámicas Meule vitrifiée												
A200002032602 ZY 2032.06 EKR 36 N V4												
Stück pcs.	20	FA1334200										
  EN 12413			<table border="1"> <thead> <tr> <th>L₀(mm)</th> <th>max. rpm</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>40.600</td> </tr> <tr> <td>15</td> <td>34.500</td> </tr> <tr> <td>20</td> <td>29.700</td> </tr> </tbody> </table>		L ₀ (mm)	max. rpm	10	40.600	15	34.500	20	29.700
			L ₀ (mm)	max. rpm								
10	40.600											
15	34.500											
20	29.700											

Peripheral speeds, safety

Our mounted points are manufactured with state of the art technology for high peripheral speed and the safety is well in accordance with the EN 12413.

We produce mounted points, vitrified and resin bonded, for a maximum peripheral operating speeds of 50 m/s.

These maximum operating speeds are limited by the following criteria:

1. The mass (weight) of the mounted point
2. The shape of the mounted point
3. The shank diameter
4. The overhang of the shank
5. The shank material
6. The run-out of the mounted point

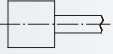

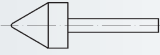
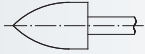

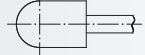

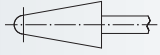






The safety aspect of a grinding wheel is of paramount importance.

When using and storing Mounted Points, note must be taken without fail of the safety-regulations and regulations for prevention of accidents, including the FEPA-safety recommendations.

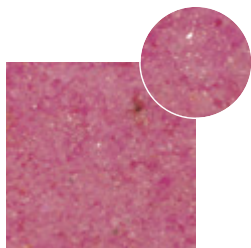
We enclose a safety ticket with all our deliveries, as illustrated above. The maximum speeds shown on these safety tickets refer to the overhang length (open shank length L_0) of the shank i.e. 10, 15 and 20 mm respectively.

No raw materials used in our grinding wheels are a hazard to health and safety.

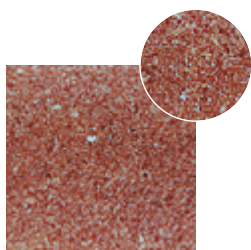
A summary of available shapes

Shape	Type	Shape (Lukas)	Page
	Cylindrical, Typ 1	ZY	106
	Cylindrical, Typ 2	ZY2	112
	Cylindrical pointed nose	WKS	113
	Arch pointed nose	SP	113
	Spherical	KU	115
	Cylindrical round nose	WR	115
	Cup	TO	117
	Conical round nose	KE	117
	American shapes	A	118
	American shapes	B	120
	Miniature-Mounted points	D	120
	Handstones	–	124
	Mounted points, assortments	–	125
	Power Tools	–	373

Qualities:



EKR
aluminium oxide pink



EKWbr
aluminium oxide white,
type brown

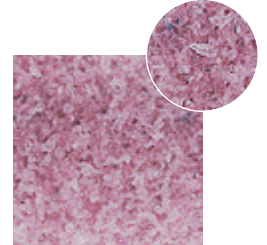


General Information

Properties of workpiece material:	Mounted points in various qualities are needed to cover the wide spectrum of the numerous steel types and their resulting workpieces.	
Industries:	<ul style="list-style-type: none"> • Machine tools • Automotive • Equipment manufacturers 	<ul style="list-style-type: none"> • Vessel manufacturers • Shipyards • and much more
Examples of application:	<ul style="list-style-type: none"> • General rough grinding • Fettling 	<ul style="list-style-type: none"> • Rough grinding of weld seams • Finish grinding of weld seams
LUKAS-grinding tools:	The wide selection of LUKAS grinding tools incorporates numerous shapes, sizes and qualities. You will find the correct tool from our standard range to solve most grinding problems irrespective of material to be ground, type of machine or any other influencing factors. These mounted points are designed for high stock removal and long tool life.	

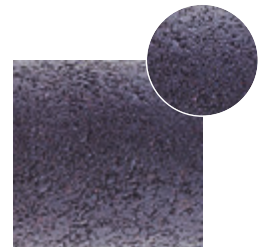


Qualities:



RKD

mixture aluminium oxide
deep red / aluminium
oxide pink



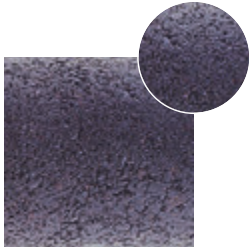
NK-BA-soft

aluminium oxide resin
bonded iron and
sulphur free

General Information

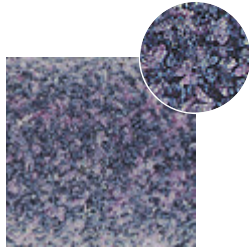
<p>Properties of workpiece material:</p>	<p>Alloyed steels i.e., non-rusting steels are included in the materials which are difficult to machine. They tend to “smear” due to the nickel content, and as a result of poor heat dissipation causes overheating of the material within the grinding contact zone.</p>	
<p>Industries:</p>	<ul style="list-style-type: none"> • Steel construction and fabrication (facades, railings, sanitary equipment) • Vessel manufacturing • Casings and panelling 	<ul style="list-style-type: none"> • Medical technology • Shipyards • Food industry • and much more
<p>Examples of application:</p>	<ul style="list-style-type: none"> • Rough and finish grinding • Deburring • Fettling 	<ul style="list-style-type: none"> • Removing weld seams • Surface finishing
<p>LUKAS-grinding tools:</p>	<p>LUKAS has developed particular high performance qualities for alloyed steels distinguished by exceptional stock removal despite operating under difficult conditions. These tools contain no iron, no sulphur and no halogens; a chemical reaction (corrosion) of the workpiece material in the grinding contact zone is generally therefore avoided.</p>	

Qualities:



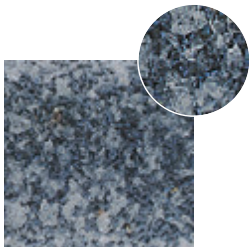
NK Ba-hard

aluminium oxide
resin bonded



MK

mixture aluminium oxide
pink / aluminium oxide



HK

mixture aluminium oxide
white / aluminium oxide

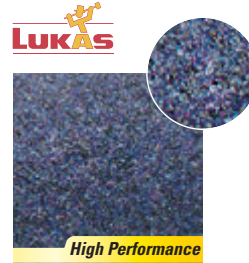


General Information

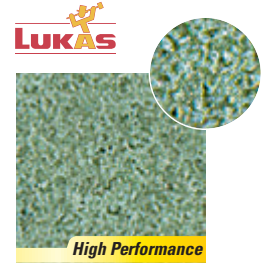
<p>Properties of workpiece material:</p>	<p>The characteristics of the various types of cast materials are normally determined by their carbon content, and the way in which the carbon is removed from the material structure.</p> <p>Cast components are generally “rough” machined. The skin contains inclusions of sand from the casting process; large burrs, runners and risers, holes and cracks must all be removed by grinding. These areas to be ground are often somewhat inaccessible.</p>
<p>Industries:</p>	<ul style="list-style-type: none"> • Manufacturers of cast components i.e. engine blocks, gear box casings, cylinder heads, frames, stands, machine slides, gears, crankshafts, pump and turbine housings, machine tool components • and much more
<p>Examples of application:</p>	<ul style="list-style-type: none"> • Deburring • Fettling • Removing holes and cracks • Finish grinding of repair welds • Polishing
<p>LUKAS-grinding tools:</p>	<p>The LUKAS mounted points specifically formulated to grind cast materials contain special grain combinations and tough bonding systems; such qualities give optimum performance for the applications mentioned above.</p> <p>The aggressiveness of the abrasive grain and the smooth running of the mounted points allow for an ergonomic method of machining requiring minimum force. Mounted points with specially extended shafts are also available on request.</p>



Qualities:



NDW
mixture aluminium oxide, aluminium oxide dark red and mono crystal aluminium oxide white



CERAMIC
Mixture of ceramic grain and monocrystal aluminium oxide



EKbr
aluminium oxide pink, type brown



EKW
aluminium oxide white

General Information

Properties of workpiece material:	Precision is a major factor in the tool and mould industry. Tool steels are selected with the appropriate hardness and toughness to suit the application; special mounted point qualities are therefore essential to achieve the tight tolerances required.
Industries:	<ul style="list-style-type: none"> • Toolmakers • Pattern shops • Mould manufacturers • Aerospace
Examples of application:	<ul style="list-style-type: none"> • Re-grinding • Groove grinding • Fine deburring • Finish grinding • Lapping • Coordinate grinding • Ball bearing grinding • Turbine blades
LUKAS-grinding tools:	LUKAS mounted points for tool and mould & die are extremely dimensionally stable and can cut even the hardest materials. Ceramic abrasive grit is extremely friable due to its microcrystal structure. This makes it self-sharpening. Therefore materials which are difficult to cut (e.g. nickel-based alloys) can be machined without any problems. Moreover, the use of special grain qualities ensures a long service life. Our broad and varied range enables you to work in even the narrowest of spaces.

Quality:



SIC-ALU

silicon carbide green



General Information

<p>Properties of workpiece material:</p>	<p>Aluminium and its associated alloys have many varied and positive characteristics making it the second most widely used metal after steel.</p> <p>Aluminium has only 1/3 the density of steel. The purer the metal, the weaker it becomes but allows for better shape forming. Unsuitable mounted point qualities are often used which “load”.</p>	
<p>Industries:</p>	<ul style="list-style-type: none"> • Transport (railways, ships, automotive, aerospace) • Metal construction (bridges, cranes, silos) 	<ul style="list-style-type: none"> • Chemical industry (vessels, pumps, pipes) • Equipment manufacturing • Engine, transmission parts • and much more
<p>Examples of application:</p>	<ul style="list-style-type: none"> • Deburring • Fettingling 	<ul style="list-style-type: none"> • Re-working • Surface finishing
<p>LUKAS-grinding tools:</p>	<p>The LUKAS mounted points in the quality SIC – ALU have been developed solely for this application. Due to a special structure, maximum tool life is achieved whilst preventing “loading” of material within the pores. The self-dressing effect is aided by the use of a special impregnation.</p>	



Quality:



HOK
mixture aluminium
oxide hollow ball

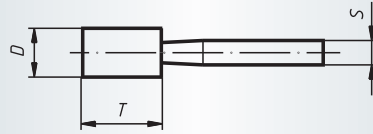
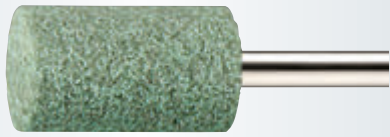
General Information

Properties of workpiece material:	Materials such as rubber or plastic are very elastic and have a very low melting point. They flex and generate heat; this often results in a bad odour and loading.	
Industries:	<ul style="list-style-type: none"> • Machining rubber • Machining plastic 	
Examples of application:	<ul style="list-style-type: none"> • Tyre repair and re-vulcanizing • Repair of conveyor belts 	<ul style="list-style-type: none"> • Preparation of various areas for adhesion • Deburring of rubber or plastic components
LUKAS-grinding tools:	LUKAS abrasive tools for the machining of rubber and plastic contain a special hollow grain (HOK) in a very open ceramic structure. This abrasive media creates permanent small razor-sharp cutting edges which pluck-out the material from the surface. Consequently, these tools are ideally suited for the machining applications as illustrated.	



Shape ZY, Cylinder, Type 1 (according to DIN 69170)

Ordering example: A200000408377



Packing unit:

20 pcs. per type

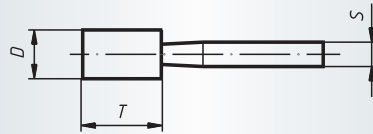
Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for	
NEW ZY 0408.03	CERAMIC 80 L V118	4	8	3 x 30	A200000408377	② ③ ④ ⑦	■
NEW ZY 0510.03	CERAMIC 80 L V118	5	10	3 x 30	A200000510377	② ③ ④ ⑦	■
NEW ZY 0613.03	CERAMIC 80 L V118	6	13	3 x 30	A200000613377	② ③ ④ ⑦	■
NEW ZY 1020.06	CERAMIC 80 L V118	10	20	6 x 40	A200001020677	② ③ ④ ⑦	■
NEW ZY 1325.06	CERAMIC 46 L V118	13	25	6 x 40	A200001325677	② ③ ④ ⑦	■
NEW ZY 1632.06	CERAMIC 46 L V118	16	32	6 x 40	A200001632677	② ③ ④ ⑦	■
NEW ZY 2032.06	CERAMIC 46 L V118	20	32	6 x 40	A200002032677	② ③ ④ ⑦	■



Shape ZY, Cylinder, Type 1 (according to DIN 69170)

Ordering example: A200000306353



Packing unit:

20 pcs. per type

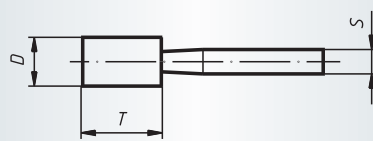
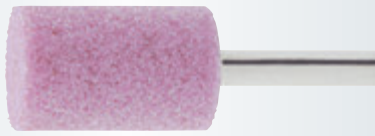
Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for	
ZY 0306.03	NDW 100 QU V115	3	6	3 x 50	A200000306353	② ③	■
ZY 0306.03	NDW 100 QU V115	3	6	3 x 30	A2000003063530001	② ③	■
ZY 0408.03	NDW 100 QU V115	4	8	3 x 50	A200000408353	② ③	■
ZY 0408.03	NDW 100 QU V115	4	8	3 x 30	A2000004083530001	② ③	■
ZY 0610.03	NDW 100 QU V115	6	10	3 x 50	A200000610353	② ③	■
ZY 0610.03	NDW 100 QU V115	6	10	3 x 30	A2000006103530001	② ③	■
ZY 0810.03	NDW 100 QU V115	8	10	3 x 50	A200000810353	② ③	■
ZY 0810.03	NDW 100 QU V115	8	10	3 x 30	A2000008103530001	② ③	■
ZY 1013.03	NDW 100 QU V115	10	13	3 x 50	A200001013353	② ③	■
ZY 1013.03	NDW 100 QU V115	10	13	3 x 30	A2000010133530001	② ③	■



Shape ZY, Cylinder, Type 1 (according to DIN 69170)

Ordering example: A200000306602



Packing unit:

20 pcs. per type

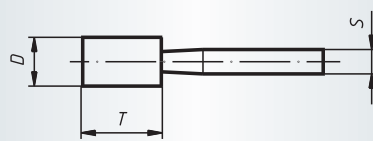
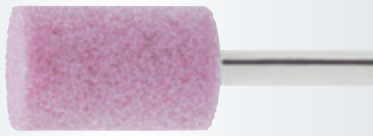
Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for															
ZY 0306.06	EKR 100 N V4	3	6	6 x 40	A200000306602	1	2	3													
ZY 0306.06	RKD 120 QU V21	3	6	6 x 40	A200000306647		2	3	4												
ZY 0408.03	EKR 80 N V4	4	8	3 x 30	A200000408302	1	2	3													
ZY 0408.03	EKR 100 QU V4	4	8	3 x 30	A2000004083020001	1	2	3													
ZY 0408.03	EKWBR 80 O/P V7	4	8	3 x 30	A200000408312	1	2														
ZY 0408.03	RKD 100 QU V21	4	8	3 x 30	A200000408347		2	3	4												
ZY 0408.06	EKR 80 N V4	4	8	6 x 40	A200000408602	1	2	3													
ZY 0408.06	RKD 100 QU V21	4	8	6 x 40	A200000408647		2	3	4												
ZY 0510.03	EKR 80 N V4	5	10	3 x 30	A200000510302	1	2	3													
ZY 0510.03	EKR 80/100 QU V4	5	10	3 x 30	A2000005103020001	1	2	3													
ZY 0510.03	EKWBR 80 O/P V7	5	10	3 x 30	A200000510312	1	2														
ZY 0510.03	RKD 100 QU V21	5	10	3 x 30	A200000510347		2	3	4												
ZY 0510.06	EKR 80 N V4	5	10	6 x 40	A200000510602	1	2	3													
ZY 0510.06	RKD 100 QU V21	5	10	6 x 40	A200000510647		2	3	4												
ZY 0610.03	EKR 60 N V4	6	10	3 x 30	A200000610302	1	2	3													
ZY 0610.03	EKWBR 60 O/P V7	6	10	3 x 30	A200000610312	1	2														
ZY 0610.03	RKD 80 QU V21	6	10	3 x 30	A200000610347		2	3	4												
ZY 0610.06	EKR 60 N V4	6	10	6 x 40	A200000610602	1	2	3													
ZY 0610.06	RKD 80 QU V21	6	10	6 x 40	A200000610647		2	3	4												
ZY 0610.06	EKW 80 L V1	6	10	6 x 40	A200000610608			3						7		9					
ZY 0810.03	EKR 60 N V4	8	10	3 x 30	A200000810302	1	2	3													
ZY 0810.03	EKR 60/80 QU V4	8	10	3 x 30	A2000008103020001	1	2	3													
ZY 0810.03	EKWBR 60 O/P V7	8	10	3 x 30	A200000810312	1	2														
ZY 0810.03	RKD 80 QU V21	8	10	3 x 30	A200000810347		2	3	4												
ZY 0810.06	EKR 60 N V4	8	10	6 x 40	A200000810602	1	2	3													
ZY 0810.06	RKD 80 QU V21	8	10	6 x 40	A200000810647		2	3	4												
ZY 0810.06	EKW 80 L V1	8	10	6 x 40	A200000810608			3						7		9					
ZY 0816.03	EKR 60 N V4	8	16	3 x 30	A200000816302	1	2	3													
ZY 0816.03	EKWBR 60 O/P V7	8	16	3 x 30	A200000816312	1	2														
ZY 0816.03	RKD 80 QU V21	8	16	3 x 30	A200000816347		2	3	4												
ZY 0816.06	EKR 60 N V4	8	16	6 x 40	A200000816602	1	2	3													
ZY 0816.06	RKD 80 QU V21	8	16	6 x 40	A200000816647		2	3	4												
ZY 0820.06	EKR 60 N V4	8	20	6 x 40	A200000820602	1	2	3													
ZY 1010.03	EKR 60 N V4	10	10	3 x 30	A200001010302	1	2	3													
ZY 1010.03	EKR 60/80 QU V4	10	10	3 x 30	A2000010103020001	1	2	3													
ZY 1010.03	EKWBR. 60 O/P V7	10	10	3 x 30	A200001010312	1	2														
ZY 1010.03	RKD 80 P V21	10	10	3 x 30	A200001010347		2	3	4												
ZY 1010.06	EKR 60 N V4	10	10	6 x 40	A200001010602	1	2	3													
ZY 1010.06	RKD 80 P V21	10	10	6 x 40	A200001010647		2	3	4												
ZY 1010.06	EKW 60 L V1	10	10	6 x 40	A200001010608			3						7		9					
ZY 1013.03	EKR 60 N V4	10	13	3 x 30	A200001013302	1	2	3													
ZY 1013.03	EKWBR 60 O/P V7	10	13	3 x 30	A200001013312	1	2														



Shape ZY, Cylinder, Type 1 (according to DIN 69170)

Ordering example: A200001013602



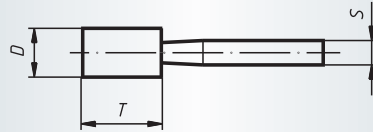
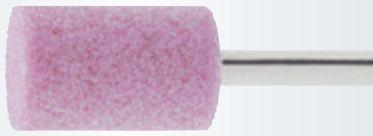
Packing unit:
20 pcs. per type
Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for									
ZY 1013.06	EKR 60 N V4	10	13	6 x 40	A200001013602	1	2	3							■
ZY 1020.06	EKR 60 N V4	10	20	6 x 40	A200001020602	1	2	3							■
ZY 1020.06	EKR 46 QU V4	10	20	6 x 40	A2000010206020001	1	2	3							■
ZY 1020.06	EKWBR 60 O/P V7	10	20	6 x 40	A200001020612	1	2								■
ZY 1020.06	NK 46 QU BA hard	10	20	6 x 40	A200001020627		2	3		5					■
ZY 1020.06	MK 46 N V10	10	20	6 x 40	A200001020616		2		4	5					■
ZY 1032.06	EKR 60 N V4	10	32	6 x 40	A200001032602	1	2	3							■
ZY 1032.06	EKR 46 QU V4	10	32	6 x 40	A2000010326020001	1	2	3							■
ZY 1032.06	EKWBR 60 O/P V7	10	32	6 x 40	A200001032612	1	2								■
ZY 1032.06	NK 46 QU BA hard	10	32	6 x 40	A200001032627		2	3		5					■
ZY 1040.06	EKR 60 N V4	10	40	6 x 40	A200001040602	1	2	3							■
ZY 1040.06	NK 46 QU BA hard	10	40	6 x 40	A200001040627		2	3		5					■
ZY 1313.03	EKR 46 N V4	13	13	3 x 30	A200001313302	1	2	3							■
ZY 1313.03	EKWBR 60 O/P V7	13	13	3 x 30	A200001313312	1	2								■
ZY 1313.03	RKD 60 P (6) V21	13	13	3 x 30	A200001313347		2	3	4						■
ZY 1313.06	EKR 46 N V4	13	13	6 x 40	A200001313602	1	2	3							■
ZY 1313.06	RKD 60 P (6) V21	13	13	6 x 40	A200001313647		2	3	4						■
ZY 1320.06	EKR 46 N V4	13	20	6 x 40	A200001320602	1	2	3							■
ZY 1320.06	EKR 46 QU V4	13	20	6 x 40	A2000013206020001	1	2	3							■
ZY 1320.06	EKWBR 60 O/P V7	13	20	6 x 40	A200001320612	1	2								■
ZY 1320.06	NK 46 QU BA hard	13	20	6 x 40	A200001320627		2	3		5					■
ZY 1320.06	MK 46 N V10	13	20	6 x 40	A200001320616		2		4	5					■
ZY 1325.06	EKR 46 N V4	13	25	6 x 40	A200001325602	1	2	3							■
ZY 1325.06	RKD 60 QU V21	13	25	6 x 40	A200001325647		2	3	4						■
ZY 1332.06	EKR 46 N V4	13	32	6 x 40	A200001332602	1	2	3							■
ZY 1332.06	NK 24 N BA soft	13	32	6 x 40	A200001332627W		2	3	4		6				■
ZY 1332.06	NK 46 QU BA hard	13	32	6 x 40	A200001332627		2	3		5					■
ZY 1616.06	EKR 46 N V4	16	16	6 x 40	A200001616602	1	2	3							■
ZY 1616.06	RKD 36 O (6) V21	16	16	6 x 40	A200001616647		2	3	4						■
ZY 1620.06	EKR 46 N V4	16	20	6 x 40	A200001620602	1	2	3							■
ZY 1620.06	EKWBR 46 O/P V7	16	20	6 x 40	A200001620612	1	2								■
ZY 1620.06	NK 24 QU BA hard	16	20	6 x 40	A200001620627		2	3		5					■
ZY 1632.06	EKR 46 N V4	16	32	6 x 40	A200001632602	1	2	3							■
ZY 1632.06	EKWBR 46 O/P V7	16	32	6 x 40	A200001632612	1	2								■
ZY 1632.06	RKD 36 O (6) V21	16	32	6 x 40	A200001632647		2	3	4						■
ZY 1632.06	NK 24 N BA soft	16	32	6 x 40	A200001632627W		2	3	4		6				■
ZY 1632.06	NK 24 QU BA hard	16	32	6 x 40	A200001632627		2	3		5					■
ZY 1632.06	HK 30 N V13	16	32	6 x 40	A200001632633				4	5					■
ZY 1632.06	MK 36 N V10	16	32	6 x 40	A200001632616		2		4	5					■
ZY 1640.06	EKR 46 N V4	16	40	6 x 40	A200001640602	1	2	3							■
ZY 1640.06	NK 24 QU BA hard	16	40	6 x 40	A200001640627		2	3		5					■
ZY 1640.06	MK 36 N V 10	16	40	6 x 40	A200001640616		2		4	5					■



Shape ZY, Cylinder, Type 1 (according to DIN 69170)

Ordering example: A200003232627W



Packing unit:

20 pcs. per type

Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for														
ZY 3232.06	NK 24 N BA soft	32	32	6 x 40	A200003232627W	2	3	4	6											
ZY 3232.06	NK 24 QU BA hard	32	32	6 x 40	A200003232627	2	3		5											
ZY 3232.06	MK 36 N V10	32	32	6 x 40	A200003232616	2		4	5											
ZY 3240.06	EKR 30 N V4	32	40	6 x 40	A200003240602	1	2	3												
ZY 3240.06	RKD 30 O (6) V21	32	40	6 x 40	A200003240647		2	3	4											
ZY 3240.06	MK 36 N V10	32	40	6 x 40	A200003240616		2		4	5										
ZY 4020.06	EKR 30 N V4	40	20	6 x 40	A200004020602	1	2	3												
ZY 4020.06	RKD 24 O (6) V21	40	20	6 x 40	A200004020647		2	3	4											
ZY 4020.06	NK 24 N BA soft	40	20	6 x 40	A200004020627W		2	3	4	6										
ZY 4020.06	NK 24 QU BA hard	40	20	6 x 40	A200004020627		2	3		5										
ZY 4020.06	HK 30 N V13	40	20	6 x 40	A200004020633				4	5										
ZY 4020.06	MK 36 N V10	40	20	6 x 40	A200004020616		2		4	5										
ZY 4020.06	HOK 0-3 V9	40	20	6 x 40	A202204020626														8	
ZY 4020.08	RKD 24 O (6) V21	40	20	8 x 40	A200004020847		2	3	4											
ZY 4020.08	NK 24 N BA soft	40	20	8 x 40	A200004020827W		2	3	4	6										
ZY 4020.08	NK 24 QU BA hard	40	20	8 x 40	A200004020827		2	3		5										
ZY 4020.08	HK 30 N V13	40	20	8 x 40	A200004020833				4	5										
ZY 4040.06	EKR 30 N V4	40	40	6 x 40	A200004040602	1	2	3												
ZY 4040.06	RKD 24 O (6) V21	40	40	6 x 40	A200004040647		2	3	4											
ZY 4040.08	RKD 24 O (6) V21	40	40	8 x 40	A200004040847		2	3	4											
ZY 4040.08	NK 24 QU BA hard	40	40	8 x 40	A200004040827		2	3		5										
ZY 4040.08	MK 36 N V10	40	40	8 x 40	A200004040816		2		4	5										
ZY 5013.08	NK 24 QU BA hard	50	13	8 x 40	A200005013827		2	3		5										
ZY 5020.06	EKR 30 N V4	50	20	6 x 40	A200005020602	1	2	3												
ZY 5020.06	RKD 24 O (6) V21	50	20	6 x 40	A200005020647		2	3	4											
ZY 5020.06	NK 24 N BA soft	50	20	6 x 40	A200005020627W		2	3	4	6										
ZY 5020.06	NK 24 QU BA hard	50	20	6 x 40	A200005020627		2	3		5										
ZY 5020.08	NK 24 N BA soft	50	20	8 x 40	A200005020827W		2	3	4	6										
ZY 5020.08	NK 24 QU BA hard	50	20	8 x 40	A200005020827		2	3		5										
ZY 5025.06	MK 30 M V10	50	25	8 x 40	A200005025616		2		4	5										
ZY 5025.08	NK 24 QU BA hard	50	25	8 x 40	A200005025827		2	3		5										

NEU

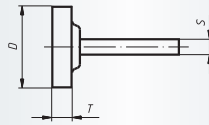
112 Mounted points



High Performance

Shape ZY, Cylinder, Type 2 (according to DIN 69170)

Ordering example: A201301303377



Packing unit:
20 pcs. per type
Further dimensions, qualities and shank lengths on request.

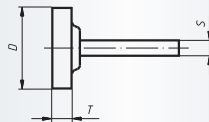
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for
NEW ZY2 1303.03	CERAMIC 80 L V118	13	3	3 x 30	A201301303377	② ③ ④ ⑦



Industry

Shape ZY, Cylinder, Type 2 (according to DIN 69170)

Ordering example: A201301303302



Packing unit:
20 pcs. per type
Further dimensions, qualities and shank lengths on request.

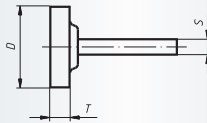
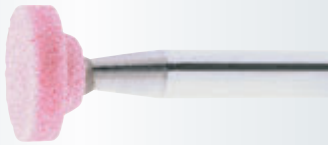
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for
ZY2 1303.03	EKR 80 N V4	13	3	3 x 30	A201301303302	① ② ③
ZY2 1303.03	EKWBR 80 O/P V7	13	3	3 x 30	A201301303312	① ②
ZY2 1303.03	RKD 80 QU V21	13	3	3 x 30	A201301303347	② ③ ④
ZY2 1303.06	EKR 80 N V4	13	3	6 x 40	A201301303602	① ② ③
ZY2 1604.03	EKR 60 N V4	16	4	3 x 30	A201301604302	① ② ③
ZY2 1604.03	EKWBR 60 O/P V7	16	4	3 x 30	A201301604312	① ②
ZY2 1604.03	RKD 80 QU V21	16	4	3 x 30	A201301604347	② ③ ④
ZY2 1604.06	EKR 60 N V4	16	4	6 x 40	A201301604602	① ② ③
ZY2 2006.03	EKR 60 N V4	20	6	3 x 30	A201302006302	① ② ③
ZY2 2006.03	EKWBR 60 O/P V7	20	6	3 x 30	A201302006312	① ②
ZY2 2006.06	EKR 60 N V4	20	6	6 x 40	A201302006602	① ② ③
ZY2 2006.06	EKR 46 QU V4	20	6	6 x 40	A2013020066020001	① ② ③
ZY2 2506.06	EKR 60 N V4	25	6	6 x 40	A201302506602	① ② ③
ZY2 2510.06	EKR 36 N V4	25	10	6 x 40	A201302510602	① ② ③
ZY2 2510.06	NK 24 QU BA. hard	25	10	6 x 40	A201302510627	② ③ ⑤
ZY2 3208.06	EKR 46 N V4	32	8	6 x 40	A201303208602	① ② ③
ZY2 3208.06	RKD 36 O (6) V21	32	8	6 x 40	A201303208647	② ③ ④
ZY2 3208.06	NK 24 QU BA. hard	32	8	6 x 40	A201303208627	② ③ ⑤
ZY2 4006.06	NK 24 N BA. soft	40	10	6 x 40	A201304006627	② ③ ④ ⑥
ZY2 4010.06	EKR 30 N V4	40	10	6 x 40	A201304010602	① ② ③
ZY2 4010.06	RKD 30 O (6) V21	40	10	6 x 40	A201304010647	② ③ ④
ZY2 4010.06	NK 24 N BA. soft	40	10	6 x 40	A201304010627W	② ③ ④ ⑥
ZY2 4010.06	NK 24 QU BA. hard	40	10	6 x 40	A201304010627	② ③ ⑤
ZY2 4010.06	MK 36 N V10	40	10	6 x 40	A201304010616	② ④ ⑤
ZY2 5004.06	NK 24 N BA. soft	50	4	6 x 40	A201305004627W	② ③ ④ ⑥
ZY2 5004.06	NK 24 QU BA. hard	50	4	6 x 40	A201305004627	② ③ ⑤
ZY2 5006.06	NK 24 N BA. soft	50	6	6 x 40	A201305006627W	② ③ ④ ⑥



Industry

Shape ZY, Cylinder, Type 2 (according to DIN 69170)

Ordering example: A201305006627



Packing unit:

20 pcs. per type

Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for															
ZY2 5006.06	NK 24 QU BA. hard	50	6	6 x 40	A201305006627		2	3		5											■
ZY2 5010.06	EKR 30 N V4	50	10	6 x 40	A201305010602	1	2	3													■
ZY2 5010.06	NK 24 N BA. soft	50	10	6 x 40	A201305010627W		2	3	4		6									■	
ZY2 5010.06	NK 24 QU BA. hard	50	10	6 x 40	A201305010627		2	3			5									■	
ZY2 5010.06	HK 30 N V13	50	10	6 x 40	A201305010633				4	5										■	
ZY2 5010.08	NK 24 N BA. soft	50	10	8 x 40	A201305010827W		2	3	4		6									■	
ZY2 5010.08	NK 24 QU BA. hard	50	10	8 x 40	A201305010827		2	3			5									■	
ZY2 6510.08	NK 24 P BA. soft	65	10	8 x 40	A201306510827		2	3			5									■	

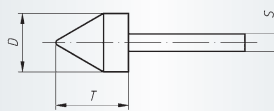
NEW



Industry

Shape WKS, Cylindrical pointed nose

Ordering example: A200402025602



Packing unit:

20 pcs. per type

Further dimensions, qualities and shank lengths on request.

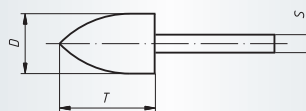
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for															
WKS 2025.06	EKR 60 N V4	20	25	6 x 40	A200402025602	1	2	3													■



High Performance

Shape SP, Pointed nose (according to DIN 69170)

Ordering example: A200200510377



Packing unit:

20 pcs. per type

Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for														
SP 0510.03	CERAMIC 80 L V118	5	10	3 x 30	A200200510377		2	3	4				7							■
SP 0816.03	CERAMIC 80 L V118	8	16	3 x 30	A200200816377		2	3	4				7							■
SP 1320.06	CERAMIC 46 L V118	13	20	6 x 40	A200201320677		2	3	4				7							■

NEW

NEW

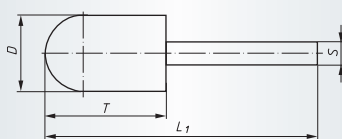
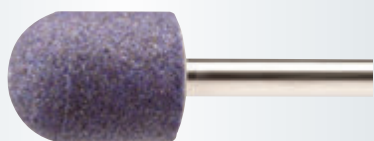
NEW



High Performance

Shape WR, Cylindrical round nose (according to DIN 69170)

Ordering example: A2014010133530001



Packing unit:
20 pcs. per type
Further dimensions, qualities and shank lengths on request.

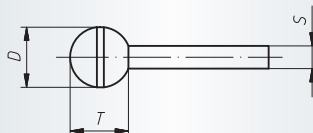
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for	
WR 1013.03	NDW 100 QU V115	10	13	3 x 30	A2014010133530001	② ③	■
WR 1013.03	NDW 100 QU V115	10	13	3 x 50	A201401013353	② ③	■



High Performance

Shape KU, Spherical (according to DIN 69170)

Ordering example: A201100606377



Packing unit:
20 pcs. per type
Further dimensions, qualities and shank lengths on request.

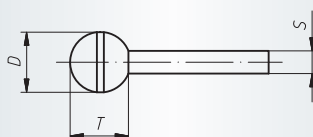
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for		
KU 0606.03	CERAMIC 80 L V118	6	6	3 x 30	A201100606377	② ③ ④ ⑦	■	NEW
KU 1010.06	CERAMIC 46 L V118	10	10	6 x 40	A201101010677	② ③ ④ ⑦	■	NEW
KU 1313.06	CERAMIC 46 L V118	13	13	6 x 40	A201101313677	② ③ ④ ⑦	■	NEW



High Performance

Shape KU, Spherical (according to DIN 69170)

Ordering example: A2011004043530001



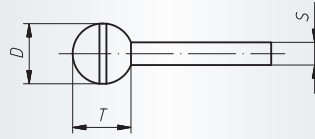
Packing unit:
20 pcs. per type
Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for	
KU 0404.03	NDW 100 QU V115	4	4	3 x 30	A2011004043530001	② ③	■
KU 0404.03	NDW 100 QU V115	4	4	3 x 50	A201100404353	② ③	■
KU 0606.03	NDW 100 QU V115	6	6	3 x 30	A2011006063530001	② ③	■
KU 0606.03	NDW 100 QU V115	6	6	3 x 50	A201100606353	② ③	■
KU 0808.03	NDW 100 QU V115	8	8	3 x 30	A2011008083530001	② ③	■
KU 0808.03	NDW 100 QU V115	8	8	3 x 50	A201100808353	② ③	■



Shape KU, Spherical (according to DIN 69170)

Ordering example: A201100606302



Packing unit:

20 pcs. per type

Further dimensions, qualities and shank lengths on request.

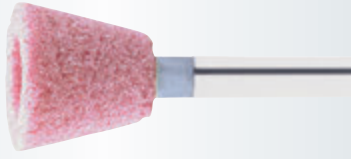
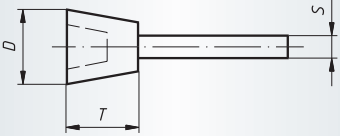
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for												
KU 0606.03	EKR 60 N V4	6	6	3 x 30	A201100606302	1	2	3										
KU 0606.03	EKR 80/100 QU V4	6	6	3 x 30	A2011006063020001	1	2	3										
KU 0606.03	EKWBR. 60 O/P V7	6	6	3 x 30	A201100606312	1	2											
KU 0606.06	EKR 60 N V4	6	6	6 x 40	A201100606602	1	2	3										
KU 0606.06	EKWBR. 60 O/P V7	6	6	6 x 40	A201100606612	1	2											
KU 0808.03	EKR 60 N V4	8	8	3 x 30	A201100808302	1	2	3										
KU 0808.03	EKWBR. 60 O/P V7	8	8	3 x 30	A201100808312	1	2											
KU 0808.06	EKR 60 N V4	8	8	6 x 40	A201100808602	1	2	3										
KU 0808.06	EKR 60/80 QU V4	8	8	6 x 40	A2011008086020001	1	2	3										
KU 1010.03	EKR 60 N V4	10	10	3 x 30	A201101010302	1	2	3										
KU 1010.03	EKWbr. 60 O/P V7	10	10	3 x 30	A201101010312	1	2											
KU 1010.03	RKD 80 P V21	10	10	3 x 30	A201101010347		2	3	4									
KU 1010.06	EKR 60 N V4	10	10	6 x 40	A201101010602	1	2	3										
KU 1313.03	EKR 46 N V4	13	13	3 x 30	A201101313302	1	2	3										
KU 1313.06	EKR 46 N V4	13	13	6 x 40	A201101313602	1	2	3										
KU 1313.06	EKR 46 QU V4	13	13	6 x 40	A2011013136020001	1	2	3										
KU 1616.06	EKR 46 N V4	16	16	6 x 40	A201101616602	1	2	3										
KU 1616.06	RKD 60 P (6) V21	16	16	6 x 40	A201101616647		2	3	4									
KU 2020.06	EKR 36 N V4	20	20	6 x 40	A201102020602	1	2	3										
KU 2020.06	EKR 60 P V21	20	20	6 x 40	A2011020206020001	1	2	3										
KU 2020.06	EKWBR. 46 O/P V7	20	20	6 x 40	A201102020612	1	2											
KU 2525.06	EKR 36 N V4	25	25	6 x 40	A201102525602	1	2	3										
KU 2525.06	RKD 30 QU V21	25	25	6 x 40	A201102525647		2	3	4									
KU 2525.06	NK 24 N Ba. soft	25	25	6 x 40	A201102525627		2	3	4		6							
KU 2525.06	HOK 0-3 V9	25	25	6 x 40	A201902525626												8	
KU 3232.06	EKR 30 N V4	32	32	6 x 40	A201103232602	1	2	3										
KU 3838.06	HOK 0-3 V9	38	38	6 x 40	A201903838626													8



Industry

Shape TO, Cup (according to DIN 69170)

Ordering example: A202002019602


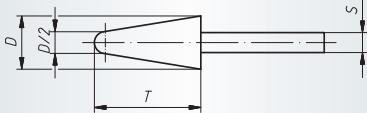
					Packing unit: 20 pcs. per type Further dimensions, qualities and shank lengths on request.							
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for						
TO 2020.06	EKR 60 N V4	20	20	6 x 40	A202002019602	①	②	③				■
TO 2524.06	EKR 60 N V4	25	24	6 x 40	A202002524602	①	②	③				■
TO 3229.06	EKR 60 N V4	32	29	6 x 40	A202003229602	①	②	③				■
TO 4036.06	EKR 60 N V4	40	36	6 x 40	A202004036602	①	②	③				■



High Performance

Shape KE, Conical round nose (according to DIN 69170)

Ordering example: A201501025677

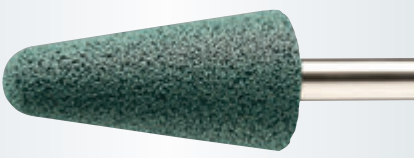
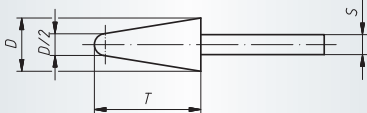
					Packing unit: 20 pcs. per type								
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for							
KE 1025.06	CERAMIC 46 L V118	10	25	6 x 40	A201501025677	②	③	④		⑦		■	NEW
KE 1632.06	CERAMIC 46 L V118	16	32	6 x 40	A201501632677	②	③	④		⑦		■	NEW



High Performance

Shape KE, Conical round nose (according to DIN 69170)

Ordering example: A201501632618A

					Packing unit: 20 pcs. per type							
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for						
KE 1632.06	SIC-ALU 80 V27 W	16	32	6 x 40	A201501632618A					⑥		■
KE 2040.06	SIC-ALU 80 V27 W	20	40	6 x 40	A201502040618A					⑥		■

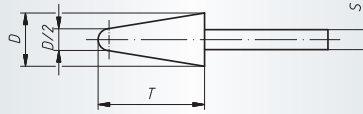
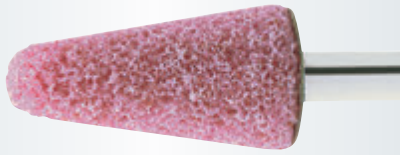
118 Mounted points



Industry

Shape KE, Conical round nose (according to DIN 69170)

Ordering example: A201501025647



Packing unit:

20 pcs. per type

Further dimensions, qualities and shank lengths on request.

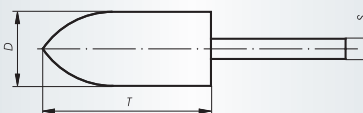
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for	
KE 1025.06	RKD 60 P (6) V21	10	25	6 x 40	A201501025647	② ③ ④	■
KE 1025.06	EKRBR.46/60 P V7	10	25	6 x 40	A201601025606	①	■
KE 1632.06	EKR 46 N V4	16	32	6 x 40	A201501632602	① ② ③	■
KE 1632.06	MK 36 N V10	16	32	6 x 40	A201501632616	② ④ ⑤	■
KE 1640.06	EKR 46 N V4	16	40	6 x 40	A201501640602	① ② ③	■
NEW KE 1645.06	RKD 46 O V13	16	45	6 x 40	A2015016456470002	② ③ ④	■
KE 1645.06	EKRBR.46/60 P V7	16	45	6 x 40	A201601645606	①	■
KE 2032.06	EKR 36 N V4	20	32	6 x 40	A201502032602	① ② ③	■
KE 2032.06	MK 36 N V10	20	32	6 x 40	A201502032616	② ④ ⑤	■
KE 2040.06	EKR 36 N V4	20	40	6 x 40	A201502040602	① ② ③	■
NEW KE 2040.06	RKD 36 O (6) V21	20	40	6 x 40	A201502040647	② ③ ④	■
KE 2040.06	MK 36 N V10	20	40	6 x 40	A201502040616	② ④ ⑤	■
KE 2570.06	EKR 36 N V4	25	70	6 x 40	A201502570602	① ② ③	■
KE 3250.06	RKD 30 O (6) V21	32	50	6 x 40	A201503250647	② ③ ④	■
NEW KE 3250.08	HK 30 N V13	32	50	6 x 40	A201503250833	④ ⑤	■



Industry

Shape A, american shapes

Ordering example: A2062022636020001



Packing unit:

20 pcs. per type

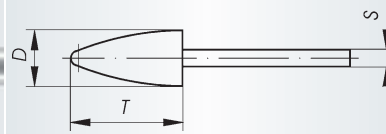
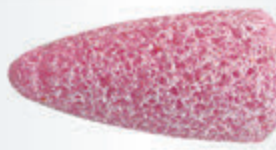
Further dimensions, qualities and shank lengths on request.

Description	Quality	Shape	D inch	T inch	D mm	T mm	S mm	Product-Number	recommended for	
A1 2263.06	EKR 36 N V4		7/8	2 1/2	22	63	6 x 40	A2062022636020001	① ② ③	■
A1 2263.06	HK 36/46 M V13		7/8	2 1/2	22	63	6 x 40	A206202263633	④ ⑤	■
A2 2532.06	EKR 36 QU V4		1	1 1/4	25	32	6 x 40	A206202532602	① ② ③	■
AS-3 1645.06	HK 36/46 M V13		5/8	1 3/4	16	45	6 x 40	A206201645633	④ ⑤	■
A3 2570.06	EKR 36 N V4		1	2 3/4	25	70	6 x 40	A2062025706020001	① ② ③	■
A3 2570.06	HK 36/46 M V13		1	2 3/4	25	70	6 x 40	A206202570633	④ ⑤	■
A3 2570.08	HK 36/46 M V13		1	2 3/4	25	70	8 x 40	A206402570833	④ ⑤	■



Shape B, american shapes

Ordering example: A206601616302



Packing unit:

20 pcs. per type

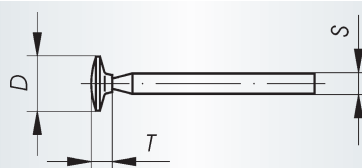
Further dimensions, qualities and shank lengths on request.

Description	Quality	Shape	D inch	T inch	D mm	T mm	S mm	Product-Number	recommended for	
B41 1616.03	EKR 60/80 QU V4		5/8	5/8	16	16	3 x 30	A206601616302	① ② ③	■
B52 1020.03	EKR 46 QU V4		3/8	3/4	10	20	3 x 30	A206601020302	① ② ③	■
B53 0816.03	EKR 60/80 QU V4		5/16	5/8	8	16	3 x 30	A206600816302	① ② ③	■



Miniature-Mounted points

Ordering example: A202900001302



Packing unit:

20 pcs. per type

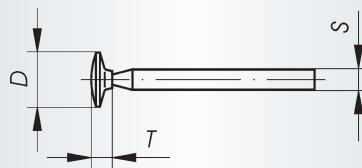
Further dimensions, qualities and shank lengths on request.

Description	Quality	Shape	D mm	T mm	S mm	Product-Number	recommended for	
D1	EKR 100 N V4		9	2	3 x 30	A202900001302	① ② ③	■
D1	EKBR 100 M V1/6		9	2	3 x 30	A202900001311	② ③	■
D2	EKR 80 N V4		9	3	3 x 30	A202900002302	① ② ③	■
D2	EKBR 80 M V1/6		9	3	3 x 30	A202900002311	② ③	■
D3	EKR 100 N V4		8	2	3 x 30	A202900003302	① ② ③	■
D3	EKBR 100 M V1/6		8	2	3 x 30	A202900003311	② ③	■
D4	EKR 100 N V4		4	1	3 x 30	A202900004302	① ② ③	■
D4	EKBR 100 M V1/6		4	1	3 x 30	A202900004311	② ③	■
D5	EKR 80 N V4		5	3	3 x 30	A202900005302	① ② ③	■
D5	EKBR 80 M V1/6		5	3	3 x 30	A202900005311	② ③	■
D6	EKR 80 N V4		7/4	6	3 x 30	A202900006302	① ② ③	■



Miniature-Mounted points

Ordering example: A202900007302



Packing unit:

20 pcs. per type

Further dimensions, qualities and shank lengths on request.

Description	Quality	Shape	D mm	T mm	S mm	Product-Number	recommended for																
D7	EKR 100 N V4		2,5/5	2,5	3 x 30	A202900007302	①	②	③														■
D7	EKBR 100 M V1/6		2,5/5	2,5	3 x 30	A202900007311		②	③														■
D8	EKR 100 N V4		2,5/6	3	3 x 30	A202900008302	①	②	③														■
D8	EKBR 100 M V1/6		2,5/6	3	3 x 30	A202900008311		②	③														■
D9	EKR 80 N V4		3,5/8	4	3 x 30	A202900009302	①	②	③														■
D9	EKBR 80 M V1/6		3,5/8	4	3 x 30	A202900009311		②	③														■
D10	EKR 100 N V4		2/3,2	4	3 x 30	A202900010302	①	②	③														■
D10	EKBR 100 M V1/6		2/3,2	4	3 x 30	A202900010311		②	③														■
D11	EKR 80 N V4		5	5	3 x 30	A202900011302	①	②	③														■
D12	EKR 80 N V4		4/7	6	3 x 30	A202900012302	①	②	③														■
D12	EKBR 80 M V1/6		4/7	6	3 x 30	A202900012311		②	③														■
D13	EKR 100 N V4		3	3	3 x 30	A202900013302	①	②	③														■
D13	EKBR. 100 M V1/6		3	3	3 x 30	A202900013311		②	③														■
D14	EKR 80 N V4		4	4	3 x 30	A202900014302	①	②	③														■
D14	EKBR 80 M V1/6		4	4	3 x 30	A202900014311		②	③														■
D15	EKR 80 N V4		5	5	3 x 30	A202900015302	①	②	③														■
D15	EKBR 80 M V1/6		5	5	3 x 30	A202900015311		②	③														■
D16	EKR 100 N V4		3	4	3 x 30	A202900016302	①	②	③														■
D16	EKBR 100 M V1/6		3	4	3 x 30	A202900016311		②	③														■
D17	EKR 80 N V4		4	5	3 x 30	A202900017302	①	②	③														■
D17	EKBR 80 M V1/6		4	5	3 x 30	A202900017311		②	③														■



High Performance

Mounted points-Assortments

Ordering example: A201000000353



Packing unit:
1 pc. per type

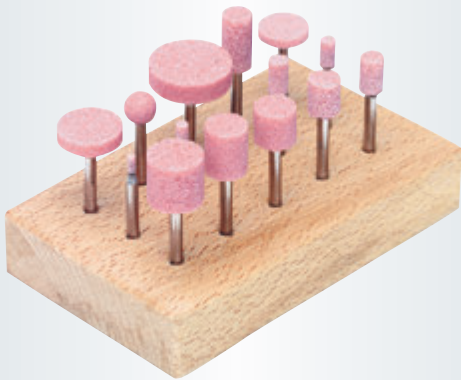
Description	Shank Ø mm	Quality	Contents	1 piece each	Product-Number	recommended for	
Assortment 10	3 x 50	NDW	10-pieces	ZY 0408, ZY 0610, ZY 0810, ZY 1013, SP 0510, SP 0810, KU 0404, KU 0606, KU 0808, WR 1013	A201000000353	② ③	■



Industry

Mounted points-Assortments

Ordering example: A204700001402



Packing unit:
1 pc. per type

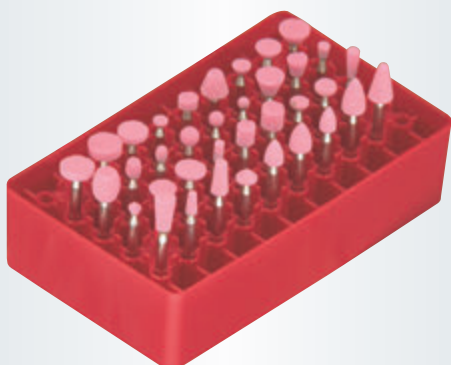
Description	Shank Ø mm	Quality	Contents	1 piece each	Product-Number	recommended for	
Assortment 14	3 x 30	EKR	14-pieces	ZY 0205, ZY 0306, ZY 0408, ZY 0510, ZY 0610, ZY 0810, ZY 0816, ZY 1010, ZY 1013, ZY 1313, KU 0808, ZY2 1303, ZY2 1604, ZY2 2006	A204700001402	① ② ③	■



Industry

Mounted points-Assortments

Ordering example: A204800003602



Packing unit:
1 pc. per type

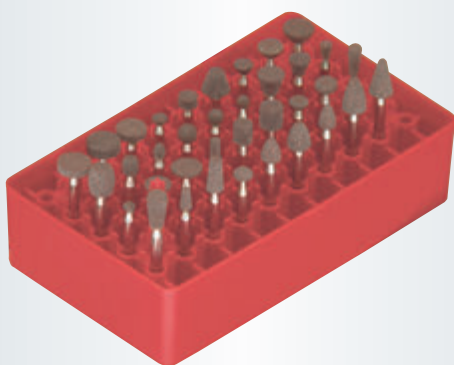
Description	Shank Ø mm	Quality	Contents	1 piece each	Product-Number	recommended for	
Assortment 36	3 x 30	EKR	36-pieces	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36	A204800003602	① ② ③	■



Industry

Mounted points-Assortments

Ordering example: A204800003611



Packing unit:
1 pc. per type

Description	Shank Ø mm	Quality	Contents	1 piece each	Product-Number	recommended for	
Assortment 36	3 x 30	EKBR	36-pieces	D1, D2, D3, D4, D5, D6, D7, D8, D9, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36	A204800003611	② ③	■

128 Mounted points-Assortments



Industry

Mounted point assortment – STEEL

Ordering example: A20480005602



Packing unit:
1 pc. per type

Description	Shank Ø mm	Quality	Contents	1 piece each	Product-Number	recommended for	
Assortment STAHL	6	EKR	5-pieces	ZY 1632.06, EKR 46 N V4, ZY 2525.06, EKR 36 N V4, WKS 2025.06, EKR 60 N V4, KU 2525.06, EKR 36 N V4, KE 1632.06, EKR 46 N V4	A20480005602	① ② ③	■



Industry

Mounted point assortment – INOX

Ordering example: A20480004627W



Packing unit:
1 pc. per type

Description	Shank Ø mm	Quality	Contents	1 piece each	Product-Number	recommended for	
Assortment INOX	6	NK BA	4-pieces	ZY 1332.06, NK 24 N BA Soft, ZY 2040.06, NK 24 N BA Soft, ZY2 4006.06, NK 24 N BA Soft, KU 2525.06, NK/NK 24 R BA 98	A20480004627W	② ③ ④ ⑥	■