

You are the centre of attention!

A circular inset photograph shows two men in red work jackets. One is wearing safety glasses and holding a blue tool, while the other is looking on. They are working on a large, complex metal part with a circular opening.

Everything turns
around you!

We want to create competitive advantages for our customers and ourselves in:

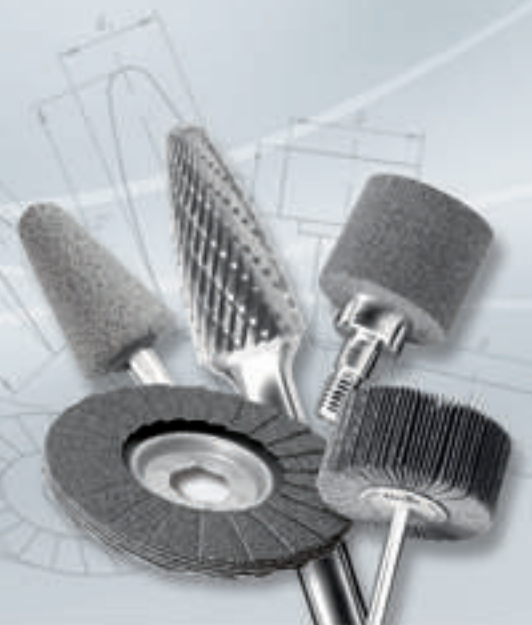
- **Technical design,**
- **Cost-effectiveness,**
- **Quality and reliability,**
- **On-time delivery and Service.**

In everything we do, we focus our attention on the success of our customers, our employees, and therefore, our company.

Our customers alone decide on the success of our efforts. This is the reason why we offer our customers a standard of quality suited to their requirements and which they will find to be optimal for their application.

We see it as a duty and challenge to question existing practices. We create pioneering solutions for the future through continuous improvement.

We define, monitor and optimise individual processes under the premise of providing the greatest possible benefit to the customer.



Welcome!



LUKAS
Always the right tool

We are a leading European manufacturer of rotating burrs, grinding and polishing tools with several international production sites.

High product quality, a large product range suited to the requirements of the market and the competence of our employees are the basis of our success.



We are at your disposal!

LUKAS-sales-team national



Elvira Albusberger



Nadine Behnke



Frank Bosbach



Gudrun Böttcher



Eva Jensch



Christian Pallesche



Günter Rosner



Ulrike Thomas



Nicole Stommel



Markus Pollak

Contact: sales national

Fon +49 2263 84-0 · Fax +49 2263 84-327
le@lukas-erzett.de

LUKAS-sales-team international



Adam Angres



Julia Babilas



Claudia Biesenbach



Andrea Bittner



Marcus W. Held



Christoph Hoffmann



Sandra Holtzem



Katharina Kroner



Aline Matenia



Martin Reif



Marion Riettmann



Elke Twardowski



Natascha Schmitz

Contact: sales international

Fon +49 2263 84-0 · Fax +49 2263 84-324
le@lukas-erzett.de

The Lukas Product Line – You have the choice!

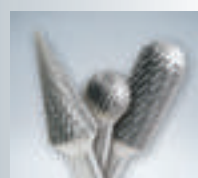
Industrie

High Performance



Our product line “Industry” – denoted by our red/silver logo – incorporates our highly respected product range for industrial application.

Product examples



Tungsten Carbide Burrs and HSS Burrs



Mounted Points in various qualities



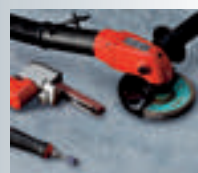
Mounted Flap Wheels



Abrasive Caps universal, Abrasive Bands NK and ZK and Carriers



Ultrahard Grinding Tools

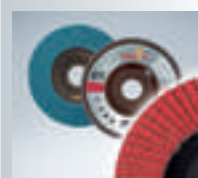


Air tools

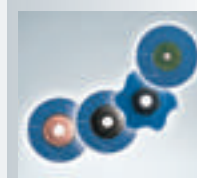


Our product line “High Performance” – denoted by our red/gold logo – offers products which in practice enhances your own net productivity! Within this product group, you will also find our high quality flap discs range under the “iQ Series”.

Product examples



Lamellar Flap Discs



Lamellar Flap Discs



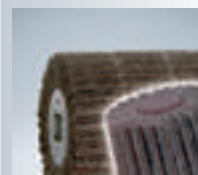
Tungsten Carbide Burrs with coating



Mounted Points, quality SIC-ALU
Mounted Points, quality NDW



Abrasive Caps special and Abrasive Belts Z POWER



Flap Wheels and Flap Rolls, quality TF

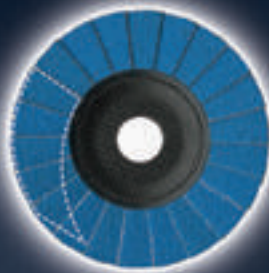
iQ Series

Innovative quality

Flap Discs of our High Performance Line have been integrated into our iQ Series product group. Tools in this product group guarantee the highest level of grinding performance due to a patented lamella shape and orientation.



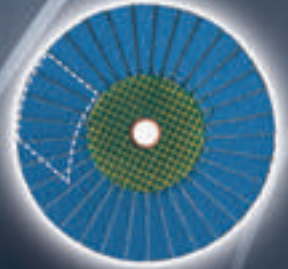
SLTT
iQ Series



V2 Power
iQ Series



V3 Control
iQ Series




SLTflex
iQ Series

1

High Performance

Ordering example: A27201150401118

Packing unit:
10 pcs. per type



2

Product table marking

Products of the iQ Series will be marked in the product tables as follows:

- 1 High Performance product
- 2 Product of the iQ Series

Produkte

Seite

SLTT – for highest chip removal!	154
V2 Power – for general purpose!	156
V3 Control – see what we can do!	158
SLTflex – for the awkward areas!	160

Technikum



Look, learn, do it yourself!

You will learn more about the possibilities of tool application by attending our well equipped modern communication teaching and testing centre - Technikum.

We would be pleased to organise an appointment **just for you** for

- practical and theoretical trainings
- specific product advice
- specific product testing



Call us: Fon +49 2263 84-0 and make an appointment with us.

Use of the material group template

LUKAS quality tools allow you to work on an wide variety of materials in a professional and efficient way. To find out which tool and which quality best suits the material to be processed, have a look at the fold-out material legend (in the back cover). The practical material-group template helps you to quickly find the right tool.

1 Material-Group Template

2 Material Groups
Nine different material groups distinguish the area of application for the specific tools.

3 Material-group-no.
The material-group-no. categorizes the application in conjunction with the material to be processed into best suitable and suitable.

3 TOOL STEELS *Rin up to 1300 N/mm²*

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

4 RUST, ACID AND HEAT RESISTANT STEELS AND CAST STEELS

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

5 CAST IRON

6 ALUMINIUM, MAGNESIUM AND COPPER ALLOYS

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

1 High Performance
Ordering example: AZZ01150401118

2 Product line and product family marking
Products from the High Performance line and the iQ-Series are marked as follows:
1 High Performance product
2 Product of the iQ Series

3 Material-group-no.

3 Material-group-no.
The material-group-no. categorizes the application in conjunction with the material to be processed into best suitable and suitable.

Fold out material legend. Visible on every page of the catalogue.

Shape C, Cylindrical Round nose

Description	Cat.	Material DIN 6521	H ₁ mm	H ₂ mm	H ₃ mm	H ₄ mm	Product Number
WPC 1205-06	01	WPC 1205	11	25	8	80	A 100220040
WPC 1205-08	24	WPC 1205	11	25	8	80	A 100220048
WPC 1205-10	27	WPC 1205	11	25	8	80	A 100220056
WPC 1205-12	25	WPC 1205	11	25	8	80	A 100220064
WPC 1625-06	23	WPC 1625	16	25	8	80	A 100220040
WPC 1625-08	22	WPC 1625	16	25	8	80	A 100220048
WPC 1625-10	26	WPC 1625	16	25	8	80	A 100220056
WPC 1625-12	21	WPC 1625	16	25	8	80	A 100220064

LUKAS-Colour-Code

The LUKAS colour coding system groups the wide range of abrasive tools into product groups and the different areas of applications.

Milling and Engraving Tools	Bonded Grinding and Polishing Tools	Flexible Grinding and Polishing Tools	Ultrahard Grinding Tools	Power Tools	Tool-sets/Accessories

Always the right tool



We are innovative – thanks to you!

As a manufacturer, we use our resources and the flexibility of our production to develop and manufacture burrs, grinding and polishing tools. Together we will select the right tool for your particular application problem.

- Over 2800 products immediately available from stock
- Manufacture of specifically tailored burrs, grinding and polishing tools
- Development of innovative products to increase output



Quality

makes the difference!

We operate a customer and a process-orientated quality management system, and are continuously improving our product qualities, performance and methods.

Through regular audits by DQS, we can prove that our quality management system fulfils requirements both to the standard of EN ISO 9001:2000 and the additional requirements of the automotive industry according to VDA 6, part 4 production equipment.



Please take note of the FEPA safety recommendations for the correct use of abrasive tools.



We are a member of the Organization for the Safety of Abrasives.

As a member of this organization, we are obligated to manufacture and test our grinding tools in strict accordance with oSa safety rules. Our grinding tools are marked with the oSa mark shown below.



The Symbol of Safety

Organization for the Safety of Abrasives (oSa)
Internet www.osa-abrasives.org

We are also a member of the following organizations:



Verband Deutscher
Schleifmittelwerke e. V.
Internet www.vds-bonn.de



Fachverband
Werkzeugindustrie e. V.
Internet www.werkzeug.org

B2B



We offer you e-commerce!

From ASCII to XML

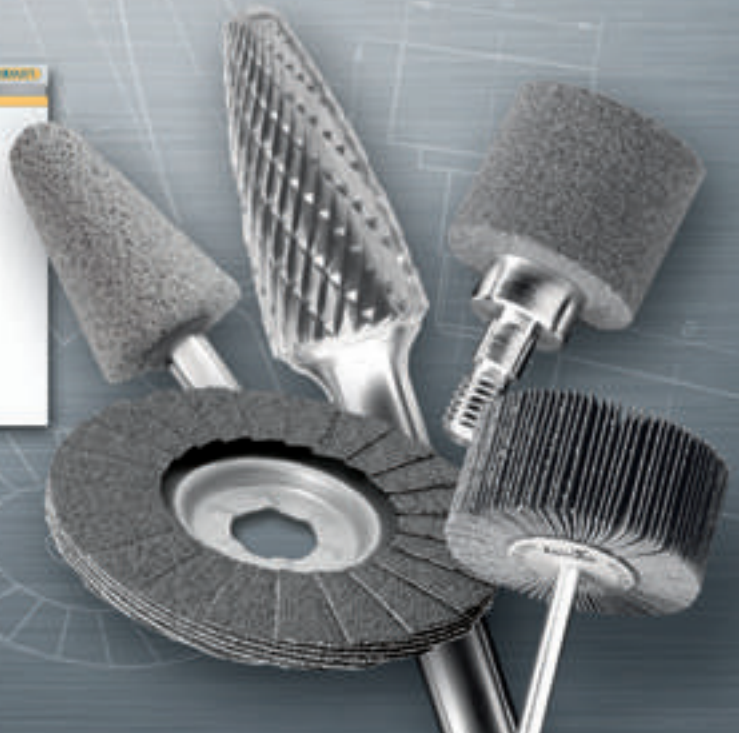
We offer you various ways of logging into ERP-system eCommerce – from access to our electronic catalogue (to BME-standard) to the individual handling of our electronic ordering system right to the point of despatch.

We can process your data using all the usual formats i.e. ASCII, XML, EDIFACT, VDA, BMECat and Opentrans. We utilize the transfer of data systems, Http, Https, Telebox, Mail and Odette.

In addition, we shall appear on NEXMART – the entry for distribution of ironmongery, tools and fittings. www.nexmart.de



**Our IT colleagues will
be happy to assist.**



Visit us!

Did we arouse your interest? If so, we look forward to your visit in Engelskirchen. At our Technikum we offer you product trainings and special theoretical and practical trainings suited to your requirements.



Do you have any further questions or need additional information or require a solution for a special application?

Call us: Fon +49 2263 84-0 or send us an e-mail to le@lukas-erzett.de



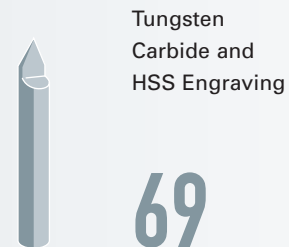
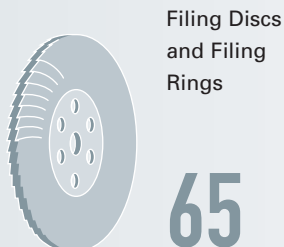
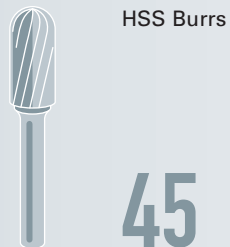
From the A45 motorway:

Exit the A45 (Sauerland-Linie) at the Olpe-Süd exit and continue on the A4 towards Cologne (Köln). When you reach the Engelskirchen exit (Exit 23), exit and turn left onto the B55. This will take you towards Engelskirchen (this is well-marked). Continue through the town of Engelskirchen towards Overath/Cologne. Approximately 2 km after you leave the town, you will see our plant on both the left and right sides of the B55 (Albertsthal).

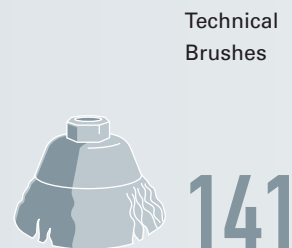
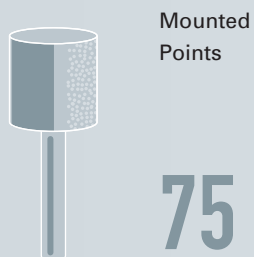
From the A3 motorway:

Exit the A3 at the Köln-Ost (Cologne East) and continue on the A4 heading towards Olpe. Exit at the Overath/Engelskirchen/Loope (Exit 22) and continue on the B55 towards Engelskirchen. Once you have passed through the village of Loope, you will see our plant after approx. 2 km on both the left and right sides of the B55 (Albertsthal).

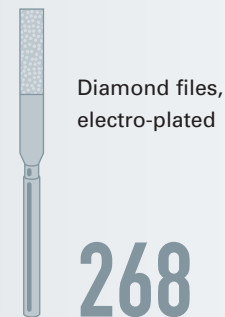
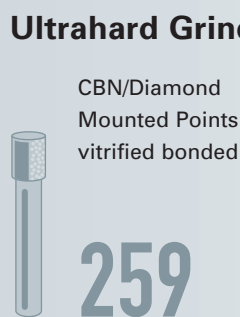
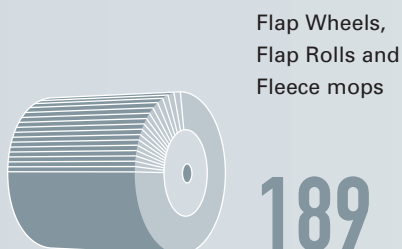
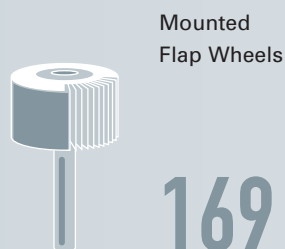
Milling and Engraving Tools



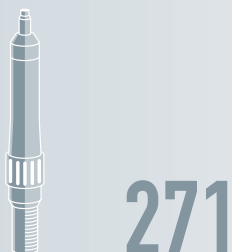
Bonded Grinding and Polishing Tools



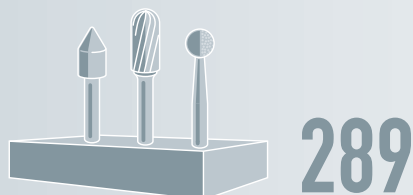
Flexible Grinding and Polishing Tools



Power Tools



Tool-sets/Accessories





Polishing Points
and Wheels
Polishing sticks

109



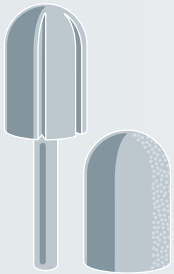
Felt polishing
Points

125



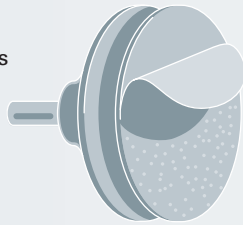
Diamond Pastes,
Sprays and Thinner

130



Abrasive Caps
and Mandrels
Abrasive Sleeves
and Mandrels

219



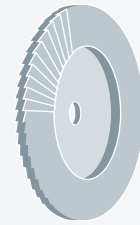
Abrasive Discs
and Mandrels

231



Economy Rolls,
Fibre Discs and
Backing-Pads,
Fleece Pads/Rolls

246



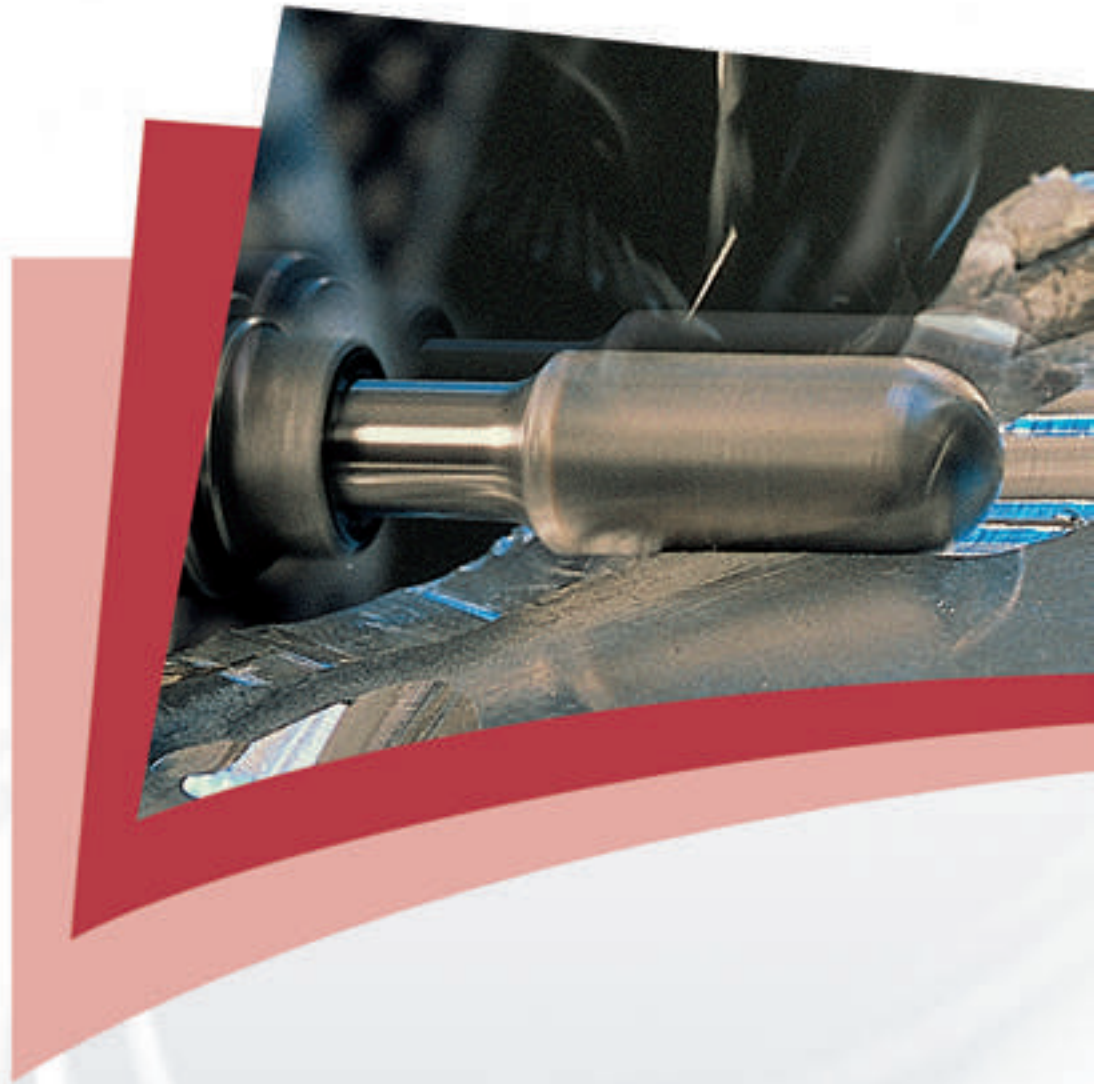
Lamellar
Flap Discs

152

Products Edition **09**

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Content

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• Technical Information	16
• Choosing the appropriate Burr	17
• Types of cut and their application	18
• Tungsten Carbide Burrs	20

High Performance marking

High Performance	<p>The High Performance products are additionally marked on the table with the High Performance heading</p> <p><i>Further information on page 4.</i></p>
<p><i>Ordering example: A10010616608TIALN</i></p> <p>Packing unit: 1 pc. per type</p>	

A summary of available shapes

Shape	Type	Shape (DIN 8033)	Shape (LUKAS)	Page
	Cylindrical	ZYA	A	20
	Cylindrical round nose	WRC	C	23
	Spherical	KUD	D	24
	Oval	TRE	E	26
	Arch round nose	RBF	F	27
	Arch pointed nose	SPG	G	28
	Flame	–	H	29
	Internal	–	I	30
	Counter sink	KSJ	J	30
	Conical round nose	KEL	L	31
	Conical pointed nose	SKM	M	32
	Inverted cone	WKN	N	33
	Burrs for the machining of plastic	–	P	34
	Engraving Cutters	–	–	35
	Burrs for radius trimming (external)	–	R	36
	Burrs for radius trimming (internal)	–	S	36
	Miniature Burrs	–	–	37
	Small Burrs	–	–	38
	Tool-Set	–	–	40
	Burrs for machining of non-ferrous metals	–	–	42
	Burrs with extended shank length	–	–	43
	Some examples of our competitive performance	–	–	44
	Power Tools	–	–	271

Technical Information

Quality

LUKAS carbide burrs are manufactured using high quality types of carbide and modern CNC automatic grinding machines in order to guarantee precision and repeatability of angle, profile and twist. Carbide burrs manufactured to your drawings or details assist in solving your particular stock removal problem.

Application

The best results are obtained by selecting the recommended cut and speed. Please refer to the cutting speeds in the table on page 17 or according to the table illustrating the various cuts on page 18.

Power tools

Electric and pneumatic power tools are used; the bearings should be in good condition and the collets running true. Vibration and chatter will cause premature wear and tooth breakage. High pressure will reduce tool life and decreases tool efficiency.

Shanks

We recommend that the largest shank diameter possible is selected from the appropriate list; this provides maximum safety. Other shank diameters and lengths are available on request. A selection of burrs with extra long shanks appears on page 43.

Robot application

LUKAS tungsten carbide burrs are precision tools, and have produced excellent results when used in conjunction with industrial robots. We can also develop the optimal burr for your particular application.

Coated

The reasons for producing cutting tools with hard coatings such as TiN, TiCN, TiALN and LTE are as follows:

- to increase tool life
- to reduce machining forces
- to improve chip removal

The increase in tool life is mainly the result of the considerably higher surface hardness of the coating in comparison to the base material of the tool itself. In addition, due to the high chemical stability, it minimizes the reaction between the cutting edge of the tool and the chip to be removed.

The reduction of machining forces and the improvement in chip removal are achieved through a reduction in the friction between the free cutting zone of the tool and workpiece on the one hand, and the cutting edge of the tool and the chip removed on the other. The reduction in friction depends on the coating improving the surface finish and as previously described by largely avoiding any chemical reaction.

Our technicians would be pleased to help you in the selection of the correct coating. Please note the different possibilities on page 19.

Special tools

Tungsten carbide burrs manufactured to your design or drawing guarantee the LUKAS high quality standard, and can therefore assist in solving your particular machining problem.

Packaging

We use plastics-packaging; please select the respective packing unit from our product lists.

Recommendations for use

Select the cut to suit the material to be machined. Please kindly follow the principle: **The harder the material, the finer the cut!**

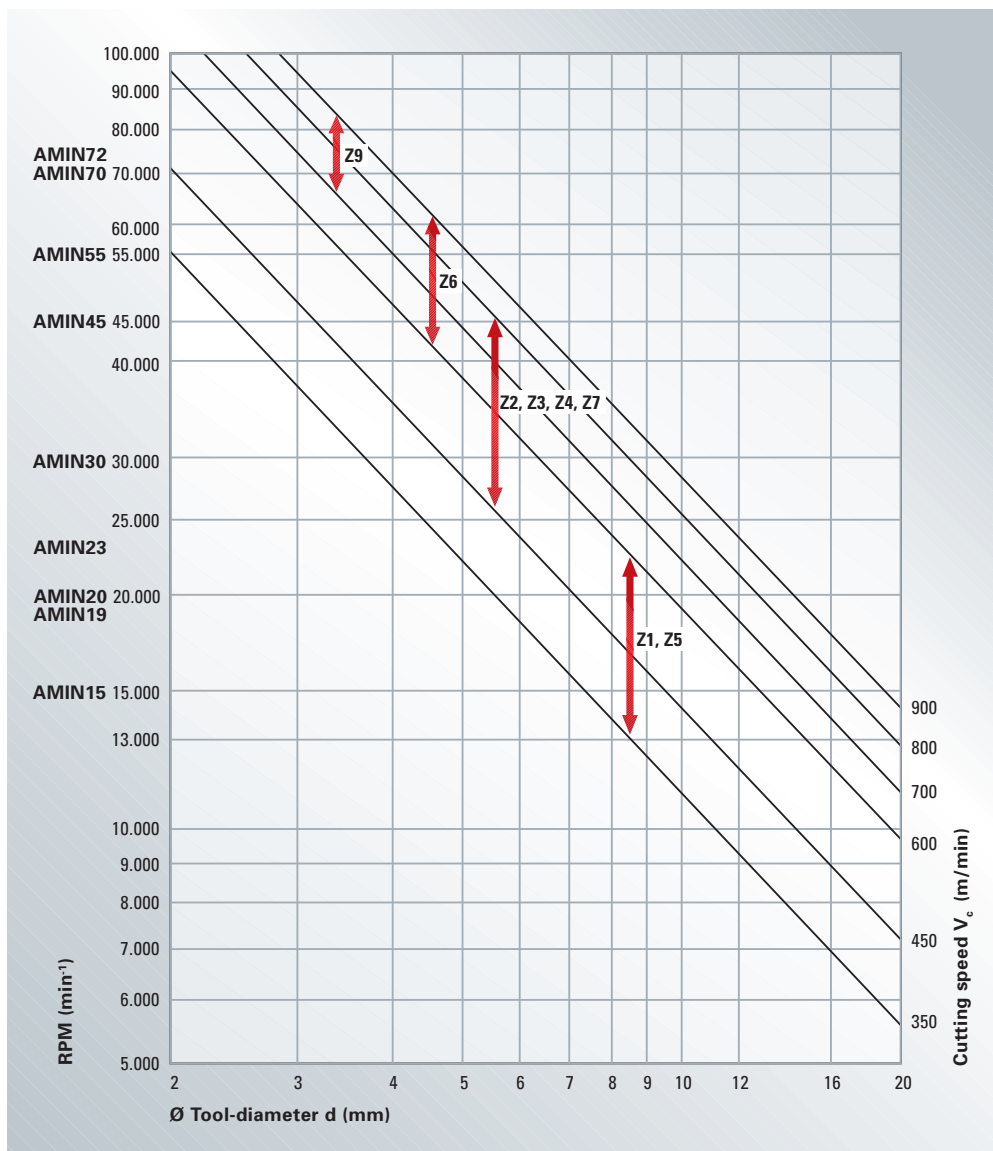
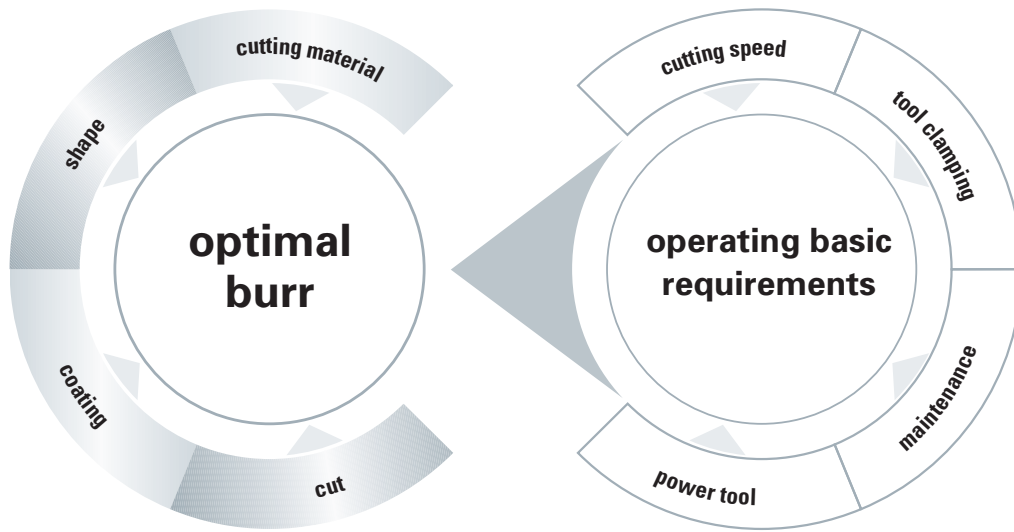
The correct selection of speed is the basis of achieving optimum machining results and long tool-life; please refer to the adjoining table. Use the highest possible speed within the indicated area. Too low a speed results in vibration, chipping and premature wear! Reduce the speed of the burrs only when using in large arc angles or when used on low heat conducting materials. Never let the shank and head become discoloured blue. For safety reasons, extended shanks should also be run at low speed.

The power of your machine should be compatible with the machining process. A reduction in RPM due to lack of power – particularly common with pneumatic tools – should be avoided. Collets must run true. Run-out and vibration will result in chipping and premature wear.

For the same reasons, take care that the machine bearings are in perfect condition.

To avoid vibrations and shank breakage, select the shortest shank overhang as possible.




Choosing the appropriate Burr







Types of cut and their application

The following types are available for specific applications	Specification (LUKAS)	Recommended application	Recommended cutting speed
Single cut			low high
	Z 1	Light metals, plastic, hard rubber, pressed and hard wood	v = 400 – 600 m/min v = 720 – 900 m/min
	Z 2	Cast iron, non-ferrous metals, tough materials, plastics	v = 450 – 800 m/min
	Z 3	Cast steel, welds, hardened and soft high tensile steels	v = 450 – 800 m/min
	Z 5	Application like Z 3, but to obtain finer surface finish	v = 350 – 600 m/min
	Z 9	Aluminium alloys, soft non-ferrous metals, plastics	v = 700 – 900 m/min

Burrs from head diameter 6 mm and larger, cut Z1, 2, 3 and 5 can be supplied with chip breaker to produce a short chip form. The burrs can be TiN, TiCN, TiAlN or LTE coated on request (page 19).

Cross cuts	Specification (LUKAS)	Recommended application	Recommended cutting speed
produce higher cutting capacity on tough materials			low high
	Z 4	High alloy steels, stainless, acid and heat resistant castings, plastics	v = 450 – 800 m/min
	Z 6	Application like Z 4 but higher rate of stock removal	v = 540 – 900 m/min
	Z 7	Cast steel, welds, hardened and soft steels (universal higher performance cut)	v = 450 – 800 m/min

Coatings	Specification (LUKAS)	Properties	Friction on steel (dry)
	TiN (Titanium nitride)	general purpose coating for steel and cast iron, high toughness	0,65 – 0,70 µm
	TiCN (Titanium carbon nitride)	wear resisting coating for fine deburring process; suited to applications with higher thermal and shock loads	0,10 – 0,20 µm
	TAiN (Titanium aluminium nitride) (see page 41)	high performance coating with a high degree of hardness and low heat conductivity; therefore suitable for high thermal and mechanical applications	0,30 – 0,35 µm
	LTE (hard coating carbon-based)	Special coating with lotus-effect for long chip and smearing non-ferrous metals, particularly aluminium alloys. Excellent sliding friction properties reducing loading on cutting edges.	0,10 – 0,20 µm

The reasons for producing cutting tools with hard coatings are as follows:

- to increase tool life
- to reduce machining forces
- to improve chip removal

Take advantage of our regrind service

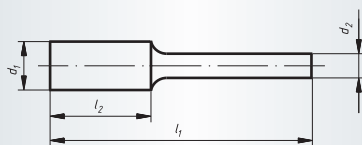
LUKAS tungsten carbide burrs can be resharpener several times when blunted by normal working conditions. Burrs with severe damage to the cutting edges are priced accordingly. We can offer this service providing the tools are delivered to us carriage paid.



The symbol denotes burrs which can be regrind against enquiry.

Shape A, Cylindrical

Ordering example: A10010210305



Packing unit:

1 pc. per type

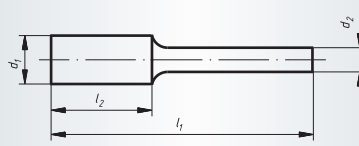
Further dimensions, cuts and shank lengths on request.

regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for								New burrs					
HFA 0210.03	Z5	ZYA 0210	2	10	3	40	A10010210305	1	2	3	4			7						■	
HFA 0313.03	Z3	ZYA 0313	3	13	3	40	A10010313303	1	2	3	4			7						■	
HFA 0313.03	Z4	ZYA 0313	3	13	3	40	A10010313304		2	3	4			7	8					■	
HFA 0313.03	Z5	ZYA 0313	3	13	3	40	A10010313305	1	2	3	4			7						■	
HFA 0313.03	Z7	ZYA 0313	3	13	3	40	A10010313308	1	2	3		5		7						■	
HFA 0413.06	Z3	ZYA 0413	4	13	6	50	A10010413603	1	2	3	4			7						■	
HFA 0413.06	Z7	ZYA 0413	4	13	6	50	A10010413608	1	2	3		5		7						■	
HFA 0607.03	Z5	ZYA 0607	6	7	3	37	A10010607305	1	2	3	4			7						■	
HFA 0613.03	Z5	ZYA 0613	6	13	3	43	A10010613305	1	2	3	4			7						■	
HFA 0613.03	Z7	ZYA 0613	6	13	3	43	A10010613308	1	2	3		5		7						■	
HFA 0616.06	Z2	ZYA 0616	6	16	6	50	A10010616602	1				5	6		8					■	
HFA 0616.06	Z3	ZYA 0616	6	16	6	50	A10010616603	1	2	3	4			7						■	
HFA 0616.06	Z4	ZYA 0616	6	16	6	50	A10010616604		2	3	4			7	8					■	
HFA 0616.06	Z5	ZYA 0616	6	16	6	50	A10010616605	1	2	3	4			7						■	
HFA 0616.06	Z7	ZYA 0616	6	16	6	50	A10010616608	1	2	3		5		7						■	
HFA 0616.06	Z9	ZYA 0616	6	16	6	50	A10010616609						6		8					■	
HFA 0820.06	Z3	ZYA 0820	8	20	6	60	A10010820603	1	2	3	4			7						■	
HFA 0820.06	Z4	ZYA 0820	8	20	6	60	A10010820604		2	3	4			7	8					■	
HFA 0820.06	Z5	ZYA 0820	8	20	6	60	A10010820605	1	2	3	4			7						■	
HFA 0820.06	Z7	ZYA 0820	8	20	6	60	A10010820608	1	2	3		5		7						■	
HFA 1013.06	Z3	ZYA 1013	10	13	6	53	A10011013603	1	2	3	4			7						■	
HFA 1013.06	Z7	ZYA 1013	10	13	6	53	A10011013608	1	2	3		5		7						■	
HFA 1013.08	Z3	ZYA 1013	10	13	8	53	A10011013803	1	2	3	4			7						■	
HFA 1020.06	Z3	ZYA 1020	10	20	6	60	A10011020603	1	2	3	4			7						■	
HFA 1020.06	Z4	ZYA 1020	10	20	6	60	A10011020604		2	3	4			7	8					■	
HFA 1020.06	Z7	ZYA 1020	10	20	6	60	A10011020608	1	2	3		5		7						■	
HFA 1020.08	Z3	ZYA 1020	10	20	8	60	A10011020803	1	2	3	4			7						■	
HFA 1025.06	Z4	ZYA 1025	10	25	6	65	A10011025604		2	3	4			7	8					■	
HFA 1025.06	Z7	ZYA 1025	10	25	6	65	A10011025608	1	2	3		5		7						■	
HFA 1025.08	Z3	ZYA 1025	10	25	8	65	A10011025803	1	2	3	4			7						■	
HFA 1225.06	Z3	ZYA 1225	12	25	6	65	A10011225603	1	2	3	4			7						■	
HFA 1225.06	Z4	ZYA 1225	12	25	6	65	A10011225604		2	3	4			7	8					■	
HFA 1225.06	Z5	ZYA 1225	12	25	6	65	A10011225605	1	2	3	4			7						■	
HFA 1225.06	Z7	ZYA 1225	12	25	6	65	A10011225608	1	2	3		5		7						■	
HFA 1225.06	Z9	ZYA 1225	12	25	6	65	A10011225609						6		8					■	
HFA 1225.08	Z3	ZYA 1225	12	25	8	65	A10011225803	1	2	3	4			7						■	
HFA 1225.08	Z4	ZYA 1225	12	25	8	65	A10011225804		2	3	4			7	8					■	

Shape A, Cylindrical

Ordering example:A10011225809







Packing unit:

1 pc. per type

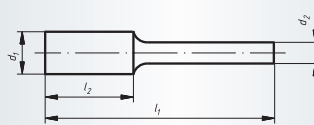
Further dimensions, cuts and shank lengths on request.

 regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for								New burrs	
								1	2	3	4	5	6	7	8		
HFA 1225.08	Z9	ZYA 1225	12	25	8	65	A10011225809						6		8		■
HFA 1625.06	Z3	ZYA 1625	16	25	6	65	A10011625603	1	2	3	4				7		■ 
HFA 1625.06	Z7	ZYA 1625	16	25	6	65	A10011625608	1	2	3		5		7		■ 	
HFA 1625.06	Z9	ZYA 1625	16	25	6	65	A10011625609						6		8	■ 	
HFA 1625.08	Z9	ZYA 1625	16	25	8	65	A10011625809						6		8	■ 	

Shape A, Cylindrical, with end-cut

Ordering example: A100102103050001



Packing unit:

1 pc. per type

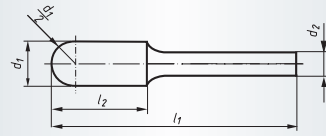
Further dimensions, cuts and shank lengths on request.

regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for								New burrs
HFAS 0210.03	Z5	ZYA-S 0210	2	10	3	40	A100102103050001									
HFAS 0313.03	Z3	ZYA-S 0313	3	13	3	40	A100103133030001									
HFAS 0313.03	Z4	ZYA-S 0313	3	13	3	40	A100103133040001									
HFAS 0313.03	Z5	ZYA-S 0313	3	13	3	40	A100103133050001									
HFAS 0313.03	Z7	ZYA-S 0313	3	13	3	40	A100103133080001									
HFAS 0413.06	Z3	ZYA-S 0413	4	13	6	50	A100104136030001									
HFAS 0413.06	Z7	ZYA-S 0413	4	13	6	50	A100104136080001									
HFAS 0607.03	Z5	ZYA-S 0607	6	7	3	37	A100106073050001									
HFAS 0613.03	Z5	ZYA-S 0613	6	13	3	43	A100106133050001									
HFAS 0613.03	Z7	ZYA-S 0613	6	13	3	43	A100106133080001									
HFAS 0616.06	Z3	ZYA-S 0616	6	16	6	50	A100106166030001									
HFAS 0616.06	Z4	ZYA-S 0616	6	16	6	50	A100106166040001									
HFAS 0616.06	Z5	ZYA-S 0616	6	16	6	50	A100106166050001									
HFAS 0616.06	Z7	ZYA-S 0616	6	16	6	50	A100106166080001									
HFAS 0820.06	Z3	ZYA-S 0820	8	20	6	60	A100108206030001									
HFAS 0820.06	Z4	ZYA-S 0820	8	20	6	60	A100108206040001									
HFAS 0820.06	Z5	ZYA-S 0820	8	20	6	60	A100108206050001									
HFAS 0820.06	Z7	ZYA-S 0820	8	20	6	60	A100108206080001									
HFAS 1013.06	Z3	ZYA-S 1013	10	13	6	53	A100110136030001									
HFAS 1013.06	Z7	ZYA-S 1013	10	13	6	53	A100110136080001									
HFAS 1020.06	Z3	ZYA-S 1020	10	20	6	60	A100110206030001									
HFAS 1020.06	Z4	ZYA-S 1020	10	20	6	60	A100110206040001									
HFAS 1020.06	Z7	ZYA-S 1020	10	20	6	60	A100110206080001									
HFAS 1025.06	Z4	ZYA-S 1025	10	25	6	65	A100110256040001									
HFAS 1025.06	Z7	ZYA-S 1025	10	25	6	65	A100110256080001									
HFAS 1225.06	Z3	ZYA-S 1225	12	25	6	65	A100112256030001									
HFAS 1225.06	Z4	ZYA-S 1225	12	25	6	65	A100112256040001									
HFAS 1225.06	Z5	ZYA-S 1225	12	25	6	65	A100112256050001									
HFAS 1225.06	Z7	ZYA-S 1225	12	25	6	65	A100112256080001									
HFAS 1225.08	Z4	ZYA-S 1225	12	25	8	65	A100112258040001									
HFAS 1225.08	Z7	ZYA-S 1225	12	25	8	65	A100112258080001									
HFAS 1625.06	Z3	ZYA-S 1625	16	25	6	65	A100116256030001									
HFAS 1625.06	Z7	ZYA-S 1625	16	25	6	65	A100116256080001									

Shape C, Cylindrical Round nose

Ordering example: A10020210305



Packing unit:

1 pc. per type

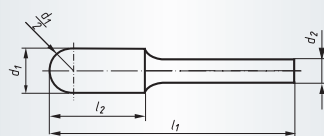
Further dimensions, cuts and shank lengths on request.

regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for								New burrs				
HFC 0210.03	Z5	WRC 0210	2	10	3	40	A10020210305	1	2	3	4			7					■	
HFC 0210.03	Z7	WRC 0210	2	10	3	40	A10020210308	1	2	3		5		7					■	
HFC 0313.03	Z2	WRC 0313	3	13	3	40	A10020313302	1				5	6		8				■	
HFC 0313.03	Z3	WRC 0313	3	13	3	40	A10020313303	1	2	3	4			7					■	
HFC 0313.03	Z4	WRC 0313	3	13	3	40	A10020313304		2	3	4			7	8				■	
HFC 0313.03	Z5	WRC 0313	3	13	3	40	A10020313305	1	2	3	4			7					■	
HFC 0313.03	Z7	WRC 0313	3	13	3	40	A10020313308	1	2	3		5		7					■	
HFC 0413.06	Z3	WRC 0413	4	13	6	50	A10020413603	1	2	3	4			7					■	
HFC 0413.06	Z4	WRC 0413	4	13	6	50	A10020413604		2	3	4			7	8				■	
HFC 0413.06	Z7	WRC 0413	4	13	6	50	A10020413608	1	2	3		5		7					■	
HFC 0613.03	Z5	WRC 0613	6	13	3	43	A10020613305	1	2	3	4			7					■	
HFC 0613.03	Z7	WRC 0613	6	13	3	43	A10020613308	1	2	3		5		7					■	
HFC 0616.06	Z1	WRC 0616	6	16	6	50	A10020616601						6		8				■	
HFC 0616.06	Z2	WRC 0616	6	16	6	50	A10020616602	1				5	6		8				■	
HFC 0616.06	Z3	WRC 0616	6	16	6	50	A10020616603	1	2	3	4			7					■	
HFC 0616.06	Z4	WRC 0616	6	16	6	50	A10020616604		2	3	4			7	8				■	
HFC 0616.06	Z5	WRC 0616	6	16	6	50	A10020616605	1	2	3	4			7					■	
HFC 0616.06	Z7	WRC 0616	6	16	6	50	A10020616608	1	2	3		5		7					■	
HFC 0616.06	Z9	WRC 0616	6	16	6	50	A10020616609						6		8				■	
HFC 0820.06	Z3	WRC 0820	8	20	6	60	A10020820603	1	2	3	4			7					■	
HFC 0820.06	Z4	WRC 0820	8	20	6	60	A10020820604		2	3	4			7	8				■	
HFC 0820.06	Z5	WRC 0820	8	20	6	60	A10020820605	1	2	3	4			7					■	
HFC 0820.06	Z6	WRC 0820	8	20	6	60	A10020820606		2	3	4			7	8				■	
HFC 0820.06	Z7	WRC 0820	8	20	6	60	A10020820608	1	2	3		5		7					■	
HFC 1020.06	Z3	WRC 1020	10	20	6	60	A10021020603	1	2	3	4			7					■	
HFC 1020.06	Z4	WRC 1020	10	20	6	60	A10021020604		2	3	4			7	8				■	
HFC 1020.06	Z5	WRC 1020	10	20	6	60	A10021020605	1	2	3	4			7					■	
HFC 1020.06	Z6	WRC 1020	10	20	6	60	A10021020606		2	3	4			7	8				■	
HFC 1020.06	Z7	WRC 1020	10	20	6	60	A10021020608	1	2	3		5		7					■	
HFC 1020.08	Z4	WRC 1020	10	20	8	60	A10021020804		2	3	4			7	8				■	
HFC 1020.08	Z7	WRC 1020	10	20	8	60	A10021020808	1	2	3		5		7					■	
HFC 1025.06	Z7	WRC 1025	10	25	6	65	A10021025608	1	2	3		5		7					■	
HFC 1225.06	Z1	WRC 1225	12	25	6	65	A10021225601						6		8				■	
HFC 1225.06	Z2	WRC 1225	12	25	6	65	A10021225602	1				5	6		8				■	
HFC 1225.06	Z3	WRC 1225	12	25	6	65	A10021225603	1	2	3	4			7					■	
HFC 1225.06	Z4	WRC 1225	12	25	6	65	A10021225604		2	3	4			7	8				■	
HFC 1225.06	Z5	WRC 1225	12	25	6	65	A10021225605	1	2	3	4			7					■	
HFC 1225.06	Z6	WRC 1225	12	25	6	65	A10021225606		2	3	4			7	8				■	
HFC 1225.06	Z7	WRC 1225	12	25	6	65	A10021225608	1	2	3		5		7					■	
HFC 1225.06	Z9	WRC 1225	12	25	6	65	A10021225609						6		8				■	

Shape C, Cylindrical Round nose

Ordering example: A10021225803



Packing unit:

1 pc. per type

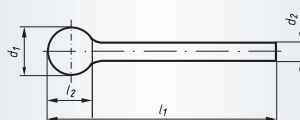
Further dimensions, cuts and shank lengths on request.

Ⓢ regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for	New burrs
HFC 1225.08	Z3	WRC 1225	12	25	8	65	A10021225803	1 2 3 4 7	■ Ⓢ
HFC 1225.08	Z4	WRC 1225	12	25	8	65	A10021225804	2 3 4 7 8	■ Ⓢ
HFC 1225.08	Z7	WRC 1225	12	25	8	65	A10021225808	1 2 3 5 7	■ Ⓢ
HFC 1225.08	Z9	WRC 1225	12	25	8	65	A10021225809	6 8	■
HFC 1625.06	Z3	WRC 1625	16	25	6	65	A10021625603	1 2 3 4 7	■ Ⓢ
HFC 1625.06	Z7	WRC 1625	16	25	6	65	A10021625608	1 2 3 5 7	■ Ⓢ
HFC 1625.06	Z9	WRC 1625	16	25	6	65	A10021625609	6 8	■ Ⓢ
HFC 1625.08	Z3	WRC 1625	16	25	8	65	A10021625803	1 2 3 4 7	■ Ⓢ
HFC 1625.08	Z9	WRC 1625	16	25	8	65	A10021625809	6 8	■ Ⓢ

Shape D, Spherical

Ordering example: A10030303302



Packing unit:

1 pc. per type

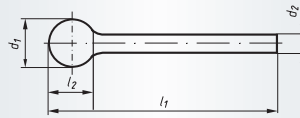
Further dimensions, cuts and shank lengths on request.

Ⓢ regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for	New burrs
HFD 0302.03	Z2	KUD 0302	3	2	3	40	A10030303302	1 5 6 8	■ Ⓢ
HFD 0302.03	Z3	KUD 0302	3	2	3	40	A10030303303	1 2 3 4 7	■ Ⓢ
HFD 0302.03	Z4	KUD 0302	3	2	3	40	A10030303304	2 3 4 7 8	■ Ⓢ
HFD 0302.03	Z5	KUD 0302	3	2	3	40	A10030303305	1 2 3 4 7	■ Ⓢ
HFD 0302.03	Z7	KUD 0302	3	2	3	40	A10030303308	1 2 3 5 7	■ Ⓢ
HFD 0403.03	Z5	KUD 0403	4	3	3	34	A10030403050001	1 2 3 4 7	■ Ⓢ
HFD 0403.03	Z7	KUD 0403	4	3	3	34	A10030403080001	1 2 3 5 7	■ Ⓢ
HFD 0403.06	Z3	KUD 0403	4	3	6	50	A10030404603	1 2 3 4 7	■ Ⓢ
HFD 0403.06	Z4	KUD 0403	4	3	6	50	A10030404604	2 3 4 7 8	■ Ⓢ
HFD 0403.06	Z7	KUD 0403	4	3	6	50	A10030404608	1 2 3 5 7	■ Ⓢ
HFD 0605.03	Z5	KUD 0605	6	5	3	35	A10030606305	1 2 3 4 7	■ Ⓢ
HFD 0605.03	Z7	KUD 0605	6	5	3	35	A10030606308	1 2 3 5 7	■ Ⓢ
HFD 0605.06	Z3	KUD 0605	6	5	6	50	A10030606603	1 2 3 4 7	■ Ⓢ
HFD 0605.06	Z4	KUD 0605	6	5	6	50	A10030606604	2 3 4 7 8	■ Ⓢ
HFD 0605.06	Z5	KUD 0605	6	5	6	50	A10030606605	1 2 3 4 7	■ Ⓢ
HFD 0605.06	Z7	KUD 0605	6	5	6	50	A10030606608	1 2 3 5 7	■ Ⓢ

Shape D, Spherical

Ordering example: A10030808603


































Packing unit:

1 pc. per type

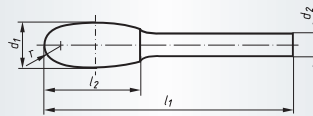
Further dimensions, cuts and shank lengths on request.

 regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for								New burrs		
																		
HFD 0807.06	Z3	KUD 0807	8	7	6	47	A10030808603	1	2	3	4			7			■	
HFD 0807.06	Z4	KUD 0807	8	7	6	47	A10030808604		2	3	4			7	8		■	
HFD 0807.06	Z5	KUD 0807	8	7	6	47	A10030808605	1	2	3	4			7			■	
HFD 0807.06	Z7	KUD 0807	8	7	6	47	A10030808608	1	2	3		5		7			■	
HFD 1009.06	Z3	KUD 1009	10	9	6	49	A10031010603	1	2	3	4			7			■	
HFD 1009.06	Z4	KUD 1009	10	9	6	49	A10031010604		2	3	4			7	8		■	
HFD 1009.06	Z5	KUD 1009	10	9	6	49	A10031010605	1	2	3	6			7			■	
HFD 1009.06	Z7	KUD 1009	10	9	6	49	A10031010608	1	2	3		5		7			■	
HFD 1210.06	Z3	KUD 1210	12	10	6	51	A10031212603	1	2	3	4			7			■	
HFD 1210.06	Z4	KUD 1210	12	10	6	51	A10031212604		2	3	4			7	8		■	
HFD 1210.06	Z5	KUD 1210	12	10	6	51	A10031212605	1	2	3	4			7			■	
HFD 1210.06	Z7	KUD 1210	12	10	6	51	A10031212608	1	2	3		5		7			■	
HFD 1210.06	Z9	KUD 1210	12	10	6	50	A10031212609						6		8		■	
HFD 1210.08	Z3	KUD 1210	12	10	8	51	A10031212803	1	2	3	4			7			■	
HFD 1210.08	Z4	KUD 1210	12	10	8	51	A10031212804		2	3	4			7	8		■	
HFD 1210.08	Z9	KUD 1210	12	10	8	50	A10031212809						6		8		■	
HFD 1614.06	Z3	KUD 1614	16	14	6	54	A10031616603	1	2	3	4			7			■	
HFD 1614.06	Z4	KUD 1614	16	14	6	54	A10031616604		2	3	4			7	8		■	
HFD 1614.06	Z7	KUD 1614	16	14	6	54	A10031616608	1	2	3		5		7			■	
HFD 1614.06	Z9	KUD 1614	16	14	6	54	A10031616609						6		8		■	
HFD 1614.08	Z3	KUD 1614	16	14	8	54	A10031616803	1	2	3	4			7			■	
HFD 1614.08	Z9	KUD 1614	16	14	8	54	A10031616809						6		8		■	
HFD 2018.06	Z3	KUD 2018	20	18	6	58	A10032020603	1	2	3	4			7			■	
HFD 2018.06	Z7	KUD 2018	20	18	6	58	A10032020608	1	2	3		5		7			■	
HFD 2018.08	Z3	KUD 2018	20	18	8	58	A10032020803	1	2	3	4			7			■	

Shape E, Oval

Ordering example: A10060307303



Packing unit:

1 pc. per type

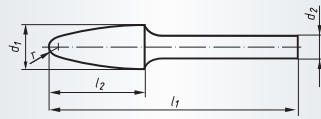
Further dimensions, cuts and shank lengths on request.

Ⓢ regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	r≈ mm	Product-Number	recommended for								New burrs		
									1	2	3	4	5	6	7	8			
HFE 0307.03	Z3	TRE 0307	3	7	3	40	1,2	A10060307303	1	2	3	4			7			■	Ⓢ
HFE 0307.03	Z5	TRE 0307	3	7	3	40	1,2	A10060307305	1	2	3	4			7			■	Ⓢ
HFE 0307.03	Z7	TRE 0307	3	7	3	40	1,2	A10060307308	1	2	3		5		7			■	Ⓢ
HFE 0610.03	Z5	TRE 0610	6	10	3	40	2,8	A10060610305	1	2	3	4			7			■	Ⓢ
HFE 0610.03	Z7	TRE 0610	6	10	3	40	2,8	A10060610308	1	2	3		5		7			■	Ⓢ
HFE 0610.06	Z3	TRE 0610	6	10	6	50	2,8	A10060610603	1	2	3	4			7			■	Ⓢ
HFE 0610.06	Z4	TRE 0610	6	10	6	50	2,8	A10060610604		2	3	4			7	8		■	Ⓢ
HFE 0610.06	Z7	TRE 0610	6	10	6	50	2,8	A10060610608	1	2	3		5		7			■	Ⓢ
HFE 0813.06	Z3	TRE 0813	8	13	6	53	3,7	A10060813603	1	2	3	4			7			■	Ⓢ
HFE 0813.06	Z4	TRE 0813	8	13	6	53	3,7	A10060813604		2	3	4			7	8		■	Ⓢ
HFE 0813.06	Z7	TRE 0813	8	13	6	53	3,7	A10060813608	1	2	3		5		7			■	Ⓢ
HFE 1220.06	Z3	TRE 1220	12	20	6	60	5,0	A10061220603	1	2	3	4			7			■	Ⓢ
HFE 1220.06	Z4	TRE 1220	12	20	6	60	5,0	A10061220604		2	3	4			7	8		■	Ⓢ
HFE 1220.06	Z5	TRE 1220	12	20	6	60	5,0	A10061220605	1	2	3	4			7			■	Ⓢ
HFE 1220.06	Z7	TRE 1220	12	20	6	60	5,0	A10061220608	1	2	3		5		7			■	Ⓢ
HFE 1225.08	Z3	TRE 1225	12	25	8	65	5,0	A10061225803	1	2	3	4			7			■	Ⓢ
HFE 1225.08	Z9	TRE 1225	12	25	8	65	5,0	A10061225809						6		8		■	
HFE 1625.06	Z7	TRE 1625	16	25	6	65	7,1	A10061625608	1	2	3		5		7			■	Ⓢ
HFE 1625.08	Z3	TRE 1625	16	25	8	65	7,1	A10061625803	1	2	3	4			7			■	Ⓢ
HFE 1625.08	Z9	TRE 1625	16	25	8	65	7,1	A10061625809						6		8		■	
HFE 2035.08	Z3	TRE 2035	20	35	8	75	8,0	A10062035803	1	2	3	4			7			■	Ⓢ

Shape F, Arch round nose

Ordering example: A10100307303













































Packing unit:

1 pc. per type

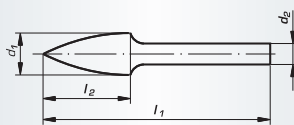
Further dimensions, cuts and shank lengths on request.

 regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	r≈ mm	Product-Number	recommended for								New burrs					
																						
HFF 0307.03	Z3	RBF 0307	3	7	3	40	0,75	A10100307303	1	2	3	4			7						■	
HFF 0307.03	Z4	RBF 0307	3	7	3	40	0,75	A10100307304		2	3	4			7	8					■	
HFF 0307.03	Z5	RBF 0307	3	7	3	40	0,75	A10100307305	1	2	3	4			7						■	
HFF 0313.03	Z5	RBF 0313	3	13	3	40	0,75	A10100313305	1	2	3	4			7						■	
HFF 0313.03	Z7	RBF 0313	3	13	3	40	0,75	A10100313308	1	2	3		5		7						■	
HFF 0613.03	Z5	RBF 0613	6	13	3	43	1,4	A10100613305	1	2	3	4			7						■	
HFF 0613.03	Z7	RBF 0613	6	13	3	43	1,4	A10100613308	1	2	3		5		7						■	
HFF 0618.06	Z3	RBF 0618	6	18	6	50	1,5	A10100618603	1	2	3	4			7						■	
HFF 0618.06	Z4	RBF 0618	6	18	6	50	1,5	A10100618604		2	3	4			7	8					■	
HFF 0618.06	Z5	RBF 0618	6	18	6	50	1,5	A10100618605	1	2	3	4			7						■	
HFF 0618.06	Z7	RBF 0618	6	18	6	50	1,5	A10100618608	1	2	3		5		7						■	
HFF 0820.06	Z3	---	8	20	6	60	1,8	A10100820603	1	2	3	4			7						■	
HFF 0820.06	Z7	---	8	20	6	60	1,8	A10100820608	1	2	3		5		7						■	
HFF 1020.06	Z3	RBF 1020	10	20	6	60	2,5	A10101020603	1	2	3	4			7						■	
HFF 1020.06	Z4	RBF 1020	10	20	6	60	2,5	A10101020604		2	3	4			7	8					■	
HFF 1020.06	Z6	RBF 1020	10	20	6	60	2,5	A10101020606		2	3	4			7	8					■	
HFF 1020.06	Z7	RBF 1020	10	20	6	60	2,5	A10101020608	1	2	3		5		7						■	
HFF 1225.06	Z1	RBF 1225	12	25	6	65	2,5	A10101225601							6		8				■	
HFF 1225.06	Z3	RBF 1225	12	25	6	65	2,5	A10101225603	1	2	3	4			7						■	
HFF 1225.06	Z4	RBF 1225	12	25	6	65	2,5	A10101225604		2	3	4			7	8					■	
HFF 1225.06	Z7	RBF 1225	12	25	6	65	2,5	A10101225608	1	2	3		5		7						■	
HFF 1225.06	Z9	RBF 1225	12	25	6	65	2,5	A10101225609						6		8					■	
HFF 1225.08	Z3	RBF 1225	12	25	8	65	2,5	A10101225803	1	2	3	4			7						■	
HFF 1225.08	Z7	RBF 1225	12	25	8	65	2,5	A10101225808	1	2	3		5		7						■	
HFF 1225.08	Z9	RBF 1225	12	25	8	65	2,5	A10101225809						6		8					■	
HFF 1230.06	Z3	RBF 1230	12	30	6	70	2,7	A10101230603	1	2	3	4			7						■	
HFF 1230.06	Z7	RBF 1230	12	30	6	70	2,7	A10101230608	1	2	3		5		7						■	
HFF 1230.08	Z3	RBF 1230	12	30	8	70	2,7	A10101230803	1	2	3	4			7						■	
HFF 1630.06	Z7	RBF 1630	16	30	6	70	3,6	A10101630608	1	2	3		5		7						■	
HFF 1630.06	Z9	RBF 1630	16	30	6	70	3,6	A10101630609						6		8					■	
HFF 1630.08	Z3	RBF 1630	16	30	8	70	3,6	A10101630803	1	2	3	4			7						■	
HFF 1630.08	Z9	RBF 1630	16	30	8	70	3,6	A10101630809						6		8					■	

Shape G, Arch pointed nose

Ordering example: A10040307305



Packing unit:

1 pc. per type

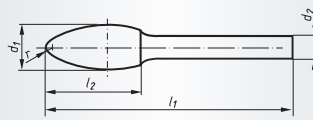
Further dimensions, cuts and shank lengths on request.

Ⓢ regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for								New burrs	
								1	2	3	4	5	6	7	8		
HFG 0307.03	Z5	SPG 0307	3	7	3	40	A10040307305	1	2	3	4		7		■	Ⓢ	
HFG 0307.03	Z7	SPG 0307	3	7	3	40	A10040307308	1	2	3		5	7		■	Ⓢ	
HFG 0313.03	Z3	SPG 0313	3	13	3	40	A10040313303	1	2	3	4		7		■	Ⓢ	
HFG 0313.03	Z4	SPG 0313	3	13	3	40	A10040313304		2	3	4		7	8	■	Ⓢ	
HFG 0313.03	Z5	SPG 0313	3	13	3	40	A10040313305	1	2	3	4		7		■	Ⓢ	
HFG 0313.03	Z7	SPG 0313	3	13	3	40	A10040313308	1	2	3		5	7		■	Ⓢ	
HFG 0613.03	Z5	SPG 0613	6	13	3	43	A10040613305	1	2	3	4		7		■	Ⓢ	
HFG 0613.03	Z7	SPG 0613	6	13	3	43	A10040613308	1	2	3		5	7		■	Ⓢ	
HFG 0618.06	Z1	SPG 0618	6	18	6	50	A10040618601						6		8	■	Ⓢ
HFG 0618.06	Z2	SPG 0618	6	18	6	50	A10040618602	1				5	6		8	■	Ⓢ
HFG 0618.06	Z3	SPG 0618	6	18	6	50	A10040618603	1	2	3	4		7		■	Ⓢ	
HFG 0618.06	Z4	SPG 0618	6	18	6	50	A10040618604		2	3	4		7	8	■	Ⓢ	
HFG 0618.06	Z5	SPG 0618	6	18	6	50	A10040618605	1	2	3	4		7		■	Ⓢ	
HFG 0618.06	Z7	SPG 0618	6	18	6	50	A10040618608	1	2	3		5	7		■	Ⓢ	
HFG 0820.06	Z3	---	8	20	6	60	A10040820603	1	2	3	4		7		■	Ⓢ	
HFG 0820.06	Z7	---	8	20	6	60	A10040820608	1	2	3		5	7		■	Ⓢ	
HFG 1020.06	Z3	SPG 1020	10	20	6	60	A10041020603	1	2	3	4		7		■	Ⓢ	
HFG 1020.06	Z4	SPG 1020	10	20	6	60	A10041020604		2	3	4		7	8	■	Ⓢ	
HFG 1020.06	Z5	SPG 1020	10	20	6	60	A10041020605	1	2	3	4		7		■	Ⓢ	
HFG 1020.06	Z7	SPG 1020	10	20	6	60	A10041020608	1	2	3		5	7		■	Ⓢ	
HFG 1220.06	Z3	SPG 1220	12	20	6	60	A10041220603	1	2	3	4		7		■	Ⓢ	
HFG 1220.06	Z7	SPG 1220	12	20	6	60	A10041220608	1	2	3		5	7		■	Ⓢ	
HFG 1225.06	Z2	SPG 1225	12	25	6	65	A10041225602	1				5	6		8	■	Ⓢ
HFG 1225.06	Z3	SPG 1225	12	25	6	65	A10041225603	1	2	3	4		7		■	Ⓢ	
HFG 1225.06	Z4	SPG 1225	12	25	6	65	A10041225604		2	3	4		7	8	■	Ⓢ	
HFG 1225.06	Z7	SPG 1225	12	25	6	65	A10041225608	1	2	3		5	7		■	Ⓢ	
HFG 1225.08	Z3	SPG 1225	12	25	8	65	A10041225803	1	2	3	4		7		■	Ⓢ	
HFG 1230.06	Z2	SPG 1230	12	30	6	70	A10041230602	1				5	6		8	■	Ⓢ
HFG 1230.06	Z3	SPG 1230	12	30	6	70	A10041230603	1	2	3	4		7		■	Ⓢ	
HFG 1230.06	Z4	SPG 1230	12	30	6	70	A10041230604		2	3	4		7	8	■	Ⓢ	
HFG 1230.06	Z5	SPG 1230	12	30	6	70	A10041230605	1	2	3	4		7		■	Ⓢ	
HFG 1230.06	Z7	SPG 1230	12	30	6	70	A10041230608	1	2	3		5	7		■	Ⓢ	
HFG 1230.08	Z3	SPG 1230	12	30	8	70	A10041230803	1	2	3	4		7		■	Ⓢ	
HFG 1630.06	Z3	SPG 1630	16	30	6	70	A10041630603	1	2	3	4		7		■	Ⓢ	
HFG 1630.06	Z4	SPG 1630	16	30	6	70	A10041630604		2	3	4		7	8	■	Ⓢ	
HFG 1630.06	Z7	SPG 1630	16	30	6	70	A10041630608	1	2	3		5	7		■	Ⓢ	
HFG 1630.08	Z3	SPG 1630	16	30	8	70	A10041630803	1	2	3	4		7		■	Ⓢ	

Shape H, Flame

Ordering example: A10090307305

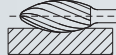



















Packing unit:

1 pc. per type


Further dimensions, cuts and shank lengths on request.

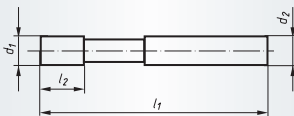
 regrind service, please enquire

Description	Cut	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	r ≈ mm	Product-Number	recommended for								New burrs			
									1	2	3	4	5	6	7		8		
HFH 0307.03	Z5	3	7	3	40	0,8	A10090307305	1	2	3	4			7				■	
HFH 0613.03	Z1	6	13	3	43	1,0	A10090613301							6		8		■	
HFH 0613.03	Z2	6	13	3	43	1,0	A10090613302	1					5	6		8		■	
HFH 0613.03	Z3	6	13	3	43	1,0	A10090613303	1	2	3	4			7				■	
HFH 0613.03	Z4	6	13	3	43	1,0	A10090613304		2	3	4			7	8			■	
HFH 0613.03	Z5	6	13	3	43	1,0	A10090613305	1	2	3	4			7				■	
HFH 0613.03	Z6	6	13	3	43	1,0	A10090613306		2	3	4			7	8			■	
HFH 0613.03	Z7	6	13	3	43	1,0	A10090613308	1	2	3		5		7				■	
HFH 0820.06	Z3	8	20	6	60	1,6	A10090820603	1	2	3	4			7				■	
HFH 0820.06	Z4	8	20	6	60	1,6	A10090820604		2	3	4			7	8			■	
HFH 0820.06	Z7	8	20	6	60	1,6	A10090820608	1	2	3		5		7				■	
HFH 1230.06	Z3	12	30	6	70	2,0	A10091230603	1	2	3	4			7				■	
HFH 1230.06	Z4	12	30	6	70	2,0	A10091230604		2	3	4			7	8			■	
HFH 1230.06	Z7	12	30	6	70	2,0	A10091230608	1	2	3		5		7				■	
HFH 1230.08	Z3	12	30	8	70	2,0	A10091230803	1	2	3	4			7				■	
HFH 1635.06	Z7	16	35	6	75	2,5	A10091635608	1	2	3		5		7				■	
HFH 1635.08	Z3	16	35	8	75	2,5	A10091635803	1	2	3	4			7				■	

Shape I, Internal burr with multi purpose cut

Ordering example: A10010204300






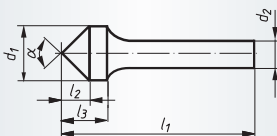
Packing unit:
1 pc. per type
Further dimensions, cuts and shank lengths on request.
Ⓢ regrind service, please enquire

Description	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for	New burrs
HFI 0204.03	2,5	4	3	40	A10010204300	<input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ
HFI 0408.03	4	8	3	50	A10010408300	<input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ
HFI 0610.06	6	10	6	65	A10010610600	<input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ
HFI 0810.06	8	10	6	65	A10010810600	<input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ

Shape J, Pointed nose

Ordering example: A10080660603



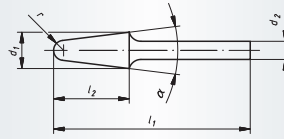


Packing unit:
1 pc. per type
Further dimensions, cuts and shank lengths on request.
Ⓢ regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	l ₃ mm	d ₂ mm	l ₁ mm	α	Product-Number	recommended for	New burrs
HFJ 0605.06	Z3	KSJ 0605	6	5	-	6	50	60°	A10080660603	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ
HFJ 1010.06	Z3	KSK 1005	10	5	10	6	50	90°	A10081090603	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ
HFJ 1013.06	Z3	KSJ 1008	10	9	13	6	53	60°	A10081060603	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ
HFJ 1613.06	Z3	KSK 1608	16	8	13	6	53	90°	A10081690603	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ
HFJ 1613.08	Z3	KSK 1608	16	8	13	8	53	90°	A10081690803	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ
HFJ 1616.06	Z3	KSJ 1613	16	14	16	6	56	60°	A10081660603	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ
HFJ 1616.08	Z3	KSJ 1613	16	14	16	8	56	60°	A10081660803	<input type="checkbox"/> 1 <input type="checkbox"/> 2 <input type="checkbox"/> 3 <input type="checkbox"/> 4 <input type="checkbox"/> 7	■ Ⓢ

Shape L, Conical Round nose

Ordering example: A10070820603

























Packing unit:

1 pc. per type

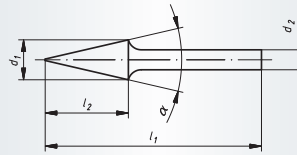
Further dimensions, cuts and shank lengths on request.

 regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	r ≈ mm	α	Product-Number	recommended for								New burrs	
										1	2	3	4	5	6	7	8		
HFL 0820.06	Z3	---	8	20	6	60	1,5	14 °	A10070820603	1	2	3	4			7		■	
HFL 0820.06	Z7	---	8	20	6	60	1,5	14 °	A10070820608	1	2	3		5		7		■	
HFL 0820.06	Z9	---	8	20	6	60	1,5	14 °	A10070820609						6		8	■	
HFL 1015.06	Z3	---	10	15	6	55	3,6	14 °	A10071015603	1	2	3	4			7		■	
HFL 1020.06	Z3	KEL 1020	10	20	6	60	2,9	14 °	A10071020603	1	2	3	4			7		■	
HFL 1020.06	Z7	KEL 1020	10	20	6	60	2,9	14 °	A10071020608	1	2	3		5		7		■	
HFL 1020.06	Z9	KEL 1020	10	20	6	60	2,9	14 °	A10071020609						6		8	■	
HFL 1225.06	Z3	KEL 1225	12	25	6	65	3,3	14 °	A10071225603	1	2	3	4			7		■	
HFL 1225.06	Z4	KEL 1225	12	25	6	65	3,3	14 °	A10071225604		2	3	4			7	8	■	
HFL 1225.06	Z7	KEL 1225	12	25	6	65	3,3	14 °	A10071225608	1	2	3		5		7		■	
HFL 1225.06	Z9	KEL 1225	12	25	6	65	3,3	14 °	A10071225609						6		8	■	
HFL 1225.08	Z3	KEL 1225	12	25	8	65	3,3	14 °	A10071225803	1	2	3	4			7		■	
HFL 1225.08	Z7	KEL 1225	12	25	8	65	3,3	14 °	A10071225808	1	2	3		5		7		■	
HFL 1230.06	Z3	KEL 1230	12	30	6	70	2,6	14 °	A10071230603	1	2	3	4			7		■	
HFL 1230.06	Z4	KEL 1230	12	30	6	70	2,6	14 °	A10071230604		2	3	4			7	8	■	
HFL 1230.06	Z5	KEL 1230	12	30	6	70	2,6	14 °	A10071230605	1	2	3	4			7		■	
HFL 1230.06	Z7	KEL 1230	12	30	6	70	2,6	14 °	A10071230608	1	2	3		5		7		■	
HFL 1230.06	Z9	KEL 1230	12	30	6	70	2,6	14 °	A10071230609						6		8	■	
HFL 1230.08	Z4	KEL 1230	12	30	8	70	2,6	14 °	A10071230804		2	3	4			7	8	■	
HFL 1230.08	Z9	KEL 1230	12	30	8	70	2,6	14 °	A10071230809						6		8	■	
HFL 1630.06	Z3	KEL 1630	16	30	6	70	4,8	14 °	A10071630603	1	2	3	4			7		■	
HFL 1630.06	Z7	KEL 1630	16	30	6	70	4,8	14 °	A10071630608	1	2	3		5		7		■	
HFL 1630.08	Z3	KEL 1630	16	30	8	70	4,8	14 °	A10071630803	1	2	3	4			7		■	
HFL 1630.08	Z9	KEL 1630	16	30	8	70	4,8	14 °	A10071630809						6		8	■	
HFL 2040.08	Z3	KEL 2040	20	40	8	80	5,5	14 °	A10072040803	1	2	3	4			7		■	
HFL 2040.08	Z9	KEL 2040	20	40	8	80	5,5	14 °	A10072040809						6		8	■	

Shape M, Conical Pointed nose

Ordering example: A10050307303



Packing unit:

1 pc. per type

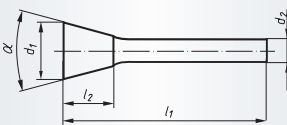
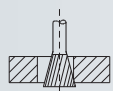
Further dimensions, cuts and shank lengths on request.

regrind service, please enquire

Description	Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	α	Product-Number	recommended for										New burrs	
HFM 0307.03	Z3	SKM 0307	3	7	3	40	22°	A10050307303												
HFM 0307.03	Z5	SKM 0307	3	7	3	40	22°	A10050307305												
HFM 0307.03	Z7	SKM 0307	3	7	3	40	22°	A10050307308												
HFM 0311.03	Z5	SKM 0311	3	11	3	40	14°	A10050311305												
HFM 0311.03	Z7	SKM 0311	3	11	3	40	14°	A10050311308												
HFM 0613.03	Z5	SKM 0613	6	13	3	43	25°	A10050613305												
HFM 0613.03	Z7	SKM 0613	6	13	3	43	25°	A10050613308												
HFM 0618.06	Z3	SKM 0618	6	18	6	50	16°	A10050618603												
HFM 0618.06	Z4	SKM 0618	6	18	6	50	16°	A10050618604												
HFM 0618.06	Z5	SKM 0618	6	18	6	50	16°	A10050618605												
HFM 0618.06	Z7	SKM 0618	6	18	6	50	16°	A10050618608												
HFM 0820.06	Z3	---	8	20	6	60	21°	A10050820603												
HFM 0820.06	Z7	---	8	20	6	60	21°	A10050820608												
HFM 1020.06	Z3	SKM 1020	10	20	6	60	27°	A10051020603												
HFM 1020.06	Z4	SKM 1020	10	20	6	60	27°	A10051020604												
HFM 1020.06	Z7	SKM 1020	10	20	6	60	27°	A10051020608												
HFM 1020.08	Z3	---	10	20	8	60	27°	A10051020803												
HFM 1225.06	Z3	SKM 1225	12	25	6	65	26°	A10051225603												
HFM 1225.06	Z4	SKM 1225	12	25	6	65	26°	A10051225604												
HFM 1225.06	Z7	SKM 1225	12	25	6	65	26°	A10051225608												
HFM 1225.08	Z3	SKM 1225	12	25	8	65	26°	A10051225803												

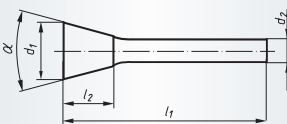
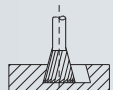
Shape N, Inverted cone

Ordering example: A10120307305

Description		Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	α	Product-Number	recommended for	New burrs
											Packing unit: 1 pc. per type Further dimensions, cuts and shank lengths on request. Ⓢ regrind service, please enquire
											
HFN 0307.03	Z5	WKN 0307	3	7	3	40	10°	A10120307305	1 2 3 4 7	■ Ⓢ	
HFN 0307.03	Z7	WKN 0307	3	7	3	40	10°	A10120307308	1 2 3 5 7	■ Ⓢ	
HFN 0607.03	Z5	WKN 0607	6	7	3	37	10°	A10120607305	1 2 3 4 7	■ Ⓢ	
HFN 0607.06	Z3	WKN 0607	6	7	6	50	10°	A10120607603	1 2 3 4 7	■ Ⓢ	
HFN 0607.06	Z4	WKN 0607	6	7	6	50	10°	A10120607604	2 3 4 7 8	■ Ⓢ	
HFN 0607.06	Z5	WKN 0607	6	7	6	50	10°	A10120607605	1 2 3 4 7	■ Ⓢ	
HFN 1013.06	Z3	WKN 1013	10	13	6	53	10°	A10121013603	1 2 3 4 7	■ Ⓢ	
HFN 1013.06	Z4	WKN 1013	10	13	6	53	10°	A10121013604	2 3 4 7 8	■ Ⓢ	
HFN 1213.06	Z3	WKN 1213	12	13	6	53	20°	A10121213603	1 2 3 4 7	■ Ⓢ	
HFN 1213.06	Z4	WKN 1213	12	13	6	53	20°	A10121213604	2 3 4 7 8	■ Ⓢ	
HFN 1613.08	Z3	WKN 1613	16	13	8	53	20°	A10121613803	1 2 3 4 7	■ Ⓢ	
HFN 2013.06	Z4	---	20	13	6	53	30°	A10122013604	2 3 4 7 8	■ Ⓢ	

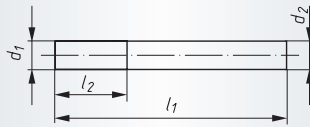
Shape N, Inverted cone with end-cut

Ordering example: A101203073050001

Description		Cut	similar DIN 8033	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	α	Product-Number	recommended for	New burrs
											Packing unit: 1 pc. per type Further dimensions, cuts and shank lengths on request. Ⓢ regrind service, please enquire
											
HFNS 0307.03	Z5	WKN-S 0307	3	7	3	40	10°	A101203073050001	1 2 3 4 7	■ Ⓢ	
HFNS 0307.03	Z7	WKN-S 0307	3	7	3	40	10°	A101203073080001	1 2 3 5 7	■ Ⓢ	
HFNS 0607.03	Z5	WKN-S 0607	6	7	3	37	10°	A101206073050001	1 2 3 4 7	■ Ⓢ	
HFNS 0607.06	Z3	WKN-S 0607	6	7	6	50	10°	A101206076030001	1 2 3 4 7	■ Ⓢ	
HFNS 1013.06	Z3	WKN-S 1013	10	13	6	53	10°	A101210136030001	1 2 3 4 7	■ Ⓢ	
HFNS 1013.06	Z4	WKN-S 1013	10	13	6	53	10°	A101210136040001	2 3 4 7 8	■ Ⓢ	
HFNS 1213.06	Z3	WKN-S 1213	12	13	6	53	20°	A101212136030001	1 2 3 4 7	■ Ⓢ	
HFNS 1213.06	Z4	WKN-S 1213	12	13	6	53	20°	A101212136040001	2 3 4 7 8	■ Ⓢ	
HFNS 1613.06	Z4	WKN-S 1613	16	13	6	53	20°	A101216136040001	2 3 4 7 8	■ Ⓢ	
HFNS 1613.08	Z3	WKN-S 1613	16	13	8	53	20°	A101216138030001	1 2 3 4 7	■ Ⓢ	

Shape P, Burrs for machining plastics

Ordering example: A101603133001



Packing unit:

1 pc. per type

Further dimensions, cuts and shank lengths on request.

Description	end cut	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for	New burrs
HFP 0313.03	01	3	13	3	40	A101603133001		■
HFP 0313.03	02	3	13	3	40	A101603133002		■
HFP 0313.03	03	3	13	3	40	A101603133003		■
HFP 0313.03	04	3	13	3	40	A101603133004		■
HFP 0416.04	02	4	16	4	50	A101604164002		■
HFP 0620.06	01	6	20	6	50	A101606206001		■
HFP 0620.06	02	6	20	6	50	A101606206002		■
HFP 0620.06	04	6	20	6	50	A101606206004		■
HFP 0825.08	01	8	25	8	80	A101608258001		■
HFP 0825.08	02	8	25	8	80	A101608258002		■
HFP 0825.08	04	8	25	8	80	A101608258004		■
HFP 1025.10	02	10	25	10	80	A101610251002		■
HFP 1025.10	04	10	25	10	80	A101610251004		■
HFP 1230.12	02	12	30	12	80	A101612301202		■

Type of end cut:



01 = no end cut



03 = double-flute



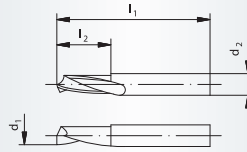
02 = multi-flute



04 = drill type, 120° tip angle

Engraving cutters of solid carbide single flute type

Ordering example:A13150030337102

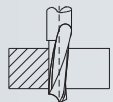


Packing unit:

1 pc. per type

Further dimensions, cuts and shank lengths on request.

Unless otherwise specified, the tolerances are as DIN 7468

Description	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for	New burrs
HGE 0207.03	2	7	3	40	A13150030337102		■
HGE 0307.03	3	7	3	40	A13150030337103		■

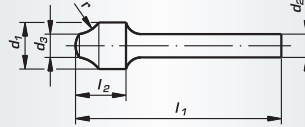
Application: Very well suited for the machining of light metals, non-ferrous metals, plastics and for high-speed-machining of aluminium parts. Cutters with mirror finished flute to allow ideal chip removal and to avoid clogging.

Recommended cutting speeds

Main group of materials	Sub-group	Hardness (HB)	Strength (N/mm ²)	Optimal cutting speed (m/min)
Aluminium, Magnesium	Al, Mg non alloyed	≤ 100	≤ 350	≤ 400
	Al alloyed Si < 0,5%	≤ 150	≤ 500	≤ 400
	Al alloyed Si ≥ 0,5 < 10%	≤ 120	≤ 400	≤ 100
	Al alloyed Si ≥ 10%, Mg-all., Al-Whisker	≤ 120	≤ 400	≤ 70
	Plastics	Thermoplastics	–	–
	Thermo-setting plastics	–	–	–

Shape R, Trimming burr (external)

Ordering example: A10140812603



Packing unit:

1 pc. per type

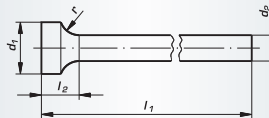
Further dimensions, cuts and shank lengths on request.

Ⓢ regrind service, please enquire

Description	Cut	d ₁ mm	d ₃ mm	l ₂ mm	d ₂ mm	l ₁ mm	r ≈	Product-Number	recommended for	New burrs
HFR 0812.06	Z3	8	3	12	6	52	2,5	A10140812603	1 2 3 4 7	■ Ⓢ
HFR 1015.06	Z3	10	2	15	6	55	8	A10141015603	1 2 3 4 7	■ Ⓢ
HFR 1215.06	Z3	12	6	15	6	55	8	A10141215603	1 2 3 4 7	■ Ⓢ
HFR 1215.08	Z3	12	6	15	8	55	8	A10141215803	1 2 3 4 7	■ Ⓢ
HFR 1315.06	Z3	13	3	15	6	55	10	A10141315603	1 2 3 4 7	■ Ⓢ
HFR 1315.06	Z5	13	3	15	6	55	10	A10141315605	1 2 3 4 7	■ Ⓢ
HFR 1315.08	Z3	13	3	15	8	55	10	A10141315803	1 2 3 4 7	■ Ⓢ

Shape S, Trimming burr (internal)

Ordering example: A10131618803



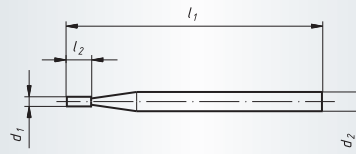
Packing unit:

1 pc. per type

Further dimensions, cuts and shank lengths on request.






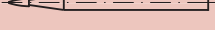

Ⓢ regrind service, please enquire

Description	Cut	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	r ≈ mm	Product-Number	recommended for	New burrs
HFS 1618.08	Z3	16	18	8	120	6	A10131618803	1 2 3 4 7	■ Ⓢ
HFS 1818.08	Z3	18	18	8	120	8	A10131818803	1 2 3 4 7	■ Ⓢ
HFS 2218.08	Z3	22	18	8	120	10	A10132218803	1 2 3 4 7	■ Ⓢ

Miniature burrs with multi-purpose cut
Ordering example: A10010104312

Packing unit:

1 pc. per type

Further dimensions, cuts and shank lengths on request.

Description	Shape	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for	New burrs
HFA 01004.03		1	4	3	40	A10010104312	2 3 4 7	■
HFA 01504.03		1,5	4	3	40	A100101043120001	2 3 4 7	■
HFA 02004.03		2	4	3	40	A10010204312	2 3 4 7	■
HFC 01004.03		1	4	3	40	A10020104312	2 3 4 7	■
HFC 01504.03		1,5	4	3	40	A100201043120001	2 3 4 7	■
HFC 02004.03		2	4	3	40	A10020204312	2 3 4 7	■
HFD 01001.03		1	0,9	3	40	A10030101312	2 3 4 7	■
HFD 01501.03		1,5	1,35	3	40	A100301013120001	2 3 4 7	■
HFD 02002.03		2	1,8	3	40	A10030202312	2 3 4 7	■
HFE 01504.03		1,5	4	3	40	A10060104312	2 3 4 7	■
HFF 01504.03		1,5	4	3	40	A10100104312	2 3 4 7	■
HFG 01504.03		1,5	4	3	40	A10040104312	2 3 4 7	■
HFM 01504.03		1,5	4	3	40	A10050104312	2 3 4 7	■

Application:

- tool manufacture
- precision engineering
- jewellery industry
- turbine manufacture

Power Tool:

- We recommend our pneumatic grinder AMIN 72-013 GD.

Materials to be processed:

- stainless steel
- CrNi alloys
- non-ferrous metals
- zinc diecasting
- soft ceramics
- titanium alloys

Useful hints:

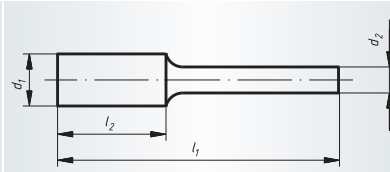
- choose shortest overhang
- concentric running of the collett chuck is very important
- recommended speed: 70.000 rpm

Advantages:

- high dimensional accuracy
- minimal runout
- multi-purpose cut
- micro grain carbide
- precision ground cutting edges

Miniature burrs in cut 5, shank 3 mm

Ordering example: A10010210305



Packing unit:

1 pc. per type

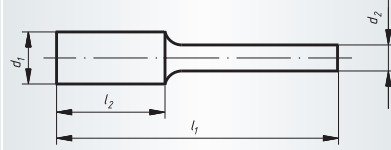
Further dimensions, cuts and shank lengths on request.

regrind service, please enquire

Description	Cut	Shape	similar DIN 8033	Shank H = solid carbide S = Steel	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for							New burrs		
HFA 0210.03	Z5		ZYA 0210	H	2	10	40	A10010210305	1	2	3	4		7				■
HFAS 0210.03	Z5		ZYA-S 0210	H	2	10	40	A100102103050001	1	2	3	4		7				■
HFA 0313.03	Z5		ZYA 0313	H	3	13	40	A10010313305	1	2	3	4		7				■
HFAS 0313.03	Z5		ZYA-S 0313	H	3	13	40	A100103133050001	1	2	3	4		7				■
HFA 0607.03	Z5		ZYA 0607	S	6	7	37	A10010607305	1	2	3	4		7				■
HFAS 0607.03	Z5		ZYA-S 0607	S	6	7	37	A100106073050001	1	2	3	4		7				■
HFA 0613.03	Z5		ZYA 0613	S	6	13	43	A10010613305	1	2	3	4		7				■
HFAS 0613.03	Z5		ZYA-S 0613	S	6	13	43	A100106133050001	1	2	3	4		7				■
HFC 0210.03	Z5		WRC 0210	H	2	10	40	A10020210305	1	2	3	4		7				■
HFC 0313.03	Z5		WRC 0313	H	3	13	40	A10020313305	1	2	3	4		7				■
HFC 0613.03	Z5		WRC 0613	S	6	13	43	A10020613305	1	2	3	4		7				■
HFD 0302.03	Z5		KUD 0302	H	3	2	40	A10030303305	1	2	3	4		7				■
HFD 0403.03	Z5		KUD 0403	H	4	3	34	A100304043050001	1	2	3	4		7				■
HFD 0605.03	Z5		KUD 0605	S	6	5	35	A10030606305	1	2	3	4		7				■
HFE 0307.03	Z5		TRE 0307	H	3	7	40	A10060307305	1	2	3	4		7				■
HFE 0610.03	Z5		TRE 0610	S	6	10	40	A10060610305	1	2	3	4		7				■
HFF 0307.03	Z5		RBF 0307	H	3	7	40	A10100307305	1	2	3	4		7				■
HFF 0313.03	Z5		RBF 0313	H	3	13	40	A10100313305	1	2	3	4		7				■
HFF 0613.03	Z5		RBF 0613	S	6	13	43	A10100613305	1	2	3	4		7				■
HFG 0307.03	Z5		SPG 0307	H	3	7	40	A10040307305	1	2	3	4		7				■
HFG 0313.03	Z5		SPG 0313	H	3	13	40	A10040313305	1	2	3	4		7				■
HFG 0613.03	Z5		SPG 0613	S	6	13	43	A10040613305	1	2	3	4		7				■
HFH 0307.03	Z5		---	H	3	70	40	A10090307305	1	2	3	4		7				■

Miniature burrs in cut 5, shank 3 mm

Ordering example: A10090613305













Packing unit:

1 pc. per type

Further dimensions, cuts and shank lengths on request.

* available only with fine cross-cut

Ⓢ regrind service, please enquire

Description	Cut	Shape	similar DIN 8033	Shank H = solid carbide S = Steel	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for	New burrs
HFH 0613.03	Z5		---	S	6	13	43	A10090613305	1 2 3 4 7	■ Ⓢ
HFI 0204.03	*		---	H	2,5	4	40	A10010204300	1 2 3 4 7	■ Ⓢ
HFI 0408.03	*		---	H	4	6	50	A10010408300	1 2 3 4 7	■ Ⓢ
HFM 0307.03	Z5		SKM 0307	H	3	7	40	A10050307305	1 2 3 4 7	■ Ⓢ
HFM 0311.03	Z5		SKM 0311	H	3	11	40	A10050311305	1 2 3 4 7	■ Ⓢ
HFM 0613.03	Z5		SKM 0613	S	6	13	43	A10050613305	1 2 3 4 7	■ Ⓢ
HFN 0307.03	Z5		WKN 0307	H	3	7	40	A10120307305	1 2 3 4 7	■ Ⓢ
HFNS 0307.03	Z5		WKN-S 0307	H	3	7	40	A101203073050001	1 2 3 4 7	■ Ⓢ
HFN 0607.03	Z5		WKN 0607	S	6	7	37	A10120607305	1 2 3 4 7	■ Ⓢ
HFNS 0607.03	Z5		WKN-S 0607	S	6	7	37	A101206073050001	1 2 3 4 7	■ Ⓢ

Tool-sets, cut 7, shank 3 mm

Ordering example: A10390010



Packing unit:
1 pc. per type

Description	Shank Ø mm	Cut	Contents	1 pc. each	Product-Number	recommended for	
F10 S3	3	Z7	10 pieces	HFA 0313, HFA 0613, HFC 0313, HFC 0613, HFD 0302, HFD 0605, HFG 0313, HFG 0613, HFM 0613, HFF 0313	A10390010	<div style="display: flex; justify-content: space-around;"> 12357 </div>	■

Tool-sets, cut 7, shank 6 mm

Ordering example: A1039001006



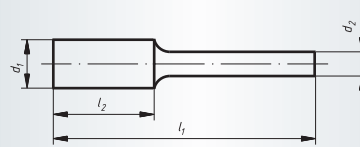
Packing unit:
1 pc. per type

Description	Shank Ø mm	Cut	Contents	1 pc. each	Product-Number	recommended for	
F10 S6	6	Z7	10 pieces	HFAS 0616, HFAS 1225, HFC 0616, HFC 1225, HFD 0605, HFD 1210, HFG 0618, HFG 1225, HFF 0820, HFF 1225	A1039001006	<div style="display: flex; justify-content: space-around;"> 12357 </div>	■

High Performance

Tungsten Carbide Burrs with TiAlN-coating*






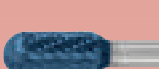












Ordering example:A10010616608TIALN



Packing unit:

1 pc. per type

Further dimensions, cuts and shank lengths on request.

Description	Shape	Cut	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for							New burrs			
								1	2	3	5	7	8	9		10		
HFA 0616.06 Z7 TIALN		Z7	6	16	6	50	A10010616608TIALN	1	2	3	5	7						■
HFA 0820.06 Z7 TIALN		Z7	8	20	6	60	A10010820608TIALN	1	2	3	5	7						■
HFAS 0616.06 Z7 TIALN		Z7	6	16	6	50	A10010616608TIAL1	1	2	3	5	7						■
HFAS 0820.06 Z7 TIALN		Z7	8	20	6	60	A10010820608TIAL1	1	2	3	5	7						■
HFC 0616.06 Z7 TIALN		Z7	6	16	6	50	A10020616608TIALN	1	2	3	5	7						■
HFC 0820.06 Z7 TIALN		Z7	8	20	6	60	A10020820608TIALN	1	2	3	5	7						■
HFC 1020.06 Z7 TIALN		Z7	10	20	6	60	A10021020608TIALN	1	2	3	5	7						■
HFC 1225.06 Z7 TIALN		Z7	12	25	6	65	A10021225608TIALN	1	2	3	5	7						■
HFD 0605.06 Z7 TIALN		Z7	6	5	6	50	A10030606608TIALN	1	2	3	5	7						■
HFD 0807.06 Z7 TIALN		Z7	8	7	6	47	A10030808608TIALN	1	2	3	5	7						■
HFD 1009.06 Z7 TIALN		Z7	10	9	6	49	A10031010608TIALN	1	2	3	5	7						■
HFF 1225.06 Z7 TIALN		Z7	12	25	6	65	A10101225608TIALN	1	2	3	5	7						■
HFG 0618.06 Z7 TIALN		Z7	6	18	6	50	A10040618608TIALN	1	2	3	5	7						■
HFG 1020.06 Z7 TIALN		Z7	10	20	6	60	A10041020608TIALN	1	2	3	5	7						■
HFG 1225.06 Z7 TIALN		Z7	12	25	6	65	A10041225608TIALN	1	2	3	5	7						■
HFH 0820.06 Z7 TIALN		Z7	8	20	6	60	A10090820608TIALN	1	2	3	5	7						■
HFH 1230.06 Z7 TIALN		Z7	12	30	6	70	A10091230608TIALN	1	2	3	5	7						■
HFL 1020.06 Z7 TIALN		Z7	10	20	6	60	A10071020608TIALN	1	2	3	5	7						■

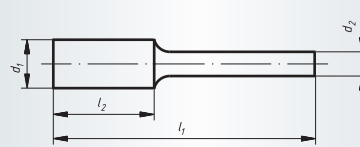
*High performance coating with a high degree of hardness and flow heat conductivity; therefore suitable for high thermal and mechanical applications; very low friction value

The reasons for producing Tungsten Carbide Burrs with TiAlN-coating are as follows:

- to increase tool life
- to reduce machining forces
- to improve chip removal

Burrs for machining non-ferrous metals, cut 9

Ordering example: A10010616609



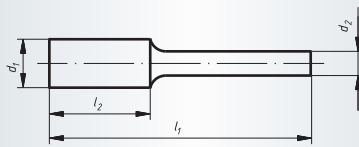
Packing unit:

1 pc. per type

Further dimensions, cuts and shank lengths on request.





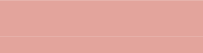








regrind service, please enquire


Description	Cut	Shape	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for						New burrs	
HFA 0616.06	Z9		6	16	6	50	A10010616609					6	8		■
HFA 1225.06	Z9		12	25	6	65	A10011225609					6	8		■
HFA 1225.08	Z9		12	25	8	65	A10011225809					6	8		■
HFA 1625.06	Z9		16	25	6	65	A10011625609					6	8		■
HFA 1625.08	Z9		16	25	8	65	A10011625809					6	8		■
HFC 0616.06	Z9		6	16	6	50	A10020616609					6	8		■
HFC 1225.06	Z9		12	25	6	65	A10021225609					6	8		■
HFC 1225.08	Z9		12	25	8	65	A10021225809					6	8		■
HFC 1625.06	Z9		16	25	6	65	A10021625609					6	8		■
HFC 1625.08	Z9		16	25	8	65	A10021625809					6	8		■
HFD 1210.06	Z9		12	10	6	50	A10031212609					6	8		■
HFD 1210.08	Z9		12	10	8	50	A10031212809					6	8		■
HFD 1614.06	Z9		16	14	6	54	A10031616609					6	8		■
HFD 1614.08	Z9		16	14	8	54	A10031616809					6	8		■
HFE 1225.08	Z9		12	25	8	65	A10061225809					6	8		■
HFE 1625.08	Z9		16	25	8	65	A10061625809					6	8		■
HFF 1225.06	Z9		12	25	6	65	A10101225609					6	8		■
HFF 1225.08	Z9		12	25	8	65	A10101225809					6	8		■
HFF 1630.06	Z9		16	30	6	70	A10101630609					6	8		■
HFF 1630.08	Z9		16	30	8	70	A10101630809					6	8		■
HFL 0820.06	Z9		8	20	6	60	A10070820609					6	8		■
HFL 1020.06	Z9		10	20	6	60	A10071020609					6	8		■
HFL 1225.06	Z9		12	25	6	65	A10071225609					6	8		■
HFL 1230.06	Z9		12	30	6	70	A10071230609					6	8		■
HFL 1230.08	Z9		12	30	8	70	A10071230809					6	8		■
HFL 1630.08	Z9		16	30	8	70	A10071630809					6	8		■
HFL 2040.08	Z9		20	40	8	80	A10072040809					6	8		■


Burrs with extended shank length (shank length 200 mm)
Ordering example: A10011225603200

Packing unit:

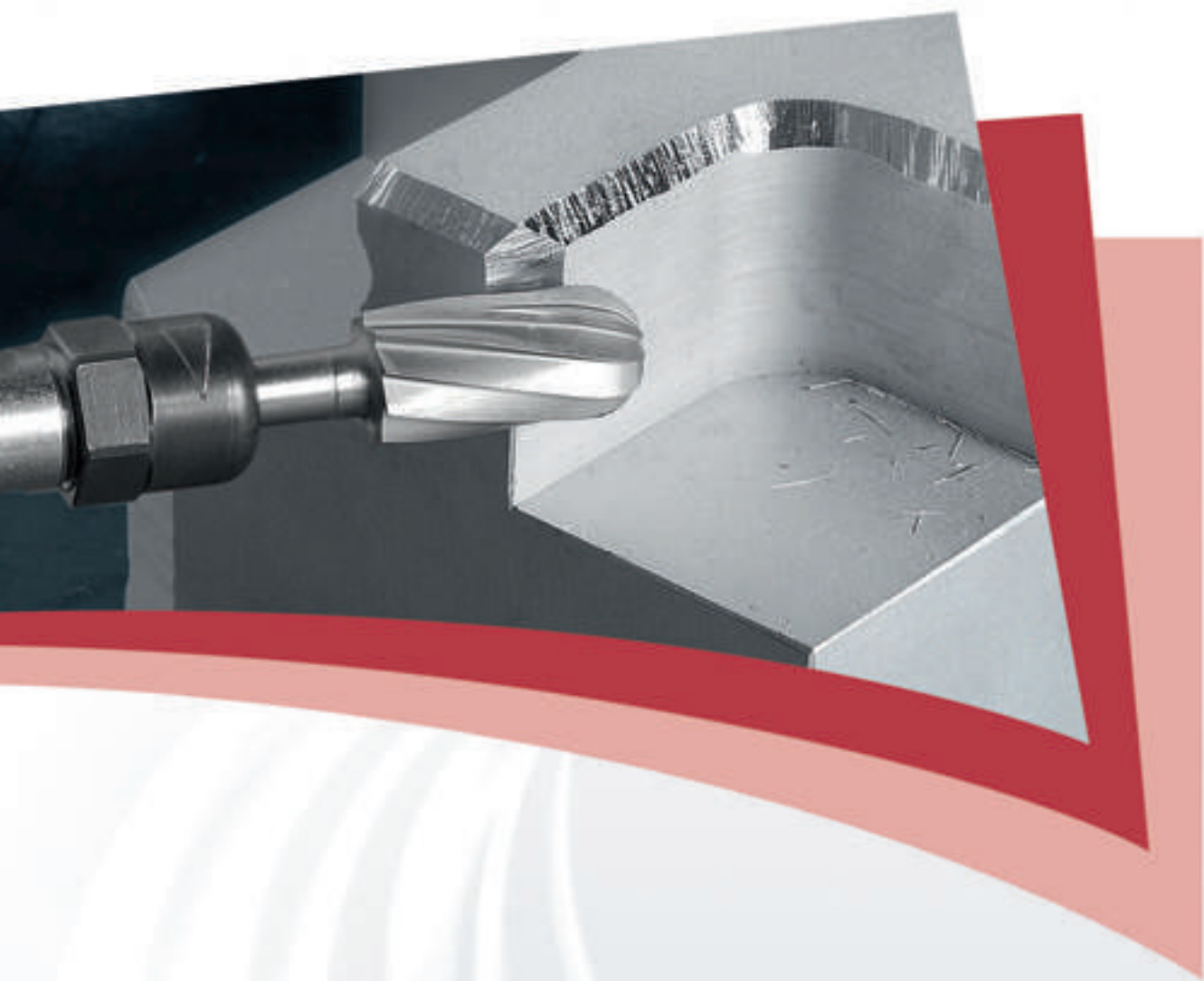
1 pc. per type

Further dimensions, cuts and shank lengths on request.

Description	Shape	Cut	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for							New burrs	
HFA 1225.06 L		Z3	12	25	6	225	A10011225603200	1	2	3	4		7			■
HFA 1225.06 L		Z7	12	25	6	225	A10011225608200	1	2	3		5	7			■
HFC 0616.06 L		Z3	6	16	6	216	A10020616603200	1	2	3	4		7			■
HFC 0616.06 L		Z7	6	16	6	216	A10020616608200	1	2	3		5	7			■
HFC 0820.06 L		Z3	8	20	6	220	A10020820603200	1	2	3	4		7			■
HFC 0820.06 L		Z7	8	20	6	220	A10020820608200	1	2	3		5	7			■
HFC 1225.06 L		Z7	12	25	6	225	A10021225608200	1	2	3		5	7			■
HFD 0605.06 L		Z3	6	5	6	205	A10030605603200	1	2	3	4		7			■
HFD 0605.06 L		Z7	6	5	6	205	A10030605608200	1	2	3		5	7			■
HFD 0807.06 L		Z3	8	7	6	207	A10030807603200	1	2	3	4		7			■
HFD 0807.06 L		Z7	8	7	6	207	A10030807608200	1	2	3		5	7			■
HFD 1009.06 L		Z3	10	9	6	209	A10031009603200	1	2	3	4		7			■
HFD 1009.06 L		Z7	10	9	6	209	A10031009608200	1	2	3		5	7			■
HFD 1210.06 L		Z3	12	10	6	210	A10031210603200	1	2	3	4		7			■
HFD 1210.06 L		Z7	12	10	6	210	A10031210608200	1	2	3		5	7			■
HFD 1210.08 L		Z3	12	10	8	210	A10031210803200	1	2	3	4		7			■
HFD 1210.08 L		Z7	12	10	8	210	A10031210808200	1	2	3		5	7			■
HFE 1220.06 L		Z3	12	20	6	220	A10061220603200	1	2	3	4		7			■
HFE 1220.06 L		Z7	12	20	6	220	A10061220608200	1	2	3		5	7			■
HFE 1220.08 L		Z3	12	20	8	220	A10061220803200	1	2	3	4		7			■
HFE 1220.08 L		Z7	12	20	8	220	A10061220808200	1	2	3		5	7			■
HFF 0618.06 L		Z3	6	18	6	218	A10100618603200	1	2	3	4		7			■
HFF 0618.06 L		Z7	6	18	6	218	A10100618608200	1	2	3		5	7			■
HFF 1230.08 L		Z3	12	30	8	230	A10101230803200	1	2	3	4		7			■
HFF 1230.08 L		Z7	12	30	8	230	A10101230808200	1	2	3		5	7			■
HFG 0618.06 L		Z3	6	18	6	218	A10040618603200	1	2	3	4		7			■
HFG 0618.06 L		Z7	6	18	6	218	A10040618608200	1	2	3		5	7			■
HFG 1230.08 L		Z3	12	30	8	230	A10041230803200	1	2	3	4		7			■
HFG 1230.08 L		Z7	12	30	8	230	A10041230808200	1	2	3		5	7			■
HFH 1020.06 L		Z3	10	20	6	220	A10091020603200	1	2	3	4		7			■
HFH 1020.06 L		Z7	10	20	6	220	A10091020608200	1	2	3		5	7			■
HFH 1230.08 L		Z3	12	30	8	230	A10091230803200	1	2	3	4		7			■
HFH 1230.08 L		Z7	12	30	8	230	A10091230808200	1	2	3		5	7			■

Tools for stationary use		
	<p>Range of application:</p> <ul style="list-style-type: none"> • Tool construction • Turbine construction • Aircraft and space industry • general machine tool construction 	<p>In addition to rotary burrs, we also produce tungsten carbide milling tools in special shapes and sizes for stationary application.</p> <p>We supply these milling cutters with a diameter of 12 mm maximum diameter and with a maximum length of 250 mm; they differ from our extensive standard range by the shape, tool material and geometry (rake, relief and helix angles).</p>
<p>Differential drill, radius mill, shank-end mill, die mill, profile mill</p>		<p>delivery on request</p>

Tools for hand-held and floor-stand application		
	<p>Range of application:</p> <ul style="list-style-type: none"> • general machine tool construction • shipbuilding 	
<p>Trimming burr</p>		<p>delivery on request</p>



Content

High Performance marking

Description	Page
• A summary of available shapes	46
• Technical Information	47
• Types of cut and their application	49
• Burrs of HSS	50

High Performance


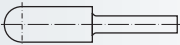

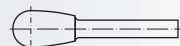






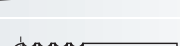

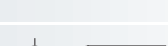



Ordering example:

Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

A summary of available shapes

Shape	Type	Shape (LUKAS)	Page
	Cylindrical	A	50
	Cylindrical round nose	C	52
	Spherical	D	52
	Oval	E	53
	Arch pointed nose	G	54
	Flame	H	54
	Club	K	55
	Conical round nose	L	55
	Conical pointed nose	M	56
	Inverted cone	N	56
	Edge trimming burr	W	57
	Miniature Burrs, Shank 3 mm		58
	Miniature Burrs, Shank 6 mm		60
	Burrs with internal thread		61
	Tools sets		63
	Power Tools		271

Technical Information

Quality

LUKAS HSS burrs are manufactured from high quality and well-proven HSS. Our automatic flute grinding machines and our own heat treatment plant guarantee a top quality product.

Application

Providing the correct type and speed are used, LUKAS HSS burrs will economically machine a wide variety of materials. Regarding cutting speeds, please refer to the table on page 48 or according to the table illustrating the various cuts on page 49. A rule of thumb: Coarse cuts for soft materials – fine cuts for hard materials. The file cuts H1, H2 and H3 are „rotary files“ and run more smoothly than toothed burrs. For higher stock removal rates, toothed burrs should be used.

Power tools

LUKAS HSS burrs can be used on any air or electric powered machines. To achieve the optimal performance, the machines must be run at the correct speed, the collets must run true, and the bearings to be in good condition.

Shanks

Standard shank length is 40 mm. To reach inaccessible working areas, extra long shanks are available on request.

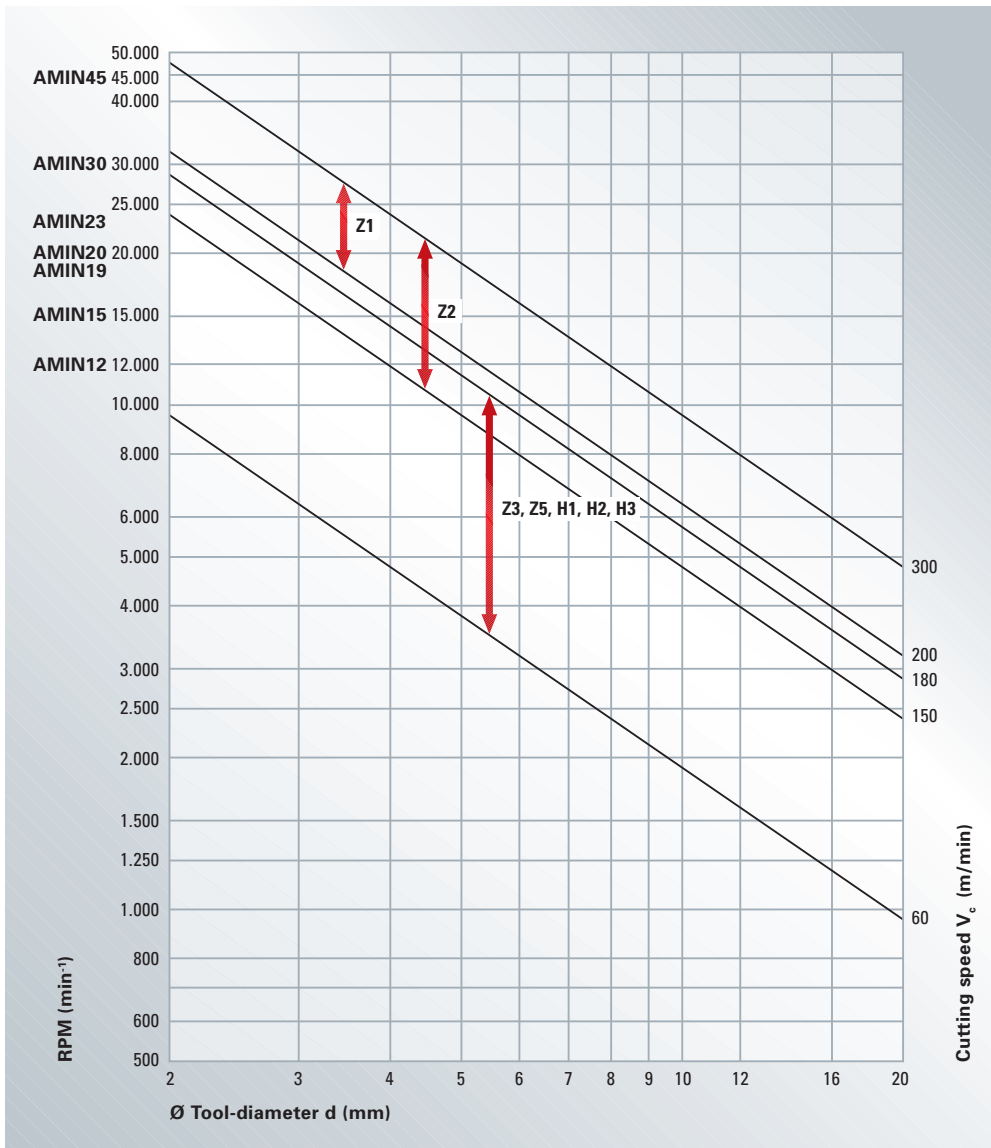
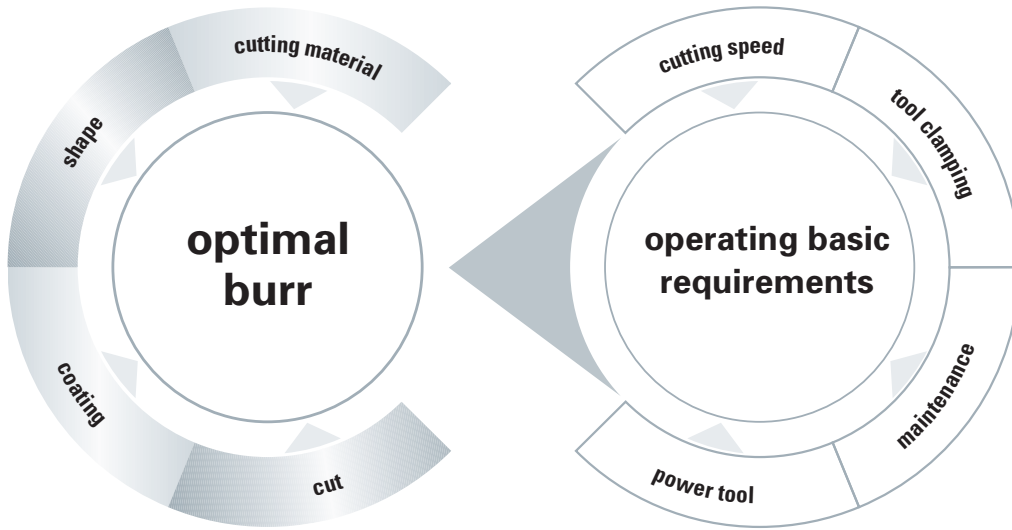
Packaging

Depending on burr dimension and quantity ordered, we choose the most appropriate packing method from our environmentally-friendly unit packs (5 or 10 pieces).




Special tools

We can manufacture HSS burrs to your design and drawing and guarantee the usual high quality LUKAS standard.

Choosing the appropriate Burr



Types of cut and their application

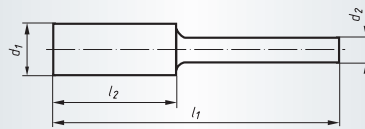
The following types are available for specific applications	Specification (LUKAS)	Recommended application	Recommended cutting speed low high
	Z 1	Light metals (long chip), light metal alloys, lead, tin, thermo- and thermo-setting plastics, fibre, rubber, wood	v = 200 – 300 m/min
	Z 2	Light metals (short chip), brass, copper, electrolytic copper, gunmetal, bronze, zinc, magnesium base alloys (Electron)	v = 150 – 300 m/min
	Z 3	Steel and cast steel, alloyed and non-alloyed	v = 60 – 180 m/min
	Z 5	Fine machining of steel and cast steel, alloyed and non-alloyed; non smearing non-ferrous metals	v = 60 – 180 m/min

Burrs of cut 2 and 3 are always supplied with chip-breaker.

We manufacture the following types of rotary files for special applications	Specification (LUKAS)	Recommended application	Recommended cutting speed low high
	H 1	Steel, cast iron, malleable iron	v = 60 – 180 m/min
	H 2	Steel and cast steel, alloyed and non-alloyed	v = 60 – 180 m/min
	H 3	Steel and cast steel, alloyed and non-alloyed	v = 60 – 180 m/min

Shape A, Cylindrical

Ordering example: A12000304605



Packing unit:

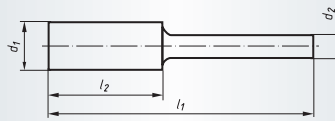
up to d_1 10 mm = 10 pc. per type
 from d_1 12 mm = 5 pc. per type

Further dimensions, cuts and shank lengths on request.

Description	Cut	d ₁ mm	l ₂ mm	l ₁ mm	d ₂ mm	Product-Number	recommended for										New burrs				
							1	2	3	4	5	6	7	8	9	10					
MFA 0304.06	Z5	3	4,5	60	6	A12000304605	1	2					6								■
MFA 0607.06	Z5	6	7	60	6	A12000607605	1	2					6								■
MFA 0616.06	Z1	6	16	56	6	A12000616601							6		8						■
MFA 0616.06	Z2	6	16	56	6	A12000616602							6		8						■
MFA 0616.06	Z3	6	16	56	6	A12000616603	1	2													■
MFA 0616.06	Z5	6	16	56	6	A12000616605	1	2					6								■
MFA 0820.06	Z3	8	20	60	6	A12000820603	1	2													■
MFA 1013.06	Z2	10	13	53	6	A12001013602							6		8						■
MFA 1013.06	Z3	10	13	53	6	A12001013603	1	2													■
MFA 1020.06	Z3	10	20	60	6	A12001020603	1	2													■
MFA 1225.06	Z1	12	25	65	6	A12001225601							6		8						■
MFA 1225.06	Z2	12	25	65	6	A12001225602							6		8						■
MFA 1225.06	Z3	12	25	65	6	A12001225603	1	2													■
MFA 1225.06	Z5	12	25	65	6	A12001225605	1	2					6								■
MFA 1625.06	Z1	16	25	65	6	A12001625601							6		8						■
MFA 1625.06	Z2	16	25	65	6	A12001625602							6		8						■
MFA 1625.06	Z3	16	25	65	6	A12001625603	1	2													■

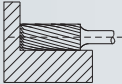
Shape A, Cylinder with end-cut

Ordering example: A120006166010001


Packing unit:

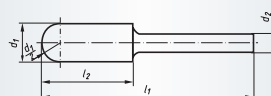
 up to d_1 10 mm = 10 pc. per type
 from d_1 12 mm = 5 pc. per type

Further dimensions, cuts and shank lengths on request.

Description	Cut	d ₁ mm	l ₂ mm	l ₁ mm	d ₂ mm	Product-Number	recommended for										New burrs				
																					
MFAS 0616.06	Z1	6	16	56	6	A120006166010001											6	8			■
MFAS 0616.06	Z2	6	16	56	6	A120006166020001											6	8			■
MFAS 0616.06	Z3	6	16	56	6	A120006166030001	1	2													■
MFAS 0616.06	Z5	6	16	56	6	A120006166050001	1	2									6				■
MFAS 0616.06	H1	6	16	56	6	A120006166110001	1										5			8	■
MFAS 0616.06	H2	6	16	56	6	A120006166120001	1	2													■
MFAS 0616.06	H3	6	16	56	6	A120006166130001	1	2													■
MFAS 0820.06	Z3	8	20	60	6	A120008206030001	1	2													■
MFAS 1013.06	Z2	10	13	53	6	A120010136020001												6	8		■
MFAS 1013.06	Z3	10	13	53	6	A120010136030001	1	2													■
MFAS 1225.06	Z1	12	25	65	6	A120012256010001												6	8		■
MFAS 1225.06	Z2	12	25	65	6	A120012256020001												6	8		■
MFAS 1225.06	Z3	12	25	65	6	A120012256030001	1	2													■
MFAS 1225.06	H1	12	25	65	6	A120012256110001	1											5		8	■
MFAS 1225.06	H2	12	25	65	6	A120012256120001	1	2													■
MFAS 1625.06	Z1	16	25	65	6	A120016256010001												6	8		■
MFAS 1625.06	Z2	16	25	65	6	A120016256020001												6	8		■
MFAS 1625.06	Z3	16	25	65	6	A120016256030001	1	2													■
MFAS 1625.06	H1	16	25	65	6	A120016256110001	1											5		8	■

Shape C, Round nose

Ordering example: A12010304605



Packing unit:

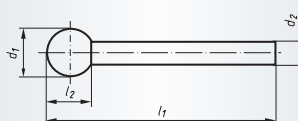
up to d_1 10 mm = 10 pc. per type
from d_1 12 mm = 5 pc. per type

Further dimensions, cuts and shank lengths on request.

Description	Cut	d_1 mm	l_2 mm	l_1 mm	d_2 mm	Product-Number	recommended for	New burrs
MFC 0304.06	Z5	3	4,5	60	6	A12010304605	① ② ⑥	■
MFC 0620.06	Z1	6	20	60	6	A12010620601	⑥ ⑧	■
MFC 0620.06	Z2	6	20	60	6	A12010620602	⑥ ⑧	■
MFC 0620.06	Z3	6	20	60	6	A12010620603	① ②	■
MFC 0620.06	Z5	6	20	60	6	A12010620605	① ② ⑥	■
MFC 0620.06	H3	6	20	60	6	A12010620613	① ②	■
MFC 0820.06	Z3	8	20	60	6	A12010820603	① ②	■
MFC 0850.06	Z1	8	50	90	6	A12010850601	⑥ ⑧	■
MFC 0850.06	Z2	8	50	90	6	A12010850602	⑥ ⑧	■
MFC 1020.06	Z3	10	20	60	6	A12011020603	① ②	■
MFC 1225.06	Z1	12	25	65	6	A12011225601	⑥ ⑧	■
MFC 1225.06	Z2	12	25	65	6	A12011225602	⑥ ⑧	■
MFC 1225.06	Z3	12	25	65	6	A12011225603	① ②	■
MFC 1225.06	Z5	12	25	65	6	A12011225605	① ② ⑥	■
MFC 1225.06	H1	12	25	65	6	A12011225611	① ⑤ ⑧	■
MFC 1225.06	H2	12	25	65	6	A12011225612	① ②	■

Shape D, Spherical

Ordering example: A12050303603



Packing unit:

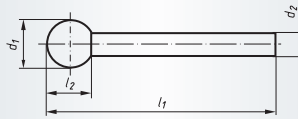
up to d_1 10 mm = 10 pc. per type
from d_1 12 mm = 5 pc. per type

Further dimensions, cuts and shank lengths on request.

Description	Cut	d_1 mm	l_2 mm	d_2 mm	l_1 mm	Product-Number	recommended for	New burrs
MFD 0302.06	Z3	3	2	6	60	A12050303603	① ②	■
MFD 0303.06	Z3	3,5	3	6	60	A120503036030001	① ②	■
MFD 0403.06	Z3	4	3	6	60	A12050404603	① ②	■
MFD 0404.06	Z2	4,5	4	6	60	A120504046020001	⑥ ⑧	■
MFD 0404.06	Z3	4,5	4	6	60	A120504046030001	① ②	■
MFD 0504.06	Z3	5	4	6	60	A12050505603	① ②	■
MFD 0605.06	Z2	6	5	6	60	A12050606602	⑥ ⑧	■
MFD 0605.06	Z3	6	5	6	60	A12050606603	① ②	■
MFD 0807.06	Z1	8	7	6	60	A12050808601	⑥ ⑧	■

Shape D, Spherical

Ordering example: A12050808602

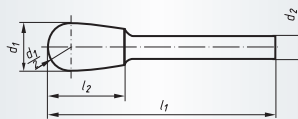

Packing unit:

 up to d_1 10 mm = 10 pc. per type
 from d_1 12 mm = 5 pc. per type
 Further dimensions, cuts and shank lengths on request.

Description	Cut	d_1 mm	l_2 mm	d_2 mm	l_1 mm	Product-Number	recommended for								New burrs
MFD 0807.06	Z2	8	7	6	60	A12050808602							6	8	■
MFD 0807.06	Z3	8	7	6	60	A12050808603	1	2							■
MFD 0807.06	Z5	8	7	6	60	A12050808605	1	2				6			■
MFD 0807.06	H2	8	7	6	60	A12050808612	1	2							■
MFD 0807.06	H3	8	7	6	60	A12050808613	1	2							■
MFD 1009.06	Z2	10	9	6	60	A12051010602							6	8	■
MFD 1009.06	Z3	10	9	6	60	A12051010603	1	2							■
MFD 1009.06	Z5	10	9	6	60	A12051010605	1	2				6			■
MFD 1210.06	Z1	12	10	6	60	A12051212601							6	8	■
MFD 1210.06	Z2	12	10	6	60	A12051212602							6	8	■
MFD 1210.06	Z3	12	10	6	60	A12051212603	1	2							■
MFD 1614.06	Z1	16	14	6	60	A12051614601							6	8	■
MFD 1614.06	Z2	16	14	6	60	A12051614602							6	8	■
MFD 1614.06	Z3	16	14	6	60	A12051614603	1	2							■

Shape E, Oval

Ordering example: A12080607605

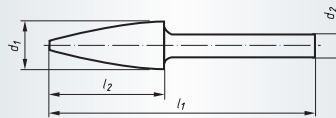

Packing unit:

 up to d_1 10 mm = 10 pc. per type
 from d_1 12 mm = 5 pc. per type
 Further dimensions, cuts and shank lengths on request.

Description	Cut	d_1 mm	l_2 mm	d_2 mm	l_1 mm	Product-Number	recommended for								New burrs
MFE 0607.06	Z5	6	7	6	60	A12080607605	1	2					6		■
MFE 1220.06	Z1	12	20	6	60	A12081220601							6	8	■
MFE 1220.06	Z3	12	20	6	60	A12081220603	1	2							■
MFE 1625.06	Z1	16	25	6	60	A12081625601							6	8	■
MFE 1625.06	Z2	16	25	6	60	A12081625602							6	8	■
MFE 1625.06	Z3	16	25	6	60	A12081625603	1	2							■

Shape G, Arch pointed nose

Ordering example: A12060618601



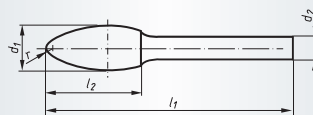
Packing unit:

up to d_1 10 mm = 10 pc. per type
 from d_1 12 mm = 5 pc. per type
 Further dimensions, cuts and shank lengths on request.

Description	Cut	d_1 mm	l_2 mm	d_2 mm	l_1 mm	Product-Number	recommended for								New burrs
MFG 0618.06	Z1	6	18	6	58	A12060618601							6	8	■
MFG 0618.06	Z2	6	18	6	58	A12060618602							6	8	■
MFG 0618.06	Z3	6	18	6	58	A12060618603	1	2							■
MFG 0618.06	H1	6	18	6	58	A12060618611	1				5			8	■
MFG 0618.06	H2	6	18	6	58	A12060618612	1	2							■
MFG 0618.06	H3	6	18	6	58	A12060618613	1	2							■
MFG 1220.06	Z1	12	20	6	60	A12061220601							6	8	■
MFG 1220.06	Z2	12	20	6	60	A12061220602							6	8	■
MFG 1220.06	Z3	12	20	6	60	A12061220603	1	2							■
MFG 1225.06	Z3	12	25	6	65	A12061225603	1	2							■
MFG 1230.06	Z1	12	30	6	70	A12061230601							6	8	■
MFG 1230.06	Z2	12	30	6	70	A12061230602							6	8	■
MFG 1230.06	Z3	12	30	6	70	A12061230603	1	2							■
MFG 1230.06	Z5	12	30	6	70	A12061230605	1	2					6		■
MFG 1230.06	H1	12	30	6	70	A12061230611	1				5			8	■
MFG 1230.06	H2	12	30	6	70	A12061230612	1	2							■
MFG 1230.06	H3	12	30	6	70	A12061230613	1	2							■
MFG 1630.06	Z1	16	30	6	70	A12061630601							6	8	■
MFG 1630.06	Z2	16	30	6	70	A12061630602							6	8	■
MFG 1630.06	Z3	16	30	6	70	A12061630603	1	2							■
MFG 1630.06	Z5	16	30	6	70	A12061630605	1	2					6		■

Shape H, Flame

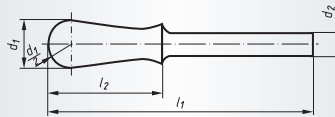
Ordering example: A12070305605



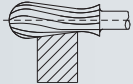
Packing unit:

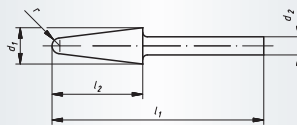
up to d_1 10 mm = 10 pc. per type
 from d_1 12 mm = 5 pc. per type
 Further dimensions, cuts and shank lengths on request.

Description	Cut	d_1 mm	l_2 mm	d_2 mm	l_1 mm	r	Product-Number	recommended for								New burrs
MFH 0305.06	Z5	3	5	6	60	--	A12070305605	1	2				6		■	
MFH 0820.06	Z3	8	20	6	60	1,3	A12070820603	1	2						■	
MFH 1230.06	Z3	12	30	6	70	1,9	A12071230603	1	2						■	
MFH 1635.06	Z3	16	35	6	75	2,4	A12071635603	1	2						■	
MFH 1750.08	Z1	17	50	8	80	--	A12071750801						6	8	■	

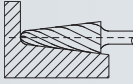
Shape K, Club
Ordering example: A12090620602

Packing unit:

up to d_1 10 mm = 10 pc. per type
 from d_1 12 mm = 5 pc. per type
 Further dimensions, cuts and shank lengths on request.

Description	Cut	d_1 mm	l_2 mm	d_2 mm	l_1 mm	Product-Number	recommended for								New burrs		
																	
MFK 0620.06	Z2	6	20	6	60	A12090620602							⑥		⑧		■
MFK 0620.06	Z3	6	20	6	60	A12090620603	①	②									■
MFK 1230.06	Z2	12	30	6	70	A12091230602							⑥		⑧		■
MFK 1230.06	Z3	12	30	6	70	A12091230603	①	②									■

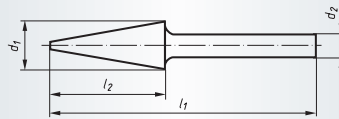
Shape L, Round nose
Ordering example: A12031020602

Packing unit:

up to d_1 10 mm = 10 pc. per type
 from d_1 12 mm = 5 pc. per type
 Further dimensions, cuts and shank lengths on request.

Description	Cut	d_1 mm	l_2 mm	d_2 mm	l_1 mm	$r \approx$	Product-Number	recommended for								New burrs		
																		
MFL 1020.06	Z2	10	20	6	60	2,9	A12031020602							⑥		⑧		■
MFL 1020.06	Z3	10	20	6	60	2,9	A12031020603	①	②									■
MFL 1230.06	Z3	12	30	6	70	2,6	A12031230603	①	②									■
MFL 1630.06	Z1	16	30	6	70	4,8	A12031630601							⑥		⑧		■
MFL 1630.06	Z2	16	30	6	70	4,8	A12031630602							⑥		⑧		■
MFL 1630.06	Z3	16	30	6	70	4,8	A12031630603	①	②									■
MFL 1630.06	Z5	16	30	6	70	4,8	A12031630605	①	②					⑥				■

Shape M, Pointed nose

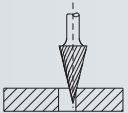
Ordering example: A12020304605



Packing unit:

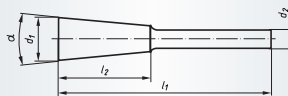
up to d_1 10 mm = 10 pc. per type
from d_1 12 mm = 5 pc. per type

Further dimensions, cuts and shank lengths on request.

Description	Cut	d_1 mm	l_2 mm	d_2 mm	l_1 mm	Product-Number	recommended for	New burrs
MFM 0304.06	Z5	3	4,5	6	60	A12020304605		■
MFM 0607.06	Z5	6	7	6	60	A12020607605		■
MFM 0618.06	Z1	6	18	6	58	A12020618601		■
MFM 0618.06	Z2	6	18	6	58	A12020618602		■
MFM 0618.06	Z3	6	18	6	58	A12020618603		■
MFM 0618.06	H2	6	18	6	58	A12020618612		■
MFM 0820.06	Z3	8	20	6	60	A12020820603		■
MFM 1020.06	Z2	10	20	6	60	A12021020602		■
MFM 1020.06	Z3	10	20	6	60	A12021020603		■
MFM 1225.06	Z1	12	25	6	65	A12021225601		■
MFM 1225.06	Z3	12	25	6	65	A12021225603		■
MFM 1230.06	Z1	12	30	6	70	A12021230601		■
MFM 1230.06	Z2	12	30	6	70	A12021230602		■
MFM 1230.06	Z3	12	30	6	70	A12021230603		■
MFM 1230.06	Z5	12	30	6	70	A12021230605		■
MFM 1230.06	H2	12	30	6	70	A12021230612		■

Shape N, Inverted cone

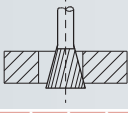
Ordering example: A12040303605




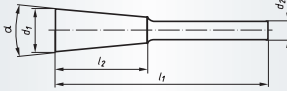
Packing unit:

up to d_1 10 mm = 10 pc. per type
from d_1 12 mm = 5 pc. per type


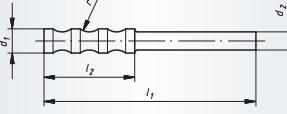
Further dimensions, cuts and shank lengths on request.

Description	Cut	d_1 mm	l_2 mm	d_2 mm	l_1 mm	α	Product-Number	recommended for	New burrs
MFN 0303.06	Z5	3	3	6	60	20°	A12040303605		■
MFN 0606.06	Z5	6	6	6	60	20°	A12040606605		■
MFN 1213.06	Z1	12	13	6	53	17°	A12041213601		■
MFN 1213.06	Z3	12	13	6	53	17°	A12041213603		■
MFN 1230.06	Z3	12	30	6	70	8°	A12041230603		■

Shape N, Inverted with end-cut
Ordering example: A120412136010001

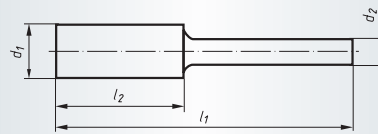
							Packing unit: 5 pc. per type Further dimensions, cuts and shank lengths on request.									
Description	Cut	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	α	Product-Number	recommended for						New burrs		
MFNS 1213.06	Z1	12	13	6	53	17°	A120412136010001						6	8		■
MFNS 1213.06	Z3	12	13	6	53	17°	A120412136030001	1	2							■
MFNS 1230.06	Z3	12	30	6	70	8°	A120412306030001	1	2							■

Shape W, Cylindrical multiple concave burrs
Ordering example: A12430340

							Packing unit: 10 pc. per type Further dimensions, cuts and shank lengths on request.									
Description	Cut	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	r ≈	Product-Number	recommended for						New burrs		
MFW 0620.06	16	6	20	6	60	3	A12430340	1	2				6			■
MFW 0830.06	18	8	30	6	70	5	A12433401	1	2				6			■

Miniature Burrs, shank 3 mm

Ordering example: A1236082705

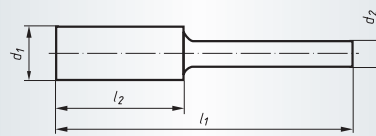


Packing unit:

up to d₁ 10 mm = 10 pc. per type
from d₁ 12 mm = 5 pc. per type










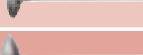










Further dimensions, cuts and shank lengths on request.

Description	Shape	Cut	d ₁ mm	l ₂ mm	l ₁ mm	Product-Number	recommended for											New burrs				
MF 827		Z5	4	2,8	40	A1236082705	1	2								6						■
MF 828		Z5	5	3,5	41	A1236082805	1	2								6						■
MF 829		Z5	6	4,2	41	A1236082905	1	2								6						■
MF 831		Z5	8	5,5	43	A1236083105	1	2								6						■
MF 837		Z5	6	6	43	A1236083705	1	2								6						■
MF 839		Z5	8	8	45	A1236083905	1	2								6						■
MF 840		Z5	1,6	2,8	40	A1237084005	1	2								6						■
MF 841		Z5	2,3	4	41	A1237084105	1	2								6						■
MF 842		Z5	3,2	5,6	43	A1237084205	1	2								6						■
MF 843		Z5	4	7	44	A1237084305	1	2								6						■
MF 844		Z5	5	8,7	46	A1237084405	1	2								6						■
MF 845		Z5	6	10,5	46	A1237084505	1	2								6						■
MF 846		Z5	7	12,5	46	A1237084605	1	2								6						■
MF 847		Z5	8	14	46	A1237084705	1	2								6						■
MF 848		Z5	1,6	1,5	38	A1238084805	1	2								6						■
MF 849		Z5	2,3	2,1	39	A1238084905	1	2								6						■
MF 850		Z5	3,2	3	40	A1238085005	1	2								6						■
MF 851		Z5	4	3,8	41	A1238085105	1	2								6						■
MF 852		Z5	5	4,8	42	A1238085205	1	2								6						■
MF 853		Z5	6	5,6	43	A1238085305	1	2								6						■

Miniature Burrs, shank 3 mm
Ordering example: A1238085405

Packing unit:

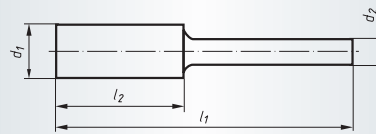
 up to d_1 10 mm = 10 pc. per type
 from d_1 12 mm = 5 pc. per type

Further dimensions, cuts and shank lengths on request.












Description	Shape	Cut	d ₁ mm	l ₂ mm	l ₁ mm	Product-Number	recommended for										New burrs				
MF 854		Z5	7	6,7	44	A1238085405	1	2					6								■
MF 855		Z5	8	7,7	45	A1238085505	1	2					6								■
MF 802		Z5	7	8	40	A1235080205	1	2					6								■
MF 806		Z5	7	7,5	40	A1235080605	1	2					6								■
MF 807		Z5	7	10	42	A1235080705	1	2					6								■
MF 808		Z5	8	11	43	A1235080805	1	2					6								■
MF 813		Z5	7	10	42	A1235081305	1	2					6								■
MF 814		Z5	6	10	42	A1235081405	1	2					6								■
MF 815		Z5	7	12	44	A1235081505	1	2					6								■
MF 864		Z5	8	2	39	A1239086405	1	2					6								■
MF 865		Z5	10	2,5	40	A1239086505	1	2					6								■
MF 866		Z5	12	3	40	A1239086605	1	2					6								■
MF 867		Z5	14	3,5	41	A1239086705	1	2					6								■
MF 868		Z5	8	2	39	A1240086805	1	2					6								■
MF 869		Z5	10	2,3	39	A1240086905	1	2					6								■
MF 870		Z5	12	2,6	40	A1240087005	1	2					6								■
MF 871		Z5	14	3	40	A1240087105	1	2					6								■
MF 872		Z5	6	1	38	A1241087205	1	2					6								■
MF 873		Z5	8	1	38	A1241087305	1	2					6								■
MF 874		Z5	10	1	38	A1241087405	1	2					6								■

Miniature Burrs, shank 6 mm

Ordering example: A12000304605

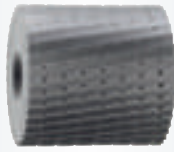


Packing unit:
10 pc. per type
Further dimensions, cuts and shank lengths on request.

Description	Shape	Cut	d ₁ mm	l ₂ mm	l ₁ mm	Product-Number	recommended for										New burrs						
MFA 0304.06		Z5	3	4,5	60	A12000304605	1	2					6										■
MFA 0607.06		Z5	6	7	60	A12000607605	1	2					6										■
MFC 0304.06		Z5	3	4,5	60	A12010304605	1	2					6										■
MFD 0302.06		Z3	3	2	60	A12050303603	1	2															■
MFD 0303.06		Z3	3,5	3	60	A120503036030001	1	2															■
MFE 0607.06		Z5	6	7	60	A12080607605	1	2					6										■
MFH 0305.06		Z5	3	5	60	A12070305605	1	2					6										■
MFM 0304.06		Z5	3	4,5	60	A12020304605	1	2					6										■
MFM 0607.06		Z5	6	7	60	A12020607605	1	2					6										■
MFN 0303.06		Z5	3	3	60 (20°)	A12040303605	1	2					6										■
MFN 0606.06		Z5	6	6	60 (20°)	A12040606605	1	2					6										■

Burrs with internal thread

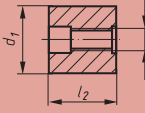
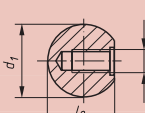
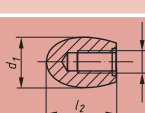
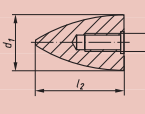
Ordering example: A122022150803


Packing unit:

2 pc. per type

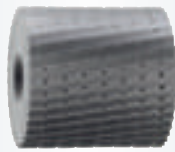
MFAS = with end-cut

Further dimensions, cuts and shank lengths on request.

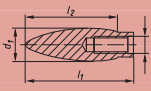
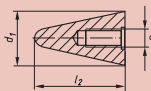
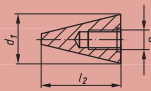
Description	Shape	Cut	d ₁ mm	l ₂ mm	B mm	Product-Number	recommended for								New burrs	
							1	2	3	4	5	6	7	8		
MFA 2215.08		Z3	22	15	M 8	A122022150803	1	2	3	4		7				■
MFA 3030.10		Z2	30	30	M 10	A122030301002	1				5	6		8		■
MFAS 2215.08		Z3	22	15	M 8	A1220221508030001	1	2	3	4		7				■
MFAS 3030.10		Z2	30	30	M 10	A1220303010020001	1				5	6		8		■
MFD 2018.08		Z1	20	18	M 8	A122520180801						6		8		■
MFD 2018.08		Z3	20	18	M 8	A122520180803	1	2	3	4		7				■
MFD 2522.10		Z1	25	22	M 10	A122525221001						6		8		■
MFD 2522.10		Z2	25	22	M 10	A122525221002	1				5	6		8		■
MFD 3027.12		Z3	30	27	M 12	A122530271203	1	2	3	4		7			■	
MFD 3532.12		Z3	35	32	M 12	A122535321203	1	2	3	4		7			■	
MFE 2535.12		Z3	25	35	M 12	A122825351203	1	2	3	4		7			■	
MFG 2045.10		Z2	20	45/55	M 10	A122620451002	1				5	6		8		■
MFG 3555.12		Z1	35	55	M 12	A122635551201						6		8		■


Burrs with internal thread


Ordering example: A122720551001



Packing unit:
1 pc. per type
Further dimensions, cuts and shank lengths on request.

Description	Shape	Cut	d ₁ mm	l ₂ mm	B mm	Product-Number	recommended for											New burrs																						
							1	2	3	4	5	6	7	8	9	10	11		12																					
MFH 2055.10		Z1	20	55/65	M 10	A122720551001												⑥							⑧													■		
MFH 2055.10		Z2	20	55/65	M 10	A122720551002		①																																■
MFL 2055.10		Z1	20	55	M 10	A122320551001																																		■
MFM 2540.10		Z3	25	40	M 10	A122225401003			①	②	③	④																												■

Tool-sets, cut 5, shank 3 mm						Ordering example: A1239000110																													
						Packing unit: 1 pc. per type																													
						<table border="1"> <thead> <tr> <th>Description</th> <th>Shank Ø mm</th> <th>Cut</th> <th>Contents</th> <th>1 piece each</th> <th>Product-Number</th> <th colspan="6">recommended for</th> <th></th> </tr> </thead> <tbody> <tr> <td>F1</td> <td>3</td> <td>Z5</td> <td>10-pieces</td> <td>MF 807, MF 813, MF 841, MF 845, MF 850, MF 853, MF 864, MF 866, MF 872, MF 874</td> <td>A1239000110</td> <td>①</td> <td>②</td> <td></td> <td></td> <td></td> <td></td> <td>⑥</td> <td></td> <td></td> <td></td> <td>■</td> </tr> </tbody> </table>						Description	Shank Ø mm	Cut	Contents	1 piece each	Product-Number	recommended for							F1	3	Z5	10-pieces	MF 807, MF 813, MF 841, MF 845, MF 850, MF 853, MF 864, MF 866, MF 872, MF 874	A1239000110	①	②			
Description	Shank Ø mm	Cut	Contents	1 piece each	Product-Number	recommended for																													
F1	3	Z5	10-pieces	MF 807, MF 813, MF 841, MF 845, MF 850, MF 853, MF 864, MF 866, MF 872, MF 874	A1239000110	①	②					⑥				■																			

Tool-sets, cut 5, shank 6 mm						Ordering example: A123900003																													
						Packing unit: 1 pc. per type																													
						<table border="1"> <thead> <tr> <th>Description</th> <th>Shank Ø mm</th> <th>Cut</th> <th>Contents</th> <th>1 piece each</th> <th>Product-Number</th> <th colspan="6">recommended for</th> <th></th> </tr> </thead> <tbody> <tr> <td>F3</td> <td>6</td> <td>Z3</td> <td>10-pieces</td> <td>MFA 0616, MFA 1225, MFC 1225, MFD 0403, MFD 1210, MFE 1220, MFG 1230, MFH 1230, MFK 0620, MFM 0618</td> <td>A123900003</td> <td>①</td> <td>②</td> <td></td> <td></td> <td></td> <td></td> <td>⑥</td> <td></td> <td></td> <td></td> <td>■</td> </tr> </tbody> </table>						Description	Shank Ø mm	Cut	Contents	1 piece each	Product-Number	recommended for							F3	6	Z3	10-pieces	MFA 0616, MFA 1225, MFC 1225, MFD 0403, MFD 1210, MFE 1220, MFG 1230, MFH 1230, MFK 0620, MFM 0618	A123900003	①	②			
Description	Shank Ø mm	Cut	Contents	1 piece each	Product-Number	recommended for																													
F3	6	Z3	10-pieces	MFA 0616, MFA 1225, MFC 1225, MFD 0403, MFD 1210, MFE 1220, MFG 1230, MFH 1230, MFK 0620, MFM 0618	A123900003	①	②					⑥				■																			

Tool-sets, cut 3 and cut 5, shank 6 mm Ordering example: A12390004



Packing unit:
1 pc. per type

Description	Shank Ø mm	Cut	Contents	1 piece each	Product-Number	recommended for																
						1	2	3	4	5	6	7	8	9	10	11		12				
F4	6	Z3/Z5	20-pieces	Z3 MFA 0616, MFA 1013, MFA 1225, MFC 1225, MFD 0807, MFD 1210, MFE 1220, MFE 1625, MFG 1220, MFG 1230, MFK 1230, MFL 1630, MFM 0618, MFM 1230, MFN 1213, MFN 1230 Z5 MFA 0304, MFA 0607, MFN 0303, MFN 0606	A12390004	①	②							⑥								■



Content

Description	Page
• Technical Information	66
• Filing Discs and Rings Special production	67

High Performance marking

High Performance

Ordering example:

Packing unit:
1 pc. per type

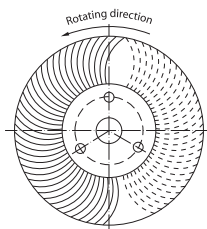
The High Performance products are additionally marked on the table with the High Performance heading
Further information on page 4.

Types of cut and their application

	Z1	Z2	Z3
	Aluminium alloys, plastics v = 38 – 150 m/min Wood v = 150 – 300 m/min	Aluminium alloys, plastics v = 38 – 150 m/min Bronze, brass v = 150 – 300 m/min	Steel up to 450 N/mm ² v = 38 – 75 m/min Cast and malleable iron v = 38 – 150 m/min

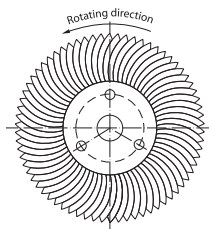
Number of teeth

DiscØ Ring-Ø	Z1 cut coarse		Z2 cut medium		Z3 cut fine	
	Disc	Ring	Disc	Ring	Disc	Ring
160	120	160	160	200	200	240
210	160	200	200	240	240	280
260	200	240	240	280	280	320
310	240	280	280	320	320	360



Cut design 1

Right-hand cutting,
usable both sides



Cut design 4

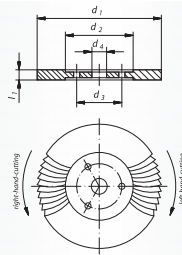
One-sided cutting with
teeth on periphery

Recommended speeds

Material	speeds approx. RPM
Cast iron	75/150
Steel up to 450 N/mm ²	75
Aluminium alloys	75/150
Bronze, brass	300
Plastics	75/150
Wood	300

Filing discs

Ordering example: F 16-R-1 Z3



Packing unit:

1 pc. per type

If left-hand-cutting is desired for cut design 1 and cut design 4 please replace R by L in the Lukas-No.

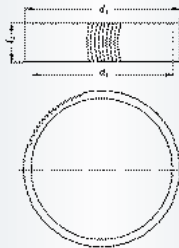
Further dimensions on request.

Description	Cut	d ₁ mm	d ₂ mm	d ₃ mm	d ₄ mm	l ₁ mm	Number of bores	recommended for					
								1	2	3	4		
F 16-R-1	Z1	160	80	60	15	7	3	①		⑤	⑥	⑧	▲
F 16-R-1	Z2	160	80	60	15	7	3	①		⑤	⑥	⑧	▲
F 16-R-1	Z3	160	80	60	15	7	3	①		⑤	⑥	⑧	▲
F 16-R-4	Z1	160	80	60	15	7	3	①		⑤	⑥	⑧	▲
F 16-R-4	Z2	160	80	60	15	7	3	①		⑤	⑥	⑧	▲
F 16-R-4	Z3	160	80	60	15	7	3	①		⑤	⑥	⑧	▲
F 21-R-1	Z1	210	80	60	15	8	3	①		⑤	⑥	⑧	▲
F 21-R-1	Z2	210	80	60	15	8	3	①		⑤	⑥	⑧	▲
F 21-R-1	Z3	210	80	60	15	8	3	①		⑤	⑥	⑧	▲
F 21-R-4	Z1	210	80	60	15	8	3	①		⑤	⑥	⑧	▲
F 21-R-4	Z2	210	80	60	15	8	3	①		⑤	⑥	⑧	▲
F 21-R-4	Z3	210	80	60	15	8	3	①		⑤	⑥	⑧	▲
F 26-R-1	Z1	260	110	90	20	9	6	①		⑤	⑥	⑧	▲
F 26-R-1	Z2	260	110	90	20	9	6	①		⑤	⑥	⑧	▲
F 26-R-1	Z3	260	110	90	20	9	6	①		⑤	⑥	⑧	▲
F 26-R-4	Z1	260	110	90	20	9	6	①		⑤	⑥	⑧	▲
F 26-R-4	Z2	260	110	90	20	9	6	①		⑤	⑥	⑧	▲
F 26-R-4	Z3	260	110	90	20	9	6	①		⑤	⑥	⑧	▲
F 31-R-1	Z1	310	125	90	20	10	6	①		⑤	⑥	⑧	▲
F 31-R-1	Z2	310	125	90	20	10	6	①		⑤	⑥	⑧	▲
F 31-R-1	Z3	310	125	90	20	10	6	①		⑤	⑥	⑧	▲
F 31-R-4	Z1	310	125	90	20	10	6	①		⑤	⑥	⑧	▲
F 31-R-4	Z2	310	125	90	20	10	6	①		⑤	⑥	⑧	▲
F 31-R-4	Z3	310	125	90	20	10	6	①		⑤	⑥	⑧	▲

Made of alloyed tool steel (WS) for all machinable materials with tensile strength up to approx. 450 N/mm². Particularly suitable for the machining of aluminium and non-ferrous metals. Filing discs in cut design 1 can be used on both

sides. For the severest conditions, filing discs in HSS are also available on request.

Filing rings Ordering example: FR 16 Z3



Packing unit:
1 pc. per type
Further dimensions on request.

Description	Cut	d ₁ mm	l ₁ mm	d ₂ mm	recommended for									
FR 16	Z1	160	40	145	①				⑤	⑥		⑧		▲
FR 16	Z2	160	40	145	①				⑤	⑥		⑧		▲
FR 16	Z3	160	40	145	①				⑤	⑥		⑧		▲
FR 21	Z1	210	40	195	①				⑤	⑥		⑧		▲
FR 21	Z2	210	40	195	①				⑤	⑥		⑧		▲
FR 21	Z3	210	40	195	①				⑤	⑥		⑧		▲
FR 26	Z1	260	40	245	①				⑤	⑥		⑧		▲
FR 26	Z2	260	40	245	①				⑤	⑥		⑧		▲
FR 26	Z3	260	40	245	①				⑤	⑥		⑧		▲
FR 31	Z1	310	40	295	①				⑤	⑥		⑧		▲
FR 31	Z2	310	40	295	①				⑤	⑥		⑧		▲
FR 31	Z3	310	40	295	①				⑤	⑥		⑧		▲

Filing rings of WS are seamless forged. If correctly used, they will not crack even under the most severe conditions. Application – similar to filing discs.

Not available in high speed steel.



Content

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High Performance marking

High Performance	
<i>Ordering example:</i>	
Packing unit: 1 pc. per type	<p>The High Performance products are additionally marked on the table with the High Performance heading</p> <p><i>Further information on page 4.</i></p>

Engraving cutters are available in the following tungsten carbide grade:

Engraving cutters of High Speed Steel (HSS) are available in the following special HSS-qualities

<p>K 10 F Micro grain carbide for machining all materials, for machining steel, cast steel, non-ferrous metals and plastics. Extra long life!</p>	<p>HSS-50 for machining high-tensile and high-grade carbide materials and heat resistant qualities.</p> <p>HSS-60 applications similar to HSS-50, but with extended life. Performance is improved when used in conjunction with a high quality cutting oil.</p> <p>We supply our engraving cutters semi-finished with rough-ground profile (+0,1 mm) or finish ground to your specification.</p>
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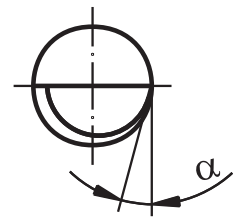
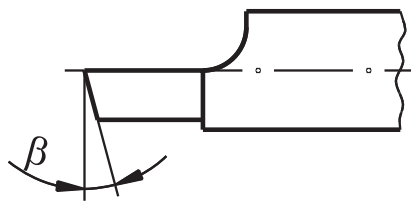
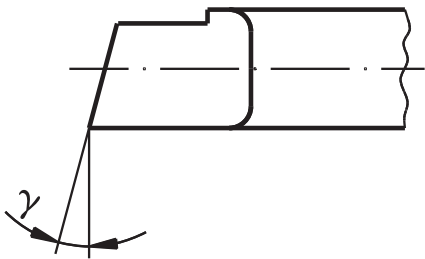
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	Tungsten carbide cutters, spiral flute type	74

Engraving Cutters – Recommendation for various applications

For optimal results the cutting and lead angles have to suit the material to be machined.
The values in the tables are recommendations.

Recommended cutting and lead angles

Material to be machined	Engraving cutters of Tungsten Carbide			Engraving cutters of HSS		
	$\sphericalangle \alpha$	$\sphericalangle \beta$	$\sphericalangle \gamma$	$\sphericalangle \alpha$	$\sphericalangle \beta$	$\sphericalangle \gamma$
Cast iron, cast steel	25°	15°	5°	25°	15°	5°
Brass, aluminium	30°	15°	5°	30°	15°	5°
Plastics, reinforced and non-reinforced	35°	15°	5°	35°	15°	5°
Light metals, copper, gold, silver	30°	15°	5°	30°	15°	5°



Recommended cutting speeds in m/min

Material to be machined	Engraving cutters of Tungsten Carbide	Engraving cutters of HSS	Engraving cutters of HSS
	K 10 F	HSS-50	HSS-60
Cast iron, cast steel	60 – 100	50 – 70	50 – 70
Steel up to 900 N/mm ²	120 – 160	40 – 70	40 – 70
Steel above 900 N/mm ²	50 – 70	–	25 – 40
Brass, aluminium	200 – 400	200 – 250	200 – 250
Plastics, reinforced and non-reinforced	200 – 600	200 – 300	200 – 300


Recommended feed rates f_z in mm

Material to be machined	
Cast iron, cast steel	0,04 – 0,1
Steel up to 900 N/mm ²	0,05 – 0,08
Steel above 900 N/mm ²	0,04 – 0,08
Brass, aluminium	0,08 – 0,15
Plastics, reinforced and non-reinforced	0,05 – 0,20


Engraving cutters

Ordering example: A1300403042


A




B
100°




C

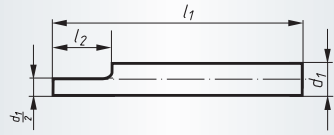


D
60°



F



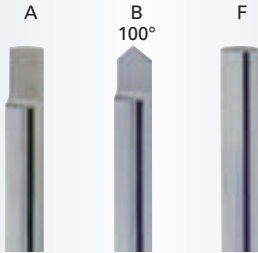


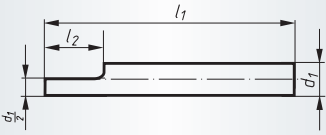
Packing unit:
1 pc. per type

Further profiles and dimensions on request
d 1/2 as per your request
l2 does not apply to profile F
Tolerance of semi-finished cutting edge + 0,1,
finish ground on request
Please specify width of cutting edge for profile E

Description	Profile	Quality	d ₁ mm	l ₁ mm	l ₂ mm	Product-Number	recommended for					
HGA 03.040	D	K10F	3	40	6	A1300403042	1		5	6	8	■
HGA 04.040	A	K10F	4	40	6	A1300404012	1		5	6	8	■
HGA 04.040	D	K10F	4	40	6	A1300404042	1		5	6	8	■
HGA 04.040	F	K10F	4	40	6	A1300404062	1		5	6	8	■
HGA 04.060	A	K10F	4	60	6	A1300405012	1		5	6	8	■
HGA 04.060	D	K10F	4	60	6	A1300405042	1		5	6	8	■
HGA 06.070	A	K10F	6	70	8	A1300407012	1		5	6	8	■
HGA 06.070	D	K10F	6	70	8	A1300407042	1		5	6	8	■
HGA 06.070	F	K10F	6	70	8	A1300407062	1		5	6	8	■
HGA 06.100	D	K10F	6	100	8	A1300407142	1		5	6	8	■
HGA 08.080	A	K10F	8	80	12	A1300408012	1		5	6	8	■
HGA 08.100	A	K10F	8	100	12	A1300408112	1		5	6	8	■
HGA 10.080	A	K10F	10	80	14	A1300409012	1		5	6	8	■
HGA 10.100	A	K10F	10	100	14	A1300409112	1		5	6	8	■
HGA 12.080	A	K10F	12	80	16	A1300410012	1		5	6	8	■
HGA 12.100	A	K10F	12	100	16	A1300410112	1		5	6	8	■

Engraving cutters of HSS-50
Ordering example: A135046106



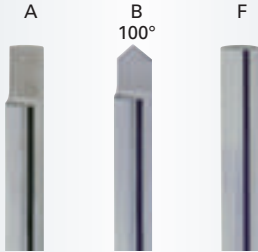


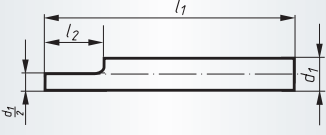
Packing unit:
5 pc. per type

Further profiles and dimensions on request
d 1/2 as per your request
l₂ does not apply to profile F
Tolerance of semi-finished cutting edge + 0,1,
finish ground on request

Description	Profile	Quality	d ₁ mm	l ₁ mm	l ₂ mm	Product-Number	recommended for		
SGA 04.060	F	HSS-50	4	60	10	A135046106	①	⑤ ⑥ ⑧	■
SGA 06.080	A	HSS-50	6	80	14	A135046201	①	⑤ ⑥ ⑧	■
SGA 06.080	F	HSS-50	6	80	14	A135046206	①	⑤ ⑥ ⑧	■
SGA 06.160	F	HSS-50	6	160	14	A135046256	①	⑤ ⑥ ⑧	■
SGA 08.125	F	HSS-50	8	125	16	A135046406	①	⑤ ⑥ ⑧	■

Engraving cutters of HSS-60
Ordering example: A136046101





Packing unit:
5 pc. per type

Further profiles and dimensions on request
d 1/2 as per your request
l₂ does not apply to profile F
Tolerance of semi-finished cutting edge + 0,1,
finish ground on request

Description	Profile	Quality	d ₁ mm	l ₁ mm	l ₂ mm	Product-Number	recommended for		
SGA 04.060	A	HSS-60	4	60	10	A136046101	①	⑤ ⑥ ⑧	■
SGA 06.080	A	HSS-60	6	80	14	A136046201	①	⑤ ⑥ ⑧	■
SGA 06.080	F	HSS-60	6	80	14	A136046206	①	⑤ ⑥ ⑧	■



Content

Description	Page
• Technical Information	76
• Safety instructions	79
• A summary of available shapes	80
• Qualities and areas of application	81
• Mounted points	87
• Mounted points special production	107

High Performance marking

High Performance

Ordering example: A20000306353

Packing unit:
20 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.


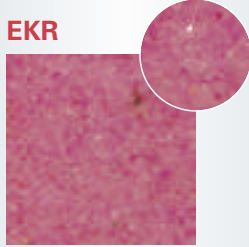

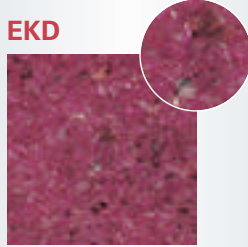
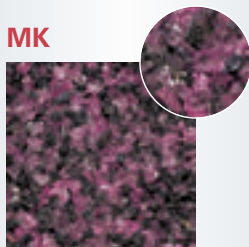





Technical Information

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>HOK</p>  <p>Mixture aluminium oxide hollow ball</p>		

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

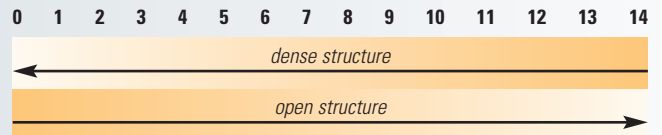
Hardness grade, ISO 525

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

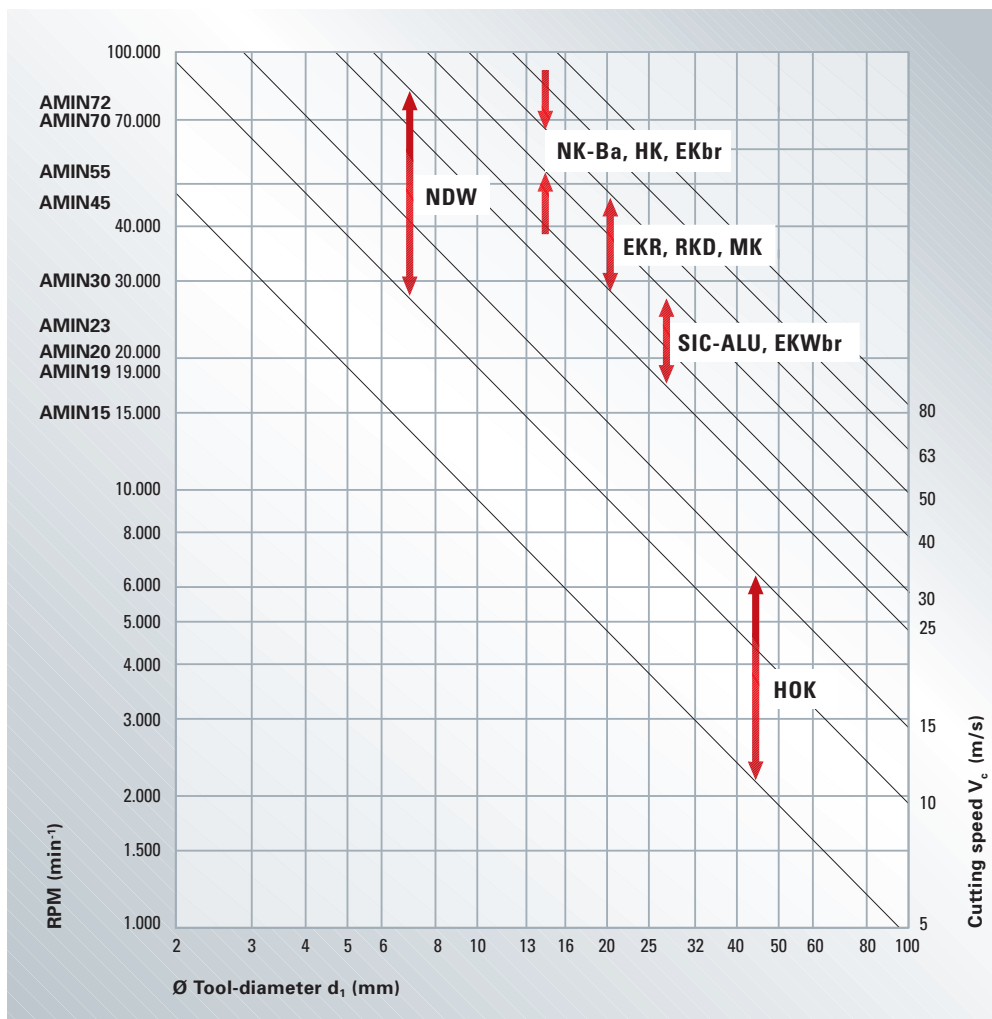
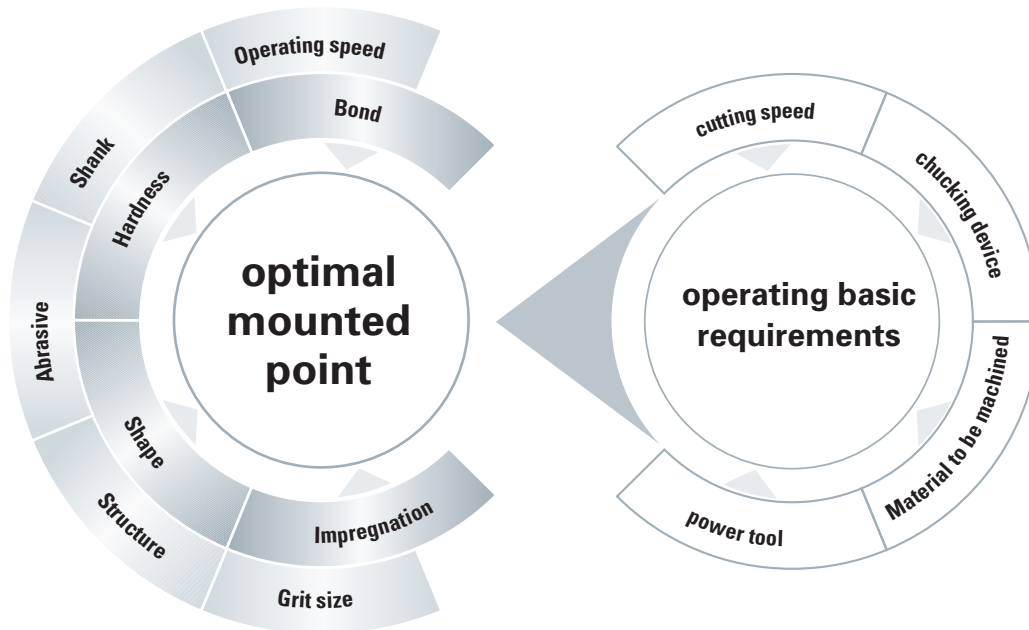
W = with wax

F = with grinding oil

Description of Mounted points

Shape	Diameter	Length	Shank	Abrasive	Grit size	Hardness	Bond
ZY	16	32	06	EKR	46	N	V4

Choice of the optimal grinding tool



Safety instructions

		Stück / Pcs. / Quantité 20
Artikelnummer / Item number / Code informatique 200003232602		FA-No. 1282323
Form/Shape/Forme ZY	Abmessung / Dimension / Dimension 32X32	Schaft / Shank / Queue 6X40
Qualität / Quality / Qualité EKR 30 N V4		
Verpackt am / packed / emballés le 01/2008	Verfallsdatum / Expiry date / Date d'échéance	Prüfzeichen approval seal marque d'homologation EN 12413 
Zulässige Drehzahl bei einer offenen Schaftlänge L_0 von: Allowed max. speed with an open shank length L_0 of: Vitesse admissible pour une longueur de porte-à faux L_0 de:		
10 mm 25600 1/min.	15 mm 21900 1/min.	20 mm 18900 1/min.
		
Bei Nachbestellung befügen / Enclose when re-ordering / à joindre pour recommander		

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

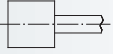



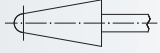
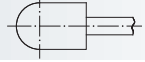
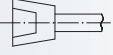

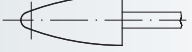



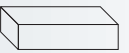


The safety aspect of a grinding wheel is of paramount importance.

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	87
	Cylindrical, Typ 2	ZY2	92
	Arch pointed nose	SP	93
	Conical	KU	94
	Spherical	KE	95
	Cylindrical round nose	WR	96
	Cup	TO	96
	American shapes	A	97
	American shapes	B	98
	Taper-sided grinding wheel	SE4	99
	Cup wheels	SE6	99
	Miniature-Mounted points	D	100
	Handstones	–	103
	Mounted points, assortments	–	104
	Power Tools	–	271

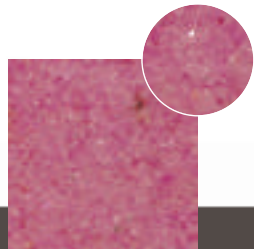
Qualities and areas of application

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	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, ceramics, carbides
	EKR aluminium oxide pink v = ca. 30 - 50 m/s									
	EKWbr aluminium oxide white, type brown v = ca. 25 - 40 m/s									
	RKD mixture aluminium oxide deep red / aluminium oxide pink v = ca. 30 - 50 m/s									
	NK-BA-soft aluminium oxide resin bonded iron and sulphur free v = ca. 40 - 50 m/s									
	NK-BA-hard aluminium oxide resin bonded v = ca. 40 - 50 m/s									
	HK mixture aluminium oxide white / aluminium oxide v = ca. 40 - 50 m/s									
	MK mixture aluminium oxide pink/aluminium oxide v = ca. 30 - 50 m/s									
	NDW mixture aluminium oxide, alumi- nium oxide dark red and mono crystal aluminium oxide white v = ca. 10 - 30 m/s									
	EKW aluminium oxide white v = ca. 20 - 35 m/s									
	EKbr aluminium oxide pink, type brown v = ca. 40 - 50 m/s									
	SiC-ALU silicon carbide green v = ca. 25 - 40 m/s									
	HOK mixture aluminium oxide hollow ball v = ca. 10 - 20 m/s									

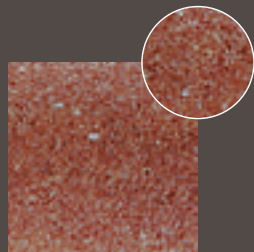
These quality recommendations apply only when optimum application conditions are used.

Qualities:



EKR

aluminium oxide pink



EKWbr

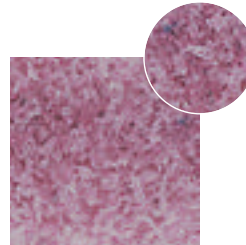
aluminium oxide white,
type brown



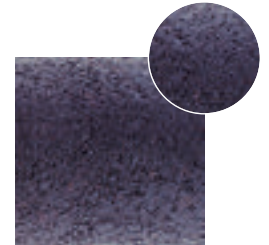
General Information

<p>Properties of workpiece material:</p>	<p>Mounted points in various qualities are needed to cover the wide spectrum of the numerous steel types and their resulting workpieces.</p>	
<p>Industries:</p>	<ul style="list-style-type: none"> • Machine tools • Automotive • Equipment manufacturers 	<ul style="list-style-type: none"> • Vessel manufacturers • Shipyards • and much more
<p>Examples of application:</p>	<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
<p>LUKAS-grinding tools:</p>	<p>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.</p>	

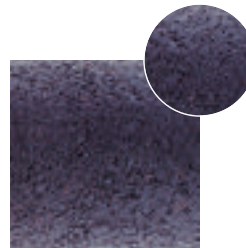
Qualities:



RKD
mixture aluminium oxide
deep red / aluminium oxide
pink



NK-Ba-hard
aluminium oxide
resin bonded

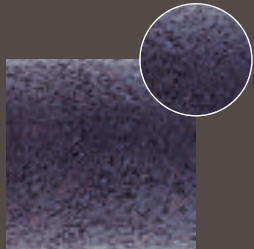


NK-BA-soft
aluminium oxide resin
bonded iron and
sulphur free

General Information

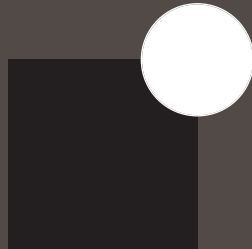
<p>Properties of workpiece material:</p>	<p>Alloyed steels i.e., non-rusting steels are included in the materials which are difficult to machine. They tend to “smear” due to the nickel content, and as a result of poor heat dissipation causes overheating of the material within the grinding contact zone.</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 • Removing weld seams • Surface finishing 	
<p>LUKAS-grinding tools:</p>	<p>LUKAS has developed particularly 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:



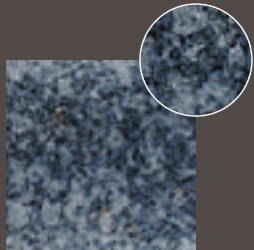
NK Ba-hard

aluminium oxide
resin bonded



MK

mixture aluminium oxide
pink / aluminium oxide



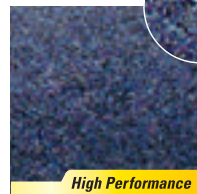
HK

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 • Fettleing • 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:



High Performance

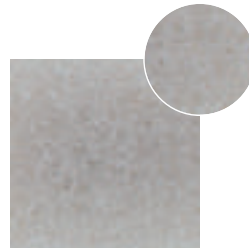
NDW

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



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
Examples of application:	<ul style="list-style-type: none"> • Re-grinding • Groove grinding • Fine deburring • Finish grinding • Lapping • Coordinate grinding
LUKAS-grinding tools:	The LUKAS mounted points developed for the tool and mould industry hold their profile and remove stock on even the hardest materials. In addition, a long tool life is achieved by using special grain qualities. We offer a comprehensive mounted point selection – to grind even in the smallest corner!

Qualities:



SIC-ALU

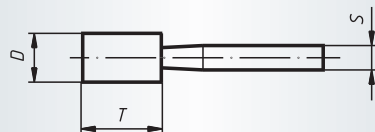
silicon carbide green

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) • 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 • 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>

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

Ordering example: A200000306353


Packing unit:

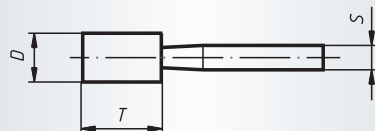
20 pcs. per type

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 30	A2000003063530001	②	③													■
ZY 0306.03	NDW 100 QU V115	3	6	3 x 50	A200000306353	②	③													■
ZY 0408.03	NDW 100 QU V115	4	8	3 x 30	A2000004083530001	②	③													■
ZY 0408.03	NDW 100 QU V115	4	8	3 x 50	A200000408353	②	③													■
ZY 0610.03	NDW 100 QU V115	6	10	3 x 30	A2000006103530001	②	③													■
ZY 0610.03	NDW 100 QU V115	6	10	3 x 50	A200000610353	②	③													■
ZY 0810.03	NDW 100 QU V115	8	10	3 x 30	A2000008103530001	②	③													■
ZY 0810.03	NDW 100 QU V115	8	10	3 x 50	A200000810353	②	③													■
ZY 1013.03	NDW 100 QU V115	10	13	3 x 30	A2000010133530001	②	③													■
ZY 1013.03	NDW 100 QU V115	10	13	3 x 50	A200001013353	②	③													■

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

Ordering example: A200000408318A


Packing unit:

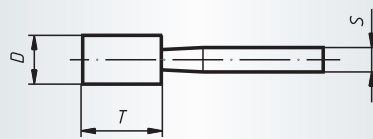
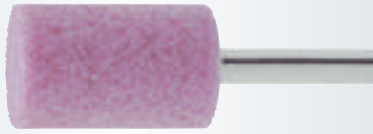
20 pcs. per type

Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for															
ZY 0408.03	SIC-ALU 80 V27 W	4	8	3 x 30	A200000408318A																■
ZY 0510.03	SIC-ALU 80 V27 W	5	10	3 x 30	A200000510318A																■
ZY 0610.03	SIC-ALU 80 V27 W	6	10	3 x 30	A200000610318A																■
ZY 0810.03	SIC-ALU 80 V27 W	8	10	3 x 30	A200000810318A																■
ZY 1010.03	SIC-ALU 80 V27 W	10	10	3 x 30	A200001010318A																■
ZY 1013.06	SIC-ALU 80 V27 W	10	13	6 x 40	A200001013618A																■
ZY 1020.06	SIC-ALU 80 V27 W	10	20	6 x 40	A200001020618A																■
ZY 1313.06	SIC-ALU 80 V27 W	13	13	6 x 40	A200001313618A																■
ZY 1332.06	SIC-ALU 80 V27 W	13	32	6 x 40	A200001332618A																■
ZY 1616.06	SIC-ALU 80 V27 W	16	16	6 x 40	A200001616618A																■
ZY 1632.06	SIC-ALU 80 V27 W	16	32	6 x 40	A200001632618A																■
ZY 2020.06	SIC-ALU 80 V27 W	20	20	6 x 40	A200002020618A																■
ZY 2025.06	SIC-ALU 80 V27 W	20	25	6 x 40	A200002025618A																■
ZY 2040.06	SIC-ALU 80 V27 W	20	40	6 x 40	A200002040618A																■
ZY 3232.06	SIC-ALU 80 V27 W	32	32	6 x 40	A200003232618A																■
ZY 4020.06	SIC-ALU 80 V27 W	40	20	6 x 40	A200004020618A																■
ZY 4020.08	SIC-ALU 80 V27 W	40	20	8 x 40	A200004020818A																■

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

Ordering example: A200000104302



Packing unit:

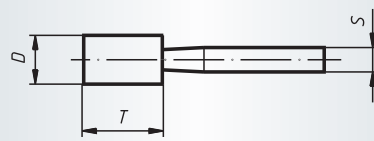
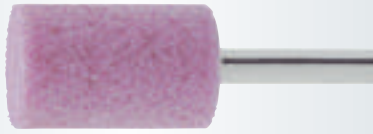
20 pcs. per type

Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for															
ZY 0104.03	EKR 150 N V4	1,5	4	3 x 30	A200000104302	1	2	3													
ZY 0104.03	RKD 150 QU V21	1,5	4	3 x 30	A200000104347		2	3	4												
ZY 0205.03	EKR 120 N V4	2	5	3 x 30	A200000205302	1	2	3													
ZY 0205.03	EKWBR 120 O/P V7	2	5	3 x 30	A200000205312	1	2														
ZY 0205.03	RKD 150 QU V21	2	5	3 x 30	A200000205347		2	3	4												
ZY 0205.06	EKR 120 N V4	2	5	6 x 40	A200000205602	1	2	3													
ZY 0205.06	RKD 150 QU V21	2	5	6 x 40	A200000205647		2	3	4												
ZY 0305.03	EKR 120 N V4	3	5	3 x 30	A2000002053020001	1	2	3													
ZY 0306.03	EKR 100 N V4	3	6	3 x 30	A200000306302	1	2	3													
ZY 0306.03	EKR 120 QU V4	3	6	3 x 30	A2000003063020001	1	2	3													
ZY 0306.03	EKWBR 100 O/P V7	3	6	3 x 30	A200000306312	1	2														
ZY 0306.03	RKD 120 QU V21	3	6	3 x 30	A200000306347		2	3	4												
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												

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

Ordering example: A200000816602


Packing unit:

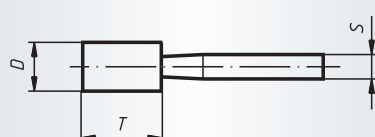
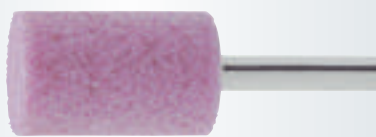
20 pcs. per type

Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for															
ZY 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														
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													

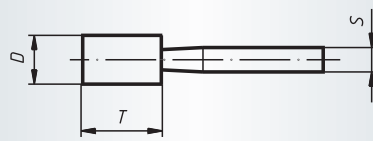
Shape ZY, Cylinder, Type 1 (according to DIN 69170)

Ordering example: A200001620612



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 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 1620.06	MK 36 N V10	16	20	6 x 40	A200001620616		②		④	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								■
ZY 2013.06	EKR 36 N V4	20	13	6 x 40	A200002013602	①	②	③										■
ZY 2020.06	EKR 36 N V4	20	20	6 x 40	A200002020602	①	②	③										■
ZY 2020.06	RKD 36 O (6) V21	20	20	6 x 40	A200002020647		②	③	④									■
ZY 2020.06	NK 24 QU BA. hard	20	20	6 x 40	A200002020627		②	③		⑤								■
ZY 2020.06	MK 36 N V10	20	20	6 x 40	A200002020616		②		④	⑤								■
ZY 2020.06	EKW 60 L V1	20	20	6 x 40	A200002020608			③				⑦		⑨				■
ZY 2025.06	EKR 36 N V4	20	25	6 x 40	A200002025602	①	②	③										■
ZY 2025.06	RKD 36 O (6) V21	20	25	6 x 40	A200002025647		②	③	④									■
ZY 2032.06	EKR 36 N V4	20	32	6 x 40	A200002032602	①	②	③										■
ZY 2032.06	EKR 30/36 QU (7) V21	20	32	6 x 40	A2000020326020001	①	②	③										■
ZY 2032.06	RKD 36 O (6) V21	20	32	6 x 40	A200002032647		②	③	④									■
ZY 2032.06	NK 24 QU BA. hard	20	32	6 x 40	A200002032627		②	③		⑤								■
ZY 2032.06	HK 30 N V13	20	32	6 x 40	A200002032633				④	⑤								■
ZY 2032.06	MK 36 N V10	20	32	6 x 40	A200002032616		②		④	⑤								■
ZY 2040.06	EKR 36 N V4	20	40	6 x 40	A200002040602	①	②	③										■
ZY 2040.06	EKWBR 46 O/P V7	20	40	6 x 40	A200002040612	①	②											■
ZY 2040.06	RKD 36 O (6) V21	20	40	6 x 40	A200002040647		②	③	④									■
ZY 2040.06	NK 24 N BA. soft	20	40	6 x 40	A200002040627W		②	③	④		⑥							■
ZY 2040.06	NK 24 QU BA. hard	20	40	6 x 40	A200002040627		②	③		⑤								■
ZY 2040.06	HK 30 N V13	20	40	6 x 40	A200002040633				④	⑤								■
ZY 2040.06	MK 36 N V10	20	40	6 x 40	A200002040616		②		④	⑤								■
ZY 2040.08	NK 24 N BA. soft	20	40	8 x 40	A200002040827W		②	③	④		⑥							■
ZY 2040.08	NK 24 QU BA. hard	20	40	8 x 40	A200002040827		②	③		⑤								■
ZY 2040.08	HK 30 N V13	20	40	8 x 40	A200002040833				④	⑤								■
ZY 2520.06	EKR 36 N V4	25	20	6 x 40	A200002520602	①	②	③										■
ZY 2525.06	EKR 36 N V4	25	25	6 x 40	A200002525602	①	②	③										■
ZY 2525.06	RKD 30 O (6) V21	25	25	6 x 40	A200002525647		②	③	④									■
ZY 2525.06	NK 24 QU BA. hard	25	25	6 x 40	A200002525627		②	③		⑤								■
ZY 2532.06	EKR 36 N V4	25	32	6 x 40	A200002532602	①	②	③										■

Shape ZY, Cylinder, Type 1 (according to DIN 69170)
Ordering example: A200002532647

Packing unit:

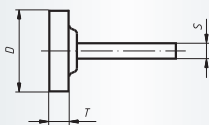
20 pcs. per type

Further dimensions, qualities and shank lengths on request.

Description	Quality	D mm	T mm	S mm	Product-Number	recommended for									
ZY 2532.06	RKD 30 O (6) V21	25	32	6 x 40	A200002532647	2	3	4							■
ZY 2532.06	NK 24 N BA. soft	25	32	6 x 40	A200002532627W	2	3	4	6						■
ZY 2532.06	NK 24 QU BA. hard	25	32	6 x 40	A200002532627	2	3		5						■
ZY 2532.06	HK 30 N V13	25	32	6 x 40	A200002532633			4	5						■
ZY 2532.06	MK 36 N V10	25	32	6 x 40	A200002532616	2		4	5						■
ZY 3220.06	EKR 30 N V4	32	20	6 x 40	A200003220602	1	2	3							■
ZY 3220.06	NK 24 QU BA. hard	32	20	6 x 40	A200003220627		2	3		5					■
ZY 3220.06	MK 36 N V10	32	20	6 x 40	A200003220616		2		4	5					■
ZY 3232.06	EKR 30 N V4	32	32	6 x 40	A200003232602	1	2	3							■
ZY 3232.06	EKR 30/36 QU (7) V21	32	32	6 x 40	A2000032326020001	1	2	3							■
ZY 3232.06	EKWBR 46 O/P V7	32	32	6 x 40	A200003232612	1	2								■
ZY 3232.06	RKD 30 O (6) V21	32	32	6 x 40	A200003232647		2	3	4						■
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 4020.08	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 5025.08	NK 24 QU BA. hard	50	25	8 x 40	A200005025827		2	3		5					■

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

Ordering example: A201301303302

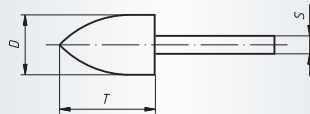


Packing unit:

20 pcs. per type

Further dimensions, qualities and shank lengths on request.

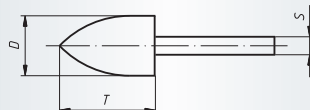
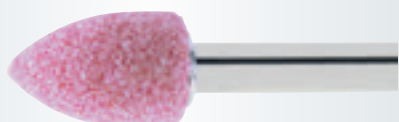
Description	Quality	D mm	T mm	S mm	Product-Number	recommended for	
ZY2 1303.03	EKR 80 N V4	13	3	3 x 30	A201301303302	① ② ③	■
ZY2 1303.03	EKWBR 80 O/P V7	13	3	3 x 30	A201301303312	① ②	■
ZY2 1303.03	RKD 80 QU V21	13	3	3 x 30	A201301303347	② ③ ④	■
ZY2 1303.06	EKR 80 N V4	13	3	6 x 40	A201301303602	① ② ③	■
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	EKR 46 QU V4	20	6	3 x 30	A2013020066020001	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 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 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	■
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 5010.08	HK 30 N V13	50	10	8 x 40	A201305010833	④ ⑤	■

High Performance
Shape SP, Pointed nose (according to DIN 69170)
Ordering example: A200200510353

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	NDW 100 QU V115	5	10	3 x 30	A2002005103530001	②	③													■
SP 0510.03	NDW 100 QU V115	5	10	3 x 50	A200200510353	②	③													■
SP 0810.03	NDW 100 QU V115	8	10	3 x 30	A2002008103530001	②	③													■
SP 0810.03	NDW 100 QU V115	8	10	3 x 50	A200200810353	②	③													■

Shape SP, Pointed nose (nach DIN 69170)
Ordering example: A200200306302

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 0306.03	EKR 100 N V4	3	6	3 x 30	A200200306302	①	②	③												■
SP 0306.03	RKD 120 QU V21	3	6	3 x 30	A200200306347		②	③	④											■
SP 0510.03	EKR 80 N V4	5	10	3 x 30	A200200510302	①	②	③												■
SP 0510.03	RKD 100 QU V21	5	10	3 x 30	A200200510347		②	③	④											■
SP 0510.06	EKR 80 N V4	5	10	6 x 40	A200200510602	①	②	③												■
SP 0816.03	EKR 60 N V4	8	16	3 x 30	A200200816302	①	②	③												■
SP 0816.03	RKD 80 QU V21	8	16	3 x 30	A200200816347		②	③	④											■
SP 0816.06	EKR 60 N V4	8	16	6 x 40	A200200816602	①	②	③												■
SP 1020.06	EKR 60 N V4	10	20	6 x 40	A200201020602	①	②	③												■
SP 1320.06	EKR 46 N V4	13	20	6 x 40	A200201320602	①	②	③												■
SP 2032.06	EKR 36 N V4	20	32	6 x 40	A200202032602	①	②	③												■

High Performance

Shape KU, Conical (nach DIN 69170)

Ordering example: A201100404353

					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					■

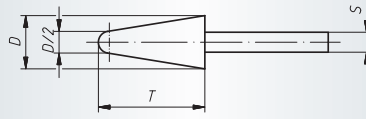
Shape KU, Conical (nach DIN 69170)

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 3232.06	EKR 30 N V4	32	32	6 x 40	A201103232602	①	②	③				■

High Performance
Shape KE, Spherical (nach DIN 69170)

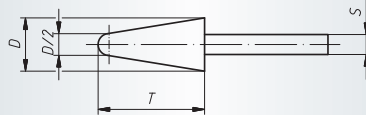
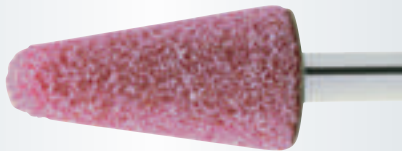
Ordering example: A201501632618A


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

Shape KE, Spherical (according to DIN 69170)

Ordering example: A201501025647

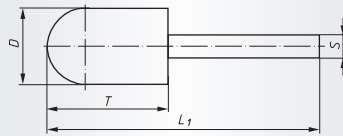
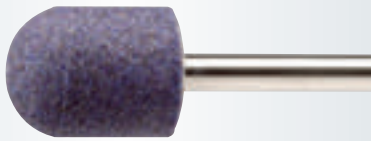

Packing unit:
20 pcs. per type
Further dimensions, qualities and shank lengths on request.

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	■
KE 1645.06	RKD 46 O (6) V21	16	45	6 x 40	A201501645647	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	■
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	■

High Performance

Shape WR, Cup (according to DIN 69170)

Ordering example: A2014010133530001

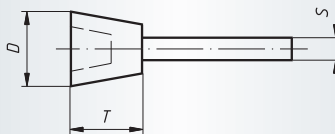
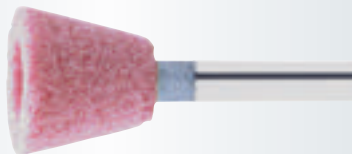


Packing unit:
20 pcs. per type
Further dimensions, qualities and shank lengths on request.

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	■

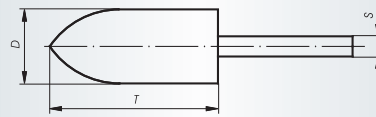
Shape TO, Cup (according to DIN 69170)

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	■

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										
A1 2263.08	HK 36/46 M V13		7/8	2 1/2	22	63	8 x 40	A206402263833				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										
A4 3232.06	EKR 30/36 QU (7) V21		1 1/4	1 1/4	32	32	6 x 40	A206203232602	1	2	3												
A10 2270.06	EKR 36 N V4		7/8	2 3/4	22	70	6 x 40	A206202270602	1	2	3												
A10 2270.06	HK 36/46 M V13		7/8	2 3/4	22	70	6 x 40	A206202270633				4	5										
A11 2250.06	EKR 36 QU V4		7/8	2	22	50	6 x 40	A206202250602	1	2	3												
A11 2250.06	EKR 36 N V4		7/8	2	22	50	6 x 40	A2062022506020001	1	2	3												
A11 2250.06	HK 36/46 M V13		7/8	2	22	50	6 x 40	A206202250633				4	5										
A11 2250.08	HK 36/46 M V13		7/8	2	22	50	8 x 40	A206402250833				4	5										
A12 1832.06	EKR 30/36 QU (7) V21		1 1/16	1 1/4	18	32	6 x 40	A206201832602	1	2	3												
A15 0625.06	EKR 80/100 QU V4		1/4	1	6	25	6 x 40	A206200625602	1	2	3												
A15 0625.06	HK 46/60 N V13		1/4	1	6	25	6 x 40	A206200625633				4	5										

Shape A, american shapes Ordering example: A206200620602

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	
A24 0620.06	EKR 60/80 QU V4		1/4	3/4	6	20	6 x 40	A206200620602	① ② ③	■
A36 4010.06	EKR 60/80 QU V4		1 5/8	3/8	40	10	6 x 40	A206204010602	① ② ③	■
A37 3206.06	EKR 46 QU V4		1 1/4	1/4	32	6	6 x 40	A206203206602	① ② ③	■
A38 2525.06	EKR 60/80 QU V4		1	1	25	25	6 x 40	A206202525602	① ② ③	■

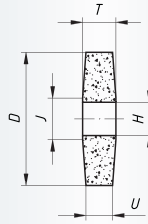
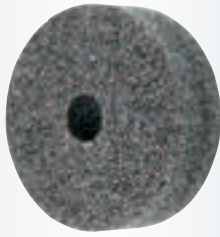
Shape B, american shapes Ordering example: A206601616302

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	■

Taper sided, grinding wheel, Shape SE4, (according to ISO 603-12)

Ordering example: A2039080200320001



Packing unit:
10 pcs. per type

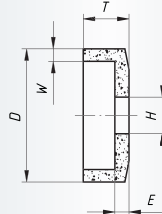
Maximum Speed
50 m/s = 11.900 1/min

Description	Quality	D mm	T mm	U mm	H mm	J mm	Product-Number	recommended for	
SE4 08020.16	HK 24 M BA. soft	80	20	16	16	25	A2039080200320001	④ ⑤	■
SE4 08020.16	HK 16 P BA. hard	80	20	16	16	25	A2039080200320002	④ ⑤	■
SE4 08020.20	HK 24 M BA. soft	80	20	16	20	25	A2039080200320003	④ ⑤	■
SE4 08020.20	HK 16 P BA. hard	80	20	16	20	25	A2039080200320004	④ ⑤	■

These tools must be used with a flange which complies with the regulations of DIN 69864.

Cup wheels for off-hand angle grinders, Shape SE6 (according to ISO 603-7)

Ordering example: A204108027027



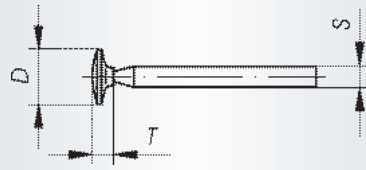
Packing unit:
5 pcs. per type

Maximum Speed
50 m/s = 11.900 1/min

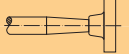
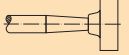
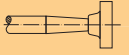
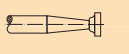
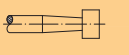
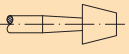
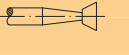
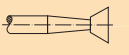
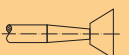
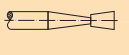
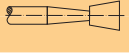
Description	Quality	D mm	T mm	H mm	W mm	E mm	Product-Number	recommended for	
SE6 08027.22	NK 24 P BA. hard	80	27	22,2	8	8	A204108027027	② ③ ⑤	■
SE6 08027.22	NK 36 P BA. hard	80	27	22,2	8	8	A2041080270270001	② ③ ⑤	■
SE6 08027.22	SIC 30 N BA	80	27	22,2	8	8	A204108027039	② ③ ④ ⑤ ⑥	■

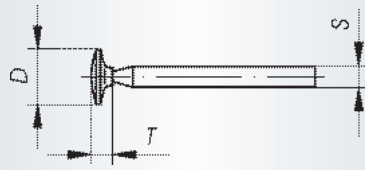
Miniature-Mounted points

Ordering example: A202900001302



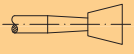
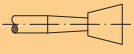
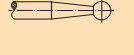
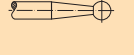








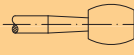
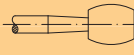





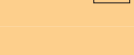
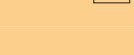
Packing unit:
20 pcs. per type
Further dimensions, qualities and
shank lengths on request.

Description	Quality	Shape	Dimensions			Product-Number	recommended for														
			D mm	T mm	S mm																
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												■
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												■

Miniature-Mounted points
Ordering example: A202900012302

Packing unit:

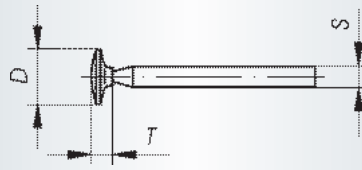
20 pcs. per type

Further dimensions, qualities and shank lengths on request.



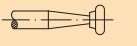
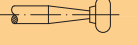
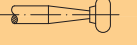
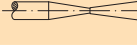



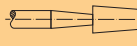
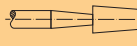




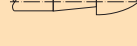
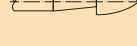


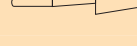
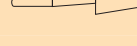
Description	Quality	Shape	D mm	T mm	S mm	Product-Number	recommended for															
D12	EKR 80 N V4		4/7	6	3 x 30	A202900012302	①	②	③													■
D12	EKBR 80 M V1/6		4/7	6	3 x 30	A202900012311		②	③													■
D13	EKR 100 N V4		3	3	3 x 30	A202900013302	①	②	③													■
D13	EKBR. 100 M V1/6		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													■
D18	EKR 80 N V4		7	8	3 x 30	A202900018302	①	②	③													■
D18	EKBR 80 M V1/6		7	8	3 x 30	A202900018311		②	③													■
D20	EKR 100 N V4		7	5	3 x 30	A202900020302	①	②	③													■
D21	EKR 100 N V4		8	1,6	3 x 30	A202900021302	①	②	③													■
D21	EKBR 100 M V1/6		8	1,6	3 x 30	A202900021311		②	③													■
D22	EKR 100 N V4		2,5	6	3 x 30	A202900022302	①	②	③													■
D22	EKBR 100 M V1/6		2,5	6	3 x 30	A202900022311		②	③													■
D23	EKR 80 N V4		5	6	3 x 30	A202900023302	①	②	③													■
D23	EKBR 80 M V1/6		5	6	3 x 30	A202900023311		②	③													■

Miniature-Mounted points

Ordering example: A202900024302

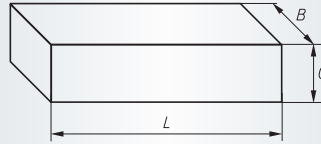


Packing unit:
20 pcs. per type
Further dimensions, qualities and
shank lengths on request.

Description	Quality	Shape	D mm	T mm	S mm	Product-Number	recommended for															
D24	EKR 60 N V4		6	6	3 x 30	A202900024302	①	②	③													■
D24	EKBR 60 M 1/6		6	6	3 x 30	A202900024311		②	③													■
D25	EKR 100 N V4		5	1,5	3 x 30	A202900025302	①	②	③													■
D26	EKR 100 N V4		6	2,5	3 x 30	A202900026302	①	②	③													■
D26	EKBR 100 M V1/6		6	2,5	3 x 30	A202900026311		②	③													■
D27	EKR 100 N V4		2/3,5	10	3 x 30	A202900027302	①	②	③													■
D28	EKR 80 N V4		3,5/5,5	11	3 x 30	A202900028302	①	②	③													■
D29	EKR 100 N V4		3,2	6,4	3 x 30	A202900029302	①	②	③													■
D29	EKBR 100 M V1/6		3,2	6,4	3 x 30	A202900029311		②	③													■
D30	EKR 100 N V4		4,4	10	3 x 30	A202900030302	①	②	③													■
D30	EKBR 100 M V1/6		4,4	10	3 x 30	A202900030311		②	③													■
D32	EKR 100 N V4		5	7	3 x 30	A202900032302	①	②	③													■
D32	EKBR 100 M V1/6		5	7	3 x 30	A202900032311		②	③													■
D33	EKR 80 N V4		6	8	3 x 30	A202900033302	①	②	③													■
D33	EKBR 80 M V1/6		6	8	3 x 30	A202900033311		②	③													■
D34	EKR 100 N V4		4,37	7	3 x 30	A202900034302	①	②	③													■
D34	EKBR 100 M V1/6		4,37	7	3 x 30	A202900034311		②	③													■
D35	EKR 80 N V4		6	10	3 x 30	A202900035302	①	②	③													■
D35	EKBR 80 M V1/6		6	10	3 x 30	A202900035311		②	③													■
D36	EKR 80 N V4		6	11	3 x 30	A202900036302	①	②	③													■
D36	EKBR 80 M V1/6		6	11	3 x 30	A202900036311		②	③													■

Handstones

Ordering example: A204300000118



Packing unit:

5 pcs. per type

Further dimensions (see table below) and qualities on request.

Description	Quality	L mm	B mm	C mm	Product-Number	recommended for																		
RU 1	SICGR 60 O V23/green=fine	50	25	15	A204300000118																	9	■	
RU 1	SICDKL 24 O V23/dark=coarse	50	25	15	A204300000122																		9	■
RU 2	SICGR 60 O V23/green=fine	100	30	15	A204300000218																		9	■
RU 2	SICDKL 24 O V23/dark=coarse	100	30	15	A204300000222																		9	■
RU 3	SICGR 60 O V23/green=fine	100	50	25	A204300000318																		9	■
RU 3	SICDKL 24 O V23/dark=coarse	100	50	25	A204300000322																		9	■
RU 4	SICGR 60 O V23/green=fine	150	50	25	A204300000418																		9	■
RU 4	SICDKL 24 O V23/dark=coarse	150	50	25	A204300000422																		9	■
RU 5	EKW 100 E (9) V40	150	25	16,5	A2043150251608																		3	■
RU 6	EKW 100 E (9) V40	200	50	25	A2043200502508																		3	■

NEW
NEW

Available dimensions for handstones

Shape	length mm	width mm	height mm
	25	15	5 to 30
	48	19	5 to 30
	50	25	10 to 35
	100	30	10 to 35
	100	50	10 to 35
	120	10	5 to 35
	150	25	10 to 35
	150	50	10 to 35
	200	50	10 to 35
 half-round	216	78	20 to 35
	150	13	5 to 35

High Performance

Mounted points-Assortments

Ordering example: A201000000353

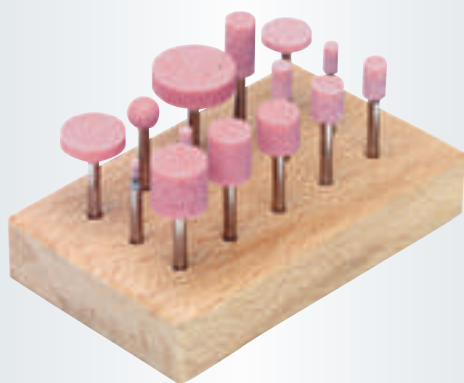


Packing unit:
1 pc. per type

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	■

Mounted points-Assortments

Ordering example: A204700001402



Packing unit:
1 pc. per type

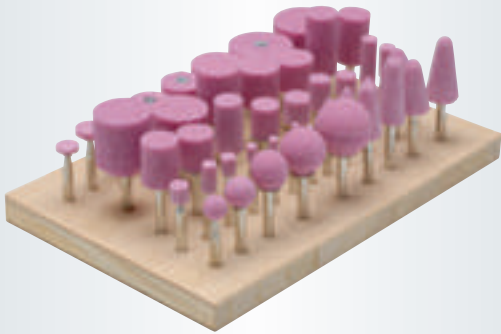
Description	Shank Ø mm	Quality	Contents	1 piece each	Product-Number	recommended for	
Assortment 14	3	EKR	14-pieces	ZY 0205, ZY 0306, ZY 0408, ZY 0510, ZY 0610, ZY 0810, ZY 0816, ZY 1010, ZY 1013, ZY 1313, KU 0808, ZY 1303, ZY 1604, ZY 2006	A204700001402	① ② ③	■

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	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	■

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	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	■

Mounted points-Assortments

Ordering example: A204600000202



Packing unit:
1 pc. per type

Description	Shank Ø mm	Quality	Contents	1 piece each	Product-Number	recommended for														
Assortment 45	6	EKR	45-pieces	ZY 0306, ZY 0510, ZY 0408, ZY 0610, ZY 0810, ZY 0816, ZY 1010, ZY 1020, ZY 1032, ZY2 1303, ZY 1313, ZY 1320, ZY2 1604, ZY 1616, ZY 1620, ZY 1632, ZY2 2006, ZY 2020, ZY 2025, ZY 2032 ZY 2040, ZY2 2506, ZY2 2510, ZY 2520, ZY 2525, ZY 2532, ZY2 3208, ZY 3220, ZY 3232, ZY2 4010, ZY 4020, SP 0816, SP 1020, SP 1320, SP 2032, KE 1632, KE 1640, KE 2032, KE 2040, KU 1010, KU 1313, KU 1616, KU 2020, KU 2525, KU 3232	A204600000202	①	②	③												

Grinding wheels – special for your particular application



Content

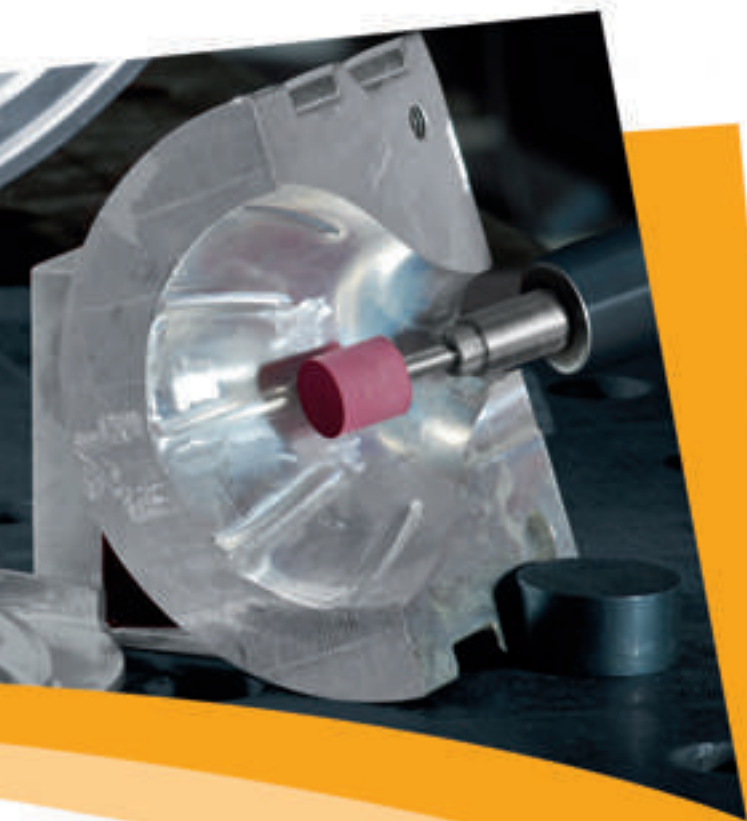
Description	Page
• Examples of our efficiency	108
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We are pleased to be able to offer you a “tailor-made” grinding wheel quality e.g.:

- Wheels in special qualities
- Wheels with special dimensions
- Wheels with special profiles
- Mounted points with imperial dimensions and/or imperial shafts
- Mounted points with internal threads and threaded shafts to suit
- Cup wheels
- Grinding wheels – plain and tapered
- Mounted points with extended shafts
- Mounted points with threaded shafts and extended shafts to suit
- Handstones and dressing sticks
- and much more

Please advise us of your application problem with all relevant information – the quicker this is done, the quicker we can react!
The relevant information required is:

- Shape, dimensions, shaft, bore size of the abrasive wheel (a sketch or technical drawing would be of great assistance)
- Material to be ground
- Type of application (e.g. fettling, deburring)
- Surface finish requirements
- Machine R.P.M
- anticipated order quantity
- wheel currently being used (type, quality...)
- etc.



Content

Description	Page
• General Information	110
• Polishing points, group P1	111
• Polishing points, group P2	114
• Elastic polishing sticks, group P4	118
• Polishing points, group P5	120
• Polishing points and wheels, marbling points, group P6	122
• Power tool	271

High Performance marking

High Performance

Ordering example:

Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

General Information

To meet the increasing demand for polishing points, we have developed a large assortment of points manufactured from a variety of raw materials available in different grit sizes and hardness. LUKAS polishing points and sticks have been categorized according to the individual application.



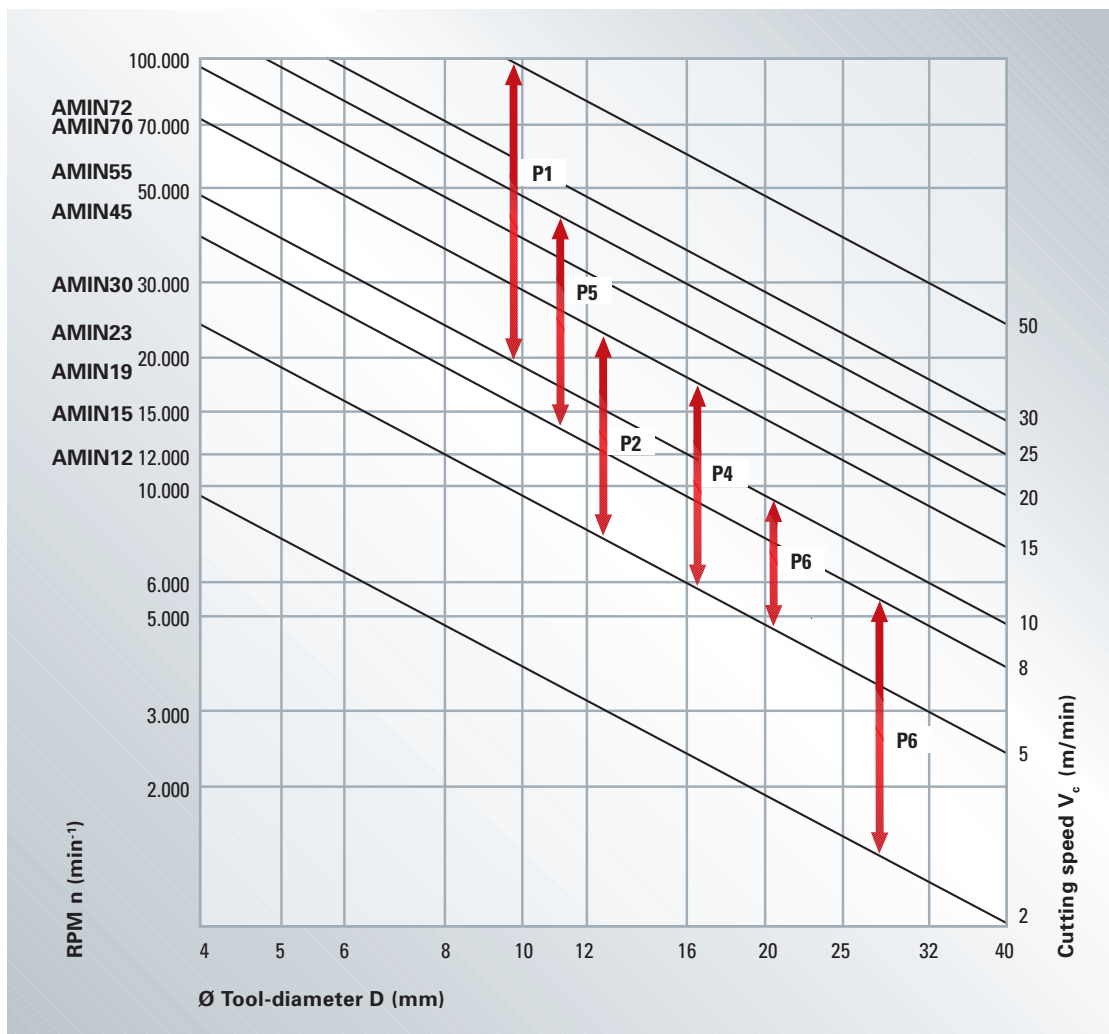
Safety instructions

LUKAS polishing points group – P1 and P5 – are manufactured to the EN 12413 safety standards and are allowed to run at a maximum operating speed of 50 m/s, group P2 at a safe max. speed of 15 m/s. The permissible maximum operating speed of the product group P6 is 20 m/s.

The operating speed to achieve optimal performance generally lies below the maximum permissible operating speed. The maximum permissible R.P.M. is dependent on the overhang length of the shaft. Our polishing mounted points are supplied with identification tickets indicating the maximum R.P.M. for different overhang lengths.

To ensure the safe use of polishing points, please note the following FEPA-publications:

- FEPA-safety recommendations for the correct use of abrasive products
- FEPA-safety instructions for bonded abrasives



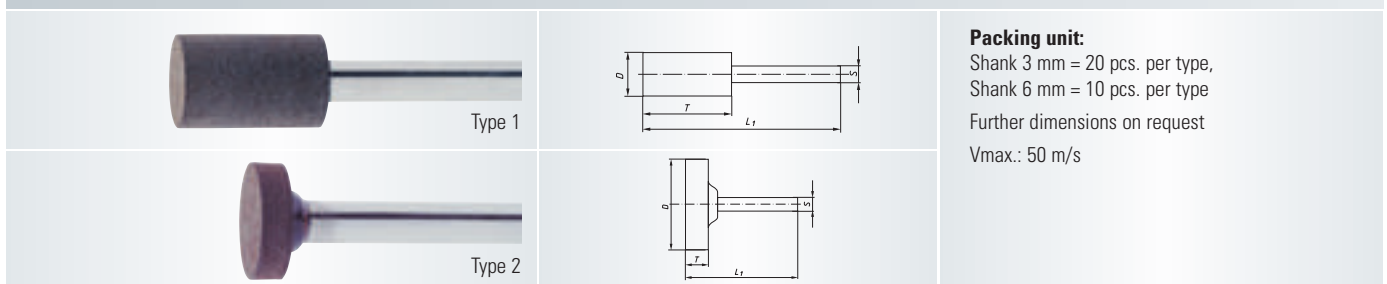
Quality and application P1

These polishing points are available in one grit combination only. The surface finish is similar to a finish with grit size 100. The hard-rubber bond makes these points particularly suitable for finishing castings, hard and soft tool steels and also alloyed steel. There is

no loading with these points. If applied with low pressure, they have a long and economical tool life.

Shape ZY, Cylindrical (according to DIN 69170)

Ordering example: A2600004083



Packing unit:

Shank 3 mm = 20 pcs. per type,
Shank 6 mm = 10 pcs. per type

Further dimensions on request

Vmax.: 50 m/s

Description	Type	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for								
P1ZY 0408.03	1	4	8	3	38	A2600004083	1	2	3	4	5	7			■
P1ZY 0510.03	1	5	10	3	40	A2600005103	1	2	3	4	5	7			■
P1ZY 0610.03	1	6	10	3	40	A2600006103	1	2	3	4	5	7			■
P1ZY 0710.03	1	7	10	3	40	A2600007103	1	2	3	4	5	7			■
P1ZY 0810.03	1	8	10	3	40	A2600008103	1	2	3	4	5	7			■
P1ZY 0816.06	1	8	16	6	56	A2600008166	1	2	3	4	5	7			■
P1ZY 0820.06	1	8	20	6	60	A2600008206	1	2	3	4	5	7			■
P1ZY 1010.03	1	10	10	3	40	A2600010103	1	2	3	4	5	7			■
P1ZY 1013.03	1	10	13	3	43	A2600010133	1	2	3	4	5	7			■
P1ZY 1016.03	1	10	16	3	46	A2600010163	1	2	3	4	5	7			■
P1ZY 1020.06	1	10	20	6	60	A2600010206	1	2	3	4	5	7			■
P1ZY 1303.03	2	13	3	3	33	A2607013033	1	2	3	4	5	7			■
P1ZY 1313.03	1	13	13	3	43	A2600013133	1	2	3	4	5	7			■
P1ZY 1316.03	1	13	16	3	46	A2600013163	1	2	3	4	5	7			■
P1ZY 1320.06	1	13	20	6	60	A2600013206	1	2	3	4	5	7			■
P1ZY 1604.03	2	16	4	3	34	A2607016043	1	2	3	4	5	7			■
P1ZY 1616.03	1	16	16	3	46	A2600016163	1	2	3	4	5	7			■
P1ZY 1620.06	1	16	20	6	60	A2600016206	1	2	3	4	5	7			■
P1ZY 1632.06	1	16	32	6	72	A2600016326	1	2	3	4	5	7			■
P1ZY 2006.03	2	20	6	3	36	A2607020063	1	2	3	4	5	7			■
P1ZY 2020.06	1	20	20	6	60	A2600020206	1	2	3	4	5	7			■
P1ZY 2032.06	1	20	32	6	72	A2600020326	1	2	3	4	5	7			■
P1ZY 3210.06	1	32	10	6	50	A2607032106	1	2	3	4	5	7			■
P1ZY 3216.06	1	32	16	6	56	A2600032166	1	2	3	4	5	7			■
P1ZY 4020.06	1	40	20	6	60	A2600040206	1	2	3	4	5	7			■

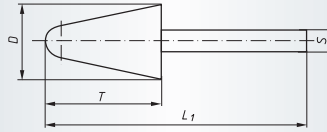
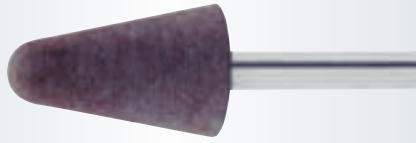
Shape KS, conical pointed nose (according to DIN 69170)						Ordering example: A2602016326	
				Packing unit: 10 pcs. per type Further dimensions on request Vmax.: 50 m/s			
Description	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P1KS 1632.06	16	32	6	72	A2602016326	1 2 3 4 5 7	■

Shape KU, Spherical (according to DIN 69170)						Ordering example: A2605008083	
				Packing unit: Shank 3 mm = 20 pcs. per type, Shank 6 mm = 10 pcs. per type Further dimensions on request Vmax.: 50 m/s			
Description	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P1KU 0808.03	8	8	3	38	A2605008083	1 2 3 4 5 7	■
P1KU 1616.06	16	16	6	55	A2605016166	1 2 3 4 5 7	■

Shape WR, Cylindrical round nose (according to DIN 69170)						Ordering example: A2605008083	
				Packing unit: 10 pcs. per type Vmax.: 50 m/s			
						available on request	

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

Ordering example: A2609020326



Packing unit:
10 pcs. per type
Further dimensions on request
Vmax.: 50 m/s

Description	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P1KE 2032.06	20	32	6	72	A2609020326	1 2 3 4 5 7	■

Assortment, Polishing points, 114

Ordering example: A2600114



Packing unit:
1 pc. per type
Further dimensions on request
Vmax.: 50 m/s

Description	Contents	1 piece each	Product-Number	recommended for	
Assortment 114	14-pieces	P1ZY 0408.03; P1ZY 0510.03; P1ZY 0610.03; P1ZY 0710.03; P1ZY 0810.03; P1ZY 1010.03; P1ZY 1013.03; P1ZY 1016.03; P1ZY 1303.03; P1ZY 1313.03; P1ZY 1316.03; P1ZY 1604.03; P1ZY 1616.03; P1ZY 2006.03	A2600114	1 2 3 4 5 7	■

Quality and application P2

The polishing points of this group are available in the five grit sizes as detailed below. The soft rubber bond results in a very soft grinding action. Polishing Points, group 2, are used where pre-machined surfaces require a smooth or mirror finish.

We can also supply polishing wheels up to 200 mm diameter in this product group; available grit sizes as illustrated below. Exact dimension and prices on request.

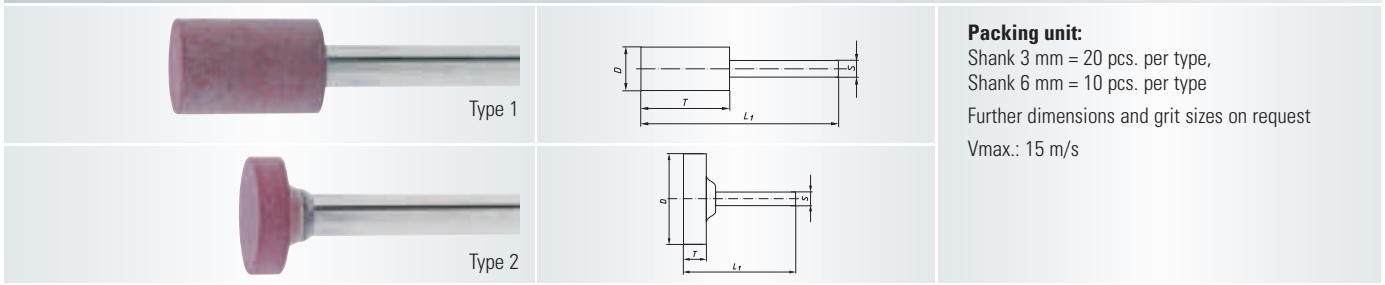
Color	black	pale grey	red	brown	green
Grit size	46	80	120	220	280

Shape ZY, Cylindrical (according to DIN 69170)

Ordering example: A2610004083080

	Type 1		Packing unit: Shank 3 mm = 20 pcs. per type, Shank 6 mm = 10 pcs. per type Further dimensions and grit sizes on request Vmax.: 15 m/s
	Type 2		

Description	Grit	Type	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P2ZY 0408.03	80	1	4	8	3	38	A2610004083080	1 2 3 4 5 6 7 8	■
P2ZY 0408.03	120	1	4	8	3	38	A2610004083120	1 2 3 4 5 6 7 8	■
P2ZY 0408.03	220	1	4	8	3	38	A2610004083220	1 2 3 4 5 6 7 8	■
P2ZY 0408.03	280	1	4	8	3	38	A2610004083280	1 2 3 4 5 6 7 8	■
P2ZY 0510.03	80	1	5	10	3	40	A2610005103080	1 2 3 4 5 6 7 8	■
P2ZY 0510.03	120	1	5	10	3	40	A2610005103120	1 2 3 4 5 6 7 8	■
P2ZY 0510.03	220	1	5	10	3	40	A2610005103220	1 2 3 4 5 6 7 8	■
P2ZY 0510.03	280	1	5	10	3	40	A2610005103280	1 2 3 4 5 6 7 8	■
P2ZY 0610.03	80	1	6	10	3	40	A2610006103080	1 2 3 4 5 6 7 8	■
P2ZY 0610.03	120	1	6	10	3	40	A2610006103120	1 2 3 4 5 6 7 8	■
P2ZY 0610.03	220	1	6	10	3	40	A2610006103220	1 2 3 4 5 6 7 8	■
P2ZY 0610.03	280	1	6	10	3	40	A2610006103280	1 2 3 4 5 6 7 8	■
P2ZY 0810.03	46	1	8	10	3	40	A2610008103046	1 2 3 4 5 6 7 8	■
P2ZY 0810.03	80	1	8	10	3	40	A2610008103080	1 2 3 4 5 6 7 8	■
P2ZY 0810.03	120	1	8	10	3	40	A2610008103120	1 2 3 4 5 6 7 8	■

Shape ZY, Cylindrical (according to DIN 69170)
Ordering example: A2610008103220

Packing unit:

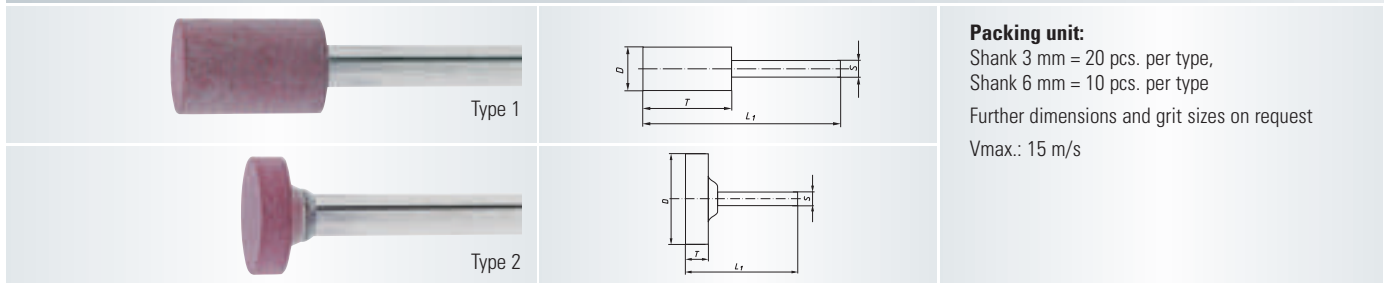
 Shank 3 mm = 20 pcs. per type,
 Shank 6 mm = 10 pcs. per type

 Further dimensions and grit sizes on request
 Vmax.: 15 m/s

Description	Grit	Type	D mm	T mm	S mm	L1 mm	Product-Number	recommended for	
P2ZY 0810.03	220	1	8	10	3	40	A2610008103220	1 2 3 4 5 6 7 8	■
P2ZY 0810.03	280	1	8	10	3	40	A2610008103280	1 2 3 4 5 6 7 8	■
P2ZY 0816.06	80	1	8	16	6	56	A2610008166080	1 2 3 4 5 6 7 8	■
P2ZY 0816.06	120	1	8	16	6	56	A2610008166120	1 2 3 4 5 6 7 8	■
P2ZY 0816.06	220	1	8	16	6	56	A2610008166220	1 2 3 4 5 6 7 8	■
P2ZY 0816.06	280	1	8	16	6	56	A2610008166280	1 2 3 4 5 6 7 8	■
P2ZY 1010.03	46	1	10	10	3	40	A2610010103046	1 2 3 4 5 6 7 8	■
P2ZY 1010.03	80	1	10	10	3	40	A2610010103080	1 2 3 4 5 6 7 8	■
P2ZY 1010.03	120	1	10	10	3	40	A2610010103120	1 2 3 4 5 6 7 8	■
P2ZY 1010.03	220	1	10	10	3	40	A2610010103220	1 2 3 4 5 6 7 8	■
P2ZY 1010.03	280	1	10	10	3	40	A2610010103280	1 2 3 4 5 6 7 8	■
P2ZY 1020.06	80	1	10	20	6	60	A2610010206080	1 2 3 4 5 6 7 8	■
P2ZY 1020.06	120	1	10	20	6	60	A2610010206120	1 2 3 4 5 6 7 8	■
P2ZY 1020.06	220	1	10	20	6	60	A2610010206220	1 2 3 4 5 6 7 8	■
P2ZY 1020.06	280	1	10	20	6	60	A2610010206280	1 2 3 4 5 6 7 8	■
P2ZY 1313.03	80	1	13	13	3	43	A2610013133080	1 2 3 4 5 6 7 8	■
P2ZY 1313.03	120	1	13	13	3	43	A2610013133120	1 2 3 4 5 6 7 8	■
P2ZY 1313.03	220	1	13	13	3	43	A2610013133220	1 2 3 4 5 6 7 8	■
P2ZY 1313.03	280	1	13	13	3	43	A2610013133280	1 2 3 4 5 6 7 8	■
P2ZY 1316.03	120	1	13	16	3	46	A2610013163120	1 2 3 4 5 6 7 8	■
P2ZY 1320.06	46	1	13	20	6	60	A2610013206046	1 2 3 4 5 6 7 8	■
P2ZY 1320.06	80	1	13	20	6	60	A2610013206080	1 2 3 4 5 6 7 8	■
P2ZY 1320.06	120	1	13	20	6	60	A2610013206120	1 2 3 4 5 6 7 8	■
P2ZY 1320.06	220	1	13	20	6	60	A2610013206220	1 2 3 4 5 6 7 8	■
P2ZY 1320.06	280	1	13	20	6	60	A2610013206280	1 2 3 4 5 6 7 8	■
P2ZY 1616.03	120	1	16	16	3	46	A2610016163120	1 2 3 4 5 6 7 8	■
P2ZY 1620.06	80	1	16	20	6	60	A2610016206080	1 2 3 4 5 6 7 8	■
P2ZY 1620.06	120	1	16	20	6	60	A2610016206120	1 2 3 4 5 6 7 8	■
P2ZY 1620.06	220	1	16	20	6	60	A2610016206220	1 2 3 4 5 6 7 8	■
P2ZY 1620.06	280	1	16	20	6	60	A2610016206280	1 2 3 4 5 6 7 8	■
P2ZY 1632.06	80	1	16	32	6	72	A2610016326080	1 2 3 4 5 6 7 8	■
P2ZY 1632.06	120	1	16	32	6	72	A2610016326120	1 2 3 4 5 6 7 8	■
P2ZY 1632.06	220	1	16	32	6	72	A2610016326220	1 2 3 4 5 6 7 8	■
P2ZY 2020.06	46	1	20	20	6	60	A2610020206046	1 2 3 4 5 6 7 8	■
P2ZY 2020.06	80	1	20	20	6	60	A2610020206080	1 2 3 4 5 6 7 8	■
P2ZY 2020.06	120	1	20	20	6	60	A2610020206120	1 2 3 4 5 6 7 8	■
P2ZY 2020.06	220	1	20	20	6	60	A2610020206220	1 2 3 4 5 6 7 8	■
P2ZY 2020.06	280	1	20	20	6	60	A2610020206280	1 2 3 4 5 6 7 8	■
P2ZY 2032.06	80	1	20	32	6	72	A2610020326080	1 2 3 4 5 6 7 8	■

Shape ZY, Cylindrical (according to DIN 69170)

Ordering example: A2610020326120



Packing unit:

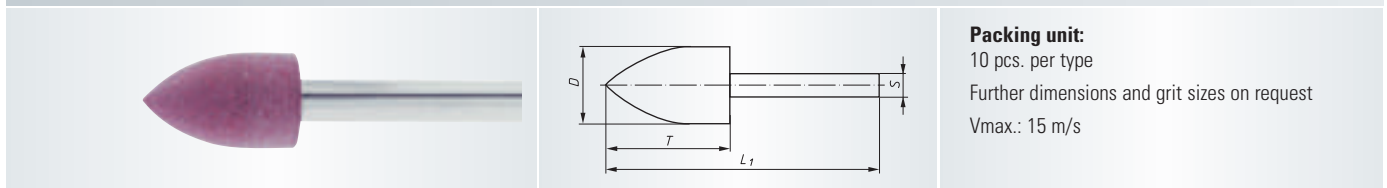
Shank 3 mm = 20 pcs. per type,
Shank 6 mm = 10 pcs. per type

Further dimensions and grit sizes on request
Vmax.: 15 m/s

Description	Grit	Type	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P2ZY 2032.06	120	1	20	32	6	72	A2610020326120	1 2 3 4 5 6 7 8	■
P2ZY 2032.06	220	1	20	32	6	72	A2610020326220	1 2 3 4 5 6 7 8	■
P2ZY 2032.06	280	1	20	32	6	72	A2610020326280	1 2 3 4 5 6 7 8	■
P2ZY 2510.06	120	2	25	10	6	50	A2617025106120	1 2 3 4 5 6 7 8	■
P2ZY 3210.06	120	1	32	10	6	50	A2617032106120	1 2 3 4 5 6 7 8	■
P2ZY 3210.06	220	1	32	10	6	50	A2617032106220	1 2 3 4 5 6 7 8	■
P2ZY 3220.06	120	1	32	20	6	60	A2610032206120	1 2 3 4 5 6 7 8	■
P2ZY 3232.06	120	1	32	32	6	72	A2610032326120	1 2 3 4 5 6 7 8	■
P2ZY 3232.06	280	1	32	32	6	72	A2610032326280	1 2 3 4 5 6 7 8	■
P2ZY 4010.06	120	2	40	10	6	50	A2617040106120	1 2 3 4 5 6 7 8	■
P2ZY 4020.06	46	1	40	20	6	60	A2610040206046	1 2 3 4 5 6 7 8	■
P2ZY 4020.06	120	1	40	20	6	60	A2610040206120	1 2 3 4 5 6 7 8	■

Shape SP, Arch pointed nose (according to DIN 69170)

Ordering example: A2611013206120




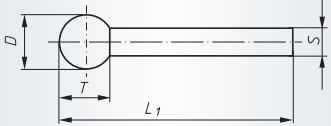
Packing unit:

10 pcs. per type


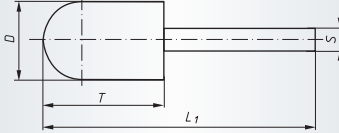
Further dimensions and grit sizes on request
Vmax.: 15 m/s

Description	Grit	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P2SP 1320.06	120	13	20	6	60	A2611013206120	1 2 3 4 5 6 7 8	■
P2SP 2032.06	220	20	32	6	72	A2611020326220	1 2 3 4 5 6 7 8	■


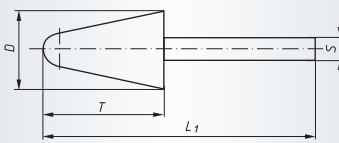
Shape KU, Spherical (according to DIN 69170)
Ordering example: A2615008083120

						Packing unit: Shank 3 mm = 20 pcs. per type, Shank 6 mm = 10 pcs. per type Further dimensions and grit sizes on request Vmax.: 15 m/s		
Description	Grit	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P2KU 0808.03	120	8	8	3	38	A2615008083120	1 2 3 4 5 6 7 8	■
P2KU 1010.03	120	10	10	3	40	A2615010103120	1 2 3 4 5 6 7 8	■
P2KU 1616.06	120	16	16	6	56	A2615016166120	1 2 3 4 5 6 7 8	■
P2KU 1616.06	220	16	16	6	56	A2615016166220	1 2 3 4 5 6 7 8	■

Shape WR, Cylindrical round nose (according to DIN 69170)
Ordering example: A2618016326120

						Packing unit: 10 pcs. per type Further dimensions and grit sizes on request Vmax.: 15 m/s		
Description	Grit	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P2WR 1632.06	120	16	32	6	72	A2618016326120	1 2 3 4 5 6 7 8	■

Shape KE, Conical round nose (according to DIN 69170)
Ordering example: A2619010206080

						Packing unit: 10 pcs. per type Further dimensions and grit sizes on request Vmax.: 15 m/s		
Description	Grit	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P2KE 1020.06	80	10	20	6	60	A2619010206080	1 2 3 4 5 6 7 8	■
P2KE 1020.06	120	10	20	6	60	A2619010206120	1 2 3 4 5 6 7 8	■

Quality and application P4

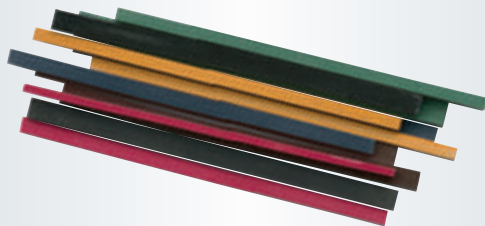
A mixture of abrasive grit Al. Oxide or Silicon Carbide and fillers is bonded by various hardness grades of duroplastic elastomers. Consequently, the polishing sticks within this product group have a relatively dense structure. We offer grades i.e. from soft to hard.


These polishing sticks are mainly used off-hand in the mould and die industry.

Color	Qualities	Color	Qualities	Color	Qualities
pale grey	SiC 80 soft	pale green	SiC 240 soft	pale red	EKW 150 soft
grey	SiC 80 hard	green	SiC 240 hard	red	EKW 150 hard
pale blue	SiC 150 soft	beige	EKW 80 soft	pale brown	EKW 240 soft
blue	SiC 150 hard	dark beige	EKW 80 hard	brown	EKW 240 hard

Polishing sticks, flat

Ordering example: P4SF 0612.070 SiC 80 soft





Packing unit:
10 pcs. per type
Further dimensions on request
All items are available within a few days
ex-intermediate stock.

Description	H mm	B mm	L mm															
P4SF 0612.070	6	12	70															▲
P4SF 0612.140	6	12	140															▲
P4SF 0816.070	8	16	70															▲
P4SF 0816.140	8	16	140															▲
P4SF 0816.210	8	16	210															▲
P4SF 1020.070	10	20	70															▲
P4SF 1020.140	10	20	140															▲
P4SF 1020.210	10	20	210															▲
P4SF 1020.280	10	20	280															▲

Quality and application P5

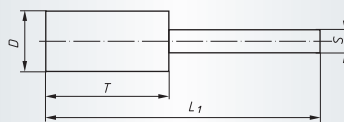
The polishing points of this group are characterised by their special structure and bonding i.e. fibre reinforced. This makes them ideally suitable for precision machining of metals, low and high alloy steels.

They are available in the following grit sizes and are marked with a red ring on the shank.



Shape ZY, Cylindrical (according to DIN 69170)

Ordering example: A2620004083080



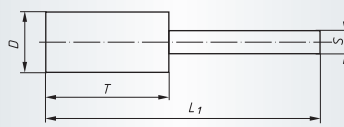
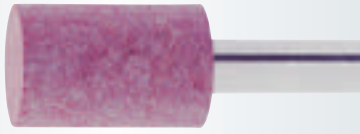
Packing unit:

Shank 3 mm = 20 pcs. per type,
Shank 6 mm = 10 pcs. per type

Further dimensions and grit sizes on request

Vmax.: 50 m/s

Description	Grit	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P5ZY 0408.03	80	4	8	3	38	A2620004083080	1 2 3 4 5 7	■
P5ZY 0408.03	120	4	8	3	38	A2620004083120	1 2 3 4 5 7	■
P5ZY 0510.03	80	5	10	3	40	A2620005103080	1 2 3 4 5 7	■
P5ZY 0510.03	120	5	10	3	40	A2620005103120	1 2 3 4 5 7	■
P5ZY 0610.03	80	6	10	3	40	A2620006103080	1 2 3 4 5 7	■
P5ZY 0610.03	120	6	10	3	40	A2620006103120	1 2 3 4 5 7	■
P5ZY 0810.03	80	8	10	3	40	A2620008103080	1 2 3 4 5 7	■
P5ZY 0810.03	120	8	10	3	40	A2620008103120	1 2 3 4 5 7	■
P5ZY 0816.06	46	8	16	6	56	A2620008166046	1 2 3 4 5 7	■
P5ZY 0816.06	80	8	16	6	56	A2620008166080	1 2 3 4 5 7	■
P5ZY 0816.06	120	8	16	6	56	A2620008166120	1 2 3 4 5 7	■
P5ZY 1010.03	80	10	10	3	40	A2620010103080	1 2 3 4 5 7	■
P5ZY 1010.03	120	10	10	3	40	A2620010103120	1 2 3 4 5 7	■
P5ZY 1020.06	46	10	20	6	60	A2620010206046	1 2 3 4 5 7	■
P5ZY 1020.06	80	10	20	6	60	A2620010206080	1 2 3 4 5 7	■
P5ZY 1020.06	120	10	20	6	60	A2620010206120	1 2 3 4 5 7	■
P5ZY 1313.03	120	13	13	3	43	A2620013133120	1 2 3 4 5 7	■
P5ZY 1316.03	80	13	16	3	46	A2620013163080	1 2 3 4 5 7	■

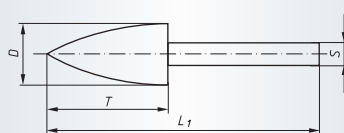
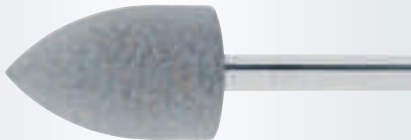
Shape ZY, Cylindrical (according to DIN 69170)
Ordering example: A2620013206080

Packing unit:

 Shank 3 mm = 20 pcs. per type,
 Shank 6 mm = 10 pcs. per type

Further dimensions and grit sizes on request

Vmax.: 50 m/s

Description	Grit	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P5ZY 1320.06	80	13	20	6	60	A2620013206080	1 2 3 4 5 7	■
P5ZY 1320.06	120	13	20	6	60	A2620013206120	1 2 3 4 5 7	■
P5ZY 1620.06	80	16	20	6	60	A2620016206080	1 2 3 4 5 7	■
P5ZY 1620.06	120	16	20	6	60	A2620016206120	1 2 3 4 5 7	■
P5ZY 1632.06	46	16	32	6	72	A2620016326046	1 2 3 4 5 7	■
P5ZY 1632.06	80	16	32	6	72	A2620016326080	1 2 3 4 5 7	■
P5ZY 2020.06	80	20	20	6	60	A2620020206080	1 2 3 4 5 7	■
P5ZY 2020.06	120	20	20	6	60	A2620020206120	1 2 3 4 5 7	■
P5ZY 2032.06	46	20	32	6	72	A2620020326046	1 2 3 4 5 7	■
P5ZY 2032.06	120	20	32	6	72	A2620020326120	1 2 3 4 5 7	■
P5ZY 3232.06	80	32	32	6	72	A2620032326080	1 2 3 4 5 7	■
P5ZY 4016.06	120	40	16	6	56	A2620040166120	1 2 3 4 5 7	■

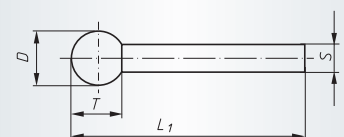
Shape SP, Arch pointed nose (according to DIN 69170)
Ordering example:: A2621020326080

Packing unit:

10 pcs. per type

Further dimensions and grit sizes on request

Vmax.: 50 m/s

Description	Grit	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P5SP 2032.06	80	20	32	6	72	A2621020326080	1 2 3 4 5 7	■

Shape KU, Spherical (according to DIN 69170)
Ordering example: A2625008083080

Packing unit:

20 pcs. per type

Further dimensions and grit sizes on request

Vmax.: 50 m/s

Description	Grit	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P5KU 0808.03	80	8	8	3	38	A2625008083080	1 2 3 4 5 7	■

Quality and application P6

The finishing tools of this group are manufactured with the very resilient PU-type bond.

- They can easily be shaped to any desired profile.
- They generate excellent surface finish in a very short cycle time.
- They generate little heat during grinding.

These polishing points and wheels are used to improve surface finishes and geometry. The main applications are the finishing and polishing of steel, brass, precious metal, sintered metals, plastic. They are also used to generate patterned surface finishes. They can be used with or without coolant. When grinding wet, the coolant must be neutral (ph 7). For dressing, LUKAS dressing

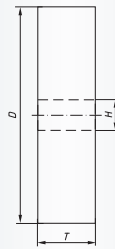
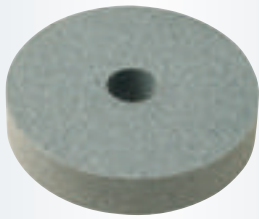
sticks can be used (please see page 103). The following grades are available:

- W** = soft, very resilient
- M** = medium, resilient for general purpose
- H** = hard elastic, mainly used for flat surfaces.

The PU-bond contains Siliconcarbide "S" or Aluminium Oxide "A" abrasive grain available in the FEPA grit sizes 24 to 240.

Polishing Wheels, Shape S1

Ordering example: A39030072005



Packing unit:

1 pc. per type
Further dimensions on request
Vmax.: 20 m/s

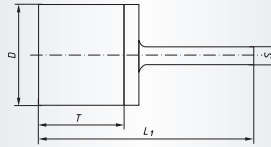
Description	Quality/ Körnung	D mm	T mm	H mm	Product-Number	recommended for	
P6S1 15020.20	S 80 H	150	20	20	A39030072005	2 3 4 5 6 7 9	■
P6S1 15020.20	S 150 H	150	20	20	A39030072010	2 3 4 5 6 7 9	■
P6S1 20025.20	S 80 H	200	25	20	A39030082005	2 3 4 5 6 7 9	■
P6S1 20025.20	S 150 H	200	25	20	A39030082010	2 3 4 5 6 7 9	■

These polishing wheels are supplied in a hard-elastic bond in the two grit sizes 80 and 150. This bond type allows minimal conformity to the workpiece profile

but has a good stockremoval rate.

Marbling points, Shape ZY, Cylinder

Ordering example: A39040090607



Packing unit:

1 pc. per type

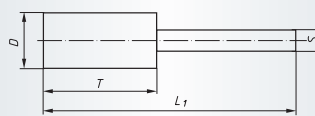
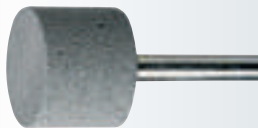
Further dimensions and grit sizes on request

Vmax.: 20 m/s

Description	Quality/ Grit	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P6MA 3030.06	S 46 M	30	30	6	77	A39040090607	2 3 4 5 6 7 9	■
P6MA 3030.06	S 46 H	30	30	6	77	A39040090606	2 3 4 5 6 7 9	■
P6MA 4030.06	S 46 M	40	30	6	77	A39040100607	2 3 4 5 6 7 9	■
P6MA 4030.06	S 46 H	40	30	6	77	A39040100606	2 3 4 5 6 7 9	■
P6MA 5030.06	S 46 M	50	30	6	77	A39040110607	2 3 4 5 6 7 9	■
P6MA 5030.06	S 46 H	50	30	6	77	A39040110606	2 3 4 5 6 7 9	■

Polishing points, Shape ZY, Cylindrical

Ordering example: A39020030306



Packing unit:

10 pcs. per type

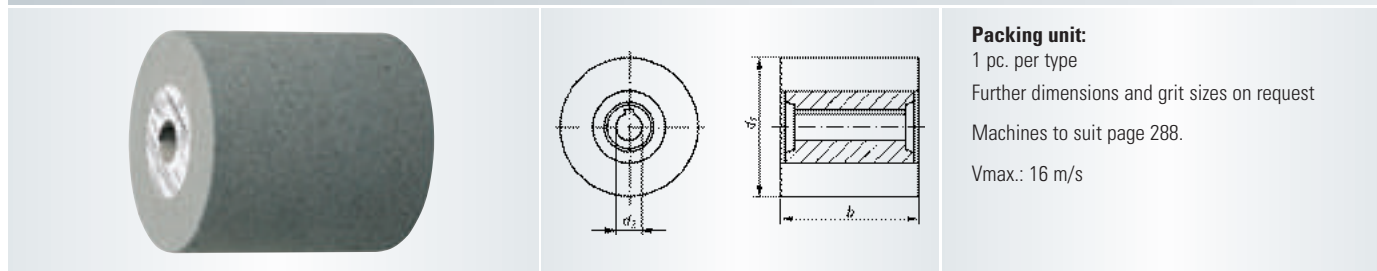
Further dimensions and grit sizes on request

Vmax.: 20 m/s

Description	Quality/ Grit	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P6ZY 1620.03	S 46 H	16	20	3	50	A39020030306	2 3 4 5 6 7 9	■
P6ZY 1620.03	S 80 H	16	20	3	50	A39020030305	2 3 4 5 6 7 9	■
P6ZY 1620.03	S 150 H	16	20	3	50	A39020030310	2 3 4 5 6 7 9	■
P6ZY 1620.03	S 240 H	16	20	3	50	A39020030313	2 3 4 5 6 7 9	■
P6ZY 2020.06	S 46 H	20	20	6	60	A39020040606	2 3 4 5 6 7 9	■
P6ZY 2020.06	S 150 H	20	20	6	60	A39020040610	2 3 4 5 6 7 9	■
P6ZY 2520.06	S 80 H	25	20	6	60	A39020050605	2 3 4 5 6 7 9	■
P6ZY 3030.06	S 46 H	30	30	6	60	A39020090606	2 3 4 5 6 7 9	■
P6ZY 3030.06	S 150 H	30	30	6	60	A39020090610	2 3 4 5 6 7 9	■
P6ZY 3030.06	S 240 H	30	30	6	60	A39020090613	2 3 4 5 6 7 9	■

Polishing roll, LSP

Ordering example: A39010011903



Description	Quality/ Grit	d ₁ mm	b mm	d ₂ mm	Product-Number	recommended for	
LSP 100050	S 80 M	100	50	19	A39010011903	1 2 3 4 5 6 7 9	■
LSP 100100	S 24 M	100	100	19	A39010021901	1 2 3 4 5 6 7 9	■
LSP 100100	S 46 W	100	100	19	A39010021908	1 2 3 4 5 6 7 9	■
LSP 100100	S 80 W	100	100	19	A39010021904	1 2 3 4 5 6 7 9	■
LSP 100100	S 80 M	100	100	19	A39010021903	1 2 3 4 5 6 7 9	■



Felt polishing points, group P3 and Grinding compound

125

Description	Shape (Lukas)	Page
Cylindrical	ZY	127
Arch pointed nose	SP	127
Spherical	KU	128
Conical round nose	KE	128
Grinding compound		129
Wheels	S1	129
Arbors		129
Power tools		271

Content

Description	Page
• General Information	126
• Felt polishing points	127

High Performance marking

Ordering example:

Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Quality

LUKAS Felt Polishing Points are available in 2 qualities:

- H3 standard corresponding DIN 61200
- H3S hard quality, specifically used in conjunction with diamond paste

Application

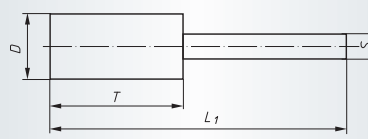
The LUKAS stock programme for felt polishing points offers the most widely used shapes and dimensions, based on many years of experience. Because of the excellent elasticity of felt points, they are specifically used for polishing operations in conjunction with LUKAS- diamond paste.

Operating speed

The optimal operating speed for LUKAS-felt polishing points is between 5 – 10 m/s.

Shape ZY, Cylindrical

Ordering example: A3700006103

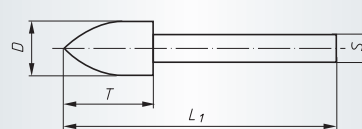

Packing unit:

 Shank 3 mm = 20 pcs. per type,
 Shank 6 mm = 10 pcs. per type
 Further dimensions on request

Description	Quality	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for									
P3ZY 0610.03	H3	6	10	3	50	A3700006103	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 0610.03	H3-S	6	10	3	50	A37000061030001	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 0810.03	H3	8	10	3	50	A3700008103	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 0810.03	H3-S	8	10	3	50	A37000081030001	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 1012.03	H3	10	12	3	50	A3700010123	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 1012.03	H3-S	10	12	3	50	A37000101230001	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 1015.06	H3	10	15	6	55	A3700010156	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 1015.06	H3-S	10	15	6	55	A37000101560001	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 1215.03	H3	12	15	3	55	A3700012153	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 1215.03	H3-S	12	15	3	55	A37000121530001	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 1220.06	H3	12	20	6	60	A3700012206	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 1220.06	H3-S	12	20	6	60	A37000122060001	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 1620.06	H3	16	20	6	60	A3700016206	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 2025.06	H3	20	25	6	65	A3700020256	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 2025.06	H3-S	20	25	6	65	A37000202560001	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 2530.06	H3	25	30	6	70	A3700025306	①	②		④	⑤	⑥	⑦		⑨	■
P3ZY 3040.06	H3	30	40	6	80	A3700030406	①	②		④	⑤	⑥	⑦		⑨	■

Shape SP, Arch pointed nose

Ordering example: A3701006103

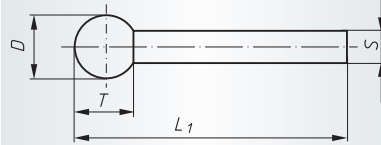

Packing unit:

 Shank 3 mm = 20 pcs. per type,
 Shank 6 mm = 10 pcs. per type
 Further dimensions on request

Description	Quality	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for									
P3SP 0610.03	H3	6	10	3	50	A3701006103	①	②		④	⑤	⑥	⑦		⑨	■
P3SP 0810.03	H3	8	10	3	50	A3701008103	①	②		④	⑤	⑥	⑦		⑨	■
P3SP 1012.03	H3	10	12	3	52	A3701010123	①	②		④	⑤	⑥	⑦		⑨	■
P3SP 1015.06	H3	10	15	6	55	A3701010156	①	②		④	⑤	⑥	⑦		⑨	■
P3SP 1220.06	H3	12	20	6	60	A3701012206	①	②		④	⑤	⑥	⑦		⑨	■
P3SP 2025.06	H3	20	25	6	65	A3701020256	①	②		④	⑤	⑥	⑦		⑨	■
P3SP 2530.06	H3	25	30	6	70	A3701025306	①	②		④	⑤	⑥	⑦		⑨	■
P3SP 3040.06	H3	30	40	6	80	A3701030406	①	②		④	⑤	⑥	⑦		⑨	■

Shape KU, Spherical

Ordering example: A3703006063



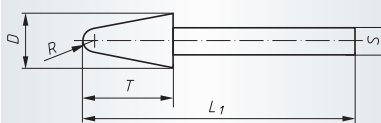
Packing unit:

Shank 3 mm = 20 pcs. per type,
Shank 6 mm = 10 pcs. per type
Further dimensions on request

Description	Quality	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
P3KU 0605.03	H3	6	5,5	3	45	A3703006063	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KU 0807.03	H3	8	7,5	3	50	A3703008083	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KU 1009.03	H3	10	9	3	50	A3703010103	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KU 1009.06	H3	10	9	6	50	A3703010106	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KU 1211.06	H3	12	11	6	50	A3703012126	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KU 2019.06	H3	20	19	6	60	A3703020206	① ② ④ ⑤ ⑥ ⑦ ⑨	■

Shape KE, Conical round nose


Ordering example: A3705010123


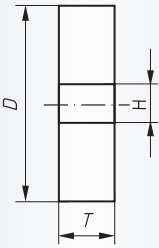



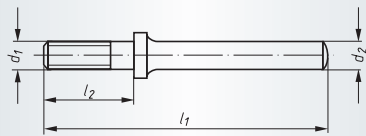
Packing unit:

Shank 3 mm = 20 pcs. per type,
Shank 6 mm = 10 pcs. per type
Further dimensions on request

Description	Quality	D mm	T mm	S mm	L ₁ mm	R mm	Product-Number	recommended for	
P3KE 1012.03	H3	10	12	3	50	2,5	A3705010123	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KE 1015.06	H3	10	15	6	55	2,5	A3705010156	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KE 1015.06	H3S	10	15	6	55	2,5	A37050101560001	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KE 1620.06	H3	16	20	6	60	3	A3705016206	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KE 2025.06	H3	20	25	6	65	3,5	A3705020256	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KE 2025.06	H3S	20	25	6	65	3,5	A37050202560001	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KE 2530.06	H3	25	30	6	70	4,5	A3705025306	① ② ④ ⑤ ⑥ ⑦ ⑨	■
P3KE 3040.06	H3	30	40	6	80	6,5	A3705030406	① ② ④ ⑤ ⑥ ⑦ ⑨	■

Grinding compound					Ordering example: A3760120							
					Packing unit: 1 pc. per type Contents: 250 g							
Description	Quality	Grit	µm	Product-Number	recommended for							
SP-1	medium	120	88 – 125	A3760120	1	2	3	4	5	6	7	■
SP-2	fine	180	55 – 88	A3760180	1	2	3	4	5	6	7	■
SP-3	very fine	320	20 – 40	A3760320	1	2	3	4	5	6	7	■
Specification: grinding compound with silicon carbide, oil soluble					Application: for polishing of pre-ground surfaces; particularly well suited for hard metal surfaces							

Shape S1, Wheels					Ordering example: A3750040106								
					Packing unit: 10 pcs. per type Further dimensions on request								
Description	Quality	D mm	T mm	H mm	Product-Number	recommended for							
P3S1 4010.06	H3	40	10	6	A3750040106	1	2	4	5	6	7	9	■
P3S1 5010.06	H3	50	10	6	A3750050106	1	2	4	5	6	7	9	■
P3S1 5020.06	H3	50	20	6	A3750050206	1	2	4	5	6	7	9	■
P3S1 6010.06	H3	60	10	6	A3750060106	1	2	4	5	6	7	9	■
P3S1 6020.06	H3	60	20	6	A3750060206	1	2	4	5	6	7	9	■

Arbors for Felt Polishing Wheels						Ordering example: A1630780						
						Packing unit: 5 pcs. per type 2 washers and a nut are supplied per arbor.						
Description	d1 mm	l2 mm	d2 mm	l1 mm	n max. (1/min)	Product-Number	recommended for					
ASB 780	M6	20	6	63	7.000	A1630780						■
ASB 781	M6	30	6	73	7.000	A1630781						■



Content

Description	Page
• Technical information	131
• Diamond paste	132
• Diamond sprays	133
• Thinner	133

High Performance marking

Ordering example:

Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Qualities/Application

Type	Quality	Recommended applications
Super-M	oil/alcohol soluble, medium concentration, HP diamond grit	for the occasional use as first and second polishing stages on hard materials
Super-W	oil/alcohol soluble, higher concentration, HP diamond grit	for the more frequent polishing operations on hard materials – from the second polishing stage
Super-F	oil/alcohol soluble, high concentration, HP diamond grit, high percentage of the same mesh size	for regular polishing on hard materials – where a reduction in the polishing cycle time is required – on extremely hard surface coatings – from the second polishing stage

List of grit sizes

Grit Size	Application	Tool material	Cutting speed
30 μ 23 μ 15 μ	Fine polish	Steel, cast iron, bronze, brass, copper, safety glass, laminated wood, plywood	$v = 1-3$ m/s
9 μ	Pre-polish	Cast iron, bronze, brass, copper, safety glass, laminated wood, plywood, hardwood	$v = 1-3$ m/s
6 μ 3 μ 1 μ 0,25 μ	Mirror polish	Soft wood, felt (hard or soft), paper, cotton wool	$v = 5-20$ m/s

Diamond sprays Ordering example: A34104070



Packing unit:
1 pc. per type
Contents: 150 ml = 126 g

Description	Grit μ	Color	Product-Number		
GS-070	0,25	pale grey	A34104070		■
GS-071	1	blue	A34104071		■
GS-072	3	green	A34104072		■
GS-073	6	yellow	A34104073		■
GS-074	9	red	A34104074		■

Thinner Ordering example: A341063003



Packing unit:
1 pc. per type
Contents: 100 ml

Description	Color	Product-Number		
MWF 3003	green	A341063003		■



Content

Description

Page

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• Cutting discs for stainless steel	135
• Cutting discs for non-ferrous metals	136
• Grinding discs for metal	136
• Grinding discs for stainless steel	137
• Grinding discs for cast iron	137

High Performance marking

Packing unit:
1 pc. per type

Ordering example:

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

CWM, Cutting discs for metal (according to ISO 603-16)
Ordering example: A380211501221610P

Packing unit:

 Thickness to 1,5 = 50 pcs. per type,
 Thickness 2,0 and larger = 25 pcs. per type

Further dimensions and qualities on request

Vmax: 80 m/s

Description	Quality	Shape	Ø mm	Thickness mm	Bore mm	n max. (1/min)	Product-Number	recommended for	
CWM 115010	A36 T-BF-T	flat	115	1	22,23	13.300	A380211501221610P	① ③ ⑤	■
CWM 115030	A24 Q-BF	depressed centre	115	3	22,23	13.300	A3803115032202	② ③	■
CWM 125010	A36 T-BF-T	flat	125	1	22,23	12.200	A380212501221610P	① ③ ⑤	■
CWM 125015	A36 T-BF-T	flat	125	1,5	22,23	12.200	A380212501221615P	① ③ ⑤	■
CWM 125030	A24 Q-BF	depressed centre	125	3	22,23	12.200	A3803125032202	② ③	■
CWM 180030	A24 P-BF	flat	180	3	22,23	8.500	A3802180032201	①	■
CWM 230030	A24 P-BF	flat	230	3	22,23	6.600	A3802230032201	①	■

Versatile cut-off disc for metal cutting with high performance and long life.

The super thin Cutting discs (1, 1,2, 1,5 and 2 mm) are especially suitable for the container industry, car body shops and automobile industry.

CWI, Cutting discs for stainless steel (according to ISO 603-16)
Ordering example: A380211501222310P

Packing unit:

 Thickness to 1,5 = 50 pcs. per type,
 Thickness 2,0 and larger = 25 pcs. per type

Further dimensions and qualities on request

Vmax: 80 m/s

* iron- and sulphur-free, as per KWU-Licence

Description	Quality	Shape	Ø mm	Thickness mm	Bore mm	n max. (1/min)	Product-Number	recommended for	
CWI 115010	36 T-BF-TI	flat	115	1	22,23	13.300	A380211501222310P	④	■
CWI 115015	36 T-BF-TI	flat	115	1,5	22,23	13.300	A380211501222315P	④	■
CWI 115030	A24 U-BF	depressed centre	115	3	22,23	13.300	A3803115032216	④	■
CWI 125010	A36 TBF-TI	flat	125	1	22,23	12.200	A380212501222310P	④	■
CWI 125015	A36 TBF-TI	flat	125	1,5	22,23	12.200	A380212501222315P	④	■
CWI 125030	A24 U-BF	depressed centre	125	3	22,23	12.200	A3803125032216	④	■
CWI 180020	A36 Q-BF-TI	flat	180	2	22,23	8.500	A38021800222220	④	■
CWI 230019*	A46 T-BF-TI	flat	230	1,9	22,23	6.600	A380223002222319	④	■
CWI 230020	A36 QBF-TI	flat	230	2,5	22,23	6.600	A38022300222220	④	■

Iron and sulphur free cutting disc for applications in the nuclear industry and for cutting alloy and high-alloy stainless steel.

The super thin Cutting discs (1, 1,5 and 2 mm) are especially suitable for the container industry, car body shops and automobile industry.

CWA, Cutting discs for non-ferrous metals (according to ISO 603-16)

Ordering example: A380212501220115



Packing unit:
50 pcs. per type
Further dimensions and qualities on request
Vmax: 80 m/s

Description	Quality	Shape	Ø mm	Thickness mm	Bore mm	n max. (1/min)	Product-Number	recommended for	
CWA 125015	A 24 P-BF	flat	115	1,5	22,23	12.200	A380212501220115		6

Cutting disc for universal application on aluminium and other non-ferrous metals

DWM, Grinding discs for metal (according to ISO 603-14)

Ordering example: A3806115062207



Packing unit:
to ø 125 mm = 25 pcs. per type,
ø 180 mm and larger = 10 pcs. per type
Further dimensions and qualities on request
Vmax: 80 m/s

Description	Quality	Shape	Ø mm	Thickness mm	Bore mm	n max. (1/min)	Product-Number	recommended for	
DWM 115060	A 30 P8-BF	depressed centre	115	6	22,23	13.300	A3806115062207	2 3	■
DWM 125040	A 30 P8-BF	depressed centre	125	4	22,23	12.200	A380612504220701	2 3	■
DWM 125060	A 30 P8-BF	depressed centre	125	6	22,23	12.200	A380612506220701	2 3	■
DWM 180060	A 24 Q-BF	depressed centre	180	6	22,23	8.500	A3806180062202	1	■
DWM 180080	A 24 Q-BF	depressed centre	180	8	22,23	8.500	A3806180082202	1	■
DWM 230060	A 24 Q-BF	depressed centre	230	6	22,23	6.600	A3806230062202	1	■

Grinding disc for general purpose grinding in metal fabrication.
Versatile specifications and long life.

DWI, Grinding discs for stainless steel (according to ISO 603-14)

Ordering example: A3806115062217



Packing unit:

to ø 125 mm = 25 pcs. per type,
ø 180 mm and larger = 10 pcs. per type
Further dimensions and qualities on request
Vmax: 80 m/s

Description	Quality	Shape	Ø mm	Thickness mm	Bore mm	n max. (1/min)	Product-Number	recommended for	
DWI 115060	A 24 S-BF	depressed centre	115	6	22,23	13.300	A3806115062217		■
DWI 180060	A 24 S-BF	depressed centre	180	6	22,23	8.500	A3806180062218		■

Iron- and sulphur-free grinding discs for applications in the nuclear industry and for grinding alloy and high-alloy stainless steel.

DWG, Grinding discs for cast iron (according to ISO 603-14)

Ordering example: A3806180072224



Packing unit:

10 pcs. per type
Further dimensions and qualities on request
Vmax: 80 m/s

Description	Quality	Shape	Ø mm	Thickness mm	Bore mm	n max. (1/min)	Product-Number	recommended for	
DWG 180070	Z30 R-BF	depressed centre	180	7	22,23	8.500	A3806180072224		■

Grinding disc with universal application for use on cast materials.

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Tungsten Carbide Granulate-tipped Tools



Content

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• HGW-discs	140
• HGW-core drills	140

High Performance marking

Ordering example:

Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Technical Information

HGW is supplied in a wide range of grit sizes – very coarse to extra fine – and in both a dense or open structure. Please select the individual grit sizes from the table below.



Application examples



Coarse grit is used to grind soft materials; the harder the material, the finer the grit.


A special manufacturing process is used to bond the grit to the core.

Special coatings are available, but are dependent upon a wide variety of technical parameters. Please send your enquiry.

Safety regulations

We strongly recommend that use is made of machines with variable speeds in order to optimize cutting speeds; this will lie between 10-50 m/sec. depending on the material to be ground.

Tungsten Carbide Granulate-tipped disc, HGWT							Ordering example: A18031151E						
							Packing unit: 1 pc. per type						
Description	Grit size	Type	Ø mm	Bore mm	n max. (1/min)	Product-Number	recommended for						
HGWT 115	0,3 – 0,5 E	dished	115	22,2	10.500	A18031151E					8	9	■
HGWT 115	0,8 – 1,2 E	dished	115	22,2	10.500	A18031152E					8	9	■
HGWT 115	1,2 – 1,8 E	dished	115	22,2	10.500	A18031153E					8	9	■
HGWT 125	2,5 – 3,0 E	dished	125	22,2	9.600	A18031255E					8	9	■

Core Drill-Set				Ordering example: A18300012E							
							Packing unit: 1 pc. per type				
Description	Grit size	Description	Product-Number		recommended for						
HGWB-SET	0,8 – 1,2 E	4 core drills Ø 33, 53, 63 and 73 mm including base plate, carbide centre point and hexagonal shank (SW9)	A18300012E						8	9	■



Content

Description	Page	Description	Page
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• Cylindrical brush, shaft mounted	143	• Power tool	271
• Cylindrical brush of abrasive nylon	143		
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• End brush, shaft mounted	144		
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• Pipe brush of abrasive nylon	145		
• Cylindrical wheel brush	146		
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High Performance marking

Ordering example:

Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading
Further information on page 4.

General Information

Filament Quality and Style

Quality steel wire

Using quality steel wire with a high tensile strength; this gives long and economical tool life.

Stainless steel wire

This wire is used where residues from normal steel wire would affect surfaces such as stainless steel, aluminium and other non-ferrous metals.

Nylon filaments, abrasive impregnated

Abrasive impregnated nylon filaments are very flexible and follow the contour of the workpiece without being too aggressive; in use, new abrasive is exposed to the workpiece at all times thus resulting in a constant performance and long life.

Style

Brushes are manufactured in both steel wire qualities with crimped 'or twist knotted style. Brushes with twist knotted steel wire meet the most extreme demands and normally achieve longer tool life compared to crimped wire brushes.

Brushes are also manufactured from crimped wire embedded in a resin bond. This style features higher performance and is ideally suited to achieve uniform surfaces and precise edges.

Application

Our wire brushes accommodate most of the ever increasing number of applications, like deburring, descaling, derusting, surface cleaning, fettling, roughening and paint stripping.

Brushes manufactured with abrasive impregnated nylon filaments are ideally suited to remove stain from metal surfaces, for graining of soft wood, car body repair jobs, stripping of paint residues.

Working mode and machines

Technical brushes are flexible tools which follow the contour of the workpiece.

In order to achieve best results, only the tip of the filament should be in contact with the workpiece. The elasticity of the brush depends on the exposed length of the filaments; for wire brushes, the wire diameter is an important factor. Brushes with very long filaments are extremely flexible and must be used with low pressure only. High pressure reduces the life of the brush and creates higher wear.

Technical brushes can be used on stationary and off-hand machines.

Operating speeds

Wire brushes act harder with increasing speed and softer with lower speed:

Machining of steel	approx. 30 m/s
Machining of non-ferrous metals	approx. 18 – 20 m/s
Machining of plastic	approx. 15 m/s

Twist knotted wire brushes may be operated at higher speeds, for instance:

Machining of steel:	approx. 40 m/s.
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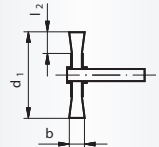
Brushes made from nylon filaments achieve best results at operating speeds between 18 and 20 m/s, depending on the material to be machined.

Safety instructions

Technical brushes are manufactured under strict quality control (according to EN 1083-2). It is recommended to wear safety clothing when working with technical brushes.


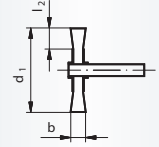
BS, Cylindrical brush, Shank 6 mm

Ordering example: A350104010111

Description		Quality	Type	d ₁ mm	b mm	l ₂ mm	Wire ø	n max. (1/min)	Product-Number	recommended for								
										Packing unit: 10 pcs. per type								
BSSW 04010	steel	crimped	40	10	9	0,2	18.000	A350104010111	1				5			8		■
BSVW 04011	stainless	crimped	40	11	9	0,2	18.000	A351004036		2	3	4			7			■
BSSW 05010	steel	crimped	50	10	12	0,2	15.000	A350005026	1				5			8		■
BSSW 05014	steel	crimped	50	14	12	0,2	15.000	A350105014111	1				5			8		■
BSVW 05014	stainless	crimped	50	14	12	0,2	15.000	A350105014211		2	3	4			7			■
BSSW 06018	steel	crimped	60	16	12	0,2	15.000	A350006036	1				5			8		■
BSSW 06018	steel	crimped	60	16	17	0,3	15.000	A350106018113	1				5			8		■
BSVW 06018	stainless	crimped	60	16	17	0,2	15.000	A351006036		2	3	4			7			■
BSSW 07018	steel	crimped	70	16	19	0,2	15.000	A350007036	1				5			8		■
BSSW 07018	steel	crimped	70	16	19	0,3	15.000	A350107018113	1				5			8		■
BSVW 07018	stainless	crimped	70	16	19	0,3	15.000	A350107018213		2	3	4			7			■
BSVW 07018	stainless	crimped	70	16	19	0,2	15.000	A351007036		2	3	4			7			■
BSSZ 07508	steel	knotted	75	12	15	0,5	25.000	A350107508135	1				5					■
BSVZ 07508	stainless	knotted	75	12	15	0,5	25.000	A350107508235		2	3	4						■

BSN, Cylindrical brush of abrasive nylon, Shank 6 mm

Ordering example: A350105010048

Description		Type	d ₁ mm	b mm	l ₂ mm	n max. (1/min)	Product-Number	recommended for										
										Packing unit: 10 pcs. per type								
BSNG 05010	coarse		50	10	12	15.000	A350105010048		2		4		6	7	8			■
BSNF 05010	fine		50	10	12	15.000	A350105010049		2		4		6	7	8			■
BSNG 07012	coarse		70	12	20	15.000	A350107012048		2		4		6	7	8			■
BSNF 07012	fine		70	12	20	15.000	A350107012049		2		4		6	7	8			■
BSNG 10007	coarse		100	8	22	4.500	A350110007048		2		4		6	7	8			■
BSNF 10007	fine		100	8	22	4.500	A350110007049		2		4		6	7	8			■

BK, Conical brushes

Ordering example: A350610012213

Description		Quality	Type	d ₁ mm	b mm	l ₂ mm	Thread	Wire ø	n max. (1/min)	Product-Number	recommended for										
											Packing unit: 1 pc. per type										
BKVV 10012	stainless	crimped	100	10	20	M 14	0,3	12.500	A350610012213		2	3	4		7						
BKSW 10012	steel	crimped	100	10	20	M 14	0,35	12.500	A350610012114	1					5						
BKVZ 10013	stainless	knotted	100	13	20	M 14	0,5	12.500	A350610013235		2	3	4		7						
BKSZ 10013	steel	knotted	100	13	20	M 14	0,5	12.500	A350610013135	1					5						

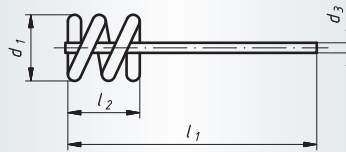
BP, End brush, Shank 6 mm

Ordering example: A350101006

Description		Quality	Type	d ₁ mm	b mm	l ₂ mm	l ₁ mm	Wire ø	n max. (1/min)	Product-Number	recommended for										
											Packing unit: 10 pcs. per type										
BPSW 01020	steel	crimped	10	20	10	60	0,3	20.000	A350101006	1				5			8				
BPVW 01020	stainless	crimped	10	20	10	60	0,3	20.000	A351101006		2	3	4		7						
BPSW 01725	steel	crimped	16	17	22	65	0,3	20.000	A350101506	1				5			8				
BPVW 01725	stainless	crimped	16	17	22	65	0,3	20.000	A351101506		2	3	4		7						
BPSZ 02029	steel	knotted	19	20	28	72	0,35	20.000	A350502029134	1				5							
BPVZ 02029	stainless	knotted	19	20	28	72	0,25	20.000	A350502029232		2	3	4		7						
BPSW 02525	steel	crimped	22	25	25	68	0,3	18.000	A350102206	1				5			8				
BPVW 02525	stainless	crimped	22	25	25	68	0,3	18.000	A351102206		2	3	4		7						
BPSZ 02329	steel	knotted	22	23	28	72	0,35	20.000	A350502329134	1				5							
BPSW 03025	steel	crimped	29	30	25	68	0,3	18.000	A350102806	1				5			8				
BPVW 03025	stainless	crimped	29	30	25	68	0,3	18.000	A351102806		2	3	4		7						

RBSD, pipe brush, crimped wire

Ordering example: A359901025


Packing unit:
10 pcs. per type

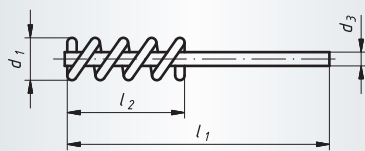
Description	Quality	Type	d ₁	l ₂	d ₃	l ₁	Wire	n max. (1/min)	Product-Number	recommended for	
RBSD 1025	steel	crimped	10	25	3,8	90	0,12	2.000	A359901025	① ② ③ ⑤ ⑧	■ NEW
RBSD 1325	steel	crimped	13	25	3,8	90	0,12	2.000	A359901325	① ② ③ ⑤ ⑧	■ NEW
RBSD 1625	steel	crimped	16	25	3,8	90	0,12	2.000	A359901625	① ② ③ ⑤ ⑧	■ NEW
RBSD 2525	steel	crimped	25	25	3,8	90	0,2	2.000	A359902525	① ② ③ ⑤ ⑧	■ NEW

Ideal for

- | | |
|------------------|---------------------------|
| deburring of | polishing and cleaning of |
| • bores | • injectors/nozzles |
| • threaded bores | • small bores |
| • cross-holes | |
| • O-ring grooves | |

RBSN, pipe brush of abrasive nylon, silicon carbide

Ordering example: A359901065120


Packing unit:
10 pcs. per type

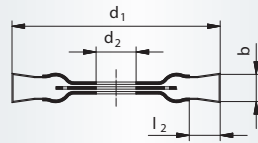
Description	Quality	d ₁	l ₂	d ₃	l ₁	Wire	n max. (1/min)	Product-Number	recommended for	
RBSN 1065	C 120	10	65	3,7	125	0,6	2.000	A359901065120	② ④ ⑥ ⑦ ⑧	■ NEW
RBSN 1365	C 120	13	65	3,7	125	0,6	2.000	A359901365120	② ④ ⑥ ⑦ ⑧	■ NEW
RBSN 1665	C 120	16	65	5,2	125	0,6	2.000	A359901665120	② ④ ⑥ ⑦ ⑧	■ NEW
RBSN 2565	C 120	25	65	5,5	125	0,6	2.000	A359902565120	② ④ ⑥ ⑦ ⑧	■ NEW

Ideal for

- | | |
|------------------|---------------------------|
| deburring of | polishing and cleaning of |
| • bores | • injectors/nozzles |
| • threaded bores | • small bores |
| • cross-holes | |
| • O-ring grooves | |

BR, Wheel brush, twist knotted

Ordering example: A350211512135

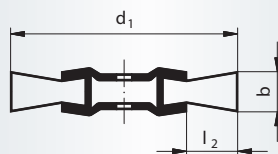


Packing unit:
1 pc. per type

Description	Quality	Type	d ₁ mm	b mm	d ₂ mm	l ₂ mm	Wire ø	n max. (1/min)	Product-Number	recommended for												
BRSZ 11512	steel	knotted	115	14	22,23	20	0,5	12.500	A350211512135	1				5							■	
BRVZ 11512	stainless	knotted	115	14	22,23	20	0,35	12.500	A350211512234		2	3	4						7			■
BRSZ 12514	steel	knotted	125	14	22,23	20	0,5	12.500	A350312514135	1					5							■
BRVZ 12514	stainless	knotted	125	14	22,23	20	0,5	12.500	A350312514235		2	3	4						7			■
BRSZ 17814	steel	knotted	178	14	22,23	32	0,5	9.000	A350317814135	1					5							■

BR, Wheel brush, crimped wire

Ordering example: A350315022114



Packing unit:
1 pc. per type

Description	Quality	Type	d ₁ mm	b mm	R mm	l ₂ mm	Wire ø	n max. (1/min)	Product-Number	recommended for												
BRSW 15022	steel	crimped	150	22	40	33	0,35	6.000	A350315022114	1					5						■	
NEW BRVW 15023	stainless	crimped	150	23	50	33	0,3	6.000	A350315023213	1					5							■
BRSW 20024	steel	crimped	200	24	50	48	0,35	6.000	A350320024114	1					5							■



All brushes are supplied with adapters sets for easy mounting on all popular grinding machines. The adapters have the following dimensions:


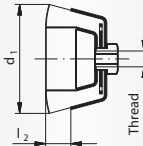
tube "R" 40 mm: 40 / 32 / 1" / 22,23 / 20 / 16 1/2"

tube "R" 50 mm: 50 / 32 / 1" / 22,23 / 20 / 16 1/2"


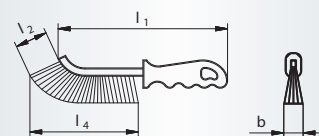
Please take note of the technical advices for the correct and safe assembly.

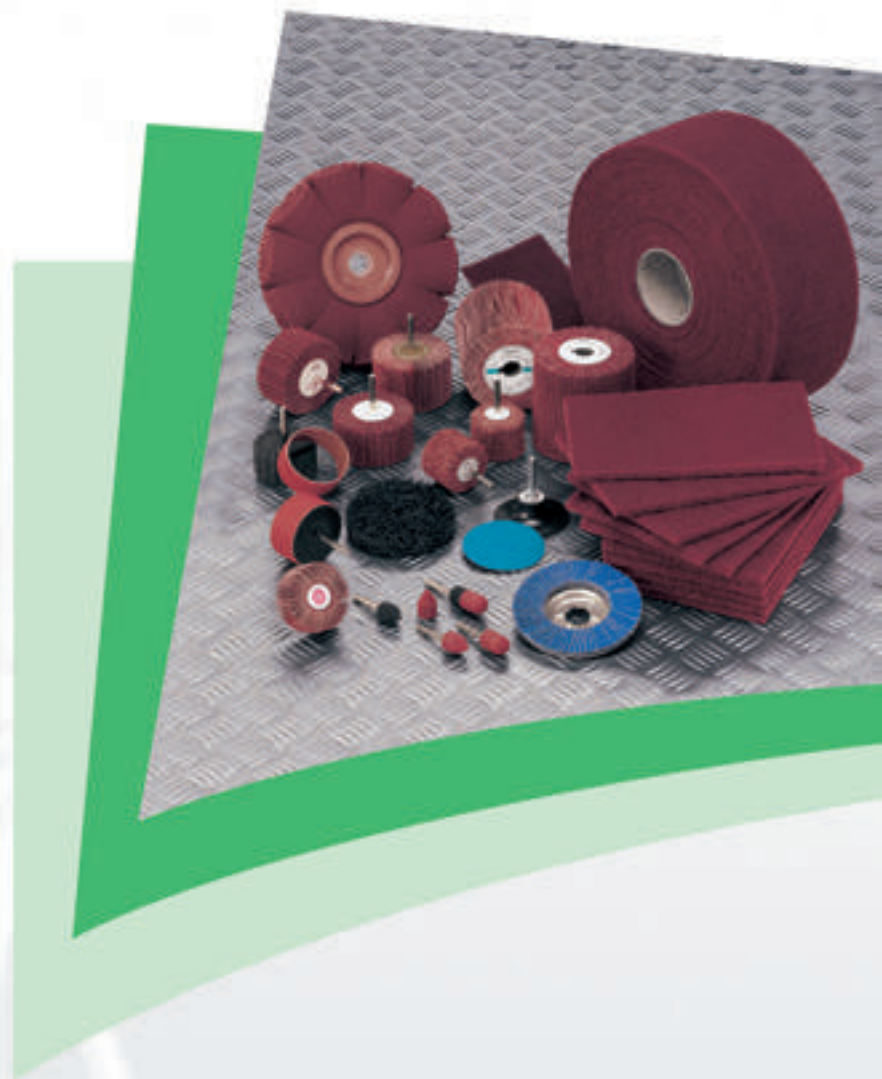
The corresponding information leaflet is included in our packing.

BTG, Cup brush with thread
Ordering example: A350406021213

Description		Quality	Type	d ₁ mm	l ₂ mm	Thread	Wire ø	n max. (1/min)	Product-Number	recommended for							
																	
										Packing unit: 1 pc. per type							
BTWV 06021 G	stainless	crimped	60	20	M 14	0,3	12.000	A350406021213		2	3	4		7			■
BTSW 06020 G	steel	crimped	60	20	M 14	0,35	12.000	A350406020114	1				5				■
BTSZ 06520 G	steel	knotted	65	20	M 14	0,5	12.500	A350406520135	1				5				■
BTVZ 06520 G	stainless	knotted	65	20	M 14	0,35	12.500	A350406520234		2	3	4		7			■
BTSZ 08020 G	steel	knotted	80	20	M 14	0,5	9.000	A350408020135	1				5				■
BTSW 08025 G	steel	crimped	80	25	M 14	0,35	8.500	A350408025114	1				5				■
BTSW 10030 G	steel	crimped	100	30	M 14	0,35	9.000	A350410030114	1				5				■

BHU, Hand brush for universal application
Ordering example: A350726525113

Description		Quality	b mm	l ₂ mm	l ₁ mm	l ₄ mm	Wire ø	Product-Number	recommended for								
																	
										Packing unit: 1 pc. per type							
BHUS 26528	steel	15	28	265	130	0,35	A350726525113	1				5					■
BHUV 26525	stainless	15	28	265	130	0,3	A350726525213		2	3	4		7				■



Content

Description	Page
• General Information	149
• Choise of the optimum grinding tool	149
• Quality and Applications	150

High Performance marking

High Performance

Ordering example: A2720115040118

Packing unit:
10 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Information

General

Our flexible grinding and polishing tools are manufactured from high quality abrasive cloth and abrasive fleece. They consist of a flexible backing coated with abrasive grain (please refer to page 150 and 151)

Backings used: cloth, polyester fibre, fleece, fibre

Grain types used:

aluminium oxide (NK), silicon carbide (SIC), zirconia aluminium oxide (ZK), ceramic (ceramic)

Our flexible grinding and polishing tools are available in several different shapes and dimensions; they cover a wide spectrum of application i.e. from high stock removal to achieving an extremely fine surface finish.

Operating recommendations

An increase in speed makes the abrasive grit act finer; a reduction in speed makes the abrasive grit act coarser.

Do not apply high pressure; performance will not increase and tool life will be reduced.

If stock removal is insufficient select a coarser grit size, do not

increase pressure. The use of grinding additives can improve the efficiency.

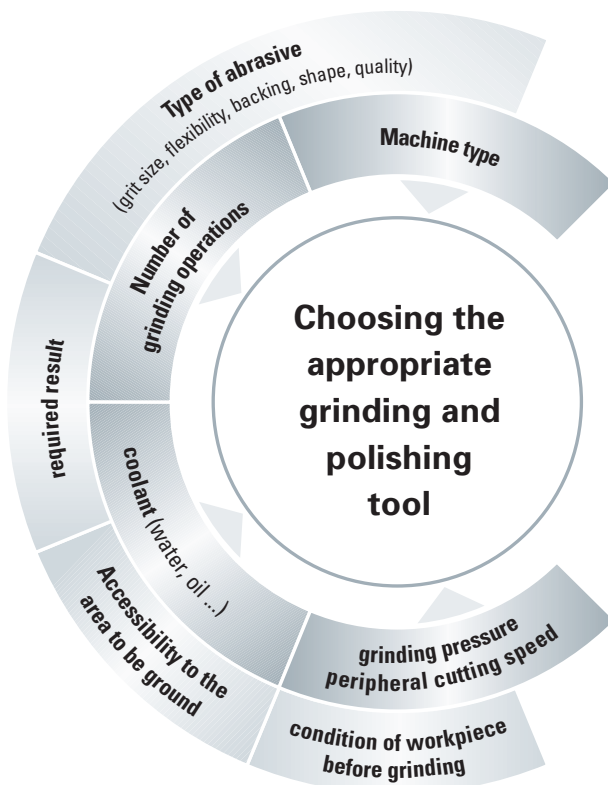
Safety instructions

Please note our recommended operating speeds.








When using and storing flexible grinding and polishing tools, please take note of the safety regulations and regulations for prevention of accidents, including the FEPA-safety recommendations.







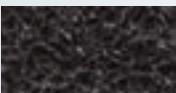
The tools are marked with pictograms according to FEPA recommendations for the use of coated abrasives.

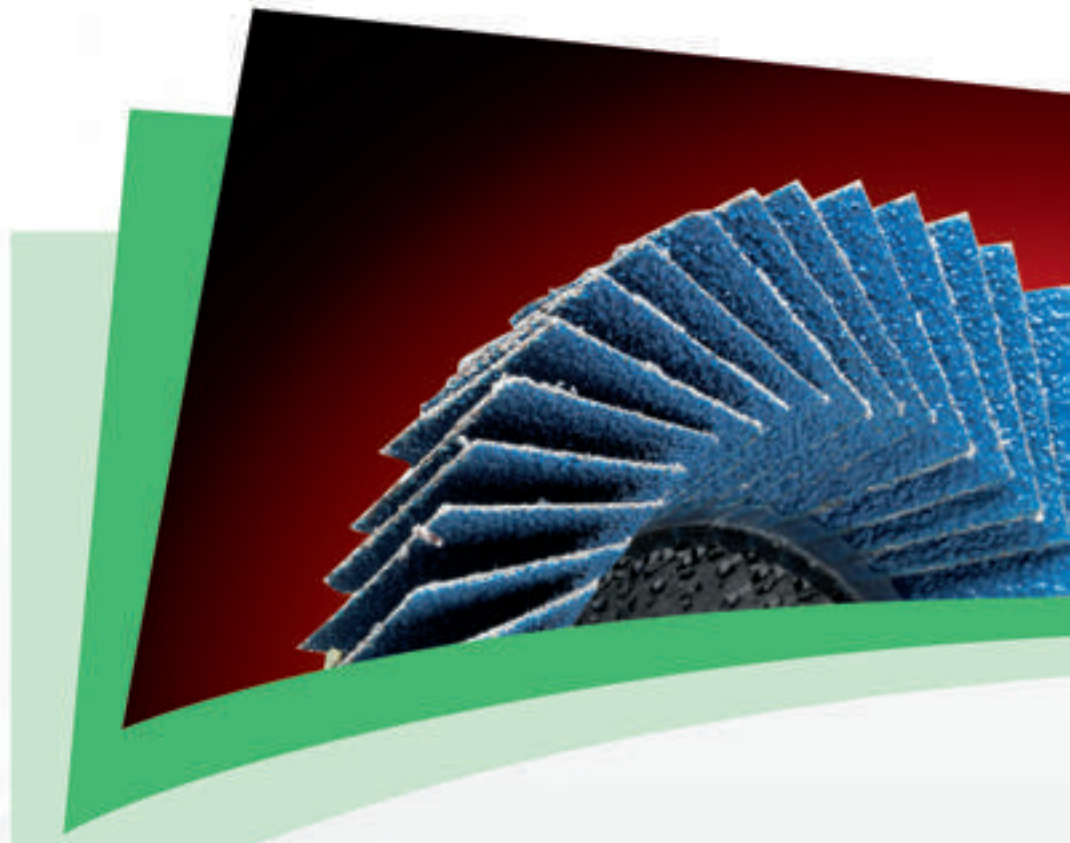
Points to consider when choosing the optimum grinding and polishing tool:



Qualities and Applications

Quality		Characteristics	Applications	Supplied as	Page
 NK	Abrasive cloth with reg. Aluminium Oxide	tough grain	Forged steel, malleable iron, grey cast iron, carbon steel, deep-drawn steels, steel band, zinc die castings, nonferrous metals, wood	flap discs mounted flap wheels flap wheels flap rolls bands abrasive rolls caps discs Economy rolls fibre discs	162, 165 171, 179 191 200 205, 211 217 221–228 234 248 250
 NKE	Abrasive cloth using reg. Aluminium Oxide with special coating containing active grinding additives	tough grain	Chrome-nickel and other alloyed steels, deep drawn steels, titanium and titanium alloyed steels, heat resistant steels	mounted flap wheels discs	177 234
 ZK	Abrasive cloth with Zirconia Alum. Oxide	very tough and resilient grain	Forged steels, metals difficult to machine and with extreme hard surfaces i.e. welds, titanium and titanium alloys, heat resistant steels	flap discs fibre discs bands discs	161–166 240 250 206 234
 Z POWER	Abrasive cloth using Zirconia Alum. Oxide with special coating containing active grinding additives	optimum stock removal rate, excellent tool life	all alloyed steels	bands discs	205 234
 ZKS	Abrasive cloth using Zirconia Alum. Oxide with special coating containing active grinding additives	M-Bonding with polyester fibre excellent stock removal rate with very good tool life	Forged steels, metals difficult to machine and with extreme hard surfaces i.e. welds, titanium and titanium alloys, heat resistant steels	flap discs SLTT V2 Power V3 Control SLT _{flex} SLTZ SLTC	155 157 159 161 164 167
 NKS	Abrasive cloth using reg. Aluminium Oxide with special coating containing active grinding additives	optimum stock removal rate, excellent tool life	corrosion and heat resistant steel	abrasive caps	221–227
 SIC	Abrasive cloth with Silicon carbide	cool cutting; special quality for the aircraft industry	Aluminium and aluminium alloys, brittle material, glass ceramics, titanium and titanium alloys, heat resistant steels, plastics	mounted flap wheels Flap rolls discs	178 192 234

Quality		Characteristics	Applications	Supplied as	Page
 CERAMIC	Abrasive cloth ceramic grain	optimum stock removal rate without shredding of grain. Very stable due to reinforced backing. Cool cutting	stainless steel, nickel alloys	flap discs discs fibre discs	162 234 250
 A	Abrasive fleece with reg. Aluminium Oxide	polishing effect through fibre structure, consistent results due to continuous exposure of new grit particles	Chrome-nickel alloys and other stainless steels, zinc die castings, non-ferrous metals, wood	mounted flap wheels Flap rolls fleece mops Flap rolls fleece pads fleece rolls	184, 187 192–196 197 200 249 249
 C	Abrasive fleece with Silicon carbide	polishing effect through fibre structure, consistent results due to continuous exposure of new grit particles	Titanium and titanium alloys, silver and silverplated, aluminium and aluminium alloys, plastics	mounted flap wheels Flap rolls fleece mops fleece pads	184, 187 192–196 197 249
 TF	Abrasive fleece/cloth reg. Aluminium Oxide reinforced fleece	Abrasive cloth lamellars and abrasive fleece lamellars of our combined mounted flap wheels wear off more equal. Higher stock removal efficiency.	Ideal for surface finishing of metalsheet components such as stainless steel sinks and containers	Mounted flap wheels Flap rolls	187 202
 A	Abrasive fleece/ abrasive cloth combined Al.-Oxide	intensified grinding action through combination of fleece and abrasive cloth	Chrome-nickel alloys and other stainless steels, zinc die castings, non-ferrous metals, wood	flap discs mounted flap wheels Flap rolls	167–168 187 195
 C	Abrasive fleece/ abrasive cloth combined Sil.-Carbide	intensified grinding action through combination of fleece and abrasive cloth	Titanium and titanium alloys, silver and silverplated, aluminium and aluminium alloys, plastics	flap discs mounted flap wheels Flap rolls	167–168 187 195
 AS	Polyamid-Fleece	impregnated with aggressive abrasive grit	removal of paint and adhesives, cement and concrete residues, derusting, restoring and polishing of a wide variety of surfaces.	AS-Tools	254



Content

Description	Page	Description	Page
• Quality and Applications	150	• The NAWAROFLEX® – to improve surface finish	167
• Generell Information	153	• The NAWAROFLEX® – for finishing and polishing	168
• The SLTT our turbo-flap disc – iQ-Series	154	• The SLTP – Polishing disc	168
• The V2 POWER – iQ-Series	156		
• V3 Control – iQ-Series	158		
• The SLTflex, The flexible innovation – iQ-Series	160		
• The SLTR – with Ceramic-grit	162		
• Competitively priced, reinforced fibre backing	162		
• The SLTZ – with special active grinding additives	164		
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• The robust – with steel backing	165		
• The FACT IV – with plastic backing	166		
• The NAWAROFLEX® – for stock removal	167		

High Performance marking

Ordering example: A27201150401118

Packing unit:
10 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Information

General

LUKAS offers a flap disc for almost every application. These abrasive tools are produced with a wide selection of backing materials (e.g. glass fibre, resin, metal and even with a bio-degradable raw material) to suit every application.

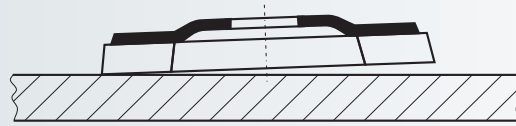
The large choice of grit sizes cover high stock removal applications (from grit size 36) to the finish machining application (grit size 240)

The flap discs are available in 100 mm diameter (with 16 mm bore) and in diameters 115 mm, 125 mm, 150 mm and 178 mm (22.23 mm bore); They fit all commonly used angle grinders.

You can choose between the flat or angled versions depending on application.

Examples of application:

- deburring
- fettling
- derusting
- finishing



The flat shape is designed to grind edges and flat surfaces with a working angle of 0° to 15° degrees.



The angled shape is designed for spot grinding e.g. a weld seam with an ideal working angle of 15° to 25° degrees.



Always the right tool



SLTT – for highest chip removal!

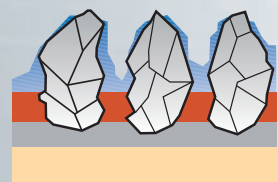
Feel the efficiency compared to grinding wheels or conventional lamellar flap discs.

Ideal for

- removing weld seams
- deburring
- fettling
- fine finishing
- rust removal

SLTT
iQ Series

A patented new design and configuration of flaps (more grains in action)

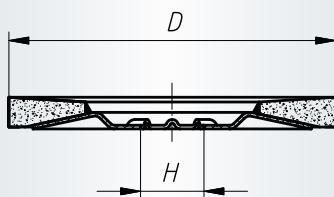
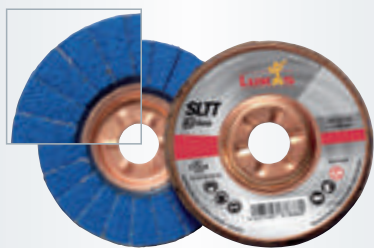


Using a high quality coated abrasive (zirconia with a coating of active grinding additives)

High Performance

The SLTT, our turbo-flap disc European – wide patented

Ordering example: A27201150401118



Packing unit:
10 pcs. per type

Vmax.: 80 m/s

ZKS = Zirconia Alum. Oxide
with special coating containing active
grinding additives



Description	Grits	D mm	H mm	n max (1/min)	Product-Number	recommended for	
SLTT 115	ZKS 40	115	22,23	13.300	A27201150401118	1 2 3 4 5 7	■
SLTT 115	ZKS 60	115	22,23	13.300	A27201150601118	1 2 3 4 5 7	■
SLTT 125	ZKS 40	125	22,23	12.200	A27201250401118	1 2 3 4 5 7	■
SLTT 125	ZKS 60	125	22,23	12.200	A27201250601118	1 2 3 4 5 7	■
SLTT 150	ZKS 40	150	22,23	10.100	A27201500401118	1 2 3 4 5 7	■
SLTT 150	ZKS 60	150	22,23	10.100	A27201500601118	1 2 3 4 5 7	■
SLTT 178	ZKS 40	178	22,23	8.500	A27201780401118	1 2 3 4 5 7	■
SLTT 178	ZKS 60	178	22,23	8.500	A27201780601118	1 2 3 4 5 7	■

NEW

NEW

*Improved grinding performance through
a new configuration of flaps*

wider flaps

- *More than 70 % of the total abrasive material is located on the outer perimeter of the disc*
- *Up to 6 layers of abrasive material*



strong steel backing plate

Characteristics

- exceptional stock-removal capability
- enormous tool life
- strong steel backing plate
- quite
- less vibration



Always the right tool



V2 Power – for general purpose!

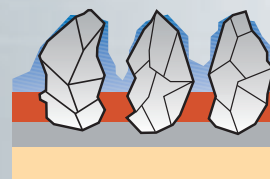
Feel the efficiency compared to conventional lamellar flap discs.

Ideal for

- removing weld seams
- deburring
- fettling
- fine finishing
- rust removal

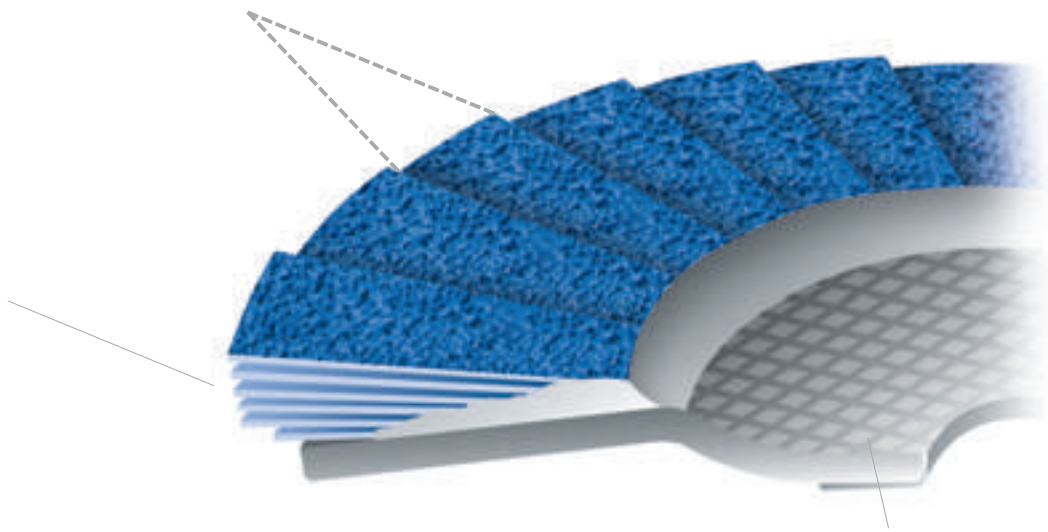
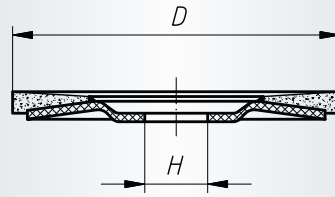
V2 Power
iQ Series

A patented new design and configuration of flaps (more grains in action)



*Using a high quality coated abrasive
(zirconia with a coating of active grinding additives)*

High Performance





Always the right tool



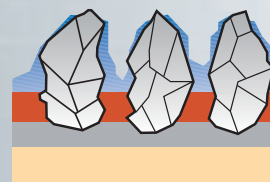
V3 Control – see what we can do!

V3 Control – the latest high performance tool in the iQ-series – allows complete control during application.

Areas of application:

- finishing
- fettling
- weld seam finishing
- rust removal

V3Control
iQ Series



*Using a high quality coated abrasive
(zirconia with a coating of active grinding additives)*



Always the right tool



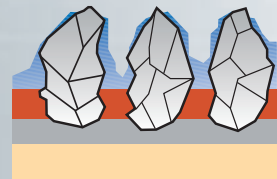
SLTflex – for the awkward areas!

Feel the efficiency compared to conventional lamellar flap discs or fibre discs.

Areas of application:

- removing weld seams
- deburring
- fettling
- fine finishing
- rust removal

SLTflex
iQ Series

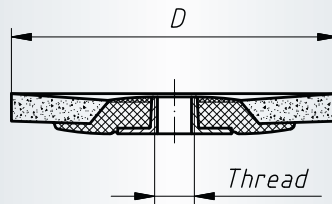
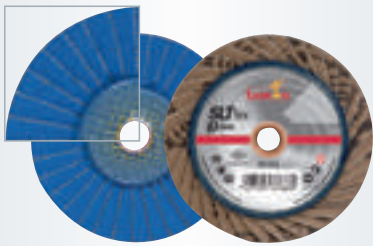


Using a high quality coated abrasive
(zirconia with a coating of active grinding additives)

High Performance

The SLTflex, the flexible innovation European – wide patented

Ordering example: A272711508016



Packing unit:
10 pcs. per type

Vmax.: 80 m/s

ZKS = Zirconia Alum. Oxide
with special coating containing active
grinding additives

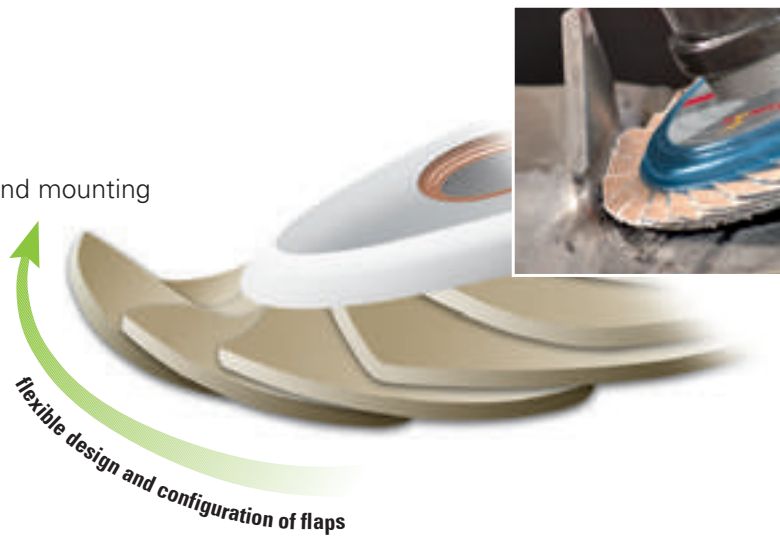
ZK = Zirconia Alum. Oxide



Description	Grits	D mm	Thread	n max (1/min)	Product-Number	recommended for	
SLTflex 115	ZKS 40	115	M14	13.300	A272711504018	1 2 3 4 5 7	■
SLTflex 115	ZKS 60	115	M14	13.300	A272711506018	1 2 3 4 5 7	■
SLTflex 115	ZK 80	115	M14	13.300	A272711508016	1 2 3 4 5 7	■
SLTflex 115	ZK 120	115	M14	13.300	A272711512016	1 2 3 4 5 7	■
SLTflex 125	ZKS 40	125	M14	12.200	A272712504018	1 2 3 4 5 7	■
SLTflex 125	ZKS 60	125	M14	12.200	A272712506018	1 2 3 4 5 7	■
SLTflex 125	ZK 80	125	M14	12.200	A272712508016	1 2 3 4 5 7	■
SLTflex 125	ZK 120	125	M14	12.200	A272712512016	1 2 3 4 5 7	■

Characteristics

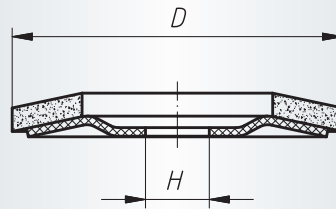
- high flexibility due to elongated flaps (no disturbing backing plate)
- simple tool change (backing plate / pad and mounting nut no longer required)
- extreme tool life



High Performance

The SLTZ, with special active grinding additives

Ordering example: A27261150401418



Packing unit:
 10 pcs. per type
 Vmax.: 80 m/s
 ISO 15635
 ZKS = Zirconia Alum. Oxide
 with special coating containing active
 grinding additives
 SLTZ = dished

Description	Grits	D mm	H mm	n max (1/min)	Product-Number	recommended for	
SLTZ 115	ZKS 40	115	22,23	13.300	A27261150401418	2 3 4 5 7	■
SLTZ 115	ZKS 60	115	22,23	13.300	A27261150601418	2 3 4 5 7	■
SLTZ 115	ZKS 80	115	22,23	13.300	A27261150801418	2 3 4 5 7	■
SLTZ 125	ZKS 40	125	22,23	12.200	A27261250401418	2 3 4 5 7	■
SLTZ 125	ZKS 80	125	22,23	12.200	A27261250801418	2 3 4 5 7	■
SLTZ 125	ZKS 60	125	22,23	12.200	A27261250601418	2 3 4 5 7	■

Properties:

- high quality coated abrasive containing special active grinding additives
- top grinding performance
- outstanding tool life

Applicaton:

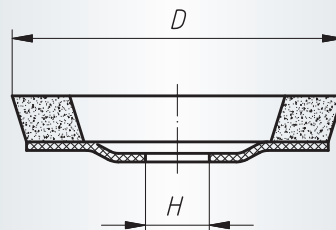
- shipbuilding
- steel construction work
- stainless steel
- and many other applications

Characteristics:

- suitable for most materials
- can be used for deburring, fettling, derusting and finishing

The SLTS, with vertical flaps

Ordering example: A27191150401423



Packing unit:
 10 pcs. per type
 Vmax.: 80 m/s
 ZK = Zirconia Alum. Oxide
 SLTS = flat

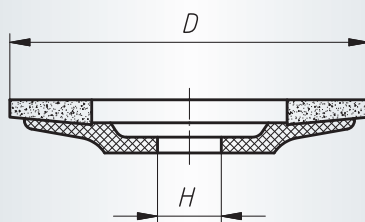
Description	Grits	D mm	H mm	n max. (1/min)	Product-Number	recommended for	
SLTS 115	ZK 40	115	22,23	13.300	A27191150401423	1 2 3 4 5 7	■
SLTS 115	ZK 60	115	22,23	13.300	A27191150601423	1 2 3 4 5 7	■
SLTS 115	ZK 80	115	22,23	13.300	A27191150801423	1 2 3 4 5 7	■
SLTS 125	ZK 40	125	22,23	12.200	A27191250401423	1 2 3 4 5 7	■
SLTS 125	ZK 60	125	22,23	12.200	A27191250601423	1 2 3 4 5 7	■
SLTS 125	ZK 80	125	22,23	12.200	A27191250801423	1 2 3 4 5 7	■

Due to the vertical flap configuration, the SLTS has a universal application particularly where a "soft" grinding action is required to avoid damage to the

workpiece. The SLTS is used on similar applications which require a fibre discs; in addition, it is ideally suited to grind radii or corners.

The FACT IV, with plastic backing

Ordering example: A27111150401606



Packing unit:

10 pcs. per type

Vmax.: 80 m/s

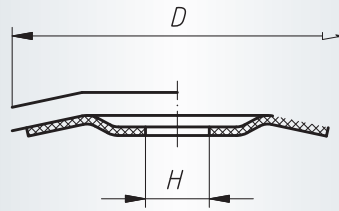
ISO 15635

ZK = Zirconia Alum. Oxide

SLTK = flat

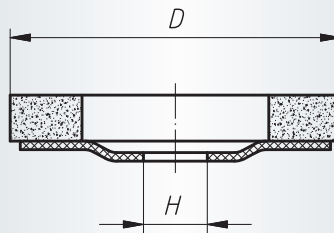
Description	Grits	D mm	H mm	n max (1/min)	Product-Number	recommended for									
SLTK 115	ZK 40	115	22,23	13.300	A27111150401606	1	2	3	4	5	7				■
SLTK 115	ZK 60	115	22,23	13.300	A27111150601606	1	2	3	4	5	7				■
SLTK 115	ZK 80	115	22,23	13.300	A27111150801606	1	2	3	4	5	7				■
SLTK 115	ZK 120	115	22,23	13.300	A27111151201606	1	2	3	4	5	7				■
SLTK 125	ZK 40	125	22,23	12.200	A27111250401606	1	2	3	4	5	7				■
SLTK 125	ZK 60	125	22,23	12.200	A27111250601606	1	2	3	4	5	7				■
SLTK 125	ZK 80	125	22,23	12.200	A27111250801606	1	2	3	4	5	7				■
SLTK 178	ZK 40	178	22,23	8.500	A27111780401606	1	2	3	4	5	7				■
SLTK 178	ZK 60	178	22,23	8.500	A27111780601606	1	2	3	4	5	7				■
SLTK 178	ZK 80	178	22,23	8.500	A27111780801606	1	2	3	4	5	7				■

High Performance



The NAWAROFLEX® – for finishing and polishing

Ordering example: A27221151040130



Packing unit:

10 pcs. per type

Vmax.: 30 m/s

A = Abrasive fleece/abrasive cloth combined Al.-Oxide

C = Abrasive fleece/abrasive cloth combined Sil.-Carbide

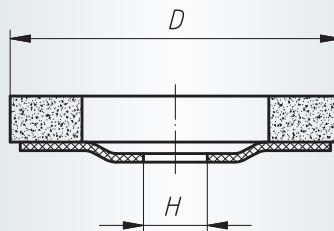
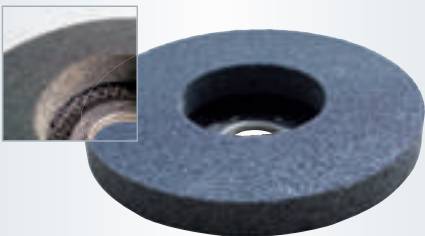
SLTV = flat

Description	Grits	D mm	H mm	n max. (1/min)	Product-Number	recommended for	
SLTV 115	A 104	115	22,23	4.900	A27221151040130	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SLTV 115	A 106	115	22,23	4.900	A27221151060130	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SLTV 115	A 107	115	22,23	4.900	A27221151070130	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SLTV 115	C 206	115	22,23	4.900	A27221152060130	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SLTV 115	C 207	115	22,23	4.900	A27221152070130	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■

Usable without supporting-plate on adjustable and slow-speed angle grinders.

The SLTP, Polishing disc

Ordering example: A271611523



Packing unit:

10 pcs. per type

n_{max.}: 50 m/s

SLTP = dished

Description	Qualität	D mm	H mm	reinforced hartness	n max. (1/min)	Product-Number	recommended for	
SLTP 115 M	SIC fine	115	22,23	medium	8.350	A271611523	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SLTP 115 W	SIC fine	115	22,23	soft	8.350	A271611513	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

Ideal for working on stainless steel, aluminium and other non ferrous metals.

With the SLTP deburring, cleaning and polishing applications could be accomplished.

The fleece fibre construction avoids the clogging of this tool.

The high tool life and the less edge abrasion enhance the efficiency.

Usable without supporting-plate on adjustable and slow-speed angle grinders.



Content

Description	Page	Description	Page
• Qualities and Applications	150	• Mini-Flap wheels of abrasive cloth	181
• General Information	170	• Air tools	271
• Mounted flap wheels of abrasive cloth	171		
• Mounted flap wheels of abrasive cloth, slotted	176		
• Mounted flap wheels of abrasive cloth, recessed	176		
• Mounted flap wheels of abrasive cloth, SFE	177		
• Mounted flap wheels of abrasive cloth, SFC	178		
• Mounted flap wheels with internal thread	179		
• Mounted flap wheels with threaded shank	180		

High Performance marking

High Performance

Ordering example:

Packing unit:
10 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Information

SFL, mounted flap wheels of abrasive cloth

These tools consist of individual flaps radially located around the hub of the tool; they are mainly used in hand-held power tools.

We offer our coated abrasive flap wheels in various qualities i.e. NK, NKE and SIC.

Examples of application:

- finishing
- derusting
- fettling
- deburring
- surface grinding
- decorative finishing
- bevelling

SFB, Mounted flap wheels of abrasive cloth, slotted

By slotting the lamellas on the periphery, the flexibility of this type of mounted flap wheel is increased. The slotted flap wheel quickly profiles itself to the contour of the workpiece.

SFT, Mounted flap wheels of abrasive cloth, recessed

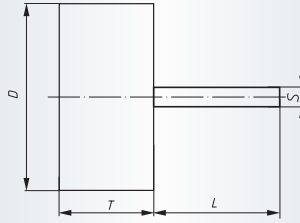
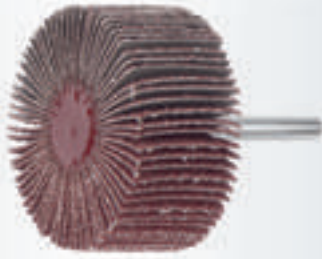
These tools are suitable for face and peripheral grinding.

Adaptor for SFI and SFA

These adaptors extend the shank length and optimise down-time. Tool change is made without removing the adaptor from the machine.

SFL, Flap wheels

Ordering example: A2200020103080



Packing unit:

10 pcs. per type

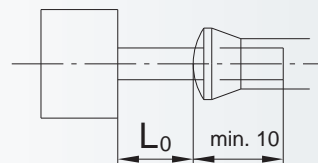
Further dimensions, qualities

and shank lengths on request

NK = reg. Aluminium Oxide

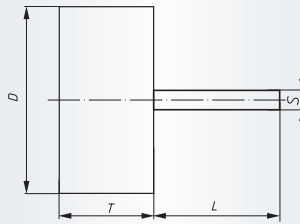
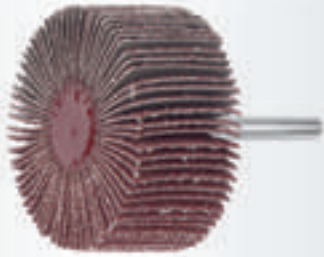
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for		
SFL 01010.03	NK 80	10	10	3	40	26.000	35.000	A2200010103080	1 2 3 4 5 6 7 8	■	NEW
SFL 01010.03	NK 120	10	10	3	40	26.000	35.000	A2200010103120	1 2 3 4 5 6 7 8	■	NEW
SFL 01010.03	NK 150	10	10	3	40	26.000	35.000	A2200010103150	1 2 3 4 5 6 7 8	■	NEW
SFL 01515.03	NK 80	15	15	3	40	24.000	35.000	A2200015153080	1 2 3 4 5 6 7 8	■	NEW
SFL 01515.03	NK 120	15	15	3	40	24.000	35.000	A2200015153120	1 2 3 4 5 6 7 8	■	NEW
SFL 01515.03	NK 150	15	15	3	40	24.000	35.000	A2200015153150	1 2 3 4 5 6 7 8	■	NEW
SFL 02010.03	NK 80	20	10	3	40	20.000	28.000	A2200020103080	1 2 3 4 5 6 7 8	■	
SFL 02010.03	NK 120	20	10	3	40	20.000	28.000	A2200020103120	1 2 3 4 5 6 7 8	■	
SFL 02010.03	NK 150	20	10	3	40	20.000	28.000	A2200020103150	1 2 3 4 5 6 7 8	■	
SFL 02015.06	NK 80	20	15	6	40	20.000	28.000	A2200020156080	1 2 3 4 5 6 7 8	■	
SFL 02015.06	NK 120	20	15	6	40	20.000	28.000	A2200020156120	1 2 3 4 5 6 7 8	■	
SFL 02015.06	NK 150	20	15	6	40	20.000	28.000	A2200020156150	1 2 3 4 5 6 7 8	■	
SFL 02510.03	NK 80	25	10	3	40	16.000	18.000	A2200025103080	1 2 3 4 5 6 7 8	■	
SFL 02510.03	NK 120	25	10	3	40	16.000	18.000	A2200025103120	1 2 3 4 5 6 7 8	■	
SFL 02510.03	NK 150	25	10	3	40	16.000	18.000	A2200025103150	1 2 3 4 5 6 7 8	■	
SFL 02515.06	NK 80	25	15	6	40	16.000	18.000	A2200025156080	1 2 3 4 5 6 7 8	■	
SFL 02515.06	NK 120	25	15	6	40	16.000	18.000	A2200025156120	1 2 3 4 5 6 7 8	■	
SFL 02515.06	NK 150	25	15	6	40	16.000	18.000	A2200025156150	1 2 3 4 5 6 7 8	■	
SFL 03005.03	NK 60	30	5	3	40	16.000	18.000	A2200030053060	1 2 3 4 5 6 7 8	■	
SFL 03005.03	NK 80	30	5	3	40	16.000	18.000	A2200030053080	1 2 3 4 5 6 7 8	■	
SFL 03005.03	NK 120	30	5	3	40	16.000	18.000	A2200030053120	1 2 3 4 5 6 7 8	■	
SFL 03005.03	NK 150	30	5	3	40	16.000	18.000	A2200030053150	1 2 3 4 5 6 7 8	■	
SFL 03005.03	NK 240	30	5	3	40	16.000	18.000	A2200030053240	1 2 3 4 5 6 7 8	■	
SFL 03005.03	NK 320	30	5	3	40	16.000	18.000	A2200030053320	1 2 3 4 5 6 7 8	■	
SFL 03005.06	NK 60	30	5	6	40	16.000	18.000	A2200030056060	1 2 3 4 5 6 7 8	■	
SFL 03005.06	NK 80	30	5	6	40	16.000	18.000	A2200030056080	1 2 3 4 5 6 7 8	■	
SFL 03005.06	NK 120	30	5	6	40	16.000	18.000	A2200030056120	1 2 3 4 5 6 7 8	■	
SFL 03005.06	NK 150	30	5	6	40	16.000	18.000	A2200030056150	1 2 3 4 5 6 7 8	■	
SFL 03005.06	NK 240	30	5	6	40	16.000	18.000	A2200030056240	1 2 3 4 5 6 7 8	■	
SFL 03005.06	NK 320	30	5	6	40	16.000	18.000	A2200030056320	1 2 3 4 5 6 7 8	■	
SFL 03010.03	NK 60	30	10	3	40	16.000	18.000	A2200030103060	1 2 3 4 5 6 7 8	■	
SFL 03010.03	NK 80	30	10	3	40	16.000	18.000	A2200030103080	1 2 3 4 5 6 7 8	■	
SFL 03010.03	NK 120	30	10	3	40	16.000	18.000	A2200030103120	1 2 3 4 5 6 7 8	■	
SFL 03010.03	NK 150	30	10	3	40	16.000	18.000	A2200030103150	1 2 3 4 5 6 7 8	■	

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFL, Flap wheels

Ordering example: A2200030103240



Packing unit:

10 pcs. per type

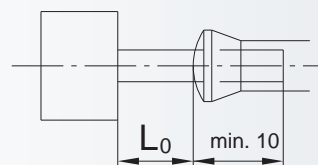
Further dimensions, qualities

and shank lengths on request

NK = reg. Aluminium Oxide

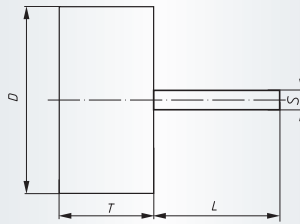
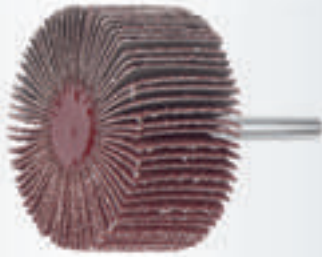
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFL 03010.03	NK 240	30	10	3	40	16.000	18.000	A2200030103240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03010.03	NK 320	30	10	3	40	16.000	18.000	A2200030103320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03010.06	NK 60	30	10	6	40	16.000	18.000	A2200030106060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03010.06	NK 80	30	10	6	40	16.000	18.000	A2200030106080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03010.06	NK 120	30	10	6	40	16.000	18.000	A2200030106120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03010.06	NK 150	30	10	6	40	16.000	18.000	A2200030106150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03010.06	NK 240	30	10	6	40	16.000	18.000	A2200030106240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03010.06	NK 320	30	10	6	40	16.000	18.000	A2200030106320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03015.06	NK 60	30	15	6	40	16.000	18.000	A2200030156060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03015.06	NK 80	30	15	6	40	16.000	18.000	A2200030156080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03015.06	NK 120	30	15	6	40	16.000	18.000	A2200030156120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03015.06	NK 150	30	15	6	40	16.000	18.000	A2200030156150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03020.06	NK 40	30	20	6	40	16.000	18.000	A2200030206040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 03020.06	NK 60	30	20	6	40	16.000	18.000	A2200030206060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04010.03	NK 60	40	10	3	40	12.000	18.000	A2200040103060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04010.03	NK 80	40	10	3	40	12.000	18.000	A2200040103080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04010.03	NK 120	40	10	3	40	12.000	18.000	A2200040103120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04010.03	NK 150	40	10	3	40	12.000	18.000	A2200040103150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04010.06	NK 60	40	10	6	40	12.000	18.000	A2200040106060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04010.06	NK 80	40	10	6	40	12.000	18.000	A2200040106080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04010.06	NK 120	40	10	6	40	12.000	18.000	A2200040106120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04010.06	NK 150	40	10	6	40	12.000	18.000	A2200040106150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04010.06	NK 240	40	10	6	40	12.000	18.000	A2200040106240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04010.06	NK 320	40	10	6	40	12.000	18.000	A2200040106320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04015.06	NK 40	40	15	6	40	12.000	18.000	A2200040156040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04015.06	NK 60	40	15	6	40	12.000	18.000	A2200040156060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04015.06	NK 80	40	15	6	40	12.000	18.000	A2200040156080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04015.06	NK 120	40	15	6	40	12.000	18.000	A2200040156120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04015.06	NK 150	40	15	6	40	12.000	18.000	A2200040156150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04015.06	NK 240	40	15	6	40	12.000	18.000	A2200040156240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04015.06	NK 320	40	15	6	40	12.000	18.000	A2200040156320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04020.06	NK 60	40	20	6	40	12.000	18.000	A2200040206060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04020.06	NK 80	40	20	6	40	12.000	18.000	A2200040206080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 04020.06	NK 120	40	20	6	40	12.000	18.000	A2200040206120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFL, Flap wheels

Ordering example: A2200040206150



Packing unit:

10 pcs. per type

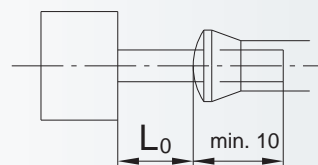
Further dimensions, qualities

and shank lengths on request

NK = reg. Aluminium Oxide

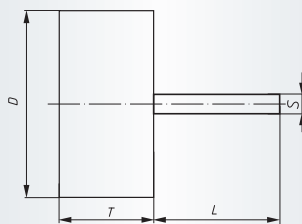
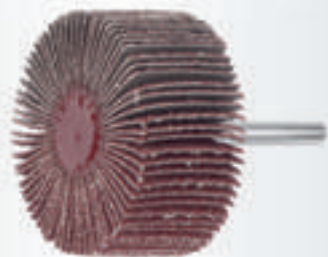
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFL 04020.06	NK 150	40	20	6	40	12.000	18.000	A2200040206150	1 2 3 4 5 6 7 8	■
SFL 04020.06	NK 240	40	20	6	40	12.000	18.000	A2200040206240	1 2 3 4 5 6 7 8	■
SFL 04020.06	NK 320	40	20	6	40	12.000	18.000	A2200040206320	1 2 3 4 5 6 7 8	■
SFL 05010.06	NK 60	50	10	6	40	9.000	12.000	A2200050106060	1 2 3 4 5 6 7 8	■
SFL 05010.06	NK 80	50	10	6	40	9.000	12.000	A2200050106080	1 2 3 4 5 6 7 8	■
SFL 05010.06	NK 120	50	10	6	40	9.000	12.000	A2200050106120	1 2 3 4 5 6 7 8	■
SFL 05010.06	NK 150	50	10	6	40	9.000	12.000	A2200050106150	1 2 3 4 5 6 7 8	■
SFL 05010.06	NK 240	50	10	6	40	9.000	12.000	A2200050106240	1 2 3 4 5 6 7 8	■
SFL 05015.06	NK 40	50	15	6	40	9.000	12.000	A2200050156040	1 2 3 4 5 6 7 8	■
SFL 05015.06	NK 60	50	15	6	40	9.000	12.000	A2200050156060	1 2 3 4 5 6 7 8	■
SFL 05015.06	NK 80	50	15	6	40	9.000	12.000	A2200050156080	1 2 3 4 5 6 7 8	■
SFL 05015.06	NK 120	50	15	6	40	9.000	12.000	A2200050156120	1 2 3 4 5 6 7 8	■
SFL 05015.06	NK 150	50	15	6	40	9.000	12.000	A2200050156150	1 2 3 4 5 6 7 8	■
SFL 05015.06	NK 240	50	15	6	40	9.000	12.000	A2200050156240	1 2 3 4 5 6 7 8	■
SFL 05015.06	NK 320	50	15	6	40	9.000	12.000	A2200050156320	1 2 3 4 5 6 7 8	■
SFL 05020.06	NK 40	50	20	6	40	9.000	12.000	A2200050206040	1 2 3 4 5 6 7 8	■
SFL 05020.06	NK 60	50	20	6	40	9.000	12.000	A2200050206060	1 2 3 4 5 6 7 8	■
SFL 05020.06	NK 80	50	20	6	40	9.000	12.000	A2200050206080	1 2 3 4 5 6 7 8	■
SFL 05020.06	NK 120	50	20	6	40	9.000	12.000	A2200050206120	1 2 3 4 5 6 7 8	■
SFL 05020.06	NK 150	50	20	6	40	9.000	12.000	A2200050206150	1 2 3 4 5 6 7 8	■
SFL 05020.06	NK 240	50	20	6	40	9.000	12.000	A2200050206240	1 2 3 4 5 6 7 8	■
SFL 05020.06	NK 320	50	20	6	40	9.000	12.000	A2200050206320	1 2 3 4 5 6 7 8	■
SFL 05030.06	NK 60	50	20	6	40	9.000	12.000	A2200050306060	1 2 3 4 5 6 7 8	■
SFL 05030.06	NK 80	50	20	6	40	9.000	12.000	A2200050306080	1 2 3 4 5 6 7 8	■
SFL 05030.06	NK 120	50	20	6	40	9.000	12.000	A2200050306120	1 2 3 4 5 6 7 8	■
SFL 05030.06	NK 150	50	20	6	40	9.000	12.000	A2200050306150	1 2 3 4 5 6 7 8	■
SFL 05030.06	NK 320	50	20	6	40	9.000	12.000	A2200050306320	1 2 3 4 5 6 7 8	■
SFL 06015.06	NK 40	60	15	6	40	8.000	12.000	A2200060156040	1 2 3 4 5 6 7 8	■
SFL 06015.06	NK 60	60	15	6	40	8.000	12.000	A2200060156060	1 2 3 4 5 6 7 8	■
SFL 06015.06	NK 80	60	15	6	40	8.000	12.000	A2200060156080	1 2 3 4 5 6 7 8	■
SFL 06015.06	NK 120	60	15	6	40	8.000	12.000	A2200060156120	1 2 3 4 5 6 7 8	■
SFL 06015.06	NK 150	60	15	6	40	8.000	12.000	A2200060156150	1 2 3 4 5 6 7 8	■
SFL 06015.06	NK 240	60	15	6	40	8.000	12.000	A2200060156240	1 2 3 4 5 6 7 8	■
SFL 06015.06	NK 320	60	15	6	40	8.000	12.000	A2200060156320	1 2 3 4 5 6 7 8	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFL, Flap wheels

Ordering example: A2200060206040



Packing unit:

10 pcs. per type

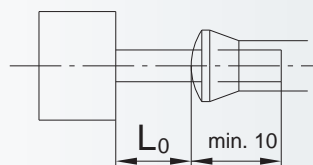
Further dimensions, qualities

and shank lengths on request

NK = reg. Aluminium Oxide

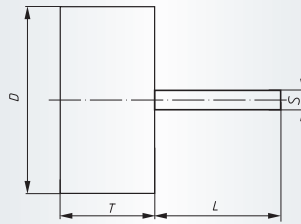
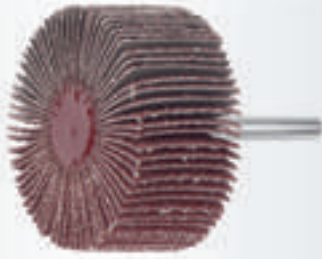
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFL 06020.06	NK 40	60	20	6	40	8.000	12.000	A2200060206040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06020.06	NK 60	60	20	6	40	8.000	12.000	A2200060206060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06020.06	NK 80	60	20	6	40	8.000	12.000	A2200060206080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06020.06	NK 120	60	20	6	40	8.000	12.000	A2200060206120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06020.06	NK 150	60	20	6	40	8.000	12.000	A2200060206150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06020.06	NK 240	60	20	6	40	8.000	12.000	A2200060206240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06020.06	NK 320	60	20	6	40	8.000	12.000	A2200060206320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06030.06	NK 40	60	30	6	40	8.000	12.000	A2200060306040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06030.06	NK 60	60	30	6	40	8.000	12.000	A2200060306060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06030.06	NK 80	60	30	6	40	8.000	12.000	A2200060306080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06030.06	NK 120	60	30	6	40	8.000	12.000	A2200060306120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06030.06	NK 150	60	30	6	40	8.000	12.000	A2200060306150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06030.06	NK 240	60	30	6	40	8.000	12.000	A2200060306240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06030.06	NK 320	60	30	6	40	8.000	12.000	A2200060306320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06040.06	NK 40	60	40	6	40	8.000	12.000	A2200060406040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06040.06	NK 60	60	40	6	40	8.000	12.000	A2200060406060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06040.06	NK 80	60	40	6	40	8.000	12.000	A2200060406080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06040.06	NK 120	60	40	6	40	8.000	12.000	A2200060406120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06040.06	NK 150	60	40	6	40	8.000	12.000	A2200060406150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06040.06	NK 240	60	40	6	40	8.000	12.000	A2200060406240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06040.06	NK 320	60	40	6	40	8.000	12.000	A2200060406320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06050.06	NK 60	60	50	6	40	8.000	8.500	A2200060506060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06050.06	NK 80	60	50	6	40	8.000	8.500	A2200060506080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06050.06	NK 120	60	50	6	40	8.000	8.500	A2200060506120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06050.06	NK 150	60	50	6	40	8.000	8.500	A2200060506150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 06050.06	NK 240	60	50	6	40	8.000	8.500	A2200060506240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 08015.06	NK 60	80	15	6	40	6.000	9.000	A2200080156060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 08015.06	NK 80	80	15	6	40	6.000	9.000	A2200080156080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 08015.06	NK 120	80	15	6	40	6.000	9.000	A2200080156120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 08015.06	NK 150	80	15	6	40	6.000	9.000	A2200080156150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 08015.06	NK 240	80	15	6	40	6.000	9.000	A2200080156240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 08015.06	NK 320	80	15	6	40	6.000	9.000	A2200080156320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 08020.06	NK 60	80	20	6	40	6.000	9.000	A2200080206060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFL 08020.06	NK 80	80	20	6	40	6.000	9.000	A2200080206080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFL, Flap wheels

Ordering example: A2200080206120



Packing unit:

10 pcs. per type

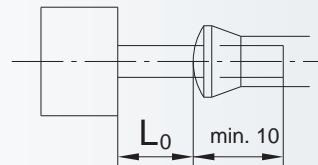
Further dimensions, qualities

and shank lengths on request

NK = reg. Aluminium Oxide

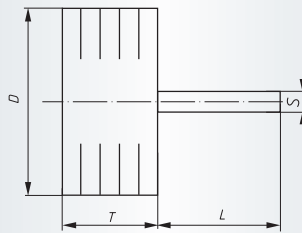
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFL 08020.06	NK 120	80	20	6	40	6.000	9.000	A2200080206120	1 2 3 4 5 6 7 8	■
SFL 08020.06	NK 150	80	20	6	40	6.000	9.000	A2200080206150	1 2 3 4 5 6 7 8	■
SFL 08020.06	NK 240	80	20	6	40	6.000	9.000	A2200080206240	1 2 3 4 5 6 7 8	■
SFL 08020.06	NK 320	80	20	6	40	6.000	9.000	A2200080206320	1 2 3 4 5 6 7 8	■
SFL 08030.06	NK 40	80	30	6	40	6.000	9.000	A2200080306040	1 2 3 4 5 6 7 8	■
SFL 08030.06	NK 60	80	30	6	40	6.000	9.000	A2200080306060	1 2 3 4 5 6 7 8	■
SFL 08030.06	NK 80	80	30	6	40	6.000	9.000	A2200080306080	1 2 3 4 5 6 7 8	■
SFL 08030.06	NK 120	80	30	6	40	6.000	9.000	A2200080306120	1 2 3 4 5 6 7 8	■
SFL 08030.06	NK 150	80	30	6	40	6.000	9.000	A2200080306150	1 2 3 4 5 6 7 8	■
SFL 08030.06	NK 320	80	30	6	40	6.000	9.000	A2200080306320	1 2 3 4 5 6 7 8	■
SFL 08040.06	NK 60	80	40	6	40	6.000	9.000	A2200080406060	1 2 3 4 5 6 7 8	■
SFL 08040.06	NK 80	80	40	6	40	6.000	9.000	A2200080406080	1 2 3 4 5 6 7 8	■
SFL 08040.06	NK 150	80	40	6	40	6.000	9.000	A2200080406150	1 2 3 4 5 6 7 8	■
SFL 08040.06	NK 240	80	40	6	40	6.000	9.000	A2200080406240	1 2 3 4 5 6 7 8	■
SFL 08050.06	NK 40	80	50	6	40	6.000	7.500	A2200080506040	1 2 3 4 5 6 7 8	■
SFL 08050.06	NK 60	80	50	6	40	6.000	7.500	A2200080506060	1 2 3 4 5 6 7 8	■
SFL 08050.06	NK 80	80	50	6	40	6.000	7.500	A2200080506080	1 2 3 4 5 6 7 8	■
SFL 08050.06	NK 120	80	50	6	40	6.000	7.500	A2200080506120	1 2 3 4 5 6 7 8	■
SFL 08050.06	NK 150	80	50	6	40	6.000	7.500	A2200080506150	1 2 3 4 5 6 7 8	■
SFL 08050.06	NK 240	80	50	6	40	6.000	7.500	A2200080506240	1 2 3 4 5 6 7 8	■
SFL 08050.06	NK 320	80	50	6	40	6.000	7.500	A2200080506320	1 2 3 4 5 6 7 8	■
SFL 10040.08	NK 40	100	40	8	40	5.000	7.500	A2200100408040	1 2 3 4 5 6 7 8	■
SFL 10040.08	NK 60	100	40	8	40	5.000	7.500	A2200100408060	1 2 3 4 5 6 7 8	■
SFL 10050.08	NK 60	100	50	8	40	5.000	7.500	A2200100508060	1 2 3 4 5 6 7 8	■
SFL 10050.08	NK 80	100	50	8	40	5.000	7.500	A2200100508080	1 2 3 4 5 6 7 8	■
SFL 10050.08	NK 150	100	50	8	40	5.000	7.500	A2200100508150	1 2 3 4 5 6 7 8	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFB, Slotted flap wheel

Ordering example: A2220040206080



Packing unit:

10 pcs. per type

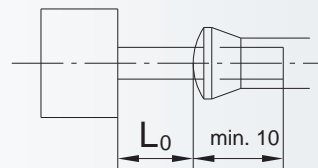
Further dimensions, qualities and shank lengths on request

NK = reg. Aluminium Oxide

Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFB 04020.06	NK 80	40	20	6	40	12.000	18.000	A2220040206080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFB 05020.06	NK 80	50	20	6	40	9.000	12.000	A2220050206080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFB 05030.06	NK 120	50	30	6	40	9.000	12.000	A2220050306120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFB 06030.06	NK 80	60	30	6	40	8.000	12.000	A2220060306080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFB 06030.06	NK 120	60	30	6	40	8.000	12.000	A2220060306120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

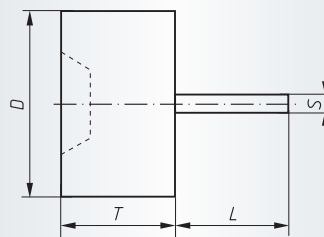
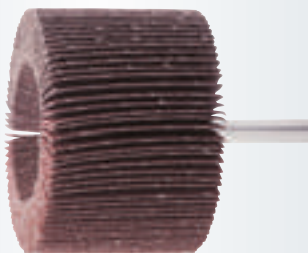
By slotting the lamellas on the periphery, the flexibility of this type of mounted wheel is increased. The slotted flap wheel quickly profiles itself to the contour of the workpiece. For special dimensions and grit sizes minimum quantity on request.

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFT, Flap wheels – recessed

Ordering example: A3100040306060



Packing unit:

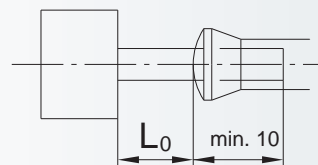
10 pcs. per type

Further dimensions, qualities and shank lengths on request

NK = reg. Aluminium Oxide

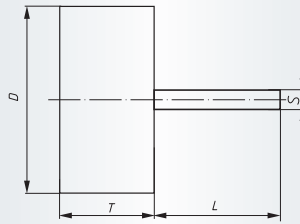
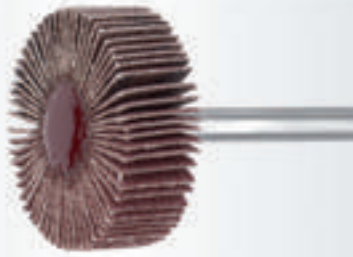
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFT 04030.06	NK 60	40	30	6	40	12.000	18.000	A3100040306060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFT 04030.06	NK 80	40	30	6	40	12.000	18.000	A3100040306080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFT 04030.06	NK 150	40	30	6	40	12.000	18.000	A3100040306150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFT 06040.06	NK 60	60	40	6	40	8.000	8.500	A3100060406060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFT 06040.06	NK 80	60	40	6	40	8.000	8.500	A3100060406080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFT 06040.06	NK 150	60	40	6	40	8.000	8.500	A3100060406150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFE, Flap wheels of abrasive cloth, regular aluminium oxide, special bond

Ordering example: A2201030103120



Packing unit:

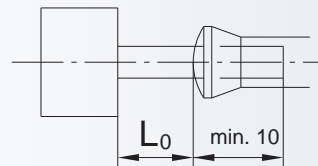
10 pcs. per type

Further dimensions, qualities and shank lengths on request

NKE = reg. Aluminium Oxide with a coating of active grinding additives

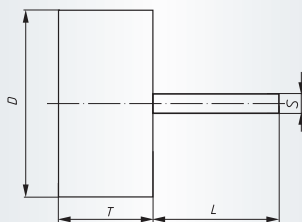
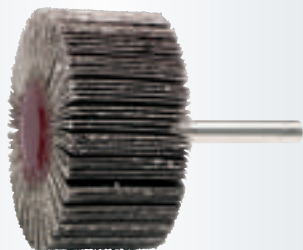
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFE 03010.03	NKE 120	30	10	3	40	16.000	18.000	A2201030103120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 03010.06	NKE 60	30	10	6	40	16.000	18.000	A2201030106060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 03010.06	NKE 80	30	10	6	40	16.000	18.000	A2201030106080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 03010.06	NKE 150	30	10	6	40	16.000	18.000	A2201030106150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 04015.06	NKE 60	40	15	6	40	12.000	18.000	A2201040156060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 04015.06	NKE 80	40	15	6	40	12.000	18.000	A2201040156080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 04015.06	NKE 120	40	15	6	40	12.000	18.000	A2201040156120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 05015.06	NKE 80	50	15	6	40	9.000	12.000	A2201050156080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 05015.06	NKE 150	50	15	6	40	9.000	12.000	A2201050156150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 06020.06	NKE 80	60	20	6	40	8.000	12.000	A2201060206080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 06030.06	NKE 60	60	30	6	40	8.000	12.000	A2201060306060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 06030.06	NKE 80	60	30	6	40	8.000	12.000	A2201060306080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 06030.06	NKE 120	60	30	6	40	8.000	12.000	A2201060306120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 06030.06	NKE 150	60	30	6	40	8.000	12.000	A2201060306150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 06050.06	NKE 60	60	50	6	40	8.000	8.500	A2201060506060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 06050.06	NKE 120	60	50	6	40	8.000	8.500	A2201060506120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 08030.06	NKE 80	80	30	6	40	6.000	9.000	A2201080306080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFE 08050.06	NKE 80	80	50	6	40	6.000	7.500	A2201080506080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFC, Flap wheels of abrasive cloth, silicon carbide

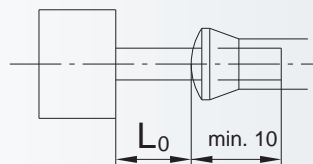
Ordering example: A2202030106080



Packing unit:
10 pcs. per type
Further dimensions, qualities
and shank lengths on request
SIC = silicon carbide

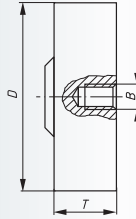
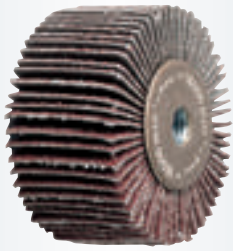
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFC 03010.06	SIC 80	30	10	6	40	16.000	18.000	A2202030106080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFC 03010.06	SIC 150	30	10	6	40	16.000	18.000	A2202030106150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFC 04015.06	SIC 80	40	15	6	40	12.000	18.000	A2202040156080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFC 06020.06	SIC 80	60	20	6	40	8.000	12.000	A2202060206080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFC 06020.06	SIC 120	60	20	6	40	8.000	12.000	A2202060206120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFC 06030.06	SIC 120	60	30	6	40	8.000	12.000	A2202060306120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFI, Mounted flap wheels of abrasive cloth, with internal thread

Ordering example: A2207030050120



Packing unit:

10 pcs. per type

Further dimensions and qualities on request.

NK = reg. Aluminium Oxide

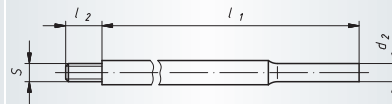
Description	Grits	D mm	T mm	Thread B	n recom. (1/min)	n max. (1/min)	suitable tool adaptor	Product-Number	recommended for	
SFI 03005.M4	NK 120	30	5	M4	16.000	18.000	WADI 0404	A2207030050120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFI 03005.M4	NK 150	30	5	M4	16.000	18.000	WADI 0404	A2207030050150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFI 03010.M4	NK 120	30	10	M4	16.000	18.000	WADI 0407	A2207030100120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFI 03010.M4	NK 150	30	10	M4	16.000	18.000	WADI 0407	A2207030100150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFI 04015.M6	NK 80	40	15	M6	10.000	10.000	WADI 0609	A2207040150080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFI 04015.M6	NK 120	40	15	M6	10.000	10.000	WADI 0609	A2207040150120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFI 05020.M6	NK 80	50	20	M6	7.500	7.500	WADI 0612	A2207050200080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFI 05020.M6	NK 120	50	20	M6	7.500	7.500	WADI 0612	A2207050200120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

The stated maximum permissible operating speed is only valid if the correct tool adaptor is used (see table).



Adaptor for SFI

Ordering example: A36300404



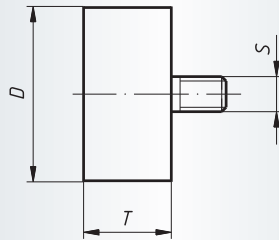
Packing unit:

1 pc. per type

Description	d ₂ mm	l ₁ mm	S mm	l ₂ mm	Product-Number	recommended for	
WADI 0404	6	80	M4	4	A36300404		■
WADI 0407	6	80	M4	7	A36300407		■
WADI 0609	6	100	M6	9	A36300609		■
WADI 0612	6	100	M6	12	A36300612		■

SFA, Flap wheels of abrasive cloth, with external thread

Ordering example: A2200015055150



Packing unit:

10 pcs. per type

Further dimensions and qualities on request.

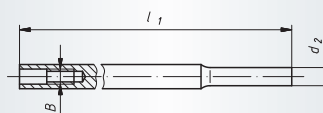
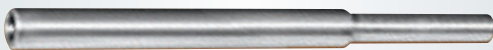
NK = reg. Aluminium Oxide

Description	Grits	D mm	T mm	Thread S	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFA 01505.M5	NK 150	15	5	M5	16.000	18.000	A2200015055150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFA 01505.M5	NK 240	15	5	M5	16.000	18.000	A2200015055240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFA 02005.M5	NK 150	20	5	M5	16.000	18.000	A2200020055150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFA 02005.M5	NK 240	20	5	M5	16.000	18.000	A2200020055240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFA 03005.M5	NK 120	30	5	M5	16.000	18.000	A2200030055120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFA 03005.M5	NK 150	30	5	M5	16.000	18.000	A2200030055150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFA 03005.M5	NK 240	30	5	M5	16.000	18.000	A2200030055240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

The stated maximum permissible operating speed is only valid if the correct tool adaptor is used (see table).

Adaptor for SFA

Ordering example: A36300518

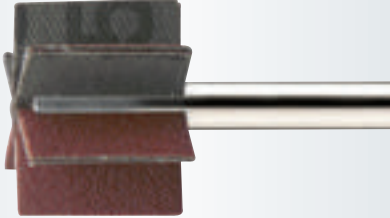


Packing unit:

1 pc. per type

Description	d ₂ mm	l ₁ mm	B mm	Product-Number	recommended for	
WADA 05	6	100	M5	A36300518		■

MFS, Mini-Flap wheels of abrasive cloth



Applications:

- Production and cleaning of moulds for glass-industry
- Inside processing/machining of tubes
- Processing of light alloy rims
- Processing of the borings of turbine blades
- Manifold special applications

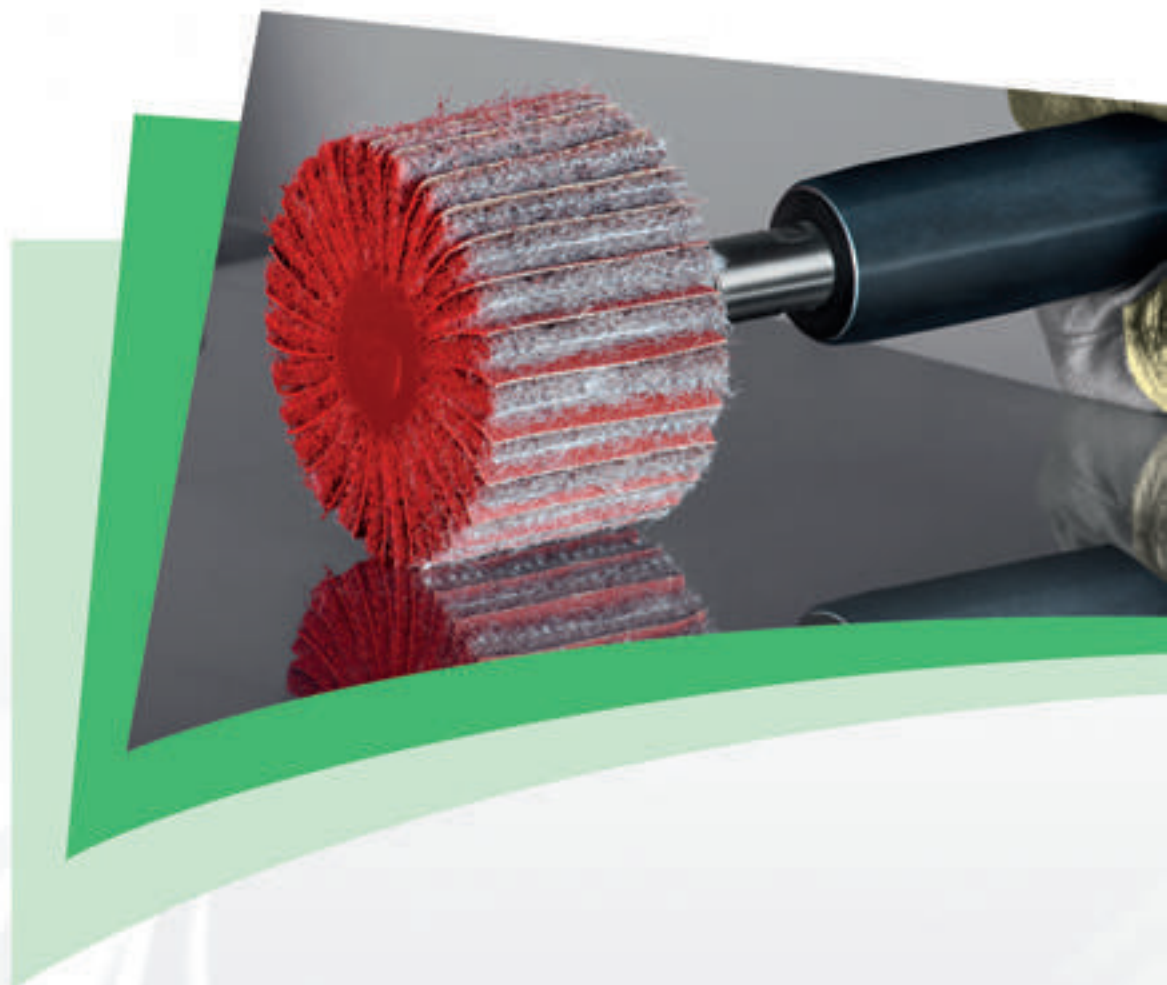
Advantages:

- Possibility of fine-grinding and finishing work
- The arrangement of the lamellars ensure high flexibility
- Good circulation of air and though cold grinding
- Processing of small borings and inner-diameters of tubes

Mini-Flap wheels with a diameter of 10–30 mm are available with different shank lengths and qualities.

available on request

NEW



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• Mounted flap wheels abrasive fleece disc inserts	186
• Mounted flap wheels of abrasive fleece/abrasive cloth combination	187
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High Performance marking

High Performance

Ordering example: A2204040206120

Packing unit:
10 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Information

SFV, Flap wheels of fleece flaps

These tools consist of individual flaps radially located around the hub of the tool; they are available in regular aluminium oxide (A) and Silicon carbide (C). SFV are mainly used in hand-held power tools.

Examples of application:

- matting
- conditioning
- polishing
- finishing
- fine surface finishing

SFR, Mounted fleece discs

These special tools are produced by layering individual flexible round fleece sections. They are therefore ideally suited to the machining of profiles.

SFM, Flap wheels of abrasive fleece with abrasive cloth

These tools consist of individual flaps of fleece and coated abrasive radially located around the hub of the tool; they are available in regular aluminium oxide (A) and silicon carbide (C)

The combination of coated abrasive and abrasive fleece allows for a greater stock removal compared to the SFV product type. SFM are mainly used in hand-held power tools.

Examples of application:

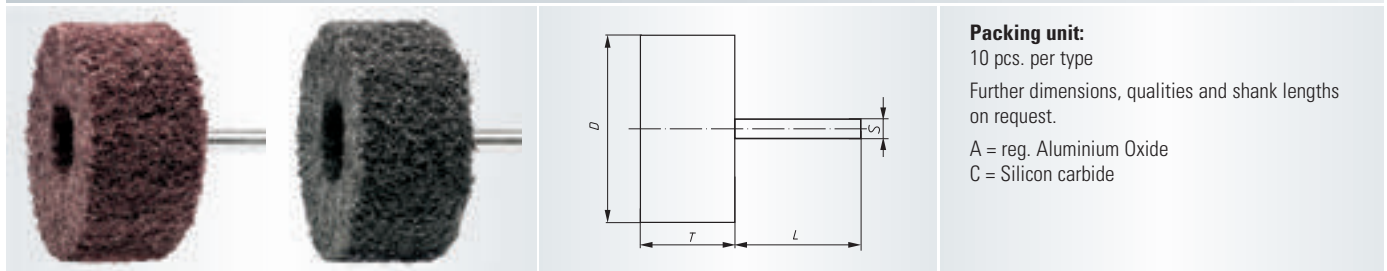
- preparation work
- de-rusting
- pre-finishing
- graining
- keying

SFM, spindle mounted flap wheels with TF-material

These tools are particularly suited to stainless steel applications. The reverse side of the reinforced abrasive fleece guarantees uniform wear of the fleece and the coated abrasive flaps. Please take note of the rotational direction!

SFV, Flap wheels of fleece flaps

Ordering example: A2203040206104



Packing unit:

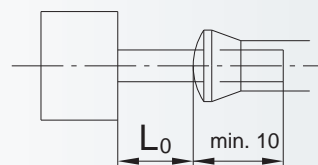
10 pcs. per type

Further dimensions, qualities and shank lengths on request.

A = reg. Aluminium Oxide
C = Silicon carbide

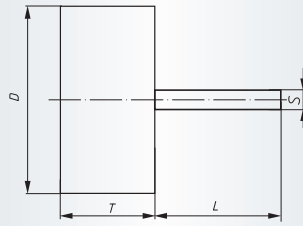
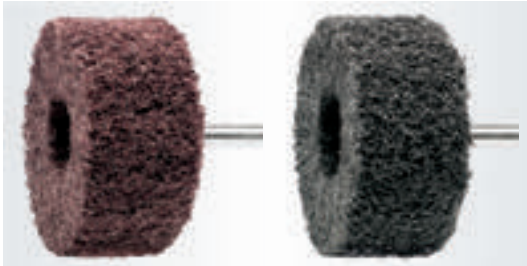
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFV 04020.06	A 104	40	20	6	40	7.500	14.000	A2203040206104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 04020.06	A 106	40	20	6	40	7.500	14.000	A2203040206106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 04020.06	A 107	40	20	6	40	7.500	14.000	A2203040206107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 04020.06	C 207	40	20	6	40	7.500	14.000	A2203040206207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 04020.06	C 206	40	20	6	40	7.500	14.000	A2203040206206	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 04030.06	A 104	40	30	6	40	7.500	14.000	A2203040306104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 04030.06	A 106	40	30	6	40	7.500	14.000	A2203040306106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 04030.06	A 107	40	30	6	40	7.500	14.000	A2203040306107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 04030.06	C 207	40	30	6	40	7.500	14.000	A2203040306207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 05020.06	A 104	50	20	6	40	6.000	11.000	A2203050206104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 05020.06	A 106	50	20	6	40	6.000	11.000	A2203050206106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 05020.06	C 204	50	20	6	40	6.000	11.000	A2203050206204	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 05020.06	C 206	50	20	6	40	6.000	11.000	A2203050206206	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 05020.06	C 207	50	20	6	40	6.000	11.000	A2203050206207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 05030.06	A 104	50	30	6	40	6.000	11.000	A2203050306104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 05030.06	A 106	50	30	6	40	6.000	11.000	A2203050306106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 05030.06	A 107	50	30	6	40	6.000	11.000	A2203050306107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 05030.06	C 207	50	30	6	40	6.000	11.000	A2203050306207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 05040.06	A 104	50	40	6	40	6.000	11.000	A2203050406104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 05040.06	A 106	50	40	6	40	6.000	11.000	A2203050406106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 05040.06	A 107	50	40	6	40	6.000	11.000	A2203050406107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 05040.06	C 207	50	40	6	40	6.000	11.000	A2203050406207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 06030.06	A 104	60	30	6	40	5.000	9.000	A2203060306104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 06030.06	A 106	60	30	6	40	5.000	9.000	A2203060306106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 06030.06	A 107	60	30	6	40	5.000	9.000	A2203060306107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 06030.06	C 204	60	30	6	40	5.000	9.000	A2203060306204	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 06030.06	C 206	60	30	6	40	5.000	9.000	A2203060306206	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 06030.06	C 207	60	30	6	40	5.000	9.000	A2203060306207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 06040.06	A 104	60	40	6	40	5.000	9.000	A2203060406104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 06040.06	A 106	60	40	6	40	5.000	9.000	A2203060406106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 06040.06	A 107	60	40	6	40	5.000	9.000	A2203060406107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 06040.06	C 204	60	40	6	40	5.000	9.000	A2203060406204	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 06040.06	C 207	60	40	6	40	5.000	9.000	A2203060406207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 06050.06	A 104	60	50	6	40	5.000	9.000	A2203060506104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFV, Flap wheels of fleece flaps

Ordering example: A2203060506106



Packing unit:

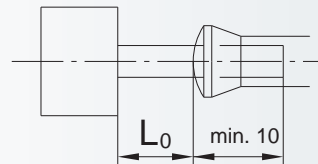
10 pcs. per type

Further dimensions, qualities and shank lengths on request.

A = reg. Aluminium Oxide
C = Silicon carbide

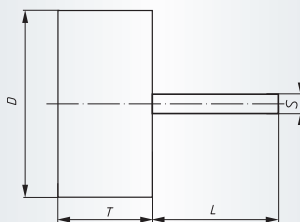
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFV 06050.06	A 106	60	50	6	40	5.000	9.000	A2203060506106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 06050.06	A 107	60	50	6	40	5.000	9.000	A2203060506107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 06050.06	C 207	60	50	6	40	5.000	9.000	A2203060506207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 08040.06	A 104	80	40	6	40	4.000	7.000	A2203080406104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 08040.06	A 106	80	40	6	40	4.000	7.000	A2203080406106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 08040.06	C 204	80	40	6	40	4.000	7.000	A2203080406204	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 08040.06	C 206	80	40	6	40	4.000	7.000	A2203080406206	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 08040.06	C 207	80	40	6	40	4.000	7.000	A2203080406207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 08050.06	A 104	80	50	6	40	4.000	7.000	A2203080506104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 08050.06	A 106	80	50	6	40	4.000	7.000	A2203080506106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 08050.06	A 107	80	50	6	40	4.000	7.000	A2203080506107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFV 08050.06	C 204	80	50	6	40	4.000	7.000	A2203080506204	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 08050.06	C 206	80	50	6	40	4.000	7.000	A2203080506206	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFV 08050.06	C 207	80	50	6	40	4.000	7.000	A2203080506207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFR, Mounted fleece discs

Ordering example: A2223060506104



Packing unit:

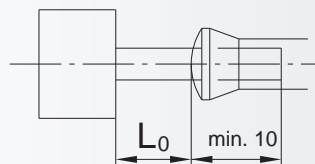
10 pcs. per type

Further dimensions, qualities and shank lengths on request.

A = reg. Aluminium Oxide

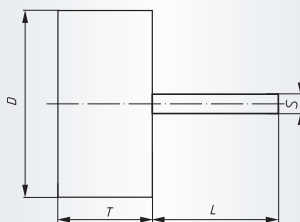
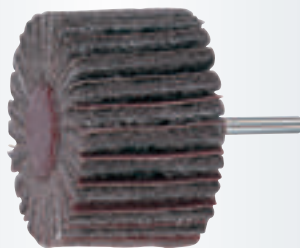
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFR 06050.06	A 104	60	50	6	40	5.000	9.000	A2223060506104	1 2 3 4 5 6 7 8	■
SFR 06050.06	A 106	60	50	6	40	5.000	9.000	A2223060506106	1 2 3 4 5 6 7 8	■
SFR 06050.06	A 107	60	50	6	40	5.000	9.000	A2223060506107	1 2 3 4 5 6 7 8	■
SFR 08050.06	A 104	80	50	6	40	4.000	7.000	A2223080506104	1 2 3 4 5 6 7 8	■
SFR 08050.06	A 106	80	50	6	40	4.000	7.000	A2223080506106	1 2 3 4 5 6 7 8	■
SFR 08050.06	A 107	80	50	6	40	4.000	7.000	A2223080506107	1 2 3 4 5 6 7 8	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



High Performance
SFM, Flap wheels of abrasive fleece TF with abrasive cloth

Ordering example: A2204040206120

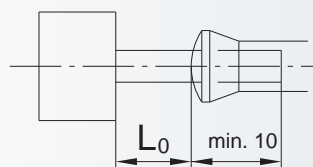


Packing unit:
10 pcs. per type
TF = Special quality for INOX

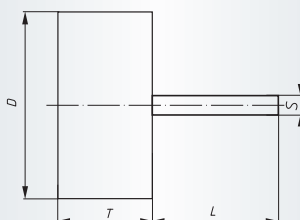
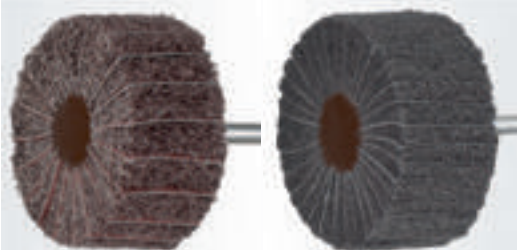
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for		
SFM 04020.06	TF 120/80	40	20	6	40	7.500	14.000	A2204040206120	1 2 3 4 5 6 7 8	■	NEW
SFM 06030.06	TF 120/80	60	30	6	40	5.000	9.000	A2204060306120	1 2 3 4 5 6 7 8	■	NEW
SFM 08050.06	TF 120/80	80	50	6	40	4.000	7.000	A2204080506120	1 2 3 4 5 6 7 8	■	NEW

Ideal for surface finishing of metalsheet components such as stainless steel sinks and containers.

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.


SFM, Flap wheels of abrasive fleece with abrasive cloth

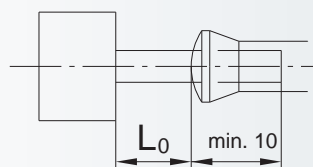
Ordering example: A2204040206104



Packing unit:
10 pcs. per type
Further dimensions, qualities and shank lengths on request.
A = reg. Aluminium Oxide
C = Silicon carbide

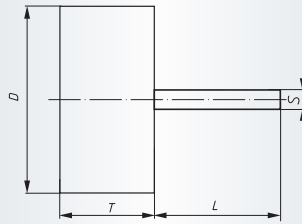
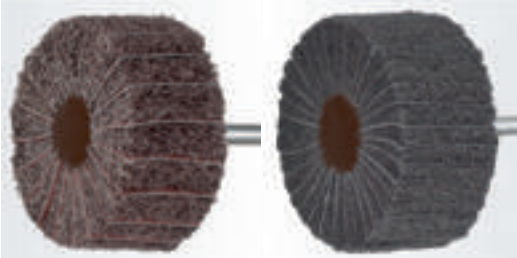
Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for		
SFM 04020.06	A 104/80	40	20	6	40	7.500	14.000	A2204040206104	1 2 3 4 5 6 7 8	■	
SFM 04020.06	A 106/150	40	20	6	40	7.500	14.000	A2204040206106	1 2 3 4 5 6 7 8	■	
SFM 04020.06	A 107/240	40	20	6	40	7.500	14.000	A2204040206107	1 2 3 4 5 6 7 8	■	
SFM 04020.06	C 204/80	40	20	6	40	7.500	14.000	A2204040206204	1 2 3 4 5 6 7 8 9	■	
SFM 04020.06	C 206/150	40	20	6	40	7.500	14.000	A2204040206206	1 2 3 4 5 6 7 8 9	■	
SFM 04030.06	A 104/80	40	30	6	40	7.500	14.000	A2204040306104	1 2 3 4 5 6 7 8	■	
SFM 04030.06	A 106/150	40	30	6	40	7.500	14.000	A2204040306106	1 2 3 4 5 6 7 8	■	
SFM 04030.06	A 107/240	40	30	6	40	7.500	14.000	A2204040306107	1 2 3 4 5 6 7 8	■	
SFM 04030.06	C 204/80	40	30	6	40	7.500	14.000	A2204040306204	1 2 3 4 5 6 7 8 9	■	
SFM 04030.06	C 206/150	40	30	6	40	7.500	14.000	A2204040306206	1 2 3 4 5 6 7 8 9	■	

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SFM, Flap wheels of abrasive fleece with abrasive cloth

Ordering example: A2204040306207



Packing unit:

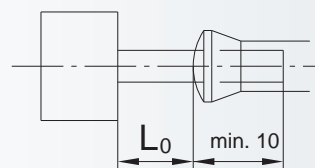
10 pcs. per type

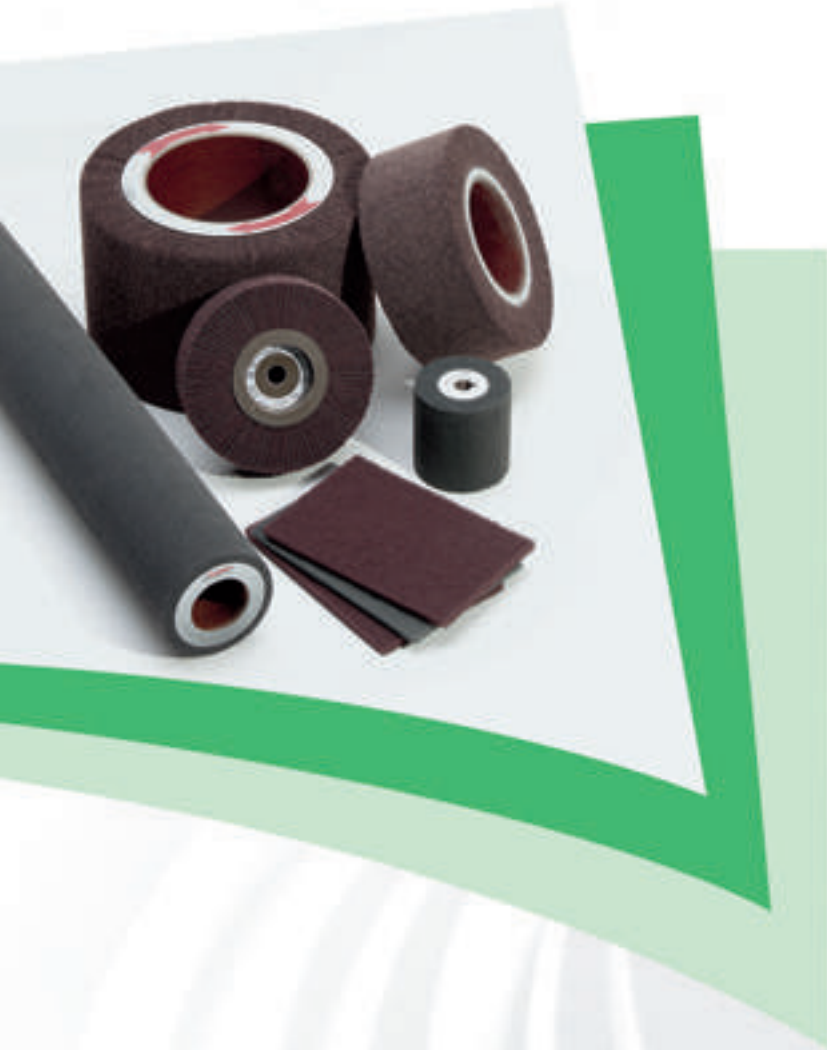
Further dimensions, qualities and shank lengths on request.

A = reg. Aluminium Oxide
C = Silicon carbide

Description	Grits	D mm	T mm	S mm	L mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
SFM 04030.06	C 207/240	40	30	6	40	7.500	14.000	A2204040306207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFM 05020.06	A 104/80	50	20	6	40	6.000	11.000	A2204050206104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 05020.06	A 106/150	50	20	6	40	6.000	11.000	A2204050206106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 05020.06	C 206/150	50	20	6	40	6.000	11.000	A2204050206206	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFM 05030.06	A 106/150	50	30	6	40	6.000	11.000	A2204050306106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 05030.06	A 107/240	50	30	6	40	6.000	11.000	A2204050306107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 05040.06	A 104/80	50	40	6	40	6.000	11.000	A2204050406104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 05040.06	A 106/150	50	40	6	40	6.000	11.000	A2204050406106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 06030.06	A 104/80	60	30	6	40	5.000	9.000	A2204060306104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 06030.06	A 106/150	60	30	6	40	5.000	9.000	A2204060306106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 06030.06	A 107/240	60	30	6	40	5.000	9.000	A2204060306107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 06030.06	C 204/80	60	30	6	40	5.000	9.000	A2204060306204	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFM 06030.06	C 206/150	60	30	6	40	5.000	9.000	A2204060306206	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFM 06030.06	C 207/240	60	30	6	40	5.000	9.000	A2204060306207	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFM 06040.06	A 104/80	60	40	6	40	5.000	9.000	A2204060406104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 06040.06	A 106/150	60	40	6	40	5.000	9.000	A2204060406106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 06040.06	A 107/240	60	40	6	40	5.000	9.000	A2204060406107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 06040.06	C 204/80	60	40	6	40	5.000	9.000	A2204060406204	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFM 06050.06	A 104/80	60	50	6	40	5.000	9.000	A2204060506104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 06050.06	A 106/150	60	50	6	40	5.000	9.000	A2204060506106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 08040.06	A 104/80	80	40	6	40	4.000	7.000	A2204080406104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 08040.06	A 106/150	80	40	6	40	4.000	7.000	A2204080406106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 08040.06	A 107/240	80	40	6	40	4.000	7.000	A2204080406107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 08040.06	C 206/150	80	40	6	40	4.000	7.000	A2204080406206	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFM 08050.06	A 104/80	80	50	6	40	4.000	7.000	A2204080506104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 08050.06	A 106/150	80	50	6	40	4.000	7.000	A2204080506106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 08050.06	A 107/240	80	50	6	40	4.000	7.000	A2204080506107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SFM 08050.06	C 204/80	80	50	6	40	4.000	7.000	A2204080506204	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
SFM 08050.06	C 206/150	80	50	6	40	4.000	7.000	A2204080506206	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.





Content

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High Performance marking

High Performance

Ordering example:

Packing unit:
1 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Information

LSL, Flap Wheels of abrasive cloth (special manufacture)

These wheels with various bore dimensions can be used on both hand-held and floor-stand type machines. The type LSL consists of individual flaps imbedded radially into a very substantial resin-based core.

Please take note of the rotational direction!

Examples of application:

- preparation work
- deburring
- de-rusting
- prefinishing
- graining
- keying

LSL, Flap Wheels of abrasive cloth for angle grinder

Advantages:

- Fits onto standard angle grinders
- Replaces the use of shaft mounted flap wheels (where no straight grinder is available)
- No flange needed
- Ideal for welding seams on Stainless Steel (tanks)

Examples of application:

- de-rusting, removal of surface coatings and oxidise layers
- cleaning of welding seams
- grinding in the tank industry
- grinding in the assembling industry

Application info:

Only to be used on the periphery of the wheel

LSV, Grinding wheels of abrasive fleece (special manufacture)

These wheels with various bore dimensions can be used on both hand-held and floor-stand type machines. The LSV consists of abrasive impregnated fleece flaps. A special type of fleece gives flexibility to the tools which easily conforms to the individual workpiece profile.

Examples of application:

- matting
- conditioning
- polishing
- finishing
- final surface finishing

LSM, Flap wheels of abrasive fleece with abrasive cloth (special manufacture)

These wheels with various bore dimensions can be used on both hand-held and floor-stand type machines.

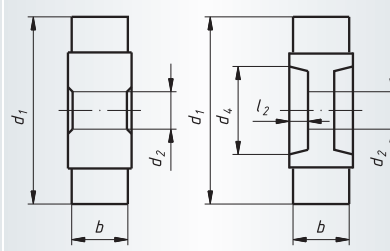
Due to the combination of coated abrasive and abrasive fleece greater stock removal is achieved compared to the product type LSV. Please take note of the rotational direction!

Examples of application:

- preparation work
- de-rusting
- pre-finishing
- graining
- keying

LSL, Flap Wheels of abrasive cloth (special manufacture)

Ordering example: LSL 125025 NK 60 Bore 13



Packing unit:

Minimum ordering quantity 25 pcs. per type

V_{max} : 50 m/s for stationary machines

V_{rec} : 30 m/s off-hand application

* for stationary machines

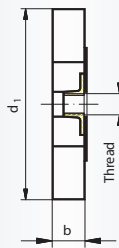
Other dimensions can be supplied on request – from 80 mm to max. 400 mm.

NK = reg. Aluminium Oxide

Description	Grits	d ₁ mm	b mm	Bore d ₂ mm	recess on both sides d ₄ mm	recess on both sides l ₂ mm	n recom. (1/min)	n max. (1/min) *	recommended for	
LSL 125025	NK 60	125	25	13-16-20	---	---	4.500	7.600	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 125025	NK 80	125	25	13-16-20	---	---	4.500	7.600	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 125025	NK 120	125	25	13-16-20	---	---	4.500	7.600	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 125025	NK 150	125	25	13-16-20	---	---	4.500	7.600	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 125025	NK 240	125	25	13-16-20	---	---	4.500	7.600	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 150050	NK 60	150	50	13-16-20	47	18	3.800	6.300	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 150050	NK 80	150	50	13-16-20	47	18	3.800	6.300	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 150050	NK 120	150	50	13-16-20	47	18	3.800	6.300	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 150050	NK 150	150	50	13-16-20	47	18	3.800	6.300	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 150050	NK 240	150	50	13-16-20	47	18	3.800	6.300	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 165050	NK 60	165	50	13-16-20	47	18	3.400	5.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 165050	NK 80	165	50	13-16-20	47	18	3.400	5.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 165050	NK 120	165	50	13-16-20	47	18	3.400	5.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 165050	NK 150	165	50	13-16-20	47	18	3.400	5.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 165050	NK 240	165	50	13-16-20	47	18	3.400	5.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 200025	NK 60	200	25	20-25-32	71	10	2.800	4.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 200025	NK 80	200	25	20-25-32	71	10	2.800	4.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 200025	NK 120	200	25	20-25-32	71	10	2.800	4.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 200025	NK 150	200	25	20-25-32	71	10	2.800	4.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 200025	NK 240	200	25	20-25-32	71	10	2.800	4.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 200050	NK 60	200	50	20-25-32	71	18	2.800	4.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 200050	NK 80	200	50	20-25-32	71	18	2.800	4.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 200050	NK 120	200	50	20-25-32	71	18	2.800	4.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 200050	NK 150	200	50	20-25-32	71	18	2.800	4.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSL 200050	NK 240	200	50	20-25-32	71	18	2.800	4.700	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲

LSL, Flap Wheels of abrasive cloth for angle grinder

Ordering example: A2280125200040



Packing unit:
5 pcs. per type
 V_{max} : 80 m/s
NK = reg. Aluminium Oxide

Description	Grits	d ₁ mm	b mm	Thread	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
LSL 125020	NK 40	125	20	M14	9.600	12.200	A2280125200040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSL 125020	NK 60	125	20	M14	9.600	12.200	A2280125200060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSL 125020	NK 80	125	20	M14	9.600	12.200	A2280125200080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSL 125020	NK 120	125	20	M14	9.600	12.200	A2280125200120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

Advantages:

- Fits onto standard angle grinders
- Replaces the use of shaft mounted flap wheels (where no straight grinder is available)
- No flange needed
- Ideal for welding seams on Stainless Steel (tanks)

Application examples:

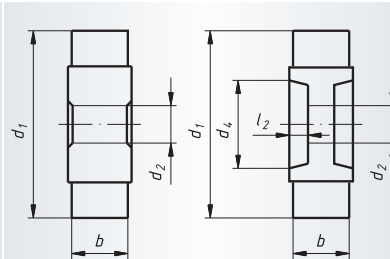
- De-rusting, removal of surface coatings and oxidise layers
- Cleaning of welding seams
- Grinding in the tank industry
- Grinding in the assembling industry

Application info:

Only to be used on the periphery of the wheel

LSV, Grinding wheels of abrasive fleece (special manufacture)

Ordering example: LSV 100050 A 104 W Bore 13

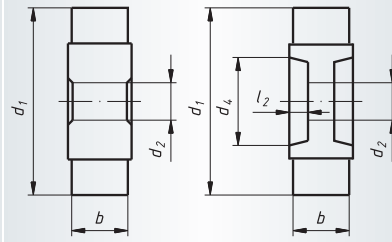


Packing unit:
Minimum ordering quantity 25 pcs. per type
 V_{max} : 35 m/s
Other dimensions, bores or qualities, e.g. "very hard" or "Poly Urethane-foamed" are available on request. Possible diameters 80 mm to max. 400 mm.
A = reg. Aluminium Oxide
C = Silicon carbide

Description	Grits	Quality	d ₁ mm	b mm	Bore d ₂ mm	recess on both sides d ₄ mm	recess on both sides l ₂ mm	n recom. (1/min)	n max. (1/min)	recommended for	
LSV 100050	A 104 W	soft	100	50	13-16-20	---	---	3.000	6.000	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSV 100050	A 106 W	soft	100	50	13-16-20	---	---	3.000	6.000	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSV 100050	A 107 W	soft	100	50	13-16-20	---	---	3.000	6.000	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSV 100050	C 204 W	soft	100	50	13-16-20	---	---	3.000	6.000	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSV 100050	C 206 W	soft	100	50	13-16-20	---	---	3.000	6.000	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSV 100050	C 207 W	soft	100	50	13-16-20	---	---	3.000	6.000	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSV 100050	A 104 M	medium	100	50	13-16-20	---	---	3.000	6.000	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSV 100050	A 106 M	medium	100	50	13-16-20	---	---	3.000	6.000	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSV 100050	A 107 M	medium	100	50	13-16-20	---	---	3.000	6.000	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲
LSV 100050	C 204 M	medium	100	50	13-16-20	---	---	3.000	6.000	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	▲

LSV, Grinding wheels of abrasive fleece (special manufacture)

Ordering example: LSV 100050 C 206 M Bore 13



Packing unit:

Minimum ordering quantity 25 pcs. per type

V_{max} : 35 m/s

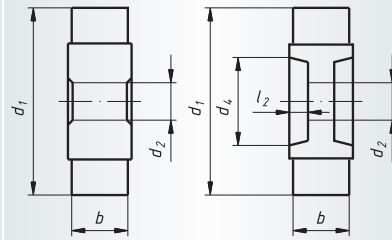
Other dimensions, bores or qualities, e.g. "very hard" or "Poly Urethane-foamed" are available on request. Possible diameters 80 mm to max. 400 mm.

A = reg. Aluminium Oxide
C = Silicon carbide

Description	Grits	Quality	d ₁ mm	b mm	Bore d ₂ mm	recess on both sides d ₄ mm	recess on both sides l ₂ mm	n recom. (1/min)	n max. (1/min)	recommended for	
LSV 100050	C 206 M	medium	100	50	13-16-20	---	---	3.000	6.000	1 2 3 4 5 6 7 8	▲
LSV 100050	C 207 M	medium	100	50	13-16-20	---	---	3.000	6.000	1 2 3 4 5 6 7 8	▲
LSV 100050	A 104 H	hard	100	50	13-16-20	---	---	3.000	6.000	1 2 3 4 5 6 7 8	▲
LSV 100050	A 106 H	hard	100	50	13-16-20	---	---	3.000	6.000	1 2 3 4 5 6 7 8	▲
LSV 100050	A 107 H	hard	100	50	13-16-20	---	---	3.000	6.000	1 2 3 4 5 6 7 8	▲
LSV 100050	C 204 H	hard	100	50	13-16-20	---	---	3.000	6.000	1 2 3 4 5 6 7 8	▲
LSV 100050	C 206 H	hard	100	50	13-16-20	---	---	3.000	6.000	1 2 3 4 5 6 7 8	▲
LSV 100050	C 207 H	hard	100	50	13-16-20	---	---	3.000	6.000	1 2 3 4 5 6 7 8	▲
LSV 150050	A 104 W	soft	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	A 106 W	soft	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	A 107 W	soft	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	C 204 W	soft	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	C 206 W	soft	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	C 207 W	soft	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	A 104 M	medium	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	A 106 M	medium	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	A 107 M	medium	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	C 204 M	medium	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	C 206 M	medium	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	C 207 M	medium	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	A 104 H	hard	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	A 106 H	hard	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	A 107 H	hard	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	C 204 H	hard	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	C 206 H	hard	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 150050	C 207 H	hard	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSV 160050	A 104 W	soft	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	A 106 W	soft	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	A 107 W	soft	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	C 204 W	soft	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	C 206 W	soft	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	C 207 W	soft	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	A 104 M	medium	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	A 106 M	medium	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	A 107 M	medium	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	C 204 M	medium	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	C 206 M	medium	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	C 207 M	medium	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲

LSV, Grinding wheels of abrasive fleece (special manufacture)

Ordering example: LSV 160050 A 104 H Bore 13



Packing unit:

Minimum ordering quantity 25 pcs. per type

V_{max} : 35 m/s

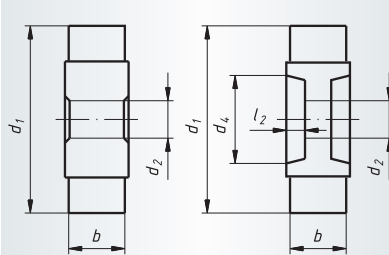
Other dimensions, bores or qualities, e.g. "very hard" or "Poly Urethane-foamed" are available on request. Possible diameters 80 mm to max. 400 mm.

A = reg. Aluminium Oxide
C = Silicon carbide

Description	Grits	Quality	d ₁ mm	b mm	Bore d ₂ mm	recess on both sides d ₄ mm	recess on both sides l ₂ mm	n recom. (1/min)	n max. (1/min)	recommended for	
LSV 160050	A 104 H	hard	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	A 106 H	hard	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	A 107 H	hard	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	C 204 H	hard	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	C 206 H	hard	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 160050	C 207 H	hard	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSV 200025	A 104 W	soft	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	A 106 W	soft	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	A 107 W	soft	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	C 204 W	soft	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	C 206 W	soft	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	C 207 W	soft	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	A 104 M	medium	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	A 106 M	medium	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	A 107 M	medium	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	C 204 M	medium	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	C 206 M	medium	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	C 207 M	medium	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	A 104 H	hard	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	A 106 H	hard	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	A 107 H	hard	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	C 204 H	hard	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	C 206 H	hard	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200025	C 207 H	hard	200	25	20-25-32	71	10	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	A 104 W	soft	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	A 106 W	soft	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	A 107 W	soft	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	C 204 W	soft	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	C 206 W	soft	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	C 207 W	soft	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	A 104 M	medium	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	A 106 M	medium	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	A 107 M	medium	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	C 204 M	medium	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	C 206 M	medium	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	C 207 M	medium	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	A 104 H	hard	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	A 106 H	hard	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲

LSV, Grinding wheels of abrasive fleece (special manufacture)

Ordering example: LSV 200050 A 107 H Bore 20



Packing unit:

Minimum ordering quantity 25 pcs. per type

V_{max}: 35 m/s

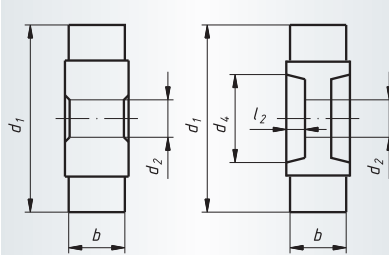
Other dimensions, bores or qualities, e.g. "very hard" or "Poly Urethane-foamed" are available on request. Possible diameters 80 mm to max. 400 mm.

A = reg. Aluminium Oxide
C = Silicon carbide

Description	Grits	Quality	d ₁ mm	b mm	Bore d ₂ mm	recess on both sides d ₄ mm	recess on both sides l ₂ mm	n recom. (1/min)	n max. (1/min)	recommended for	
LSV 200050	A 107 H	hard	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	C 204 H	hard	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	C 206 H	hard	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSV 200050	C 207 H	hard	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲

LSM, Flap wheels of abrasive fleece with abrasive cloth (special manufacture)

Ordering example: LSM 080050 A 104/80 Bore 13



Packing unit:

Minimum ordering quantity 25 pcs. per type

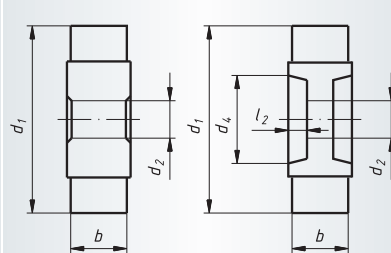
V_{max}: 35 m/s

Other dimensions, bores or qualities are available on request. Possible diameters 80 mm to max. 400 mm.

A = reg. Aluminium Oxide
C = Silicon carbide

Description	Grits	d ₁ mm	b mm	Bore d ₂ mm	recess on both sides d ₄ mm	recess on both sides l ₂ mm	n recom. (1/min)	n max. (1/min)	recommended for	
LSM 080050	A 104/80	80	50	10-13-16	---	---	3.800	7.600	1 2 3 4 5 6 7 8	▲
LSM 080050	A 106/150	80	50	10-13-16	---	---	3.800	7.600	1 2 3 4 5 6 7 8	▲
LSM 080050	A 107/240	80	50	10-13-16	---	---	3.800	7.600	1 2 3 4 5 6 7 8	▲
LSM 080050	C 204/80	80	50	10-13-16	---	---	3.800	7.600	1 2 3 4 5 6 7 8	▲
LSM 080050	C 206/150	80	50	10-13-16	---	---	3.800	7.600	1 2 3 4 5 6 7 8	▲
LSM 080050	C 207/240	80	50	10-13-16	---	---	3.800	7.600	1 2 3 4 5 6 7 8	▲
LSM 150050	A 104/80	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSM 150050	A 106/150	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSM 150050	A 107/240	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSM 150050	C 204/80	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSM 150050	C 206/150	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSM 150050	C 207/240	150	50	13-16-20	47	18	2.000	4.000	1 2 3 4 5 6 7 8	▲
LSM 160050	A 104/80	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSM 160050	A 106/150	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSM 160050	A 107/240	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSM 160050	C 204/80	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSM 160050	C 206/150	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲
LSM 160050	C 207/240	160	50	13-16-20	47	18	1.900	3.800	1 2 3 4 5 6 7 8	▲

LSM, Flap wheels of abrasive fleece with abrasive cloth (special manufacture) Ordering example: LSM 200050 A 104/80 Bore 25



Packing unit:

Minimum ordering quantity 25 pcs. per type

V_{max} : 35 m/s

Other dimensions, bores or qualities are available on request. Possible diameters 80 mm to max. 400 mm.

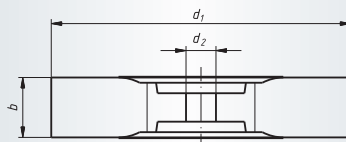
A = reg. Aluminium Oxide

C = Silicon carbide

Description	Grits	d ₁ mm	b mm	Bore d ₂ mm	recess on both sides d ₄ mm	recess on both sides l ₂ mm	n recom. (1/min)	n max. (1/min)	recommended for	
LSM 200050	A 104/80	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSM 200050	A 106/150	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSM 200050	A 107/240	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSM 200050	C 204/80	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSM 200050	C 206/150	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲
LSM 200050	C 207/240	200	50	20-25-32	71	18	1.500	3.000	1 2 3 4 5 6 7 8	▲

FRV, Mops of abrasive fleece

Ordering example: FRV 20005 A 104 Bore 20



Packing unit:

Minimum ordering quantity 25 pcs. per type
A = reg. Aluminium Oxide

Description	Grits	Quality	d ₁ mm	b mm	d ₂ mm	n recom. (1/min)	n max. (1/min)	recommended for	
FRV 20050	A 104	medium	200	50	20-25-32	1.400	1.900	1 2 3 4 5 6 7 8	▲
FRV 20050	A 106	fine	200	50	20-25-32	1.400	1.900	1 2 3 4 5 6 7 8	▲
FRV 20050	A 107	very fine	200	50	20-25-32	1.400	1.900	1 2 3 4 5 6 7 8	▲
FRV 25050	A 104	medium	250	50	20-25-32	1.100	1.500	1 2 3 4 5 6 7 8	▲
FRV 25050	A 106	fine	250	50	20-25-32	1.100	1.500	1 2 3 4 5 6 7 8	▲
FRV 25050	A 107	very fine	250	50	20-25-32	1.100	1.500	1 2 3 4 5 6 7 8	▲
FRV 30060	A 104	medium	300	60	20-25-32	900	1.200	1 2 3 4 5 6 7 8	▲
FRV 30060	A 106	fine	300	60	20-25-32	900	1.200	1 2 3 4 5 6 7 8	▲
FRV 30060	A 107	very fine	300	60	20-25-32	900	1.200	1 2 3 4 5 6 7 8	▲

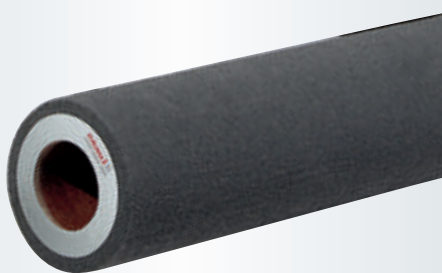
LUKAS Fleece Mops are manufactured from abrasive fleece and are used when a satin polish is required on stainless, chrome, nickel and non ferrous metals. They are also ideal for cleaning-up and enhancing painted and varnished surfaces in the wood and plastic industries. Furthermore, they are suited to the manufacture of stainless and aluminium containers supplied to the food industry.

The ideal operating speed lies between 10 – 20 m/s and the fleece mops should

be used with little pressure. They can be used with or without coolant. Operating with coolant extends the life of the fleece mop.

When using water as a coolant a matt surface is achieved; oil produces a satin finish. LUKAS Fleece Mops can be clamped together on a single spindle thus giving the overall width required.

LSW, Rolls manufactured of abrasive fleece

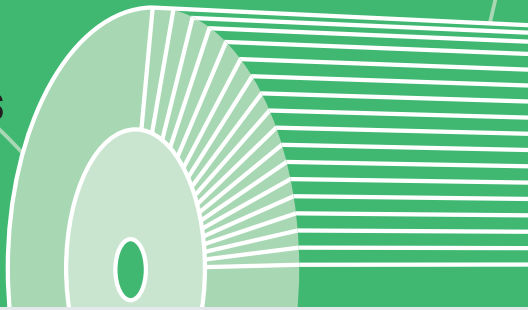


Rolls with a diameter of 100 to 400 mm and a width of 100 to 1.000 mm are available with various bores and qualities of abrasive fleece.

available on request

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Flap rolls



Content

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• Flap rolls of abrasive fleece	200
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• Conditioning machine	202

High Performance marking

Ordering example: A22881001000120

Packing unit:
1 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Information

General

These rolls have a nineteen mm bore with four keyways; they are used on hand-held surface conditioning machines.

LSL, Flap rolls of abrasive cloth for conditioning machines

These tools consist of individual flaps which are radially embedded into a resin core.

Please take note of the rotational direction!

Examples of application:

- preparation work
- deburring
- de-rusting
- pre-finishing
- graining
- keying

LSV, Flap rolls of abrasive fleece for conditioning machines

This product type consists of abrasive fleece flaps; the special fleece gives the tool flexibility and conforms to the individual workpiece profile.

Examples of application:

- matting
- conditioning
- polishing
- finishing
- final finishing of the surface

LSF, Sinus-Abrasive rolls of abrasive fleece for conditioning machines

These tools are manufactured from strips of abrasive fleece which are wound in a wave pattern around the core; this configuration achieves an unblemished grained matt surface finish.

The special fleece makes the LSF flexible and conforms to the individual workpiece profile.

Examples of application:

- matting
- conditioning
- polishing
- finishing
- fine surface finishing

LSM, Flap rolls of abrasive fleece with abrasive cloth insert for conditioning machines

Due to the combination of coated abrasive and abrasive fleece, greater stock removal is achieved compared to the product type LSV.

Please take note of the rotational direction!

Examples of application:

- preparation work
- de-rusting
- pre-finishing
- graining
- keying

LSM, Flap rolls of abrasive fleece TF with abrasive cloth insert for conditioning machines

These wheels with various bore dimensions are particularly suited to stainless steel applications.

The reverse side of the reinforced abrasive fleece guarantees uniform wear of the fleece and the coated abrasive flaps.

Please take note of the rotational direction!

LSL, Flap rolls of abrasive cloth for conditioning machines

Ordering example: A2280100500040

				<p>Packing unit: LSL 100050 = 2 pcs. per type LSL 100100 = 1 pc. per type NK = reg. Aluminium Oxide</p>					
Description	Grits	d ₁ mm	b mm	d ₂ mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
LSL 100050	NK 40	100	50	19	3.700	6.000	A2280100500040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSL 100050	NK 60	100	50	19	3.700	6.000	A2280100500060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSL 100050	NK 80	100	50	19	3.700	6.000	A2280100500080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSL 100100	NK 40	100	100	19	3.700	6.000	A22801001000040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSL 100100	NK 60	100	100	19	3.700	6.000	A22801001000060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSL 100100	NK 80	100	100	19	3.700	6.000	A22801001000080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

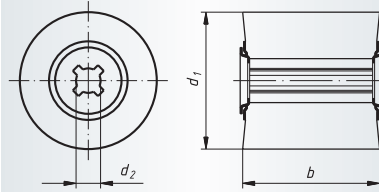
LSV, Flap rolls of abrasive fleece for conditioning machines

Ordering example: A2286100500104

				<p>Packing unit: LSV 100050 = 2 pcs. per type LSV 100100 = 1 pc. per type A = reg. Aluminium Oxide</p>					
Description	Grits	d ₁ mm	b mm	d ₂ mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
LSV 100050	A 104	100	50	19	2.800	6.000	A2286100500104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSV 100050	A 106	100	50	19	2.800	6.000	A2286100500106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSV 100050	A 107	100	50	19	2.800	6.000	A2286100500107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSV 100100	A 104	100	100	19	2.800	6.000	A22861001000104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSV 100100	A 106	100	100	19	2.800	6.000	A22861001000106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSV 100100	A 107	100	100	19	2.800	6.000	A22861001000107	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

LSF, Sinus-Abrasive rolls of abrasive fleece for conditioning machines

Ordering example: A2281100500104



Packing unit:

LSF 100050 = 2 pcs. per type

LSF 100100 = 1 pc. per type

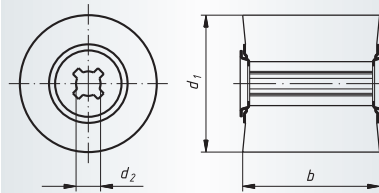
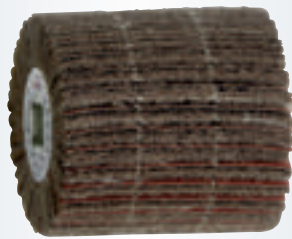
A = reg. Aluminium Oxide

C = Silicon carbide

Description	Grits	d ₁ mm	b mm	d ₂ mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
LSF 100050	A 104	100	50	19	2.800	3.800	A2281100500104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSF 100050	A 106	100	50	19	2.800	3.800	A2281100500106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSF 100050	C 208	100	50	19	2.800	3.800	A2281100500208	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
LSF 100100	A 104	100	100	19	2.800	3.800	A22811001000104	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSF 100100	A 106	100	100	19	2.800	3.800	A22811001000106	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
LSF 100100	C 208	100	100	19	2.800	3.800	A22811001000208	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■

High Performance

LSM, Flap rolls of abrasive fleece TF with abrasive cloth insert for conditioning machines *Ordering example: A22881001000120*



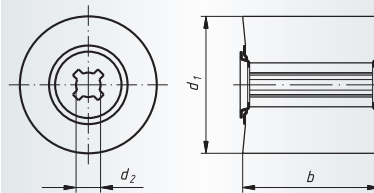
Packing unit:
1 pc. per type
TF = Special quality for INOX

Description	Grits	d ₁ mm	b mm	d ₂ mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for
NEW LSM 100100	TF 120/80	100	100	19	2.800	6.000	A22881001000120	1 2 3 4 5 6 7 8

Ideal for surface finishing of metalsheet components such as stainless steel sinks and containers



LSM, Flap rolls of abrasive fleece with abrasive cloth insert for conditioning machines *Ordering example: A2288100500104*



Packing unit:
LSM 100050 = 2 pcs. per type
LSM 100100 = 1 pc. per type
A = reg. Aluminium Oxide

Description	Grits	d ₁ mm	b mm	d ₂ mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for
LSM 100050	A 104/80	100	50	19	2.800	6.000	A2288100500104	1 2 3 4 5 6 7 8
LSM 100050	A 106/150	100	50	19	2.800	6.000	A2288100500106	1 2 3 4 5 6 7 8
LSM 100050	A 107/240	100	50	19	2.800	6.000	A2288100500107	1 2 3 4 5 6 7 8
LSM 100100	A 104/80	100	100	19	2.800	6.000	A22881001000104	1 2 3 4 5 6 7 8
LSM 100100	A 106/150	100	100	19	2.800	6.000	A22881001000106	1 2 3 4 5 6 7 8
LSM 100100	A 107/240	100	100	19	2.800	6.000	A22881001000107	1 2 3 4 5 6 7 8



Conditioning machine

Ordering example: A39956037037



Packing unit:
1 pc. per type
Weight: approx. 2,9 kg

Description	Idle speed min ⁻¹	Power input W	Power output W	Max. tool diameter Ø mm	Tool width mm	Hole size mm	Product-Number
LP 1503 VR	1.200–3.700	1.200	700	115	100	19	A39956037037



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High Performance marking

Ordering example: A241203030036

Packing unit:
50 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Information

Abrasive Bands, cylindrical

LUKAS offers a wide selection of abrasive bands and the corresponding mandrel to suit.

They are available in numerous dimensions and qualities.

Abrasive bands are manufactured from coated abrasive material which is spirally wound onto a cloth backing. They are mounted onto the appropriate mandrel and used on hand-held machines (straight grinders or with flexible shafts)

Examples of application:

- preparation work
- light deburring
- polishing
- surface and profile grinding
- fettling

Mandrels for cylindrical shape

Our mandrels serve exclusively as the means of mounting the cylindrical abrasive bands. Due to the special slots in the mandrel, the abrasive band is firmly secured to the mandrel by the increasing spindle speed.

Abrasive Bands, conical

Conical shaped abrasive bands are in principle identical to the cylindrical type with regards to the construction and application. The large taper allows the grinding of difficult-to-access areas of the workpiece.

Mandrels for conical shape

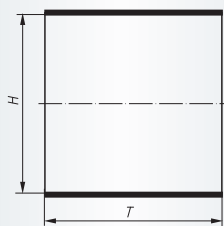
Our mandrels serve exclusively as the means of mounting the conical abrasive bands. Due to the special slots in the mandrel, the abrasive band is firmly secured to the mandrel by the increasing spindle speed.

SBZY, Abrasive Bands, cylindrical unlined

These abrasive bands are manufactured from coated abrasive material. They are used on hand-held machines (straight grinders or with flexible shaft) and are mounted onto the appropriate mandrel.

Mounting device for grinding rolls

These mandrels are produced in a specially soft quality; the 19 mm bore with the four keyways mounted with the abrasive band are used on surface conditioning machines.

High Performance
SBZY, Abrasive Bands, cylindrical shape
Ordering example: A241203030036

Packing unit:

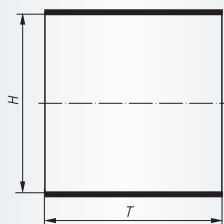
50 pcs. per type

 n_{max.}: please refer to band mandrels on page 209

Further dimensions and grit sizes on request.

Z POWER = zirconia alum. oxide POWER

Description	Grits	H mm	T mm	Product-Number	recommended for	
SBZY 03030	Z POWER 36	30	30	A241203030036	2 3 4 5 7	■
SBZY 03030	Z POWER 50	30	30	A241203030050	2 3 4 5 7	■
SBZY 03030	Z POWER 60	30	30	A241203030060	2 3 4 5 7	■
SBZY 03030	Z POWER 80	30	30	A241203030080	2 3 4 5 7	■
SBZY 04530	Z POWER 36	45	30	A241204530036	2 3 4 5 7	■
SBZY 04530	Z POWER 50	45	30	A241204530050	2 3 4 5 7	■
SBZY 04530	Z POWER 60	45	30	A241204530060	2 3 4 5 7	■
SBZY 04530	Z POWER 80	45	30	A241204530080	2 3 4 5 7	■
SBZY 06030	Z POWER 36	60	30	A241206030036	2 3 4 5 7	■
SBZY 06030	Z POWER 50	60	30	A241206030050	2 3 4 5 7	■
SBZY 06030	Z POWER 60	60	30	A241206030060	2 3 4 5 7	■
SBZY 06030	Z POWER 80	60	30	A241206030080	2 3 4 5 7	■

SBZY, Abrasive Bands, cylindrical shape
Ordering example: A240000810150

Packing unit:

50 pcs. per type

 n_{max.}: please refer to band mandrels on page 209

Further dimensions and grit sizes on request.

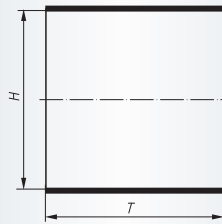
NK = reg. Aluminium Oxide

ZK = Silicon carbide

Description	Grits	H mm	T mm	Product-Number	recommended for	
SBZY 00810	NK 150	8	10	A240000810150	1 2 3 4 5 6 7 8	■
SBZY 01010	NK 80	10	10	A240001010080	1 2 3 4 5 6 7 8	■
SBZY 01010	NK 150	10	10	A240001010150	1 2 3 4 5 6 7 8	■
SBZY 01010	NK 240	10	10	A240001010240	1 2 3 4 5 6 7 8	■
SBZY 01010	NK 320	10	10	A240001010320	1 2 3 4 5 6 7 8	■
SBZY 01020	NK 80	10	20	A240001020080	1 2 3 4 5 6 7 8	■
SBZY 01020	NK 150	10	20	A240001020150	1 2 3 4 5 6 7 8	■
SBZY 01020	NK 240	10	20	A240001020240	1 2 3 4 5 6 7 8	■
SBZY 01020	NK 320	10	20	A240001020320	1 2 3 4 5 6 7 8	■
SBZY 01210	NK 80	12	10	A240001210080	1 2 3 4 5 6 7 8	■
SBZY 01210	NK 150	12	10	A240001210150	1 2 3 4 5 6 7 8	■
SBZY 01210	NK 240	12	10	A240001210240	1 2 3 4 5 6 7 8	■

SBZY, Abrasive Bands, cylindrical shape

Ordering example: A240001213080



Packing unit:

50 pcs. per type

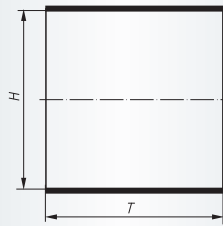
n max.: please refer to band mandrels on page 209

Further dimensions and grit sizes on request.

NK = reg. Aluminium Oxide

ZK = Silicon carbide

Description	Grits	H mm	T mm	Product-Number	recommended for	
SBZY 01213	NK 80	12	13	A240001213080	1 2 3 4 5 6 7 8	■
SBZY 01213	NK 120	12	13	A240001213120	1 2 3 4 5 6 7 8	■
SBZY 01213	NK 240	12	13	A240001213240	1 2 3 4 5 6 7 8	■
SBZY 01225	NK 80	12	25	A240001225080	1 2 3 4 5 6 7 8	■
SBZY 01225	NK 150	12	25	A240001225150	1 2 3 4 5 6 7 8	■
SBZY 01225	NK 240	12	25	A240001225240	1 2 3 4 5 6 7 8	■
SBZY 01225	NK 320	12	25	A240001225320	1 2 3 4 5 6 7 8	■
SBZY 01250	NK 80	12	50	A240001250080	1 2 3 4 5 6 7 8	■
SBZY 01310	NK 80	13	10	A240001310080	1 2 3 4 5 6 7 8	■
SBZY 01310	NK 150	13	10	A240001310150	1 2 3 4 5 6 7 8	■
SBZY 01325	NK 80	13	25	A240001325080	1 2 3 4 5 6 7 8	■
SBZY 01325	NK 150	13	25	A240001325150	1 2 3 4 5 6 7 8	■
SBZY 01325	ZK 50	13	25	A240201325050	1 2 3 4 5 7	■
SBZY 01325	ZK 80	13	25	A240201325080	1 2 3 4 5 7	■
SBZY 01510	NK 60	15	10	A240001510060	1 2 3 4 5 6 7 8	■
SBZY 01510	NK 80	15	10	A240001510080	1 2 3 4 5 6 7 8	■
SBZY 01510	NK 150	15	10	A240001510150	1 2 3 4 5 6 7 8	■
SBZY 01510	NK 240	15	10	A240001510240	1 2 3 4 5 6 7 8	■
SBZY 01510	NK 320	15	10	A240001510320	1 2 3 4 5 6 7 8	■
SBZY 01530	NK 40	15	30	A240001530040	1 2 3 4 5 6 7 8	■
SBZY 01530	NK 50	15	30	A240001530050	1 2 3 4 5 6 7 8	■
SBZY 01530	NK 60	15	30	A240001530060	1 2 3 4 5 6 7 8	■
SBZY 01530	NK 80	15	30	A240001530080	1 2 3 4 5 6 7 8	■
SBZY 01530	NK 120	15	30	A240001530120	1 2 3 4 5 6 7 8	■
SBZY 01530	NK 150	15	30	A240001530150	1 2 3 4 5 6 7 8	■
SBZY 01530	NK 240	15	30	A240001530240	1 2 3 4 5 6 7 8	■
SBZY 01530	NK 320	15	30	A240001530320	1 2 3 4 5 6 7 8	■
SBZY 01530	ZK 50	15	30	A240201530050	1 2 3 4 5 7	■
SBZY 01530	ZK 60	15	30	A240201530060	1 2 3 4 5 7	■
SBZY 01530	ZK 80	15	30	A240201530080	1 2 3 4 5 7	■
SBZY 01550	NK 50	15	50	A240001550050	1 2 3 4 5 6 7 8	■
SBZY 01925	NK 50	19	25	A240001925050	1 2 3 4 5 6 7 8	■
SBZY 01925	NK 60	19	25	A240001925060	1 2 3 4 5 6 7 8	■
SBZY 01925	NK 80	19	25	A240001925080	1 2 3 4 5 6 7 8	■
SBZY 01925	NK 150	19	25	A240001925150	1 2 3 4 5 6 7 8	■
SBZY 01925	ZK 36	19	25	A240201925036	1 2 3 4 5 7	■
SBZY 01925	ZK 50	19	25	A240201925050	1 2 3 4 5 7	■
SBZY 01925	ZK 80	19	25	A240201925080	1 2 3 4 5 7	■
SBZY 02210	NK 150	22	10	A240002210150	1 2 3 4 5 6 7 8	■

SBZY, Abrasive Bands, cylindrical shape
Ordering example: A240002210240

Packing unit:

50 pcs. per type

*n*_{max}: please refer to band mandrels on page 209

Further dimensions and grit sizes on request.

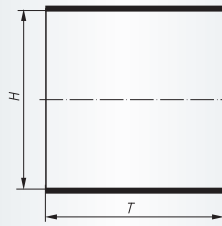
NK = reg. Aluminium Oxide

ZK = Silicon carbide

Description	Grits	H mm	T mm	Product-Number	recommended for	
SBZY 02210	NK 240	22	10	A240002210240	1 2 3 4 5 6 7 8	■
SBZY 02210	NK 320	22	10	A240002210320	1 2 3 4 5 6 7 8	■
SBZY 02220	NK 50	22	20	A240002220050	1 2 3 4 5 6 7 8	■
SBZY 02220	NK 60	22	20	A240002220060	1 2 3 4 5 6 7 8	■
SBZY 02220	NK 80	22	20	A240002220080	1 2 3 4 5 6 7 8	■
SBZY 02220	NK 150	22	20	A240002220150	1 2 3 4 5 6 7 8	■
SBZY 02220	NK 240	22	20	A240002220240	1 2 3 4 5 6 7 8	■
SBZY 02220	NK 320	22	20	A240002220320	1 2 3 4 5 6 7 8	■
SBZY 02220	ZK 36	22	20	A240202220036	1 2 3 4 5 7	■
SBZY 02220	ZK 50	22	20	A240202220050	1 2 3 4 5 7	■
SBZY 02220	ZK 60	22	20	A240202220060	1 2 3 4 5 7	■
SBZY 02250	NK 50	22	50	A240002250050	1 2 3 4 5 6 7 8	■
SBZY 02525	NK 40	25	25	A240002525040	1 2 3 4 5 6 7 8	■
SBZY 02525	NK 50	25	25	A240002525050	1 2 3 4 5 6 7 8	■
SBZY 02525	NK 60	25	25	A240002525060	1 2 3 4 5 6 7 8	■
SBZY 02525	NK 80	25	25	A240002525080	1 2 3 4 5 6 7 8	■
SBZY 02525	NK 150	25	25	A240002525150	1 2 3 4 5 6 7 8	■
SBZY 02525	ZK 36	25	25	A240202525036	1 2 3 4 5 7	■
SBZY 02525	ZK 50	25	25	A240202525050	1 2 3 4 5 7	■
SBZY 02525	ZK 80	25	25	A240202525080	1 2 3 4 5 7	■
SBZY 03020	NK 40	30	20	A240003020040	1 2 3 4 5 6 7 8	■
SBZY 03020	NK 50	30	20	A240003020050	1 2 3 4 5 6 7 8	■
SBZY 03020	NK 60	30	20	A240003020060	1 2 3 4 5 6 7 8	■
SBZY 03020	NK 80	30	20	A240003020080	1 2 3 4 5 6 7 8	■
SBZY 03020	NK 150	30	20	A240003020150	1 2 3 4 5 6 7 8	■
SBZY 03020	NK 240	30	20	A240003020240	1 2 3 4 5 6 7 8	■
SBZY 03030	NK 40	30	30	A240003030040	1 2 3 4 5 6 7 8	■
SBZY 03030	NK 50	30	30	A240003030050	1 2 3 4 5 6 7 8	■
SBZY 03030	NK 60	30	30	A240003030060	1 2 3 4 5 6 7 8	■
SBZY 03030	NK 80	30	30	A240003030080	1 2 3 4 5 6 7 8	■
SBZY 03030	NK 150	30	30	A240003030150	1 2 3 4 5 6 7 8	■
SBZY 03030	NK 240	30	30	A240003030240	1 2 3 4 5 6 7 8	■
SBZY 03030	NK 320	30	30	A240003030320	1 2 3 4 5 6 7 8	■
SBZY 03030	ZK 36	30	30	A240203030036	1 2 3 4 5 7	■
SBZY 03030	ZK 50	30	30	A240203030050	1 2 3 4 5 7	■
SBZY 03030	ZK 60	30	30	A240203030060	1 2 3 4 5 7	■
SBZY 03030	ZK 80	30	30	A240203030080	1 2 3 4 5 7	■
SBZY 03825	NK 40	38	25	A240003825040	1 2 3 4 5 6 7 8	■
SBZY 03825	NK 50	38	25	A240003825050	1 2 3 4 5 6 7 8	■

SBZY, Abrasive Bands, cylindrical shape

Ordering example: A240003825060



Packing unit:

50 pcs. per type

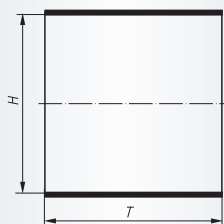
n max.: please refer to band mandrels on page 209

Further dimensions and grit sizes on request.

NK = reg. Aluminium Oxide

ZK = Silicon carbide

Description	Grits	H mm	T mm	Product-Number	recommended for	
SBZY 03825	NK 60	38	25	A240003825060	1 2 3 4 5 6 7 8	■
SBZY 03825	NK 80	38	25	A240003825080	1 2 3 4 5 6 7 8	■
SBZY 03825	NK 150	38	25	A240003825150	1 2 3 4 5 6 7 8	■
SBZY 03825	ZK 36	38	25	A240203825036	1 2 3 4 5 7	■
SBZY 03825	ZK 50	38	25	A240203825050	1 2 3 4 5 7	■
SBZY 03825	ZK 80	38	25	A240203825080	1 2 3 4 5 7	■
SBZY 04530	NK 40	45	30	A240004530040	1 2 3 4 5 6 7 8	■
SBZY 04530	NK 50	45	30	A240004530050	1 2 3 4 5 6 7 8	■
SBZY 04530	NK 60	45	30	A240004530060	1 2 3 4 5 6 7 8	■
SBZY 04530	NK 80	45	30	A240004530080	1 2 3 4 5 6 7 8	■
SBZY 04530	NK 150	45	30	A240004530150	1 2 3 4 5 6 7 8	■
SBZY 04530	NK 240	45	30	A240004530240	1 2 3 4 5 6 7 8	■
SBZY 04530	NK 320	45	30	A240004530320	1 2 3 4 5 6 7 8	■
SBZY 04530	ZK 36	45	30	A240204530036	1 2 3 4 5 7	■
SBZY 04530	ZK 50	45	30	A240204530050	1 2 3 4 5 7	■
SBZY 04530	ZK 60	45	30	A240204530060	1 2 3 4 5 7	■
SBZY 04530	ZK 80	45	30	A240204530080	1 2 3 4 5 7	■
SBZY 05125	NK 40	51	25	A240005125040	1 2 3 4 5 6 7 8	■
SBZY 05125	NK 50	51	25	A240005125050	1 2 3 4 5 6 7 8	■
SBZY 05125	NK 60	51	25	A240005125060	1 2 3 4 5 6 7 8	■
SBZY 05125	NK 80	51	25	A240005125080	1 2 3 4 5 6 7 8	■
SBZY 05125	NK 150	51	25	A240005125150	1 2 3 4 5 6 7 8	■
SBZY 05125	ZK 36	51	25	A240205125036	1 2 3 4 5 7	■
SBZY 05125	ZK 50	51	25	A240205125050	1 2 3 4 5 7	■
SBZY 05125	ZK 80	51	25	A240205125080	1 2 3 4 5 7	■
SBZY 06030	NK 40	60	30	A240006030040	1 2 3 4 5 6 7 8	■
SBZY 06030	NK 50	60	30	A240006030050	1 2 3 4 5 6 7 8	■
SBZY 06030	NK 60	60	30	A240006030060	1 2 3 4 5 6 7 8	■
SBZY 06030	NK 80	60	30	A240006030080	1 2 3 4 5 6 7 8	■
SBZY 06030	NK 150	60	30	A240006030150	1 2 3 4 5 6 7 8	■
SBZY 06030	ZK 36	60	30	A240206030036	1 2 3 4 5 7	■
SBZY 06030	ZK 50	60	30	A240206030050	1 2 3 4 5 7	■
SBZY 06030	ZK 60	60	30	A240206030060	1 2 3 4 5 7	■
SBZY 06030	ZK 80	60	30	A240206030080	1 2 3 4 5 7	■
SBZY 07530	NK 40	75	30	A240007530040	1 2 3 4 5 6 7 8	■
SBZY 07530	NK 50	75	30	A240007530050	1 2 3 4 5 6 7 8	■
SBZY 07530	NK 60	75	30	A240007530060	1 2 3 4 5 6 7 8	■
SBZY 07530	NK 80	75	30	A240007530080	1 2 3 4 5 6 7 8	■
SBZY 07530	NK 150	75	30	A240007530150	1 2 3 4 5 6 7 8	■

SBZY, Abrasive Bands, cylindrical shape
Ordering example: A240010040040

Packing unit:

50 pcs. per type

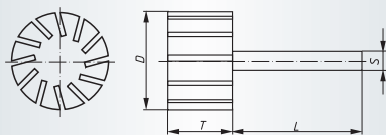
 n_{max}: please refer to band mandrels on page 209

Further dimensions and grit sizes on request.

NK = reg. Aluminium Oxide

ZK = Silicon carbide

Description	Grits	H mm	T mm	Product-Number	recommended for	
SBZY 10040	NK 40	100	40	A240010040040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBZY 10040	NK 50	100	40	A240010040050	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBZY 10040	NK 60	100	40	A240010040060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBZY 10040	NK 80	100	40	A240010040080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBZY 10040	NK 150	100	40	A240010040150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

STZY, Mandrels cylindrical shape
Ordering example: A2501008103

Packing unit:

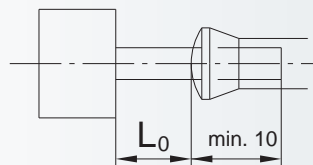
5 pcs. per type

from Ø 75 mm = 2 pcs. per type

Further dimensions on request.

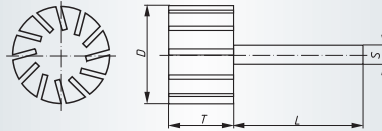
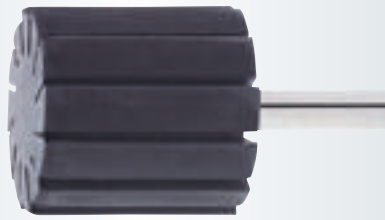
Description	Type	D mm	T mm	S mm	L mm	n max. (1/min)	Product-Number	recommended for	
STZY 00810.03	soft	8	10	3	40	47.500	A2501008103		■
STZY 01010.03	hard	10	10	3	25	54.000	A2500010103		■
STZY 01010.06	hard	10	10	6	40	57.000	A2500010106		■
STZY 01020.06	hard	10	20	6	40	57.000	A2500010206		■
STZY 01210.06	hard	12	10	6	40	46.500	A2500012106		■
STZY 01213.02	hard	12	13	2,35	40	26.000	A2500012132		■
STZY 01225.06	hard	12	25	6	40	46.500	A2500012256		■
STZY 01225.06	soft	12	25	6	40	31.500	A2501012256		■
STZY 01250.06	hard	12	50	6	40	31.500	A2500012506		■
STZY 01310.06	hard	13	10	6	40	44.000	A2500013106		■
STZY 01325.06	hard	13	25	6	40	44.000	A2500013256		■
STZY 01510.06	hard	15	10	6	40	38.000	A2500015106		■
STZY 01530.06	hard	15	30	6	40	38.000	A2500015306		■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



STZY, Mandrels cylindrical shape

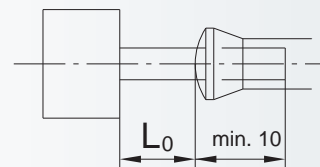
Ordering example: A2501015306



Packing unit:
5 pcs. per type
from Ø 75 mm = 2 pcs. per type
Further dimensions on request.

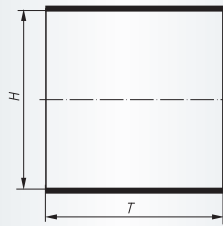
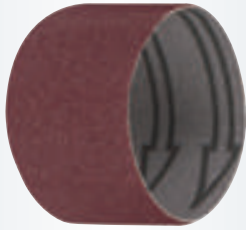
Description	Type	D mm	T mm	S mm	L mm	n max (1/min)	Product-Number	recommended for	
STZY 01530.06	soft	15	30	6	40	25.000	A2501015306		■
STZY 01550.06	hard	15	50	6	40	25.000	A2500015506		■
STZY 01925.06	hard	19	25	6	40	30.000	A2500019256		■
STZY 02210.06	hard	22	10	6	40	26.000	A2500022106		■
STZY 02220.06	hard	22	20	6	40	26.000	A2500022206		■
STZY 02220.06	soft	22	20	6	40	17.000	A2501022206		■
STZY 02250.06	hard	22	50	6	40	17.000	A2500022506		■
STZY 02525.06	hard	25	25	6	40	22.500	A2500025256		■
STZY 03020.06	hard	30	20	6	40	19.000	A2500030206		■
STZY 03020.06	soft	30	20	6	40	12.500	A2501030206		■
STZY 03030.06	hard	30	30	6	40	19.000	A2500030306		■
STZY 03030.06	soft	30	30	6	40	12.500	A2501030306		■
STZY 03825.06	hard	38	25	6	40	15.000	A2500038256		■
STZY 04530.06	hard	45	30	6	40	13.000	A25000453060001		■
STZY 04530.06	soft	45	30	6	40	13.000	A25010453060001		■
STZY 05125.06	hard	51	25	6	40	11.200	A2500051256		■
STZY 06030.06	hard	60	30	6	40	9.500	A25000603060001		■
STZY 06030.06	soft	60	30	6	40	6.500	A25010603060001		■
STZY 06030.08	hard	60	30	8	40	9.500	A2500060308		■
STZY 07530.08	hard	75	30	8	40	6.500	A25000753080001		■
STZY 10040.08	soft	100	40	8	40	4.000	A25011004080001		■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SBZY, Abrasive Bands, cylindrical, unlined

Ordering example: A300003030080



Packing unit:

50 pcs. per type

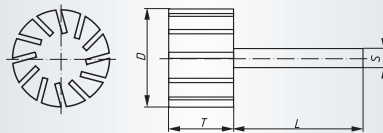
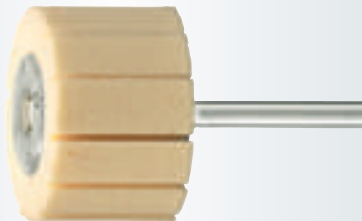
n max.: please refer to band mandrels on page 209 and 211

NK = reg. Aluminium Oxide

Description	Grits	H mm	T mm	Product-Number	recommended for		
SBZY 03030	NK 80	30	30	A300003030080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■	NEW
SBZY 03030	NK 120	30	30	A300003030120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■	NEW
SBZY 03030	NK 150	30	30	A300003030150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■	NEW
SBZY 04530	NK 80	45	30	A300004530080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■	NEW
SBZY 04530	NK 120	45	30	A300004530120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■	NEW
SBZY 04530	NK 150	45	30	A300004530150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■	NEW
SBZY 06030	NK 60	60	30	A300006030060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■	NEW
SBZY 06030	NK 80	60	30	A300006030080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■	NEW
SBZY 06030	NK 120	60	30	A300006030120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■	NEW

STZY, Mandrels for cylindrical shape, soft

Ordering example: A2502030306

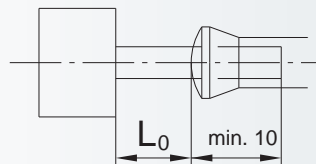


Packing unit:

5 pcs. per type

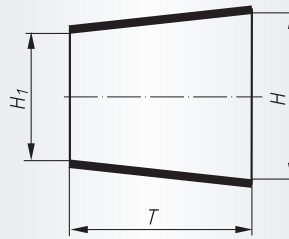
Description	Type	D mm	T mm	S mm	L mm	n max. (1/min)	Product-Number	recommended for		
STZY 03030.06	soft	30	30	6	40	9.500	A2502030306		■	NEW
STZY 04530.06	soft	45	30	6	40	6.300	A2502045306		■	NEW
STZY 06030.06	soft	60	30	6	40	4.700	A2502060306		■	NEW

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SBKE, Abrasive Bands, conical shape

Ordering example: A300002063040



Packing unit:

50 pcs. per type

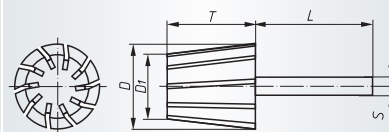
n_{max}: please refer to band mandrels on page 212

NK = reg. Aluminium Oxide

Description	Grits	H mm	T mm	H ₁ mm	Product-Number	recommended for	
SBKE 02063	NK 40	20	63	14	A300002063040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 02063	NK 60	20	63	14	A300002063060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 02063	NK 80	20	63	14	A300002063080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 02063	NK 150	20	63	14	A300002063150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 02930	NK 40	29	30	22	A300002930040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 02930	NK 50	29	30	22	A300002930050	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 02930	NK 60	29	30	22	A300002930060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 02930	NK 80	29	30	22	A300002930080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 02930	NK 150	29	30	22	A300002930150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 03660	NK 40	36	60	22	A300003660040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 03660	NK 50	36	60	22	A300003660050	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 03660	NK 60	36	60	22	A300003660060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 03660	NK 80	36	60	22	A300003660080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBKE 03660	NK 150	36	60	22	A300003660150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

STKE, Mandrels for conical shape

Ordering example: A2500020636

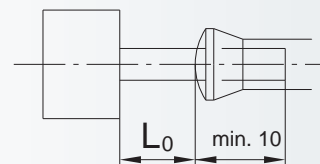


Packing unit:

5 pcs. per type

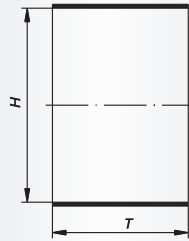
Description	D mm	T mm	S mm	D ₁ mm	L mm	Type	n _{max} (1/min)	Product-Number	recommended for	
STKE 02063.06	20	63	6	14	40	hard	21.000	A2500020636		■
STKE 02930.06	29	30	6	22	40	hard	21.000	A2500029306		■
STKE 03660.06	36	60	6	22	40	hard	13.500	A2500036606		■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



SBZY, Grinding rolls

Ordering example: A2400100100060



Packing unit:

6 pcs. per type

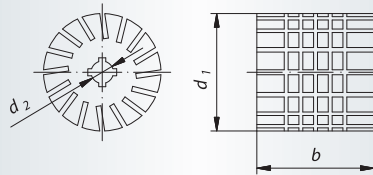
n_{max} : please refer to band mandrels on page 213

NK = reg. Aluminium Oxide

Description	Grits	H mm	T mm	Product-Number	recommended for	
SBZY 100100	NK 60	100	100	A2400100100060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBZY 100100	NK 80	100	100	A2400100100080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBZY 100100	NK 120	100	100	A2400100100120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBZY 100100	NK 150	100	100	A2400100100150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

STWS, Mounting device for grinding rolls

Ordering example: A2502100100



Packing unit:

1 pcs. per type

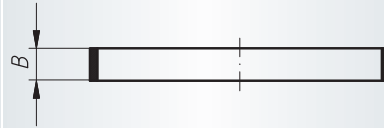
The bore \varnothing 19 mm has a keyway of 6 mm.

Machines to suit: Page 288

Description	Grits	d ₁ mm	b mm	Bore d ₂ mm	n_{max} (1/min)	Product-Number	recommended for	
STWS 100100	soft	100	100	19	2.800	A2502100100		■

SBL, finishing belts

Ordering example: A3000130305040T01



Packing unit:

100 pcs. per type

Used on our pneumatic belt grinder AMIN 30 BSH, page 275 and AMIN 16 BSH, page 274.

Peripheral speed: 28 m/s

NK = reg. Aluminium Oxide
ZK = Zirconia Alum. Oxide

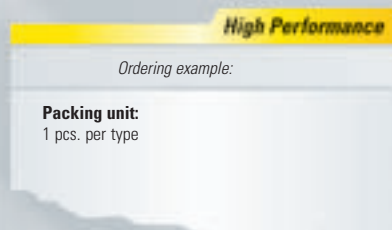
	Description	Grits	B mm	Length mm	Lining	Product-Number	recommended for									
NEW	SBLT	ZK 40	13	305	robust-flexible	A3000130305040T01	1	2	3	4	5			8		■
	SBLT	NK 60	13	305	robust-flexible	A3000130305060T	1	2	3	4	5	6	7	8		■
	SBLX	NK 60	13	305	robust	A3000130305060X	1	2	3	4	5	6	7	8		■
NEW	SBLT	ZK 60	13	305	robust-flexible	A3000130305060T01	1	2	3	4	5			8		■
	SBLT	NK 80	13	305	robust-flexible	A3000130305080T	1	2	3	4	5	6	7	8		■
	SBLX	NK 80	13	305	robust	A3000130305080X	1	2	3	4	5	6	7	8		■
NEW	SBLT	ZK 80	13	305	robust-flexible	A3000130305080T01	1	2	3	4	5			8		■
	SBLT	NK 120	13	305	robust-flexible	A3000130305120T	1	2	3	4	5	6	7	8		■
	SBLX	NK 120	13	305	robust	A3000130305120X	1	2	3	4	5	6	7	8		■
NEW	SBLT	ZK 120	13	305	robust-flexible	A3000130305120T01	1	2	3	4	5			8		■
	SBLX	NK 40	19	480	robust	A3000190480040X	1	2	3	4	5	6	7	8		■
NEW	SBLT	ZK 40	19	480	robust-flexible	A3000190480040T01	1	2	3	4	5			8		■
	SBLX	NK 60	19	480	robust	A3000190480060X	1	2	3	4	5	6	7	8		■
NEW	SBLT	ZK 60	19	480	robust-flexible	A3000190480060T01	1	2	3	4	5			8		■
	SBLX	NK 80	19	480	robust	A3000190480080X	1	2	3	4	5	6	7	8		■
NEW	SBLT	ZK 80	19	480	robust-flexible	A3000190480080T01	1	2	3	4	5			8		■
	SBLX	NK 120	19	480	robust	A3000190480120X	1	2	3	4	5	6	7	8		■
NEW	SBLT	ZK 120	19	480	robust-flexible	A3000190480120T01	1	2	3	4	5			8		■



Content

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• Abrasive rolls, conical	218
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High Performance marking



High Performance

Ordering example:

Packing unit:
1 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading
Further information on page 4.

Information

SRZY, Abrasive rolls, cylindrical and SRKE Abrasive rolls, conical

These abrasive rolls consist of wound coated abrasive material. Their construction guarantees a free-cutting tool; the outer coating wears during the grinding process which then allows new grain particle to be exposed. Please take note of the rotational direction- particularly due to the method of construction!

Examples of applicatin:

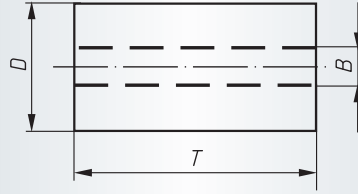
- deburring
- preparation work
- fettling

SRTR, Mandrels

Reusable mandrels for the safe mounting of cylindrical and conical abrasive rolls

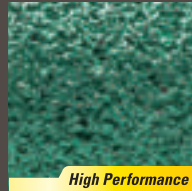
SRZY, Abrasive rolls, cylindrical

Ordering example: A240300625080

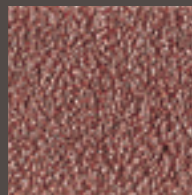


Packing unit:
50 pcs. per type
NK = reg. Aluminium Oxide

Description	Grits	D mm	T mm	B mm	n max. (1/min)	Suitable mandrels	Product-Number	recommended for								
SRZY 0625	NK 80	6	25	3	26.000	SRTR 3063.03 or SRTR 3063.06	A240300625080	1	2	3	4	5	6	7	8	■
SRZY 0625	NK 150	6	25	3	26.000	SRTR 3063.03 or SRTR 3063.06	A240300625150	1	2	3	4	5	6	7	8	■
SRZY 0638	NK 80	6	38	3	26.000	SRTR 3063.03 or SRTR 3063.06	A240300638080	1	2	3	4	5	6	7	8	■
SRZY 0638	NK 150	6	38	3	26.000	SRTR 3063.03 or SRTR 3063.06	A240300638150	1	2	3	4	5	6	7	8	■
SRZY 1025	NK 50	10	25	3	26.000	SRTR 3063.03 or SRTR 3063.06	A240301025050	1	2	3	4	5	6	7	8	■
SRZY 1025	NK 80	10	25	3	26.000	SRTR 3063.03 or SRTR 3063.06	A240301025080	1	2	3	4	5	6	7	8	■
SRZY 1025	NK 150	10	25	3	26.000	SRTR 3063.03 or SRTR 3063.06	A240301025150	1	2	3	4	5	6	7	8	■
SRZY 1038	NK 50	10	38	3	26.000	SRTR 3070.06	A240301038050	1	2	3	4	5	6	7	8	■
SRZY 1038	NK 80	10	38	3	26.000	SRTR 3070.06	A240301038080	1	2	3	4	5	6	7	8	■
SRZY 1038	NK 150	10	38	3	26.000	SRTR 3070.06	A240301038150	1	2	3	4	5	6	7	8	■
SRZY 1325	NK 50	13	25	3	26.000	SRTR 3063.06	A240301325050	1	2	3	4	5	6	7	8	■
SRZY 1325	NK 80	13	25	3	26.000	SRTR 3063.06	A240301325080	1	2	3	4	5	6	7	8	■
SRZY 1325	NK 150	13	25	3	26.000	SRTR 3063.06	A240301325150	1	2	3	4	5	6	7	8	■
SRZY 1338	NK 50	13	38	3	26.000	SRTR 3070.06	A240301338050	1	2	3	4	5	6	7	8	■
SRZY 1338	NK 80	13	38	3	26.000	SRTR 3070.06	A240301338080	1	2	3	4	5	6	7	8	■
SRZY 1338	NK 150	13	38	3	26.000	SRTR 3070.06	A240301338150	1	2	3	4	5	6	7	8	■
SRZY 2038	NK 50	20	38	3	18.000	SRTR 5085.06	A240302038050	1	2	3	4	5	6	7	8	■
SRZY 2038	NK 80	20	38	3	18.000	SRTR 5085.06	A240302038080	1	2	3	4	5	6	7	8	■
SRZY 2038	NK 150	20	38	3	18.000	SRTR 5085.06	A240302038150	1	2	3	4	5	6	7	8	■
SRZY 2050	NK 50	20	50	3	18.000	SRTR 5085.06	A240302050050	1	2	3	4	5	6	7	8	■
SRZY 2050	NK 80	20	50	3	18.000	SRTR 5085.06	A240302050080	1	2	3	4	5	6	7	8	■



Abrasive Caps special, NKS
Special quality for the machining of corrosion and heat resistant steel in the mould manufacturing industry.



Abrasive Caps universal, NK
Universal quality for the machining of metal, plastics, wood and many other materials

Content

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• Mandrel, cylindrical	222		
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High Performance marking

Ordering example: A21020051080

Packing unit:
100 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading
Further information on page 4.

Information

The LUKAS abrasive caps and sleeves are manufactured from high quality coated abrasive material, and are used in conjunction with the appropriate high precision mandrel.

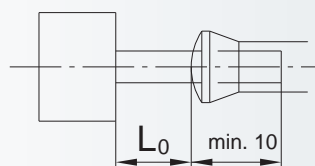
We offer a great variety of different tools and mandrels which covers a wide spectrum of applications.

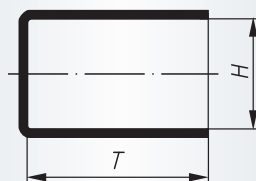
Examples of application:

- fine and extremely fine machining particularly in areas difficult to access
- tool, mould and model making

Maximum operating speed

The maximum operating speed for abrasive caps is stated in the respective table of mandrels. The indicated maximum operating speeds are only valid for a maximum overhang length L_0 of 15 mm. Other overhang dimensions must be calculated separately.

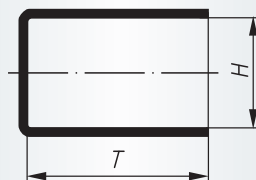


High Performance
SKZYS, Abrasive caps special, Cylindrical shape
Ordering example: A21020051080

Packing unit:

100 pcs. per type

 n_{max}: please refer to the corresponding mandrel, page 222

Description	Grits	H mm	T mm	Product-Number	recommended for	
SKZYS 0510	NKS 80	5	10	A21020051080	1 2 3 4 5 6 7 8	■
SKZYS 0510	NKS 150	5	10	A21020051150	1 2 3 4 5 6 7 8	■
SKZYS 0712	NKS 60	7	12	A21020071060	1 2 3 4 5 6 7 8	■
SKZYS 0712	NKS 80	7	12	A21020071080	1 2 3 4 5 6 7 8	■
SKZYS 0712	NKS 150	7	12	A21020071150	1 2 3 4 5 6 7 8	■
SKZYS 1015	NKS 60	10	15	A21020101060	1 2 3 4 5 6 7 8	■
SKZYS 1015	NKS 80	10	15	A21020101080	1 2 3 4 5 6 7 8	■
SKZYS 1015	NKS 150	10	15	A21020101150	1 2 3 4 5 6 7 8	■

SKZY, Abrasive caps universal, Cylindrical shape
Ordering example: A21000051080

Packing unit:

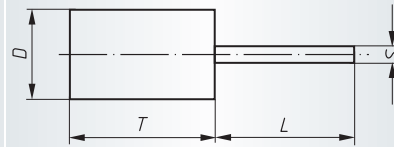
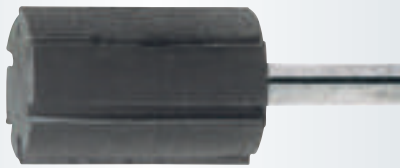
100 pcs. per type

 n_{max}: please refer to the corresponding mandrel, page 222

Description	Grits	H mm	T mm	Product-Number	recommended for	
SKZY 0510	NK 80	5	10	A21000051080	1 2 3 4 5 6 7 8	■
SKZY 0510	NK 150	5	10	A21000051150	1 2 3 4 5 6 7 8	■
SKZY 0510	NK 320	5	10	A21000051320	1 2 3 4 5 6 7 8	■
SKZY 0712	NK 80	7	12	A21000071080	1 2 3 4 5 6 7 8	■
SKZY 0712	NK 150	7	12	A21000071150	1 2 3 4 5 6 7 8	■
SKZY 0712	NK 320	7	12	A21000071320	1 2 3 4 5 6 7 8	■
SKZY 1015	NK 80	10	15	A21000101080	1 2 3 4 5 6 7 8	■
SKZY 1015	NK 150	10	15	A21000101150	1 2 3 4 5 6 7 8	■
SKZY 1015	NK 320	10	15	A21000101320	1 2 3 4 5 6 7 8	■
SKZY 1317	NK 80	13	17	A21000131080	1 2 3 4 5 6 7 8	■
SKZY 1317	NK 150	13	17	A21000131150	1 2 3 4 5 6 7 8	■
SKZY 1317	NK 320	13	17	A21000131320	1 2 3 4 5 6 7 8	■
SKZY 1626	NK 80	16	26	A21000161080	1 2 3 4 5 6 7 8	■
SKZY 1626	NK 150	16	26	A21000161150	1 2 3 4 5 6 7 8	■
SKZY 1626	NK 320	16	26	A21000161320	1 2 3 4 5 6 7 8	■

GTZY, Mandrel, Cylindrical shape

Ordering example: A250000513



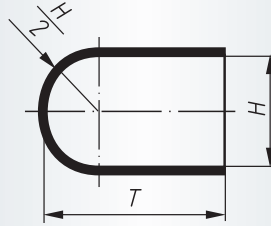
Packing unit:
5 pcs. per type

Description	D mm	T mm	Shank Ø x length mm	n max. (1/min)	Product-Number	recommended for	
GTZY 0510	5	10	3 x 25	57.000	A250000513		■
GTZY 0510	5	10	1/8" x 25	57.000	A250000511		■
GTZY 0510	5	10	2,35 x 40	57.000	A250000512		■
GTZY 0712	7	12	2,35 x 40	42.000	A250000712		■
GTZY 0712	7	12	3 x 25	42.000	A250000713		■
GTZY 1015	10	15	3 x 25	30.000	A250001013		■
GTZY 1015	10	15	1/8" x 25	30.000	A250001011		■
GTZY 1317	13	17	3 x 25	23.000	A250001313		■
GTZY 1626	16	26	3 x 25	23.000	A250001613		■
GTZY 1626	16	26	6 x 40	23.000	A250001616		■
GTZY 1626	16	26	1/8" x 25	18.000	A250001611		■

High Performance

SKWRS, Abrasive caps special, Cylindrical round nose

Ordering example: A21020052080



Packing unit:

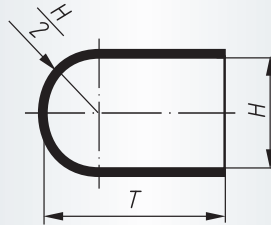
100 pcs. per type

n_{max}: please refer to the corresponding mandrel, page 224

Description	Grits	H mm	T mm	Product-Number	recommended for	
SKWRS 0511	NKS 80	5	11	A21020052080	1 2 3 4 5 6 7 8	■
SKWRS 0511	NKS 150	5	11	A21020052150	1 2 3 4 5 6 7 8	■
SKWRS 0713	NKS 60	7	13	A21020072060	1 2 3 4 5 6 7 8	■
SKWRS 0713	NKS 80	7	13	A21020072080	1 2 3 4 5 6 7 8	■
SKWRS 0713	NKS 150	7	13	A21020072150	1 2 3 4 5 6 7 8	■
SKWRS 1015	NKS 60	10	15	A21020102060	1 2 3 4 5 6 7 8	■
SKWRS 1015	NKS 80	10	15	A21020102080	1 2 3 4 5 6 7 8	■
SKWRS 1015	NKS 150	10	15	A21020102150	1 2 3 4 5 6 7 8	■
SKWRS 1319	NKS 60	13	19	A21020132060	1 2 3 4 5 6 7 8	■
SKWRS 1319	NKS 80	13	19	A21020132080	1 2 3 4 5 6 7 8	■
SKWRS 1319	NKS 150	13	19	A21020132150	1 2 3 4 5 6 7 8	■

SKWR, Abrasive caps universal, Cylindrical round nose

Ordering example: A21000052080



Packing unit:

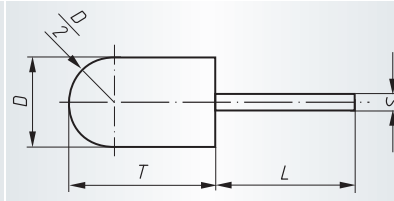
100 pcs. per type

n_{max}: please refer to the corresponding mandrel, page 224

Description	Grits	H mm	T mm	Product-Number	recommended for	
SKWR 0511	NK 80	5	11	A21000052080	1 2 3 4 5 6 7 8	■
SKWR 0511	NK 150	5	11	A21000052150	1 2 3 4 5 6 7 8	■
SKWR 0511	NK 320	5	11	A21000052320	1 2 3 4 5 6 7 8	■
SKWR 0713	NK 80	7	13	A21000072080	1 2 3 4 5 6 7 8	■
SKWR 0713	NK 150	7	13	A21000072150	1 2 3 4 5 6 7 8	■
SKWR 0713	NK 320	7	13	A21000072320	1 2 3 4 5 6 7 8	■
SKWR 1015	NK 80	10	15	A21000102080	1 2 3 4 5 6 7 8	■
SKWR 1015	NK 150	10	15	A21000102150	1 2 3 4 5 6 7 8	■
SKWR 1015	NK 320	10	15	A21000102320	1 2 3 4 5 6 7 8	■
SKWR 1319	NK 80	13	19	A21000132080	1 2 3 4 5 6 7 8	■
SKWR 1319	NK 150	13	19	A21000132150	1 2 3 4 5 6 7 8	■
SKWR 1319	NK 320	13	19	A21000132320	1 2 3 4 5 6 7 8	■
SKWR 1626	NK 80	16	26	A21000162080	1 2 3 4 5 6 7 8	■
SKWR 1626	NK 150	16	26	A21000162150	1 2 3 4 5 6 7 8	■
SKWR 1626	NK 320	16	26	A21000162320	1 2 3 4 5 6 7 8	■

GTWR, Mandrel, Cylindrical round nose

Ordering example: A250000522



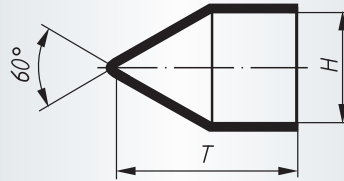
Packing unit:
5 pcs. per type

Description	D mm	T mm	Shank Ø x length mm	n max. (1/min)	Product-Number	recommended for	
GTWR 0511	5	11	2,35 x 40	57.000	A250000522		■
GTWR 0511	5	11	3 x 25	57.000	A250000523		■
GTWR 0511	5	11	1/8" x 25	57.000	A250000521		■
GTWR 0713	7	13	2,35 x 40	42.000	A250000722		■
GTWR 0713	7	13	3 x 25	42.000	A250000723		■
GTWR 0713	7	13	1/8" x 25	42.000	A250000721		■
GTWR 1015	10	15	2,35 x 40	30.000	A250001022		■
GTWR 1015	10	15	3 x 25	30.000	A250001023		■
GTWR 1015	10	15	1/8" x 25	30.000	A250001021		■
GTWR 1319	13	19	2,35 x 40	23.000	A250001322		■
GTWR 1319	13	19	3 x 25	23.000	A250001323		■
GTWR 1626	16	26	2,35 x 40	13.000	A250001622		■
GTWR 1626	16	26	3 x 25	18.000	A250001623		■
GTWR 1626	16	26	6 x 40	18.000	A250001626		■
GTWR 1626	16	26	1/8" x 25	18.000	A250001621		■

High Performance

SKWKS, Abrasive caps special, Cylindrical pointed nose

Ordering example: A21020053080



Packing unit:

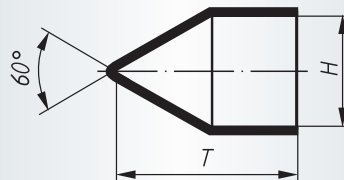
100 pcs. per type

n max.: please refer to the corresponding mandrel, page 226

Description	Grits	H mm	T mm	Product-Number	recommended for	
SKWKS 0511	NKS 80	5	11	A21020053080	1 2 3 4 5 6 7 8	■
SKWKS 0511	NKS 150	5	11	A21020053150	1 2 3 4 5 6 7 8	■
SKWKS 0713	NKS 60	7	13	A21020073060	1 2 3 4 5 6 7 8	■
SKWKS 0713	NKS 80	7	13	A21020073080	1 2 3 4 5 6 7 8	■
SKWKS 0713	NKS 150	7	13	A21020073150	1 2 3 4 5 6 7 8	■
SKWKS 1015	NKS 60	10	15	A21020103060	1 2 3 4 5 6 7 8	■
SKWKS 1015	NKS 80	10	15	A21020103080	1 2 3 4 5 6 7 8	■
SKWKS 1015	NKS 150	10	15	A21020103150	1 2 3 4 5 6 7 8	■
SKWKS 1319	NKS 60	13	19	A21020133060	1 2 3 4 5 6 7 8	■
SKWKS 1319	NKS 80	13	19	A21020133080	1 2 3 4 5 6 7 8	■
SKWKS 1319	NKS 150	13	19	A21020133150	1 2 3 4 5 6 7 8	■

SKWK, Abrasive caps universal, Cylindrical pointed nose

Ordering example: A21000053080



Packing unit:

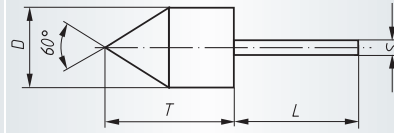
100 pcs. per type

n max.: please refer to the corresponding mandrel, page 226

Description	Grits	H mm	T mm	Product-Number	recommended for	
SKWK 0511	NK 80	5	11	A21000053080	1 2 3 4 5 6 7 8	■
SKWK 0511	NK 150	5	11	A21000053150	1 2 3 4 5 6 7 8	■
SKWK 0511	NK 320	5	11	A21000053320	1 2 3 4 5 6 7 8	■
SKWK 0713	NK 80	7	13	A21000073080	1 2 3 4 5 6 7 8	■
SKWK 0713	NK 150	7	13	A21000073150	1 2 3 4 5 6 7 8	■
SKWK 0713	NK 320	7	13	A21000073320	1 2 3 4 5 6 7 8	■
SKWK 1015	NK 80	10	15	A21000103080	1 2 3 4 5 6 7 8	■
SKWK 1015	NK 150	10	15	A21000103150	1 2 3 4 5 6 7 8	■
SKWK 1015	NK 320	10	15	A21000103320	1 2 3 4 5 6 7 8	■
SKWK 1319	NK 80	13	19	A21000133080	1 2 3 4 5 6 7 8	■
SKWK 1319	NK 150	13	19	A21000133150	1 2 3 4 5 6 7 8	■
SKWK 1319	NK 320	13	19	A21000133320	1 2 3 4 5 6 7 8	■
SKWK 1626	NK 80	16	26	A21000163080	1 2 3 4 5 6 7 8	■
SKWK 1626	NK 150	16	26	A21000163150	1 2 3 4 5 6 7 8	■
SKWK 1626	NK 320	16	26	A21000163320	1 2 3 4 5 6 7 8	■

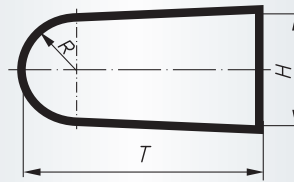
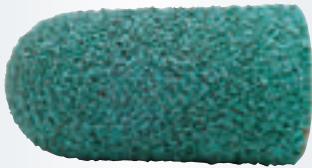
GTWK, Mandrel, Cylindrical pointed nose

Ordering example: A250000533



Packing unit:
5 pcs. per type

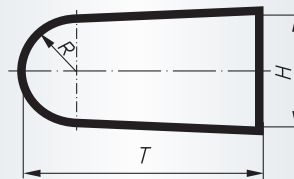
Description	D mm	T mm	Shank Ø x length mm	n max. (1/min)	Product-Number	recommended for	
GTWK 0511	5	11	3 x 25	57.000	A250000533		■
GTWK 0511	5	11	1/8" x 25	57.000	A250000531		■
GTWK 0713	7	13	2,35 x 40	42.000	A250000732		■
GTWK 0713	7	13	3 x 25	42.000	A250000733		■
GTWK 1015	10	15	3 x 25	30.000	A250001033		■
GTWK 1015	10	15	1/8" x 25	30.000	A250001031		■
GTWK 1319	13	19	2,35 x 40	23.000	A250001332		■
GTWK 1319	13	19	3 x 25	23.000	A250001333		■
GTWK 1626	16	26	3 x 25	18.000	A250001633		■
GTWK 1626	16	26	6 x 40	18.000	A250001636		■
GTWK 1626	16	26	1/8" x 25	18.000	A250001631		■

High Performance
SKKES, Abrasive caps special, Conical round nose
Ordering example: A2102163060

Packing unit:

25 pcs. per type

n max.: please refer to the corresponding mandrel, page 228

Description	Grits	H mm	T mm	≈R mm	Product-Number	recommended for	
SKKES 1632	NKS 60	16	32	7,5	A2102163060	1 2 3 4 5 6 7 8	■
SKKES 1632	NKS 80	16	32	7,5	A2102163080	1 2 3 4 5 6 7 8	■
SKKES 1632	NKS 150	16	32	7,5	A2102163150	1 2 3 4 5 6 7 8	■

SKKE, Abrasive caps universal, Conical round nose
Ordering example: A2100051080

Packing unit:

up to Ø 11 mm = 100 pcs. per type

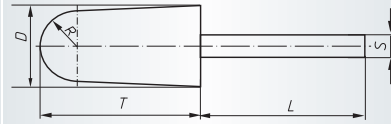
from Ø 16 mm = 25 pcs. per type

n max.: please refer to the corresponding mandrel, page 228

Description	Grits	H mm	T mm	≈R mm	Product-Number	recommended for	
SKKE 0515	NK 80	5	15	2	A2100051080	1 2 3 4 5 6 7 8	■
SKKE 0515	NK 150	5	15	2	A2100051150	1 2 3 4 5 6 7 8	■
SKKE 0515	NK 280	5	15	2	A2100051280	1 2 3 4 5 6 7 8	■
SKKE 1125	NK 80	11	25	5	A2100112080	1 2 3 4 5 6 7 8	■
SKKE 1125	NK 150	11	25	5	A2100112150	1 2 3 4 5 6 7 8	■
SKKE 1125	NK 280	11	25	5	A2100112280	1 2 3 4 5 6 7 8	■
SKKE 1632	NK 80	16	32	7,5	A2100163080	1 2 3 4 5 6 7 8	■
SKKE 1632	NK 150	16	32	7,5	A2100163150	1 2 3 4 5 6 7 8	■
SKKE 1632	NK 280	16	32	7,5	A2100163280	1 2 3 4 5 6 7 8	■
SKKE 2140	NK 80	21	40	9,5	A2100224080	1 2 3 4 5 6 7 8	■
SKKE 2140	NK 150	21	40	9,5	A2100224150	1 2 3 4 5 6 7 8	■
SKKE 2140	NK 280	21	40	9,5	A2100224280	1 2 3 4 5 6 7 8	■

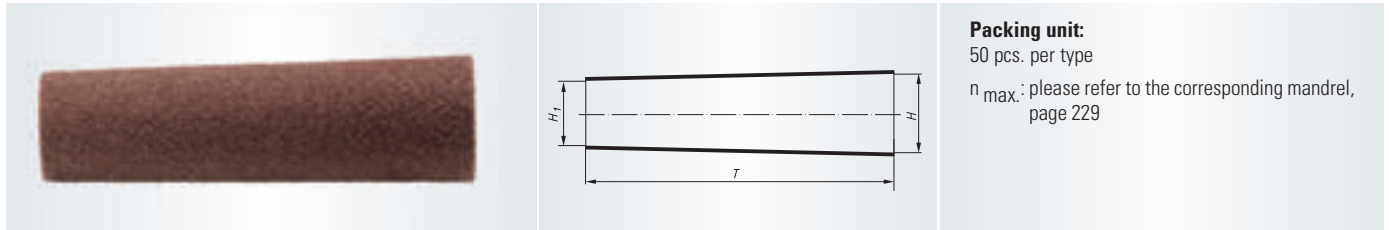
GTKE, Mandrel, Conical round nose

Ordering example: A25000513



Packing unit:
5 pcs. per type
Change of shank length „L“ reserved.

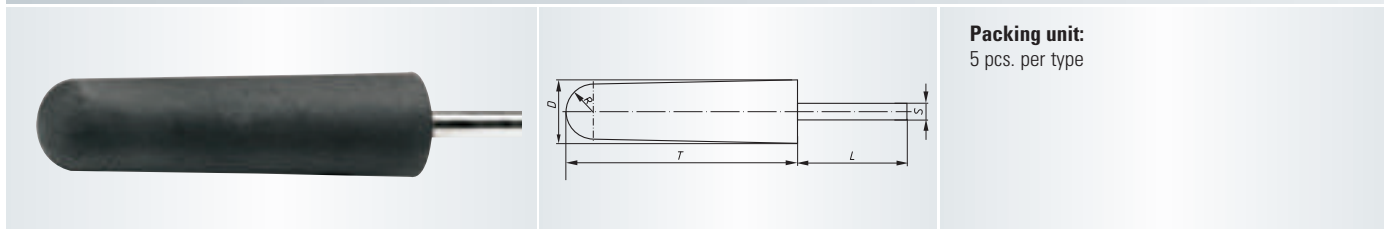
Description	D mm	T mm	L mm	≈R mm	Shank Ø x length mm	n max. (1/min)	Product-Number	recommended for	
GTKE 0515	5	15	40	2	3 x 25	57.000	A25000513		■
GTKE 0515	5	15	40	2	1/4" x 40	57.000	A25000511		■
GTKE 0515	5	15	40	2	6 x 40	57.000	A25000516		■
GTKE 1125	11	25	40	5	6 x 40	27.000	A25001126		■
GTKE 1632	16	32	40	7,5	6 x 40	18.000	A25001636		■
GTKE 2140	21	40	40	9,5	6 x 40	14.000	A25002246		■

SHKE, Abrasive sleeves, Conical shape
Ordering example: A2101108080

Packing unit:

50 pcs. per type

n max.: please refer to the corresponding mandrel, page 229

Description	Grits	H mm	T mm	H ₁ mm	Product-Number	recommended for	
SHKE 0885	NK 80	8	85	4,5	A2101108080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SHKE 0885	NK 150	8	85	4,5	A2101108150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SHKE 1385	NK 80	13	85	9,5	A2101158080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SHKE 1385	NK 150	13	85	9,5	A2101158150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SHKE 1885	NK 80	18	85	14,5	A2101208080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SHKE 1885	NK 150	18	85	14,5	A2101208150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SHKE 2385	NK 80	23	85	19,5	A2101258080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SHKE 2385	NK 150	23	85	19,5	A2101258150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

GTKE, Mandrel, Conical shape
Ordering example: A25001086

Packing unit:

5 pcs. per type

Description	D mm	T mm	L mm	≈R mm	Shank Ø x length mm	<i>n</i> max. (1/min)	Product-Number	recommended for	
GTKE 0885	8	85	40	2	6 x 40	24.000	A25001086		■
GTKE 0885	8	85	40	2	1/4" x 40	24.000	A25001081		■
GTKE 1385	13	85	40	5	6 x 40	17.000	A25001586		■
GTKE 1885	18	85	40	7,5	6 x 40	12.000	A25002086		■
GTKE 2385	23	85	40	9,5	6 x 40	10.000	A25002586		■

For inaccessible areas, use abrasive caps conical shape (see page 227) in conjunction with a mandrel of head length 85 mm.

Abrasive caps-Assortments

Ordering example: A210000065



Packing unit:

1 pc. per type

Assortment containing:

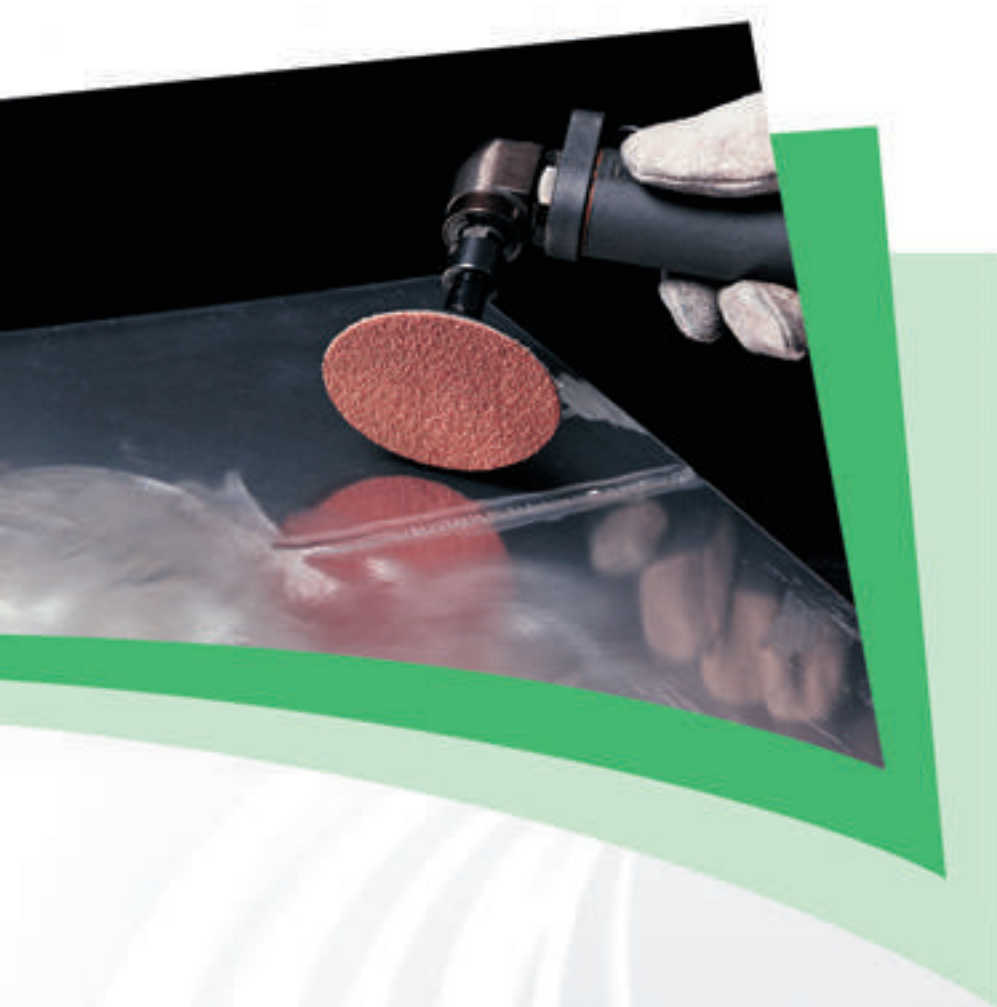
640 pcs. Abrasive Caps

23 pcs. Mandrels

Outside dimension of box: 325 x 257 x 55 mm

NK = reg. Aluminium Oxide

Description	pc.	Contents	Product-Number	recommended for	
WS 65	50 pcs. 100 pcs. of 50 pcs. of 20 pcs. of 10 pcs.	<p>Abrasive Caps, grit NK 150</p> <p>SKKE 0515</p> <p>SKZY 0510, SKWR 0511, SKWK 0511</p> <p>SKZY 0712, SKWR 0713, SKWK 0713</p> <p>SKZY 1015, SKWR 1015</p> <p>SKKE 1125</p> <p>Abrasive Caps, grit NK 80</p> <p>SKWK 1015</p> <p>SKZY 1317, SKWR 1319, SKWK 1319, SKKE 1632</p> <p>SKWK 1626, SKWR 1626</p> <p>Mandrels, Shank 3 mm</p> <p>GTZY 0510,GTWR 0511, GTWK 0511, GTZY 0712, GTWR 0713, GTWK 0713</p> <p>GTZY 1015, GTWR 1015, GTWK 1015, GTZY 1317, GTWR 1319, GTWK 1319</p> <p>Mandrels, Shank 6 mm</p> <p>GTKE 0515, GTKE 1125, GTWK 1626, GTWR 1626, GTKE 1632</p>	A210000065	1 2 3 4 5 6 7 8	■
WS 65 Z	2 pcs. of 1 pc. of 1 pc. of	<p>Abrasive Caps, see WS 65</p> <p>Mandrels, Shank 1/8 inch</p> <p>GTZY 0510,GTWR 0511, GTWK 0511, GTZY 0712, GTWR 0713, GTWK 0713</p> <p>GTZY 1015, GTWR 1015, GTWK 1015, GTZY 1317, GTWR 1319, GTWK 1319</p> <p>Mandrels, Shank 1/4 inch</p> <p>GTKE 0515, GTKE 1125, GTWK 1626, GTWR 1626, GTKE 1632</p>	A210000065Z	1 2 3 4 5 6 7 8	■



Content

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High Performance marking

High Performance

Ordering example:

Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Information

Abrasive Discs, quick-change type, PSG/PSR

LUKAS-Abrasive discs- PSG/PSR- are designed for quick mounting; a quick locking metal centre is integrated into the backing of the abrasive disc. A quick twisting movement secures the disc to the mandrel.

The PSG abrasive disc provides us with the most comprehensive selection in this product group.

A choice of diameter, different grit sizes and qualities covering every imaginable application, helps solve your particular grinding problem.

Abrasive Discs, self-adhesive PSK

LUKAS abrasive discs PSK are self-adhesive. The adhesive backing of the disc is covered with a protective foil; after the removal of the foil the disc can be fixed to the rubber mandrel.

The self-adhesive LUKAS abrasive discs can be used on a wide variety of surfaces. After the removal of the disc from the backing, the disc cannot be re-used. The self-adhesive discs are available in various grit sizes of regular aluminium oxide (NK) as detailed on following pages.

Abrasive Discs, self-fixing PSH







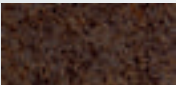


LUKAS abrasive discs PSH are self-fixing. The back face of the disc and the front face of the rubber mandrel are coated with Velcro.

The self-fixing LUKAS abrasive discs can be used on both flat and curved surfaces. Due to the velcro fixing, a partly worn disc can easily be removed and re-used at a later date.

The self-fixing abrasive discs are available in various grit sizes of regular aluminium oxide (NK), as detailed on following pages.

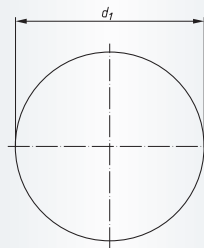
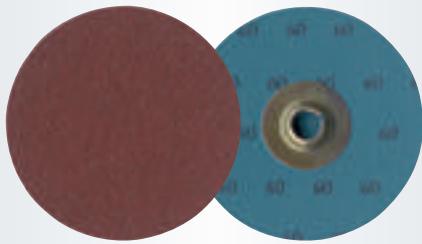


PSG, Qualities and Applications

Quality		Characteristics	Applications	Page
 NK	Abrasive cloth with reg. Aluminium Oxide	tough grain	Universal grinding and deburring	234–235
 NKE	Abrasive cloth using reg. Aluminium Oxide with special coating	tough grain	Due to the reinforcement suited even for highest demands and edge working.	234–235
 ZK	Abrasive cloth with Zirconia Alum. Oxide	very tough and resilient grain	Ideal for hastelloy, inconel, stainless and steels difficult to machine.	234–236
 Z POWER	Zirconia Alum. Oxide with active grinding additives	optimum stock removal rate, excellent tool life	Ideal for stainless. No loading due to special coating.	234–236
 Ceramic	Abrasive cloth ceramic grain	optimum stock removal rate without shredding of grain. Very stable due to reinforced backing. Cool cutting	Ideal for stainless and nickel alloys.	234–236
 SIC	Abrasive cloth with Silicon carbide	cool cutting; special quality for the aircraft industry	Ideal for titanium, titanium alloys and aluminium (aerospace industry). Also suitable for plastic and ceramic materials.	234–236
  	Fleece Reg. Aluminium oxide coarse/brown medium/red-brown fine/blue	Polishing effect through the fibre structure, constant working results due to steadily discharge of abrasive particles. Outstanding tool life.	Ideal for removing rust or paint, scratches and pre-machining marks. A general improvement of the surface finish.	234–236

PSG, Abrasive discs, quick-change

Ordering example: A3371020060

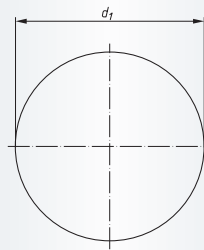
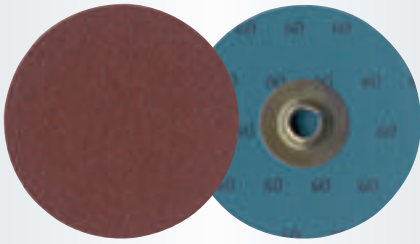


Packing unit:
100 pcs. per type,
from Ø 75 mm: 50 pcs. per type
Except PSG in fleece quality:
50 pcs. per type,
from Ø 75 mm: 25 pcs. per type

Description	Grits	d ₁ mm	n max. (1/min)	Suitable carriers	Product-Number	recommended for	
PSG 020	NK 60	19	40.000	GTG 020	A3371020060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 020	NK 80	19	40.000	GTG 020	A3371020080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 020	NK 120	19	40.000	GTG 020	A3371020120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 025	NK 36	25	40.000	GTG 025	A3371025036	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 025	NK 60	25	40.000	GTG 025	A3371025060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 025	NK 80	25	40.000	GTG 025	A3371025080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 025	NK 120	25	40.000	GTG 025	A3371025120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 025	NKE 60	25	40.000	GTG 025	A3352025060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 025	NKE 80	25	40.000	GTG 025	A3352025080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 025	NKE 120	25	40.000	GTG 025	A3352025120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 025	NKE 180	25	40.000	GTG 025	A3352025180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 025	NKE 240	25	40.000	GTG 025	A3352025240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 025	ZK 60	25	40.000	GTG 025	A3353025060	① ② ③ ④ ⑤ ⑦	■
PSG 025	ZK 80	25	40.000	GTG 025	A3353025080	① ② ③ ④ ⑤ ⑦	■
PSG 038	NK 36	38	30.000	GTG 038	A3371038036	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 038	NK 60	38	30.000	GTG 038	A3371038060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 038	NK 80	38	30.000	GTG 038	A3371038080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 038	NK 120	38	30.000	GTG 038	A3371038120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 038	NK 180	38	30.000	GTG 038	A3371038180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 038	NK 240	38	30.000	GTG 038	A3371038240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 038	NKE 60	38	30.000	GTG 038	A3352038060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 038	NKE 80	38	30.000	GTG 038	A3352038080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 038	NKE 120	38	30.000	GTG 038	A3352038120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 038	ZK 60	38	30.000	GTG 038	A3353038060	① ② ③ ④ ⑤ ⑦	■
PSG 038	ZK 80	38	30.000	GTG 038	A3353038080	① ② ③ ④ ⑤ ⑦	■
PSG 038	Z Power 36	38	30.000	GTG 038	A3377038036	① ② ③ ④ ⑤ ⑦	■
PSG 038	Z Power 60	38	30.000	GTG 038	A3377038060	① ② ③ ④ ⑤ ⑦	■
PSG 038	Z Power 80	38	30.000	GTG 038	A3377038080	① ② ③ ④ ⑤ ⑦	■
PSG 038	Z Power 120	38	30.000	GTG 038	A3377038120	① ② ③ ④ ⑤ ⑦	■
PSG 038	SIC 36	38	30.000	GTG 038	A3378038036	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
PSG 038	SIC 60	38	30.000	GTG 038	A3378038060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
PSG 038	SIC 80	38	30.000	GTG 038	A3378038080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
PSG 038	SIC 120	38	30.000	GTG 038	A3378038120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
PSG 038	Ceramic 36	38	30.000	GTG 038	A3379038036	② ③ ④ ⑤ ⑦	■
PSG 038	Ceramic 60	38	30.000	GTG 038	A3379038060	② ③ ④ ⑤ ⑦	■
PSG 038	Ceramic 80	38	30.000	GTG 038	A3379038080	② ③ ④ ⑤ ⑦	■
PSG 038	Ceramic 120	38	30.000	GTG 038	A3379038120	② ③ ④ ⑤ ⑦	■
PSG 038	Fleece coarse	38	10.000	GTG 038	A3374038004	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 038	Fleece medium	38	10.000	GTG 038	A3374038002	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

PSG, Abrasive discs, quick-change

Ordering example: A3374038005



Packing unit:

100 pcs. per type,
from Ø 75 mm: 50 pcs. per type

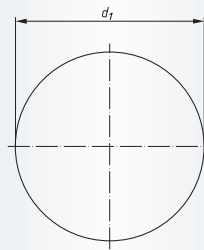
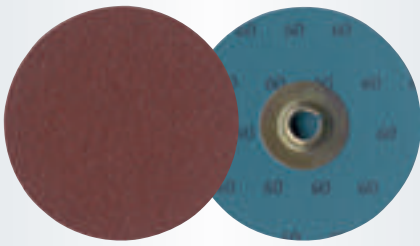
Except PSG in fleece quality:

50 pcs. per type,
from Ø 75 mm: 25 pcs. per type

Description	Grits	d ₁ mm	n max. (1/min)	Suitable carriers	Product-Number	recommended for	
PSG 038	Fleece fine	38	10.000	GTG 038	A3374038005	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NK 36	51	30.000	GTG 038 and GTG 050	A3371050036	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NK 60	51	30.000	GTG 038 and GTG 050	A3371050060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NK 80	51	30.000	GTG 038 and GTG 050	A3371050080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NK 120	51	30.000	GTG 038 and GTG 050	A3371050120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NK 180	51	30.000	GTG 038 and GTG 050	A3371050180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NK 240	51	30.000	GTG 038 and GTG 050	A3371050240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NKE 36	51	30.000	GTG 038 and GTG 050	A3352050036	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NKE 60	51	30.000	GTG 038 and GTG 050	A3352050060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NKE 80	51	30.000	GTG 038 and GTG 050	A3352050080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NKE 120	51	30.000	GTG 038 and GTG 050	A3352050120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NKE 180	51	30.000	GTG 038 and GTG 050	A3352050180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	NKE 240	51	30.000	GTG 038 and GTG 050	A3352050240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	ZK 36	51	30.000	GTG 038 and GTG 050	A3353050036	① ② ③ ④ ⑤ ⑦	■
PSG 050	ZK 60	51	30.000	GTG 038 and GTG 050	A3353050060	① ② ③ ④ ⑤ ⑦	■
PSG 050	ZK 80	51	30.000	GTG 038 and GTG 050	A3353050080	① ② ③ ④ ⑤ ⑦	■
PSG 050	Z Power 36	51	30.000	GTG 038 and GTG 050	A3377050036	① ② ③ ④ ⑤ ⑦	■
PSG 050	Z Power 60	51	30.000	GTG 038 and GTG 050	A3377050060	① ② ③ ④ ⑤ ⑦	■
PSG 050	Z Power 80	51	30.000	GTG 038 and GTG 050	A3377050080	① ② ③ ④ ⑤ ⑦	■
PSG 050	Z Power 120	51	30.000	GTG 038 and GTG 050	A3377050120	① ② ③ ④ ⑤ ⑦	■
PSG 050	SIC 36	51	30.000	GTG 038 and GTG 050	A3378050036	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
PSG 050	SIC 60	51	30.000	GTG 038 and GTG 050	A3378050060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
PSG 050	SIC 80	51	30.000	GTG 038 and GTG 050	A3378050080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
PSG 050	SIC 120	51	30.000	GTG 038 and GTG 050	A3378050120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
PSG 050	Ceramic 36	51	30.000	GTG 038 and GTG 050	A3379050036	② ③ ④ ⑤ ⑦	■
PSG 050	Ceramic 60	51	30.000	GTG 038 and GTG 050	A3379050060	② ③ ④ ⑤ ⑦	■
PSG 050	Ceramic 80	51	30.000	GTG 038 and GTG 050	A3379050080	② ③ ④ ⑤ ⑦	■
PSG 050	Ceramic 120	51	30.000	GTG 038 and GTG 050	A3379050120	② ③ ④ ⑤ ⑦	■
PSG 050	Fleece coarse	51	8.000	GTG 038 and GTG 050	A3374050004	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	Fleece medium	51	8.000	GTG 038 and GTG 050	A3374050002	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 050	Fleece fine	51	8.000	GTG 038 and GTG 050	A3374050005	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 075	NK 36	76	20.000	GTG 075	A3371075036	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 075	NK 60	76	20.000	GTG 075	A3371075060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 075	NK 80	76	20.000	GTG 075	A3371075080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 075	NK 120	76	20.000	GTG 075	A3371075120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 075	NK 180	76	20.000	GTG 075	A3371075180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 075	NKE 60	76	20.000	GTG 075	A3352075060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 075	NKE 80	76	20.000	GTG 075	A3352075080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSG 075	ZK 36	76	20.000	GTG 075	A3353075036	① ② ③ ④ ⑤ ⑦	■

PSG, Abrasive discs, quick-change

Ordering example: A3353075060

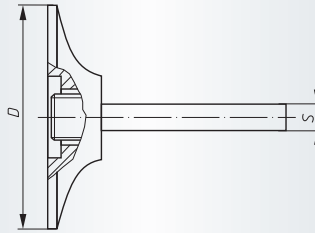
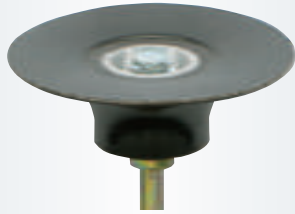


Packing unit:
100 pcs. per type,
from Ø 75 mm: 50 pcs. per type
Except PSG in fleece quality:
50 pcs. per type,
from Ø 75 mm: 25 pcs. per type

Description	Grits	d ₁ mm	n max. (1/min)	Suitable carriers	Product-Number	recommended for											
PSG 075	ZK 60	76	20.000	GTG 075	A3353075060	1	2	3	4	5		7					■
PSG 075	ZK 80	76	20.000	GTG 075	A3353075080	1	2	3	4	5		7					■
PSG 075	Z Power 36	76	20.000	GTG 075	A3377075036	1	2	3	4	5		7					■
PSG 075	Ceramic 80	76	20.000	GTG 075	A3379075080		2	3	4	5		7					■
PSG 075	Z Power 60	76	20.000	GTG 075	A3377075060	1	2	3	4	5		7					■
PSG 075	Z Power 80	76	20.000	GTG 075	A3377075080	1	2	3	4	5		7					■
PSG 075	Z Power 120	76	20.000	GTG 075	A3377075120	1	2	3	4	5		7					■
PSG 075	SIC 36	76	20.000	GTG 075	A3378075036	1	2	3	4	5	6	7	8	9			■
PSG 075	SIC 60	76	20.000	GTG 075	A3378075060	1	2	3	4	5	6	7	8	9			■
PSG 075	SIC 80	76	20.000	GTG 075	A3378075080	1	2	3	4	5	6	7	8	9			■
PSG 075	SIC 120	76	20.000	GTG 075	A3378075120	1	2	3	4	5	6	7	8	9			■
PSG 075	Ceramic 36	76	20.000	GTG 075	A3379075036		2	3	4	5		7					■
PSG 075	Ceramic 60	76	20.000	GTG 075	A3379075060		2	3	4	5		7					■
PSG 075	Ceramic 120	76	20.000	GTG 075	A3379075120		2	3	4	5		7					■
PSG 075	Fleece coarse	75	5.500	GTG 075	A3374075004	1	2	3	4	5	6	7	8				■
PSG 075	Fleece medium	75	5.500	GTG 075	A3374075002	1	2	3	4	5	6	7	8				■
PSG 075	Fleece fine	75	5.500	GTG 075	A3374075005	1	2	3	4	5	6	7	8				■

GTG, Mandrels for quick-change abrasive discs

Ordering example: A33500200026



Packing unit:

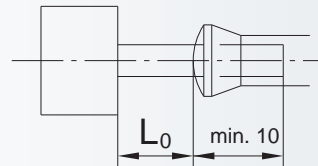
1 pc. per type

n max.: please also refer to Abrasive discs, PSG, page 234–236





Description	D mm	S mm	Type	n max. (1/min)	Product-Number	recommended for	
GTG 020.06	18	6	medium	40.000	A33500200026		■
GTG 025.06	23	6	medium	40.000	A33500250026		■
GTG 038.06	33	6	medium	25.000	A33500380026		■
GTG 050.06	45	6	medium	25.000	A33500500026		■
GTG 050.06	45	6	hard	30.000	A33500500036		■
GTG 075.06	70	6	medium	20.000	A33500750026		■
GTG 075.06	70	6	hard	20.000	A33500750036		■

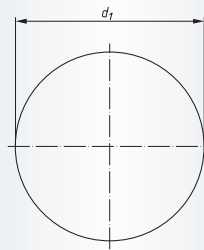
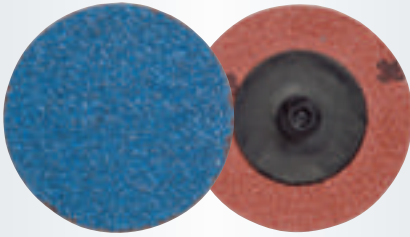
The mandrels are supplied in a medium hardness for universal application. For severe applications (when using Z POWER and CERAMIC) please use hard quality mandrels.

The stated maximum operating speed is calculated using the maximum mandrel diameter and maximum overhang L_0 of 5 mm. For other overhangs and smaller mandrel diameters, the maximum operating speed must be re-calculated.



PSR, Qualities and Applications

Quality	Characteristics	Applications	Page
 <p>Abrasive cloth with Zirconia Alum. Oxide</p> <p>ZK</p>	<p>very tough and resilient grain</p>	<p>Ideal for hastelloy, inconel, stainless and steels difficult to machine.</p>	<p>239</p>
 <p>Fleece Reg. Aluminium oxide coarse/brown</p>  <p>medium/red-brown</p>  <p>fine/blue</p>	<p>Polishing effect through the fibre structure, constant working results due to steadily discharge of abrasive particles. Outstanding tool life.</p>	<p>Ideal for removing rust or paint, scratches and pre-machining marks. A general improvement of the surface finish.</p>	<p>239</p>

PSR, Abrasive discs with plastic thread, quick-change
Ordering example: A3363038060

Packing unit:

100 pcs. per type

Except PSR in fleece quality:

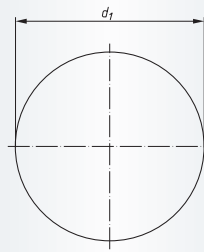
50 pcs. per type,

from Ø 75 mm: 25 pcs. per type

Description	Grits	d ₁ mm	n max. (1/min)	Suitable carriers	Product-Number	recommended for									
PSR 038	ZK 60	38	30.000	GTR 038	A3363038060	1	2	3	4	5		7			■
PSR 038	ZK 80	38	30.000	GTR 038	A3363038080	1	2	3	4	5		7			■
PSR 038	Fleece medium	38	10.000	GTR 038	A3375038002	1	2	3	4	5	6	7	8		■
PSR 038	Fleece fine	38	10.000	GTR 038	A3375038005	1	2	3	4	5	6	7	8		■
PSR 050	ZK 36	51	30.000	GTR 038 and GTR 050	A3363050036	1	2	3	4	5		7			■
PSR 050	ZK 60	51	30.000	GTR 038 and GTR 050	A3363050060	1	2	3	4	5		7			■
PSR 050	ZK 80	51	30.000	GTR 038 and GTR 050	A3363050080	1	2	3	4	5		7			■
PSR 050	Fleece coarse	51	8.000	GTR 038 and GTR 050	A3375050004	1	2	3	4	5	6	7	8		■
PSR 050	Fleece medium	51	8.000	GTR 038 and GTR 050	A3375050002	1	2	3	4	5	6	7	8		■
PSR 050	Fleece fine	51	8.000	GTR 038 and GTR 050	A3375050005	1	2	3	4	5	6	7	8		■
PSR 075	ZK 36	76	20.000	GTR 038	A3363075036	1	2	3	4	5		7			■
PSR 075	ZK 60	76	20.000	GTR 038	A3363075060	1	2	3	4	5		7			■
PSR 075	ZK 80	76	20.000	GTR 038	A3363075080	1	2	3	4	5		7			■
PSR 075	Fleece coarse	76	5.500	GTR 038, GTR 050 and GTR 075	A3375075004	1	2	3	4	5	6	7	8		■
PSR 075	Fleece medium	76	5.500	GTR 038, GTR 050 and GTR 075	A3375075002	1	2	3	4	5	6	7	8		■
PSR 075	Fleece fine	76	5.500	GTR 038, GTR 050 and GTR 075	A3375075005	1	2	3	4	5	6	7	8		■

SLTG, Flap Disc, quick-change type

Ordering example: A33310500401623



Packing unit:
10 pcs. per type
Vmax.: 50 m/s
ZK = Zirconia Alum. Oxide

Description	Grits	d ₁ mm	n max. (1/min)	Suitable carriers	Product-Number	recommended for									
SLTG 050	ZK 40	50	19.000	GTR 038.06	A33310500401623	1	2	3	4	5		7			■
SLTG 050	ZK 60	50	19.000	GTR 038.06	A33310500601623	1	2	3	4	5		7			■
SLTG 050	ZK 80	50	19.000	GTR 038.06	A33310500801623	1	2	3	4	5		7			■
SLTG 050	ZK 120	50	19.000	GTR 038.06	A33310501201623	1	2	3	4	5		7			■
SLTG 065	ZK 40	65	14.700	GTR 050.06	A33310650401623	1	2	3	4	5		7			■
SLTG 065	ZK 60	65	14.700	GTR 050.06	A33310650601623	1	2	3	4	5		7			■
SLTG 065	ZK 80	65	14.700	GTR 050.06	A33310650801623	1	2	3	4	5		7			■
SLTG 065	ZK 120	65	14.700	GTR 050.06	A33310651201623	1	2	3	4	5		7			■
SLTG 075	ZK 40	75	12.700	GTR 050.06	A33310750401623	1	2	3	4	5		7			■
SLTG 075	ZK 60	75	12.700	GTR 050.06	A33310750601623	1	2	3	4	5		7			■
SLTG 075	ZK 80	75	12.700	GTR 050.06	A33310750801623	1	2	3	4	5		7			■
SLTG 075	ZK 120	75	12.700	GTR 050.06	A33310751201623	1	2	3	4	5		7			■

Properties

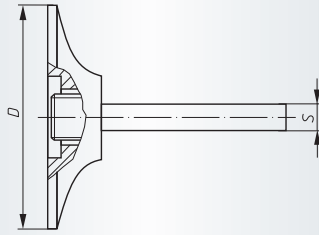
- excellent cutting action
- aggressive, even with minimum grinding pressure
- long tool life (compared to fibre discs)
- lamellar projection
- flexible

Application:

- deburring
- fettling
- rust removal
- finishing
- cleaning of weld seams

GTR, Mandrels with plastic thread for quick-change abrasive discs and SLTG

Ordering example: A33600380026



Packing unit:

1 pc. per type

n max.: please also refer to Abrasive discs, PSR, page 329 and flap disc SLTG, page 240

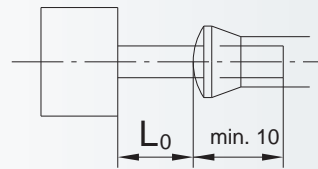
Description	D mm	S mm	Type	n max. (1/min)	Product-Number	recommended for	
GTR 038.06	33	6	medium	25.000	A33600380026		■
GTR 050.06	45	6	medium	25.000	A33600500026		■
GTR 075.06	70	6	medium	20.000	A33600750026		■

The mandrels are supplied with a hardness for universal application; our medium type is suitable for nearly all applications.

Depending on the ordered quantities, other hardnesses are available on request.

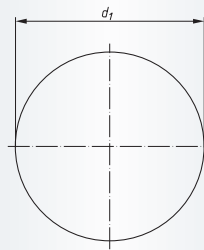
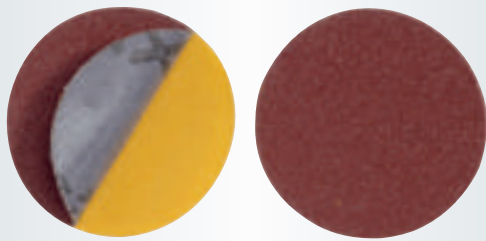
The stated maximum operating speed is calculated using the maximum mandrel diameter and maximum overhang L_0 of 5 mm.

For other overhangs and smaller mandrel diameters, the maximum operating speed must be re-calculated.



PSK, Abrasive discs, self-adhesive

Ordering example: A2300018060



Packing unit:

100 pcs. per type

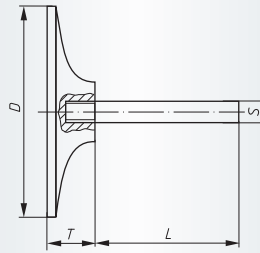
n max.: please refer to the mandrels self-adhesive
GTK, page 243

NK = reg. Aluminium Oxide

Description	Grits	d ₁ mm	Product-Number	recommended for	
PSK 018	NK 60	21	A2300018060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 018	NK 80	21	A2300018080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 018	NK 120	21	A2300018120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 018	NK 150	21	A2300018150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 018	NK 180	21	A2300018180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 018	NK 240	21	A2300018240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 030	NK 60	33	A2300030060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 030	NK 80	33	A2300030080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 030	NK 120	33	A2300030120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 030	NK 150	33	A2300030150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 030	NK 180	33	A2300030180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 030	NK 240	33	A2300030240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 045	NK 60	48	A2300045060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 045	NK 80	48	A2300045080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 045	NK 120	48	A2300045120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 045	NK 150	48	A2300045150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 045	NK 180	48	A2300045180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 045	NK 240	48	A2300045240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 060	NK 60	63	A2300060060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 060	NK 80	63	A2300060080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 060	NK 120	63	A2300060120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 060	NK 150	63	A2300060150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 075	NK 60	78	A2300075060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 075	NK 80	78	A2300075080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 075	NK 120	78	A2300075120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSK 075	NK 150	78	A2300075150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

GTK, Mandrels, for self-adhesive abrasive discs

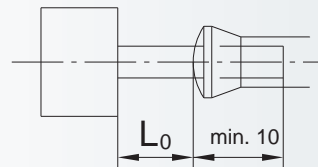
Ordering example: A250301830001



Packing unit:
5 pcs. per type,
from Ø 75 mm = 2 pcs. per type

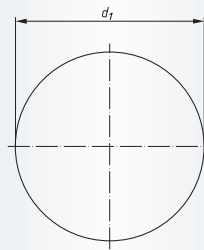
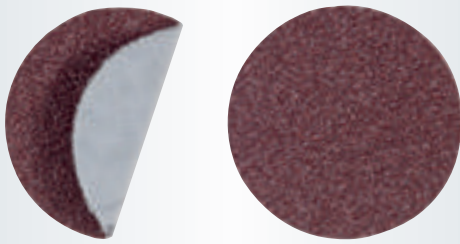
Description	D mm	S mm	T mm	L mm	n max. (1/min)	Product-Number	recommended for	
GTK 018.03	18	3	11	30	20.000	A250301830001		■
GTK 030.03	30	3	12	30	12.500	A250303030001		■
GTK 030.06	30	6	12	40	12.500	A250303060001		■
GTK 045.06	45	6	11	40	10.000	A250304560001		■
GTK 060.06	60	6	13	40	8.000	A250306060001		■
GTK 075.06	75	6	15	40	6.000	A250307560001		■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.



PSH, Abrasive discs, self-fixing

Ordering example: A3300018060



Packing unit:

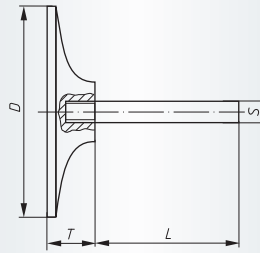
100 pcs. per type

n max.: please refer to the mandrels self-fixing GTH, page 245

Description	Grits	d ₁ mm	Product-Number	recommended for	
PSH 018	NK 60	20	A3300018060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 018	NK 80	20	A3300018080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 018	NK 120	20	A3300018120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 018	NK 150	20	A3300018150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 018	NK 180	20	A3300018180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 018	NK 240	20	A3300018240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 018	NK 320	20	A3300018320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 030	NK 60	33	A3300030060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 030	NK 80	33	A3300030080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 030	NK 120	33	A3300030120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 030	NK 150	33	A3300030150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 030	NK 180	33	A3300030180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 030	NK 240	33	A3300030240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 030	NK 320	33	A3300030320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 045	NK 60	48	A3300045060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 045	NK 80	48	A3300045080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 045	NK 120	48	A3300045120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 045	NK 150	48	A3300045150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 045	NK 180	48	A3300045180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 045	NK 240	48	A3300045240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 060	NK 60	63	A3300060060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 060	NK 80	63	A3300060080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 060	NK 120	63	A3300060120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 060	NK 150	63	A3300060150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 060	NK 180	63	A3300060180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 060	NK 240	63	A3300060240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 060	NK 320	63	A3300060320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 075	NK 60	78	A3300075060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 075	NK 80	78	A3300075080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 075	NK 120	78	A3300075120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 075	NK 150	78	A3300075150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 075	NK 180	78	A3300075180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 075	NK 240	78	A3300075240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 075	NK 320	78	A3300075320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 125	NK 60	125	A3300120060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
PSH 125	NK 80	125	A3300120080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

GTH, Mandrels, for self-fixing abrasive discs

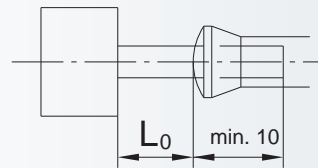
Ordering example: A250401830001



Packing unit:
5 pcs. per type,
from Ø 75 mm = 2 pcs. per type

Description	D mm	S mm	T mm	L mm	n max. (1/min)	Product-Number	recommended for	
GTH 018.03	18	3	11	30	20.000	A250401830001		■
GTH 030.03	30	3	12	30	12.500	A250403030001		■
GTH 030.06	30	6	12	40	12.500	A250403060001		■
GTH 045.06	45	6	11	40	10.000	A250404560001		■
GTH 060.06	60	6	13	40	8.000	A250406060001		■
GTH 075.06	75	6	15	40	6.000	A250407560001		■
GTH 120.06	120	6	20	25	4.000	A25041206		■
GTH 120.08	120	8	20	25	4.000	A25041208		■

The stated maximum operating speed only applies to a maximum overhang L_0 of 20 mm. Other overhang dimensions must be calculated separately.





Content

Description	Page
• Qualities and Applications	150
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• Fleece rolls	249
• FIS, Fibre Discs with slotted hole	250
• STF, Fibre Disc Backing Pad	251

High Performance marking

Ordering example: A38301150243

Packing unit:
10 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Information

SPR, Economy rolls

We supply economy rolls manufactured from flexible coated abrasive for off-hand application. The appropriate length can be cut from the roll.

SVB, Fleece pads and SVR, Fleece rolls

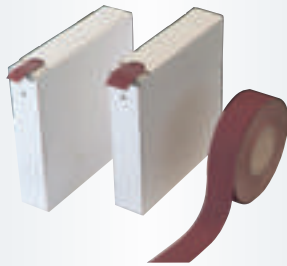
We supply abrasive fleece economy rolls and pads used off-hand or on vibratory finishing machines. These can be used wet or dry.

FIS, Fibre Discs

Fibre-backed discs FIS are used on angle grinders with a backing pad STF. We offer this very popular product in NK, ZK and Ceramic for universal application.

SPR, Economy Rolls, Aluminium Oxide

Ordering example: A3821025040



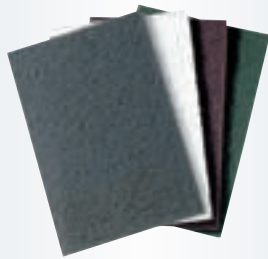
Packing unit:
1 pc. per type
NK = reg. Aluminium Oxide

Description	Grits	wide mm	long m	Product-Number	recommended for	
SPR 025	NK 40	25	50	A3821025040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 025	NK 60	25	50	A3821025060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 025	NK 80	25	50	A3821025080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 025	NK 100	25	50	A3821025100	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 025	NK 120	25	50	A3821025120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 025	NK 150	25	50	A3821025150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 025	NK 180	25	50	A3821025180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 025	NK 240	25	50	A3821025240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 025	NK 320	25	50	A3821025320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 025	NK 400	25	50	A3821025400	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 040	NK 40	40	50	A3821040040	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 040	NK 60	40	50	A3821040060	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 040	NK 80	40	50	A3821040080	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 040	NK 100	40	50	A3821040100	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 040	NK 120	40	50	A3821040120	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 040	NK 150	40	50	A3821040150	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 040	NK 180	40	50	A3821040180	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 040	NK 240	40	50	A3821040240	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 040	NK 320	40	50	A3821040320	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SPR 040	NK 400	40	50	A3821040400	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

LUKAS Economy Rolls with their great grinding characteristics help to manage your manual grinding at optimum level.

SVB, Fleece pads

Ordering example: A380115023011



Packing unit:
10 pcs. per type
A = reg. Aluminium Oxide
C = Silicon carbide

Description	Quality	Type	wide mm	long mm	Product-Number	recommended for	
SVB 150230	A Medium	red-brown	150	230	A380115023011	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SVB 150230	A Fine	green	150	230	A380115023012	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SVB 150230	A Very Fine	red-brown	150	230	A380115023013	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SVB 150230	C Ultra Fine	grey	150	230	A380115023024	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■

LUKAS-fleece pads are used to remove corrosion and stain from metal surfaces as well as to clean and polish surfaces of any kind of material.

SVR, Fleece rolls

Ordering example: A382011501012



Packing unit:
1 pc. per type
A = reg. Aluminium Oxide

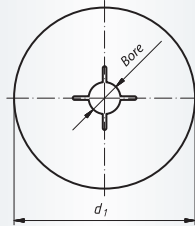
Description	Quality	Type	wide mm	long m	Product-Number	recommended for	
SVR 115	A Fine	green	115	10	A382011501012	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SVR 115	A Very Fine	red-brown	115	10	A382011501013	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■

LUKAS-fleece rolls are used to remove corrosion and stain from metal surfaces as well as to clean and polish surfaces of any kind of material.

High Performance

FIS, Fibre Disc with slotted hole

Ordering example: A38301150243

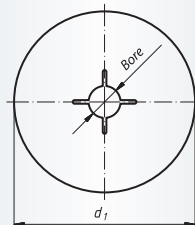


Packing unit:
50 pcs. per type
 V_{max} : 80 m/s
ISO 16057
Ceramic = ceramic grain

Description	Grits	d ₁ mm	Bore mm	n max. (1/min)	Product-Number	recommended for	
NEW FIS 115	Ceramic 24	115	22	13.000	A38301150243	1 2 3 4 5 6 7	■
NEW FIS 115	Ceramic 36	115	22	13.000	A38301150363	1 2 3 4 5 6 7	■
NEW FIS 115	Ceramic 60	115	22	13.000	A38301150603	1 2 3 4 5 6 7	■
NEW FIS 115	Ceramic 80	115	22	13.000	A38301150803	1 2 3 4 5 6 7	■
NEW FIS 125	Ceramic 24	125	22	12.000	A38301250243	1 2 3 4 5 6 7	■
NEW FIS 125	Ceramic 36	125	22	12.000	A38301250363	1 2 3 4 5 6 7	■
NEW FIS 125	Ceramic 60	125	22	12.000	A38301250603	1 2 3 4 5 6 7	■
NEW FIS 125	Ceramic 80	125	22	12.000	A38301250803	1 2 3 4 5 6 7	■
NEW FIS 180	Ceramic 24	180	22	8.500	A38301800243	1 2 3 4 5 6 7	■
NEW FIS 180	Ceramic 36	180	22	8.500	A38301800363	1 2 3 4 5 6 7	■

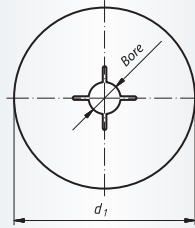
FIS, Fibre Disc with slotted hole

Ordering example: A38301150241



Packing unit:
50 pcs. per type
 V_{max} : 80 m/s
ISO 16057
NK = reg. Aluminium Oxide
ZK = Zirconia Alum. Oxide

Description	Grits	d ₁ mm	Bore mm	n max. (1/min)	Product-Number	recommended for	
FIS 115 A	NK	115	22	13.000	A38301150241	1 2 3 4 5 6 7 8	■
FIS 115 A	NK	115	22	13.000	A38301150361	1 2 3 4 5 6 7 8	■
FIS 115 A	NK	115	22	13.000	A38301150401	1 2 3 4 5 6 7 8	■
FIS 115 A	NK	115	22	13.000	A38301150501	1 2 3 4 5 6 7 8	■
FIS 115 A	NK	115	22	13.000	A38301150601	1 2 3 4 5 6 7 8	■
FIS 115 A	NK	115	22	13.000	A38301150801	1 2 3 4 5 6 7 8	■
FIS 115 A	NK	115	22	13.000	A38301151201	1 2 3 4 5 6 7 8	■
FIS 115 Z	ZK	115	22	13.000	A38301150242	2 3 4 5 7	■
FIS 115 Z	ZK	115	22	13.000	A38301150362	2 3 4 5 7	■
FIS 115 Z	ZK	115	22	13.000	A38301150402	2 3 4 5 7	■
FIS 115 Z	ZK	115	22	13.000	A38301150602	2 3 4 5 7	■
FIS 115 Z	ZK	115	22	13.000	A38301150802	2 3 4 5 7	■
FIS 125 A	NK	125	22	12.000	A38301250241	1 2 3 4 5 6 7 8	■
FIS 125 A	NK	125	22	12.000	A38301250361	1 2 3 4 5 6 7 8	■

FIS, Fibre Disc with slotted hole
Ordering example: A38301250401

Packing unit:

50 pcs. per type

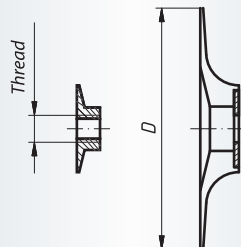
 V_{max} : 80 m/s

ISO 16057

NK = reg. Aluminium Oxide

ZK = Zirconia Alum. Oxide

Description	Grits	d ₁ mm	Bore mm	n max. (1/min)	Product-Number	recommended for	
FIS 125 A	NK	125	22	12.000	A38301250401	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 125 A	NK	125	22	12.000	A38301250501	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 125 A	NK	125	22	12.000	A38301250601	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 125 A	NK	125	22	12.000	A38301250801	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 125 Z	ZK	125	22	12.000	A38301250242	② ③ ④ ⑤ ⑦	■
FIS 125 Z	ZK	125	22	12.000	A38301250362	② ③ ④ ⑤ ⑦	■
FIS 125 Z	ZK	125	22	12.000	A38301250402	② ③ ④ ⑤ ⑦	■
FIS 125 Z	ZK	125	22	12.000	A38301250602	② ③ ④ ⑤ ⑦	■
FIS 125 Z	ZK	125	22	12.000	A38301250802	② ③ ④ ⑤ ⑦	■
FIS 150 A	NK	150	22	10.000	A38301500401	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 150 A	NK	150	22	10.000	A38301500601	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 180 A	NK	180	22	8.500	A38301800161	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 180 A	NK	180	22	8.500	A38301800241	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 180 A	NK	180	22	8.500	A38301800361	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 180 A	NK	180	22	8.500	A38301800401	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 180 A	NK	180	22	8.500	A38301800501	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 180 A	NK	180	22	8.500	A38301800601	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
FIS 180 A	NK	180	22	8.500	A38301800801	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■


STF, Fibre Disc Backing-Pad with threaded flange
Ordering example: A38311151

Packing unit:

1 pc. per type

ISO 15636

Description	D mm	Thread	n max. (1/min)	Product-Number	recommended for	
STF 115	113	M 14	13.000	A38311151		■
STF 125	123	M 14	12.000	A38311251		■
STF 150	148	M 14	10.000	A38311501		■
STF 180	172	M 14	8.500	A38311701		■

The Backing-Pads are supplied with different hardnesses for universal application; the medium hardness is suitable for nearly all applications. Other hardnesses are available for snagging and profiling operations.

252

AS-cleaning fleece



Content

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• ASVS, abrasive discs for flexible boring and drilling machines	254
• ASB, mounting arbor for ASVS, incl. spring washer and nut	254
• ASVT, for right angle grinders, with reinforced fibre backing	255

High Performance marking

High Performance
<i>Ordering example:</i>
Packing unit: 1 pcs. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.

Information

General Information

Our AS surface preparation fleece consists of a coarse Polyamide fleece impregnated with aggressive abrasive grit particles.

Recommendations for use

Products using our AS surface preparation fleece are ideally suited for the following applications:

- removal of paint and adhesives
- removal of cement and concrete residues
- de-rusting, restoring and polishing of a wide variety of surfaces
- graining and the finishing of wood
- de-rusting and preparation work on boats and ships, eg, removing barnacles

- surface preparation of floors and various applications for car-body repair work
- preparation work on welding seams – before and after welding

Safety regulations

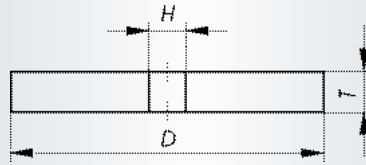
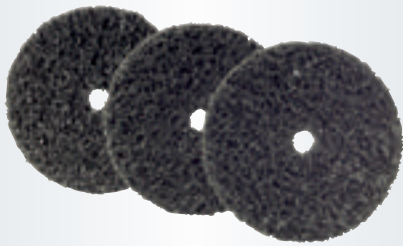
Please take care that our recommended cutting speed is not exceeded.

Characteristics

- less generation heat
- “soft” grinding action
- no glazing/loading
- no damage to workpieces

ASVS, abrasive discs for flexible boring and drilling machines

Ordering example: A22900601201

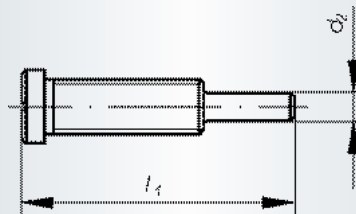


Packing unit:
10 pcs. per type,
from Ø 150 mm = 5 pcs. per type

Description	D mm	T mm	H mm	n recom. (1/min)	n max. (1/min)	Retaining bolt	Product-Number	recommended for	
ASVS 060	60	13	10	8.000	9.500	ASB 6	A22900601201	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
ASVS 100	100	13	10	5.000	5.700	ASB 6	A22901001201	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
ASVS 125	125	13	10	4.000	4.500	ASB 8	A22901251201	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
ASVS 150	150	13	10	3.000	3.800	ASB 8	A22901501201	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■

ASB, mounting arbor for ASVS, incl. spring washer and nut

Ordering example: A1610021007301



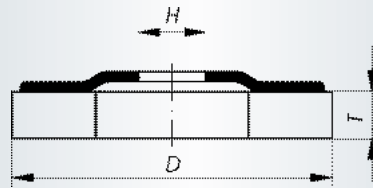
Packing unit:
1 pc. per type

Description	d ₂ mm	l ₁ mm	Product-Number	recommended for	
ASB 06	6	60	A1610021007301		■
ASB 08	8	60	A1610021007302		■



ASVT, for right angle grinders, with reinforced fibre backing

Ordering example: A270111500114



Packing unit:
10 pcs. per type

Description	D mm	T mm	H mm	n recom. (1/min)	n max. (1/min)	Product-Number	recommended for	
ASVT 115	115	13	22,3	4.000	4.900	A270111500114	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■
ASVT 125	125	13	22,3	4.500	4.500	A270112500114	① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨	■

Usable without supporting-plate on adjustable and slow-speed angle grinders.

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Ultrahard Grinding Tools



Content

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• CBN/Diamond Grinding Tools, vitrified bonded	259
• CBN/Diamond Grinding Tools, electro-plated	264

High Performance marking

Ordering example:

Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading
Further information on page 4.

Technical Information

General

In addition to the more conventional types of abrasive grain, e.g. aluminium oxide – silicon carbide with their further developments of zirconia, single crystal aluminium oxide and seeded gel, this group of superabrasives is becoming of ever increasing importance. Ultrahard abrasive grain is a natural or synthetic product; “D” is the LUKAS designation for diamond grit and “B” for cubic-boron nitride-CBN. CBN, the most expensive grit type, is primarily used when grinding hardened steel.

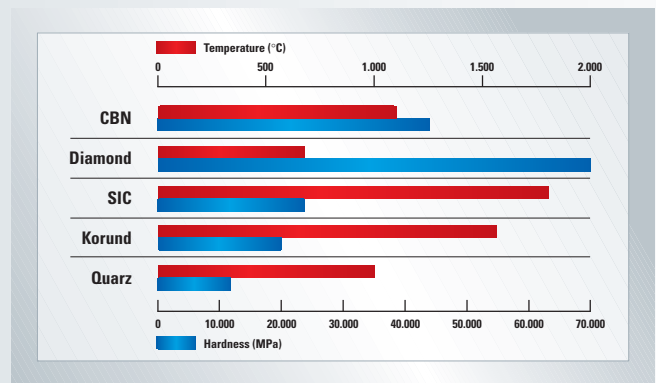
Diamond is used for a wide range of hard materials (except steel), eg, carbides, oxides, nitrides and even diamond itself. Various types of plastic and rubber can also be economically machined.

Hardness

The ultrahard grain is considerably more expensive than conventional abrasive. Due to the extreme hardness, greater performance can be achieved when used in conjunction with modern manufacturing techniques; this can produce significant cost reductions.

Micro-Hardness – Temperature stability

The extreme differences in micro-hardness can be identified in the adjoining diagram.



Technical Information

Bond

The following bonds are used for the production of LUKAS-ultrahard abrasives:

Vitrified bond

Due to the substantial layer of usable abrasive, vitrified bonded wheels give long tool life. They can be easily dressed and require little grinding pressure. These tools are manufactured in a variety of dimensions and in different structures. They must be used with coolant. A fine surface finish can be achieved.

Electro-Plated

An electro-plated bond provides a low cost tool. Electro-plating allows the manufacture of a large variety of profiles. They can be used wet or dry; coolant improves tool life.

Types of grain

Basically, we must differentiate between mono and polycrystalline types of grain. In the case of diamond, it must also be decided whether to use natural or synthetic types. Many applications require a grain coating of nickel or titanium. The physical and chemical properties, including the shape of individual grit particles,

are the decisive factors when selecting the most suitable grit type. LUKAS vitrified bonded CBN-/diamond tools are identified by a quality code which contains all data determining the specification. The customer also receives this basic information regarding grit size and CBN-/diamond concentration.

Based on ISO 6106 and the corresponding FEPA standard, the grit sizes have been categorized as stated below. Contrary to the grit size classification of conventional grain, cubic-boron nitride and diamond grain are specified based on the following: the smaller the number, the finer the grit – the larger the number, the coarser the grit.

The prefix "B" specifies CBN, the prefix "D" denotes Diamond; the US equivalents in Standard Mesh are also shown below.

Grit Size based on ISO 6106 resp. FEPA and US-Standard

CBN	Diamond	Grit size μm	US-Standard Mesh
B 46	D 46	38 – 45	325/400
B 54	D 54	45 – 53	270/325
B 64	D 64	53 – 63	230/270
B 76	D 76	63 – 75	200/230
B 91	D 91	75 – 90	170/200
B 107	D 107	90 – 106	140/170
B 126	D 126	106 – 125	120/140
B 151	D 151	125 – 150	100/120
B 181	D 181	150 – 180	80/100
B 213	D 213	180 – 212	70/80
B 251	D 251	212 – 250	60/70

When selecting the grit size, it must be remembered that ultrahard abrasive grain gives a coarser surface finish than conventional grit types; this is due to the extremely low wear rate. The most widely used grit sizes lie between 54 and 91 microns.

Technical Information

Shanks

The various types of CBN mounted points in a vitrified bond are, without exception, supplied with tungsten carbide shanks; carbide has a module of elasticity three times greater than steel.

The elasticity module denotes the extent to which a body deforms under pressure. Carbide has a high module of elasticity and therefore the deflection of the tools resulting from grinding pressure is kept to a minimum.

There are considerable advantages, eg:

- Reduction of spark-out time; this means a shorter grinding cycle
- Considerable improvement in tool life
- Reduction in tooling and setting costs
- Improvement in surface finish of the workpiece
- Improvement in workpiece geometry

The following table illustrates the rigidity of steel and tungsten carbide shank material in relation to diameter and overhang. A 3 mm diameter steel shank with an overhang of 40 mm is used as the base rigidity value of „1“.

Dressing

There are two main reasons for dressing CBN/diamond tools:

1. To achieve geometrical accuracy.
2. To prevent dulling of the abrasive grain and to free the surface from loading, ie, to maintain a free-cutting tool.

These tools must be dressed wet with ample coolant!

Various dressing methods are used depending on the hardness of the tool. The softer wheel qualities can be dressed with either a single point diamond dresser, or a rotary silicon carbide/diamond wheel. Dressing infeeds are typically in the range of 0.2 mm.

The single point diamond dresser cannot be used for the „medium hard“ qualities. Dressing infeed is in the range of 50 – 200 µm. The harder specifications require dressing after only 50 – 500 workpieces depending on grinding parameters used. Dressing infeed is normally very small, ie, in the range of 2 to 10 microns.

A rotary diamond wheel dresser is used. Very hard qualities which require heavy dressing, need an additional dressing operation to „sharpen“ the tool; a soft silicon carbide rotary dresser is used. The cutting speed should not exceed 10 m/s.

Relative rigidity of steel/tungsten carbide shank

Steel shank 3 mm x 40 mm overhang represents the base rigidity value „1“

overhang mm	shank							
	3		6		8		10	
	Steel	TC	Steel	TC	Steel	TC	Steel	TC
10	64	183	1024	2932	3237	9266	7900	22635
20	8	23	128	367	405	1159	988	2828
40	1	2,9	16	46	51	145	123	354

unstable very stable

Technical Information

Selection of Qualities/CBN/Diamond abrasive tools, vitrified bonded

LUKAS vitrified bonded diamond tools are identified by a quality code which contains all data determining the specification.

Please see below some typical specifications:

Quality code CBN	Size	Concentration	Characteristic
53.5*	B 46	C 175	medium
29*	B 54	C 150	universal
34.5	B 54	C 170	
71.1	B 54	C 185	
50.3*	B 64	C 200	very hard
70.7	B 76	C 190	hard
57.7*	B 76	C 175	fine
54.8*	B 91	C 140	medium
70.1	B 91	C 185	hard
46.3*	B 151	C 175	medium

Quality code Diamond	Size	Concentration	Characteristic
15 D	B 91	C 120	
15.4 D	B 91	C 165	hard
18 D*	B 151	C 120	

* = widely used specifications

LFG-bond = Low Force Grinding

We can recommend a suitable quality following receipt of application details.

Selection of mounted point dimensions

Ordering example: CBN-Mounted Point, Quality 50.3, D 11 mm, Shank 8 x 70

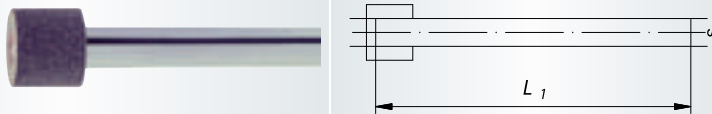
* shank length, please see below

Diameter D	In Increments of	Width T	Shank options*/Diameter S
1,8 – 2,0 mm	0,1 mm	3 mm	2 – 3 mm
2,0 – 2,6 mm	0,1 mm	4 mm	2 – 3 mm
3,0 – 5,0 mm	0,1 mm	5 mm	2 – 5 mm
5,1 – 10,0 mm	0,1 mm	as D taken to nearest mm	4 – 10 mm
10,0 – 40,0 mm	1 mm	10 mm	4 – 12 mm

Chart for Tungsten carbide shanks

Ordering example: CBN-Mounted Point, Quality 50.3, D 11 mm, Shank 8 x 70


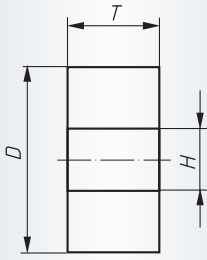
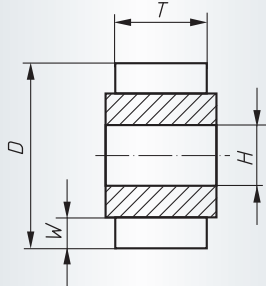
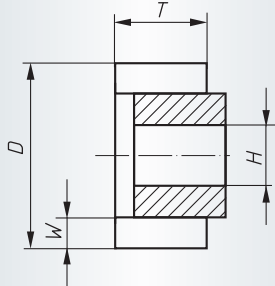
Shanks can be re-used



Shank-diameter S	aShank length (blank length) L ₁ mm									
	30	40	50	60	70	80	100	120	130	150
2 mm										
2,5 mm										
3 mm										
4 mm										
5 mm										
6 mm										
8 mm										
10 mm										
12 mm										

Bore and face grinding possible – see drawing above.

Selection of wheel dimensions and shapes

	 <p>Type 1 unfinished (as fired)</p>	 <p>Type 2 plain steel core</p>	 <p>Type 3 steel core, 3 mm recessed</p>
---	---	---	---

Due to technical reasons, the smallest dimensions for W is 5 mm.

Dimensions

Ordering example: CBN Wheel, Quality B 54 C 150 29, Type 3: D 35 x 10 mm, H 8 mm

When ordering please specify bore size „H“.

Minimum order quantity 10 pieces

Dimension D	In increments of D	Width		
14 to 25 mm	1 mm	10 mm	12 mm	15 mm
25 to 40 mm	5 mm	10 mm	12 mm	15 mm




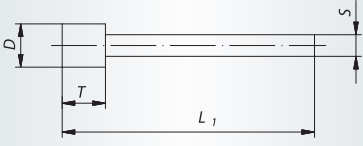
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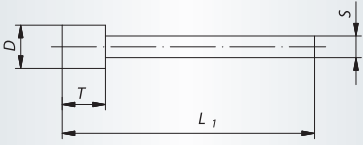
High Performance marking

High Performance	
<i>Ordering example:</i>	
Packing unit: 1 pc. per type	The High Performance products are additionally marked on the table with the High Performance heading <i>Further information on page 4.</i>

Diamond points cylindrical shape
Ordering example: A34013050126

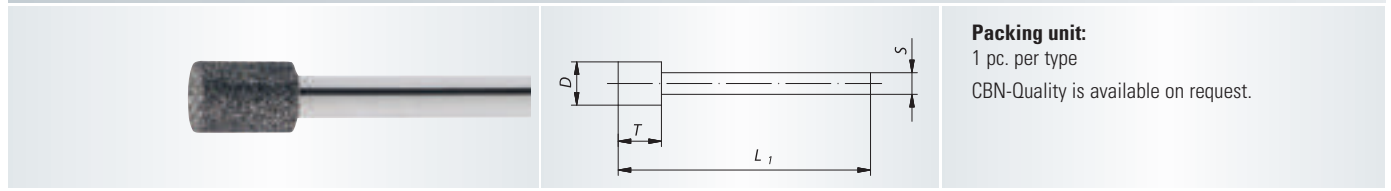
Description		grit sizes	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for										
		 							Packing unit: 1 pc. per type									
DS 01003	D 126	1	3	3	40	A34013050126	①	②	③	④	⑤	⑦	⑨	■				
DS 01503	D 126	1,5	3	3	40	A34013051126	①	②	③	④	⑤	⑦	⑨	■				
DS 02005	D 126	2	5	3	40	A34013052126	①	②	③	④	⑤	⑦	⑨	■				
DS 02505	D 126	2,5	5	3	40	A34013053126	①	②	③	④	⑤	⑦	⑨	■				
DS 03005	D 126	3	5	3	40	A34013054126	①	②	③	④	⑤	⑦	⑨	■				
DS 03505	D 126	3,5	5	3	40	A3401305412601	①	②	③	④	⑤	⑦	⑨	■				
DS 04005	D 126	4	5	3	40	A34013055126	①	②	③	④	⑤	⑦	⑨	■				
DS 04505	D 126	4,5	5	3	40	A3401305512601	①	②	③	④	⑤	⑦	⑨	■				
DS 05006	D 126	5	6	3	40	A34013056126	①	②	③	④	⑤	⑦	⑨	■				
DS 06007	D 126	6	7	3	40	A34013057126	①	②	③	④	⑤	⑦	⑨	■				
DS 08010	D 126	8	10	6	60	A34013058126	①	②	③	④	⑤	⑦	⑨	■				
DS 10010	D 126	10	10	6	60	A34013059126	①	②	③	④	⑤	⑦	⑨	■				
DS 12015	D 126	12	15	6	60	A34013060126	①	②	③	④	⑤	⑦	⑨	■				

CBN points, cylindrical shape
Ordering example: A34033050126

Description		grit sizes	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for										
		 							Packing unit: 1 pc. per type									
CS 01003	B 126	1	3	3	40	A34033050126			③	④					■			
CS 01503	B 126	1,5	3	3	40	A34033051126			③	④					■			
CS 02005	B 126	2	5	3	40	A34033052126			③	④					■			
CS 02505	B 126	2,5	5	3	40	A34033053126			③	④					■			
CS 03005	B 126	3	5	3	40	A34033054126			③	④					■			
CS 03505	B 126	3,5	5	3	40	A3403305412601			③	④					■			
CS 04005	B 126	4	5	3	40	A34033055126			③	④					■			
CS 04505	B 126	4,5	5	3	40	A3403305512601			③	④					■			
CS 05006	B 126	5	6	3	40	A34033056126			③	④					■			
CS 06007	B 126	6	7	3	40	A34033057126			③	④					■			
CS 08010	B 126	8	10	6	60	A34033058126			③	④					■			
CS 10010	B 126	10	10	6	60	A34033059126			③	④					■			
CS 12015	B 126	12	15	6	60	A34033060126			③	④					■			

Diamond points using solid carbide shanks, cylindrical shape

Ordering example: A340202305126

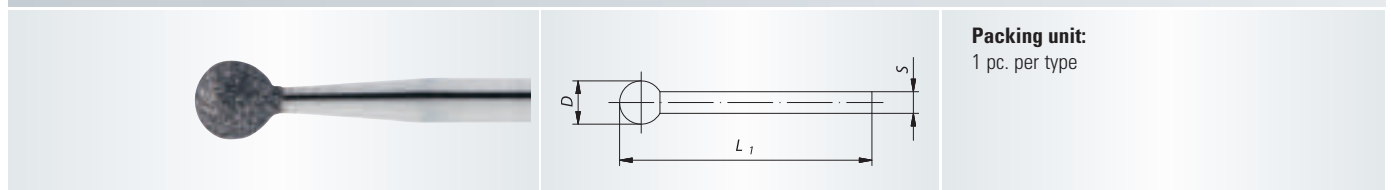


Packing unit:
1 pc. per type
CBN-Quality is available on request.

Description	grit sizes	D mm	T mm	S mm	L ₁ mm	Product-Number	recommended for	
DSH 02303	D 126	2,3	3	2	75	A340202305126	① ② ③ ④ ⑤ ⑦ ⑨	■
DSH 03304	D 126	3,3	4	3	75	A340203303126	① ② ③ ④ ⑤ ⑦ ⑨	■
DSH 04305	D 126	4,3	5	4	75	A340204305126	① ② ③ ④ ⑤ ⑦ ⑨	■
DSH 06307	D 126	6,3	7	6	75	A340206307126	① ② ③ ④ ⑤ ⑦ ⑨	■
DSH 08310	D 126	8,3	10	8	75	A340208310126	① ② ③ ④ ⑤ ⑦ ⑨	■
DSH 10310	D 126	10,3	10	10	75	A340210310126	① ② ③ ④ ⑤ ⑦ ⑨	■

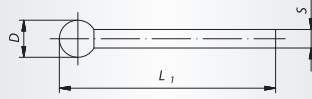
Diamond points, spherical shape

Ordering example: A34013090126

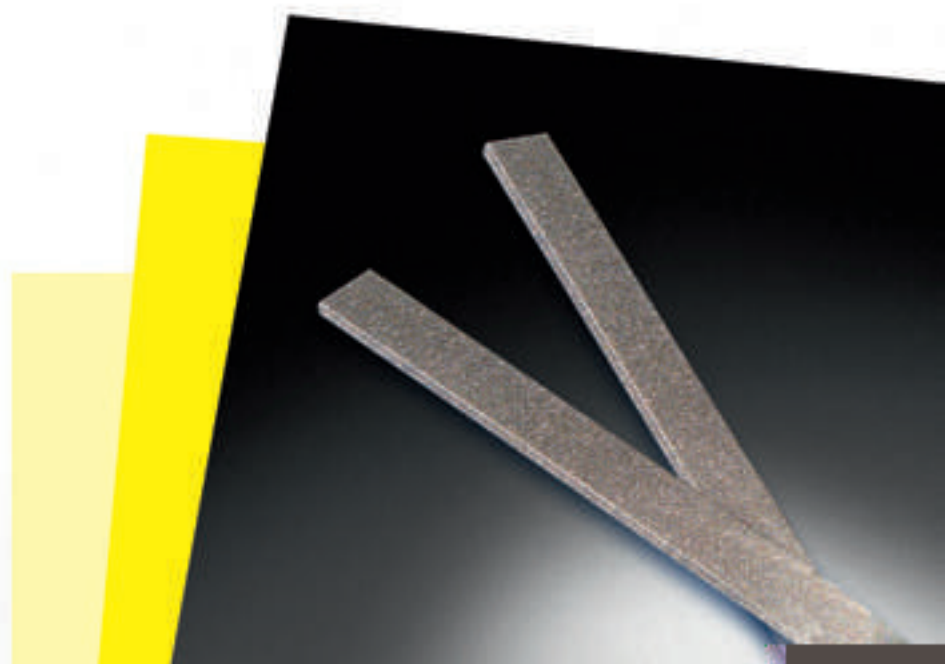


Packing unit:
1 pc. per type

Description	grit sizes	D mm	S mm	L ₁ mm	Product-Number	recommended for	
DSK 02020	D 126	2	3	40	A34013090126	① ② ③ ④ ⑤ ⑦ ⑨	■
DSK 03030	D 126	3	3	40	A34013091126	① ② ③ ④ ⑤ ⑦ ⑨	■
DSK 04040	D 126	4	3	40	A34013092126	① ② ③ ④ ⑤ ⑦ ⑨	■
DSK 05050	D 126	5	3	40	A34013093126	① ② ③ ④ ⑤ ⑦ ⑨	■
DSK 06060	D 126	6	3	40	A34013094126	① ② ③ ④ ⑤ ⑦ ⑨	■
DSK 08080	D 126	8	6	60	A34013095126	① ② ③ ④ ⑤ ⑦ ⑨	■

CBN points, spherical shape
Ordering example: A34033090126

Packing unit:
1 pc. per type

Description	grit sizes	D mm	S mm	L ₁ mm	Product-Number	recommended for																	
CSK 02020	B 126	2	3	40	A34033090126			③	④														■
CSK 03030	B 126	3	3	40	A34033091126			③	④														■
CSK 04040	B 126	4	3	40	A34033092126			③	④														■
CSK 05050	B 126	5	3	40	A34033093126			③	④														■
CSK 06060	B 126	6	3	40	A34033094126			③	④														■
CSK 08080	B 126	8	6	60	A34033095126			③	④														■



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High Performance marking

Ordering example:



Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading

Further information on page 4.









Diamond files for off-hand filing machines

Ordering example: A34003122126

Description		Available profiles	Formen-übersicht (Zeichnung)	grit sizes	Cross section mm	L ₂ mm	L ₁ mm	Product-Number	Packing unit: 1 pc. per type									recommended for
DF 3122	flat, one side coated		D 126	4 x 1	15	50	A34003122126	①	②	③	④	⑤	⑦	⑨	■			
DF 3130	round		D 126	4	15	50	A34003130126	①	②	③	④	⑤	⑦	⑨	■			

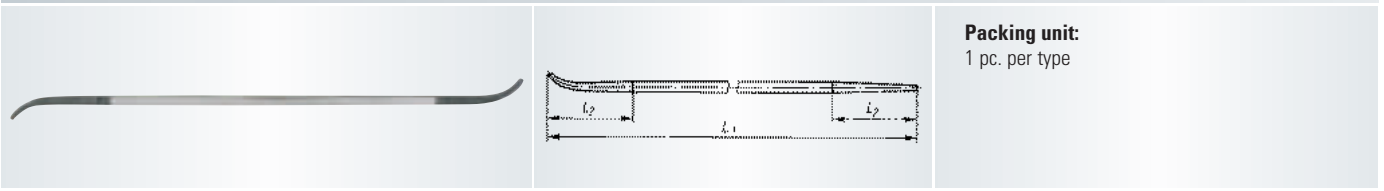
Diamond needle files

Ordering example: A34003140091





Description		Available profiles	Formen-übersicht (Zeichnung)	grit sizes	Cross section mm	L ₂ mm	L ₁ mm	Product-Number	Packing unit: 1 pc. per type									recommended for
DF 3140	flat		D 91	5,0 x 1,4	70	140	A34003140091	①	②	③	④	⑤	⑦	⑨	■			
DF 3140	flat		D 126	5,0 x 1,4	70	140	A34003140126	①	②	③	④	⑤	⑦	⑨	■			
DF 3142	triangular		D 91	3,5 x 3,5	70	140	A34003142091	①	②	③	④	⑤	⑦	⑨	■			
DF 3142	triangular		D 126	3,5 x 3,5	70	140	A34003142126	①	②	③	④	⑤	⑦	⑨	■			
DF 3143	square		D 126	2,5 x 2,5	70	140	A34003143126	①	②	③	④	⑤	⑦	⑨	■			
DF 3144	half-round		D 126	5,2 x 1,9	70	140	A34003144126	①	②	③	④	⑤	⑦	⑨	■			
DF 3145	round		D 126	3	70	140	A34003145126	①	②	③	④	⑤	⑦	⑨	■			
DF 3146	knife		D 126	5,0 x 1,4	70	140	A34003146126	①	②	③	④	⑤	⑦	⑨	■			

Diamond files, Rifflers

Ordering example: A34003110126



Packing unit:
1 pc. per type

Description	Available profiles	Formen-übersicht (Zeichnung)	grit sizes	Cross section mm	L ₂ mm	L ₁ mm	Product-Number	recommended for								
								1	2	3	4	5	7	9	■	
DF 3110	bird tongue		D 126	4 x 2	25	150	A34003110126	①	②	③	④	⑤	⑦	⑨	■	
DF 3111	flat		D 126	3 x 1,5	25	150	A34003111126	①	②	③	④	⑤	⑦	⑨	■	
DF 3112	square		D 126	2 x 2	25	150	A34003112126	①	②	③	④	⑤	⑦	⑨	■	
DF 3113	triangular		D 126	3	25	150	A34003113126	①	②	③	④	⑤	⑦	⑨	■	



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High Performance marking

High Performance

Ordering example:

Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading
Further information on page 4.

Technical Information

General

High performance and low air consumption are the major features of LUKAS air tools. The robust vane-motors can be stopped under load without causing any damage. Speed governors are used to prevent running above the maximum free-running RPM. The tool design allows simple maintenance and service.

Air pressure

An air pressure of 0,63 MPa is recommended. Maximum performance can only be achieved with an adequate air supply. The internal diameter of the inlet hose must at least correspond to the nominal size stated in the tables.

Lubrication

The air tool must be connected to an air supply which contains an airline filter, lubricator and pressure regulator. The lubricator should be adjusted as per the operating instructions; this will guarantee a long and trouble-free tool life.

Oil must not be used in turbo driven machines.

Safety instruction

Only use mounted points and other tools which are safe and permissible to be operated at the max. RPM as stated on the air tool.

Turbo driven angle grinder – insulated

Ordering example: A3993202212001



Length: approx. 295 mm
Weight: approx. 1,8 kg
Peripheral speed: max. 80 m/s
Wheel arbour: 22,23 mm
Drive: turbo

Description	Valve	Threaded spindle	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Tool max. Ø mm	Hose-nominal size (min.) mm	Product-Number	
AMIN 12-125 TWH	Lever	M 14	12.200	2,2	1,8	125	13	A3993202212001	■

NEW

Features:

- **Oil-free** and low maintenance
- Optimum weight for performance
- Low air consumption
- Vibration dampening on handle
- Excellent safety and reliability
- Tool-free setting of wheel guard
- Spindle emergency stop button
- Tool-free wheel change possible

Included with the machine:

Connector DN 10, R 1/2", wheel guard and spanner

Special equipment:

Inlet hose including quick release coupling and connector DN 10

Suited to LUKAS tools:

Please take note of the relevant RPM stated on our packing material.

	Dimension	Page
Fibre Disc FIS	Ø 115 mm	250
Lamellar Flap Disc SLT (except SLTV/ M/ P and ASVT)	Ø 115 mm and 125 mm	155, 157, 159, 161, 162–167

Abrasive belt grinder – insulated

Ordering example: A3993302116



Length: approx. 359 mm
Height: approx. 130 mm
Weight: approx. 1,42 kg
Drive: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Belt peripheral speed m/s	Hose-nominal size mm	Product-Number	
NEW AMIN 16 BSH	Lever	16.000	0,5	0,55	22,5	10	A3993302116	■

Included with the machine:

an abrasive belt mounting arm for long belts in dimension 19 x 480 mm and spanner

Available ex-stock:

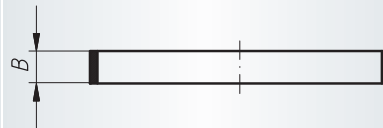
long belts 19 x 480 mm

Suited to LUKAS tools:

Please take note of the relevant RPM stated on our packing material.

SBL, Linishing belts

Ordering example: A3000190480040X



Packing unit:

100 pcs. per type
 Peripheral speed: 28 m/s
 NK = regular Aluminium Oxide
 ZK = Zirconia Aluminium Oxide

Description	Grits	B mm	Length mm	Lining	Product-Number	recommended for	
SBLX	NK 40	19	480	robust	A3000190480040X	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
NEW SBLT	ZK 40	19	480	robust-flexible	A3000190480040T01	① ② ③ ④ ⑤ ⑧	■
SBLX	NK 60	19	480	robust	A3000190480060X	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
NEW SBLT	ZK 60	19	480	robust-flexible	A3000190480060T01	① ② ③ ④ ⑤ ⑧	■
SBLX	NK 80	19	480	robust	A3000190480080X	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
NEW SBLT	ZK 80	19	480	robust-flexible	A3000190480080T01	① ② ③ ④ ⑤ ⑧	■
SBLX	NK 120	19	480	robust	A3000190480120X	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
NEW SBLT	ZK 120	19	480	robust-flexible	A3000190480120T01	① ② ③ ④ ⑤ ⑧	■

Abrasive belt grinder – insulated

Ordering example: A3993302113



Length: approx. 325 mm
Höhe: approx. 86 mm
Weight: approx. 1,16 kg
Drive: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Belt peripheral speed m/s	Hose-nominal size mm	Product-Number	
AMIN 30 BSH	Lever	30.000	0,3	0,45	28	6	A3993302113	■

Included with the machine:

an abrasive belt mounting arm for long belts in dimension 13 x 305 mm, inlet and exhaust air hoses plus silencer, collet for 6 mm, spanner

Extra equipment:

collets for Ø 3 mm, 4 mm, 5 mm, 1/8", 3/16", 1/4"

Available ex-stock:

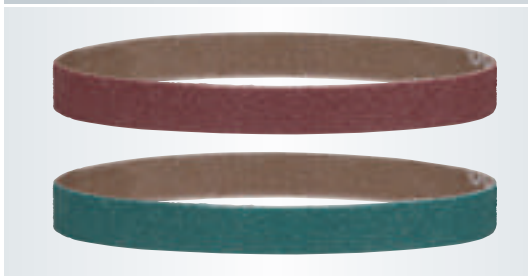
long belts 13 x 305 mm

Suited to LUKAS tools:

Please take note of the relevant RPM stated on our packing material.

SBL, Linishing belts

Ordering example: A3000130305040T01



Packing unit:

100 pcs. per type
 Peripheral speed: 28 m/s
 NK = regular Aluminium Oxide
 ZK = Zirconia Aluminium Oxide

Description	Grits	B mm	Length mm	Lining	Product-Number	recommended for	
SBLT	ZK 40	13	305	robust-flexible	A3000130305040T01	① ② ③ ④ ⑤ ⑧	■ NEW
SBLT	NK 60	13	305	robust-flexible	A3000130305060T	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBLX	NK 60	13	305	robust	A3000130305060X	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBLT	ZK 60	13	305	robust-flexible	A3000130305060T01	① ② ③ ④ ⑤ ⑧	■ NEW
SBLT	NK 80	13	305	robust-flexible	A3000130305080T	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBLX	NK 80	13	305	robust	A3000130305080X	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBLT	ZK 80	13	305	robust-flexible	A3000130305080T01	① ② ③ ④ ⑤ ⑧	■ NEW
SBLT	NK 120	13	305	robust-flexible	A3000130305120T	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBLX	NK 120	13	305	robust	A3000130305120X	① ② ③ ④ ⑤ ⑥ ⑦ ⑧	■
SBLT	ZK 120	13	305	robust-flexible	A3000130305120T01	① ② ③ ④ ⑤ ⑧	■ NEW

Straight grinder – insulated

Ordering example: A3993101112



Length: approx. 175 mm
Diameter: Ø 34,5 mm
Weight: approx. 0,87 kg
Drive: vane motor

	Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number	
NEW	AMIN 12-030 GD	Twist	12.000	0,3	0,49	6	8	A3993101112	■
NEW	AMIN 15-030 GD	Twist	15.000	0,3	0,52	6	8	A3993101115003	■

Included with the machine:

inlet and exhaust air hoses plus silencer, 6 mm collet and spanner

Extra equipment:

collets for Ø 3 mm, 4 mm, 5 mm, 1/8", 3/16", 1/4"

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
AMIN 12-030 GD		
Tungsten Carbide Burrs	up to Ø 20 mm	from 20
Burrs of HSS	up to Ø 8 mm	from 50
Mounted flap wheels SFV/M	Ø 40 mm	184, 187
Mounted flap wheels SFI	Ø 30 mm	179
Mounted flap wheels SFA	Ø 15 mm, 20 mm, 30 mm	180
Abrasive Belts SBZY	up to Ø 30 mm	from 205
Abrasive Belts SBKE	up to Ø 36 mm	212
Abrasive Rolls SRZY/SRKE	up to Ø 20 mm	from 217
Abrasive Caps SK...	up to Ø 21 mm	from 221
Abrasive Sleeves SHKE	0885, 1385, 1885	228
Grinding wheel SE4	Ø 80 mm	99
Polishing Points P1	4020	from 111
Polishing Points P2	Ø 20 mm	from 114
Polishing Points P5	Ø 40 mm	from 120
AMIN 15-030 GD		
Tungsten Carbide Burrs	up to Ø 16 mm	from 20
Burrs of HSS	up to Ø 6 mm	from 50
Mounted flap wheels SFI	Ø 30 mm	179
Mounted flap wheels SFA	Ø 15 mm, 20 mm, 30 mm	180
Abrasive Belts SBZY	up to Ø 25 mm	from 205
Abrasive Belts SBKE	up to Ø 29 mm	212
Abrasive Rolls SRZY/SRKE	up to Ø 20 mm	from 217
Abrasive Caps SK...	up to Ø 16 mm	from 221
Abrasive Sleeves SHKE	0885, 1385	228

Straight grinder – insulated

Ordering example: A3993102115



Length: approx. 310 mm
Diameter: Ø 52 mm
Weight: approx. 2,0 kg
Drive: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number	
AMIN 15-100 GH	Lever	15.300	1,0	1,0	6	12	A3993102115	■

Included with the machine:

inlet and exhaust air hoses plus silencer, 6 mm collet and spanner

Extra equipment:

collets for Ø 8 mm, 9 mm, 3/16", 1/4", 5/16"

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
Tungsten Carbide Burrs	up to Ø 16 mm	from 20
Burrs of HSS	up to Ø 6 mm	from 50
Mounted Points	up to Ø 60 mm	from 87
Polishing Points P2	up to Ø 16 mm	from 114
Polishing Points P3	up to Ø 16 mm	from 127
Polishing Points P6	up to Ø 30 mm	from 123
Mounted flap wheels SFL/SFE/SFB/SFT/SFC	up to Ø 40 mm	from 171
Abrasive Caps SK...	up to Ø 16 mm	from 221
Abrasive Rolls SR...	up to Ø 20 mm	from 217
Abrasive Belts SBZY	up to Ø 22 mm	from 205
Abrasive Belts SBKE	up to Ø 29 mm	212

Straight grinder with spindle extension – insulated

Ordering example: A3993102115002



Length: approx. 615 mm¹⁾
Diameter: Ø 47 mm
Weight: approx. 2,5 kg
Drive: vane motor
¹⁾ Dimension with two spindle extensions

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number
NEW AMIN 15-070 GH2L	Lever	15.300	0,7	0,7	6	10	A3993102115002

Included with the machine:

inlet and exhaust air hoses plus silencer, two spindle extensions (each 200 mm long), collet 6 mm and spanner

Extra equipment:

spindle extension: 200 mm (max. length of spindle extensions up to 1.200 mm), collets for Ø 8 mm, 9 mm, 3/16", 1/4", 5/16"



Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
Tungsten Carbide Burrs	up to Ø 16 mm	from 20
Burrs of HSS	up to Ø 6 mm	from 50
Mounted flap wheels SFL/B/T/E/C	up to Ø 40 mm	from 171
Mounted flap wheels SFI	Ø 30 mm	179
Mounted flap wheels SFA	Ø 15 mm, 20 mm, 30 mm	180
Abrasive Belts SBZY	up to Ø 25 mm	from 205
Abrasive Belts SBKE	up to Ø 29 mm	212
Abrasive Rolls SRZY/SRKE	up to Ø 20 mm	from 217
Abrasive Caps SK...	up to Ø 16 mm	from 221
Abrasive Sleeves SHKE	0885, 1385	228
Mounted Points Shank 6 mm	Ø 22 mm, Ø 40 mm	from 87
Polishing Points P1	Ø 32 mm	from 111
Polishing Points P2	Ø 16 mm	from 114

Straight grinder – insulated

Ordering example: A3993102115001



Length: approx. 310 mm
Diameter: Ø 52 mm
Weight: approx. 2,2 kg
Drive: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number		
AMIN 15-100 GHJ	Lever	15.300	1,0	1,0	6	12	A3993102115001	■	NEW
AMIN 19-100 GHJ	Lever	19.000	1,0	1,0	6	12	A3993102119002	■	NEW

Included with the machine:

inlet and exhaust air hoses plus silencer, collet 6 mm and spanner

Extra equipment:

collets for Ø 8 mm, 9 mm, 3/16", 1/4", 5/16"

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
AMIN 15-100 GHJ		
Tungsten Carbide Burrs	up to Ø 16 mm	from 20
Burrs of HSS	up to Ø 6 mm	from 50
Mounted flap wheels SFL/B/T/E/C	up to Ø 40 mm	from 171
Mounted flap wheels SFI	Ø 30 mm	179
Mounted flap wheels SFA	Ø 15 mm, 20 mm, 30 mm	180
Abrasive Belts SBZY	up to Ø 25 mm	from 205
Abrasive Belts SBKE	up to Ø 29 mm	212
Abrasive Rolls SRZY/SRKE	up to Ø 20 mm	from 217
Abrasive Caps SK...	up to Ø 16 mm	from 221
Abrasive Sleeves SHKE	0885, 1385	228
AMIN 19-100 GHJ		
Tungsten Carbide Burrs	up to Ø 12 mm	from 20
Burrs of HSS	up to Ø 4 mm	from 50
Abrasive Sleeves SHKE	0885	228
Abrasive Caps SK...	up to Ø 13 mm	from 221
Abrasive Rolls SRZY/SRKE	up to Ø 13 mm	from 217
Abrasive Belts SBKE	up to Ø 29 mm	212
Abrasive Belts SBZY	up to Ø 19 mm	from 205
Mounted flap wheels SFL	Ø 20 mm	from 171
Mounted Points	Ø 50 mm	from 87

Straight grinder – insulated

Ordering example: A3993102119



Length AMIN 19-100 GH: approx. 310 mm
Length AMIN 19-100 GHK: approx. 190 mm
Diameter: Ø 52 mm
Weight: approx. 2,0 kg
Drive: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number	
AMIN 19-100 GH	Lever	19.000	1,0	1,0	6	12	A3993102119	■
AMIN 19-100 GHK	Lever	19.000	1,0	1,0	6	12	A3993102119001	■

Included with the machine:

inlet and exhaust air hoses plus silencer, collet 6 mm and spanner

Extra equipment:

collets for Ø 8 mm, 9 mm, 3/16", 1/4", 5/16"

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
Tungsten Carbide Burrs	up to Ø 12 mm	from 20
Burrs of HSS	up to Ø 4 mm	from 50
Mounted Points	up to Ø 50 mm	from 87
Polishing Points P1	up to Ø 50 mm	from 111
Polishing Points P2	up to Ø 12 mm	from 114
Polishing Points P3	up to Ø 10 mm	from 127
Polishing Points P5	up to Ø 50 mm	from 120
Polishing Points P6	up to Ø 16 mm	from 123
Abrasive Caps SK...	up to Ø 13 mm	from 221
Abrasive Rolls SR...	up to Ø 13 mm	from 217
Abrasive Belts SBZY	up to Ø 19 mm	from 205
Abrasive Belts SBKE	up to Ø 29 mm	212

Straight grinder – insulated

Ordering example: A3993101120



Length: approx. 175 mm
Diameter: Ø 34,5 mm
Weight: approx. 0,87 kg
Drive: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number		
AMIN 20-030 GD	Twist	20.000	0,3	0,53	6	8	A3993101120	■	NEW
AMIN 20-030 GH	Lever	20.000	0,3	0,45	6	8	A3993102120	■	NEW
AMIN 23-030 GD	Twist	23.000	0,3	0,54	6	8	A3993101123	■	NEW

Included with the machine:


inlet and exhaust air hoses plus silencer, collet 6 mm and spanner

Extra equipment:

collets for Ø 3 mm, 4 mm, 5 mm, 1/8", 3/16", 1/4"

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
AMIN 20-030 GD/GH Tungsten Carbide Burrs Burrs of HSS Mounted flap wheels SFL Abrasive Belts SBZY Abrasive Belts SBKE Abrasive Rolls SRZY/SRKE Abrasive Caps SK... Abrasive Sleeves SHKE Mounted Points Shank 6 mm Polishing Points P2	up to Ø 12 mm up to Ø 4 mm Ø 20 mm up to Ø 19 mm up to Ø 29 mm up to Ø 13 mm up to Ø 13 mm 0885 Ø 22 mm, 25 mm, 32 mm, 40 mm Ø 13 mm	from 20 from 50 from 171 from 205 212 from 217 from 221 228 from 87 from 114
AMIN 23-030 GD Tungsten Carbide Burrs Burrs of HSS Mounted flap wheels SFL Abrasive Belts SBZY Abrasive Rolls SRZY/SRKE Abrasive Caps SK... Abrasive Sleeves SHKE Mounted Points Polishing Points P1 Polishing Points P2 Polishing Points P5	up to Ø 12 mm up to Ø 4 mm Ø 20 mm up to Ø 15 mm up to Ø 13 mm up to Ø 13 mm 0885 up to Ø 40 mm Ø 10–20 mm Ø 5–10 mm Ø 8–20 mm	from 20 from 50 from 171 from 205 from 217 from 221 228 from 87 from 111 from 114 from 120

Straight grinder – insulated Ordering example: A3993101130



Length: approx. 175 mm

Diameter: Ø 34,5 mm

Weight: approx. 0,72 kg

Drive: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number	
AMIN 30-030 GD	Twist	30.000	0,3	0,45	6	6	A3993101130	■
AMIN 30-030 GH	Lever	30.000	0,3	0,45	6	6	A3993102130	■

Included with the machine: inlet and exhaust air hoses plus silencer, collet 6 mm and spanner

Extra equipment: collets for Ø 3 mm, 3,25 mm, 4 mm, 5 mm, 1/8", 3/16", 1/4"

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
Tungsten Carbide Burrs	up to Ø 8 mm	from 22
Burrs of HSS	up to Ø 3 mm	from 50
Mounted Points	up to Ø 32 mm	from 87
Polishing Points P1	up to Ø 32 mm	from 111
Polishing Points P2	up to Ø 10 mm	from 114
Polishing Points P3	up to Ø 10 mm	from 127
Polishing Points P5	up to Ø 32 mm	from 120
Polishing Points P6	up to Ø 12 mm	from 123
Abrasive Caps SK...	up to Ø 10 mm	from 221
Abrasive Rolls SR...	up to Ø 12 mm	from 217
Abrasive Belts SBZY	up to Ø 12 mm	from 205

Straight grinder – insulated

Ordering example: A3993101145



Length: approx. 175 mm
Diameter: Ø 34,5 mm
Weight: approx. 0,72 kg
Drive: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number	
AMIN 45-030 GD	Twist	45.000	0,3	0,5	6	6	A3993101145	■
AMIN 45-030 GH	Lever	45.000	0,3	0,5	6	6	A3993102145	■

Included with the machine:

inlet and exhaust air hoses plus silencer, collet 6 mm and spanner

Extra equipment:

collets for Ø 3 mm, 3,25 mm, 4 mm, 5 mm, 1/8", 3/16", 1/4"

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
Tungsten Carbide Burrs	up to Ø 6 mm	from 22
Mounted Points	up to Ø 20 mm	from 87
Polishing Points P1	up to Ø 20 mm	from 111
Polishing Points P2	up to Ø 6 mm	from 114
Polishing Points P3	up to Ø 6 mm	from 127
Polishing Points P5	up to Ø 20 mm	from 120
Polishing Points P6	up to Ø 10 mm	from 123
Abrasive Caps SK...	up to Ø 5 mm	from 221
Abrasive Belts SBZY	up to Ø 12 mm	from 205

Straight grinder – insulated

Ordering example: A3993101155



Length: approx. 130 mm
Diameter: Ø 16 mm
Weight: approx. 0,22 kg
Drive: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number	
AMIN 55-011 GD	Twist	55.000	0,11	0,15	3	5	A3993101155	■

Included with the machine:

inlet and exhaust air hoses plus silencer, collet 3 mm and spanner

Extra equipment:

collets for Ø 2 mm, 3,25 mm, 1/8", 3/32"

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
Tungsten Carbide Burrs	up to Ø 5 mm	from 22
Mounted Points	up to Ø 16 mm	from 87
Polishing Points P1	up to Ø 16 mm	from 111
Polishing Points P2	up to Ø 5 mm	from 114
Polishing Points P5	up to Ø 16 mm	from 120
Abrasive Caps SK...	up to Ø 5 mm	from 221
Abrasive Belts SBZY	up to Ø 10 mm	from 205

Straight grinder – insulated

Ordering example: A3993101172



Length: approx. 154 mm
Diameter: Ø 27,5 mm
Weight: approx. 0,45 kg
Drive: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number	
AMIN 72-013 GD	Twist	72.000	0,13	0,21	3	5	A3993101172	■

Included with the machine:

inlet and exhaust air hoses plus silencer, collet 3 mm and spanner

Extra equipment:

collets for Ø 2 mm, 3,25 mm, 1/8", 3/32"

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
Tungsten Carbide Burrs	up to Ø 4 mm	from 22
Mounted Points	up to Ø 13 mm	from 87
Polishing Points P1	up to Ø 13 mm	from 111
Polishing Points P2	up to Ø 4 mm	from 114
Polishing Points P5	up to Ø 13 mm	from 120

Turbo driven straight grinder – insulated

Ordering example: A3993101170



Length: approx. 170 mm
Durchmesser: Ø 20,6 mm, Ø 41,5 mm
Weight: approx. 0,3 kg
Drive: turbo

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	Collet dia Ø mm	Hose-nominal size mm	Product-Number
NEW AMIN 70-025 TGD	Twist	70.000	0,25	0,43	3	6	A3993101170

Features:

- **Oil-free** and low maintenance
- Optimum weight for performance
- Integrated speed controller
- Automatic braking system to prevent overrun

Included with the machine:

inlet and exhaust air hoses plus silencer, collet 3 mm and spanner

Extra equipment:

collets for Ø 4 mm, 5 mm, 6 mm, 1/8", 3/16", 1/4"

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
Tungsten Carbide Burrs	up to Ø 4 mm	from 22
Mounted Points	up to Ø 13 mm	from 87
PolierPolishing Pointsstifte P1	up to Ø 8 mm	from 111
Polishing Points P2	up to Ø 4 mm	from 114
Polishing Points P5	up to Ø 6 mm	from 120

Straight grinder for grinding wheels tapered both sides

Ordering example: A79901021076



AM 07/100 GH

Length: approx. 530 mm
Durchmesser: Ø 74 mm
Weight: approx. 3,83 kg
Drive: vane motor

AM 11/080 GH

Length: approx. 498 mm
Durchmesser: Ø 62 mm
Weight: approx. 2,2 kg
Antriebsart: vane motor

Description	Valve	Idle speed min ⁻¹	Power consumption KW	Air consumption under load m ³ /min	max. grinding wheel Ø mm	tool fitting mm	Hose-nominal size mm	max. peripheral speed m/s	Product-Number		
AM 07/100 GH	Lever	7.600	1,5	1,6	125 x 25	20	13	50	A79901021076	■	NEW
AM 11/080 GH	Lever	10.700	1,1	1,3	80 x 20	20	13	50	A39901012115001	■	NEW

Included with the machine:

connector for inlet hose with internal Ø 13 mm, mounting flange to suit grinding wheels tapered both sides and spanner

These straight grinders in conjunction with LUKAS grinding wheels are ideal for removing weld seams and flashes on castings. Grinding with double-sided tapered fettling wheels is permitted without the use of a wheel guard, but only when the special flanges are used;

wheel blotters are not necessary. This type of machine is equipped with safety flanges. Both flanges cannot be loosened due to the rotational direction of the spindle; even if the machine becomes jammed, the wheel will not become loose.

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
AMIN 07/100 GH Grinding wheel SE4	Ø 100–125 mm, Bore 20 mm	99
AMIN 11/080 GH Grinding wheel SE4	Ø 80 mm, Bore 20 mm	99

Conditioning machine

Ordering example: A39956037037



Weight: approx. 2,9 kg

Description	Idle speed min ⁻¹	Power input W	Power output W	Max. tool diameter Ø mm	Tool width mm	Hole size mm	Product-Number	
LP 1503 VR	1.200–3.700	1.200	700	115	100	19	A39956037037	■

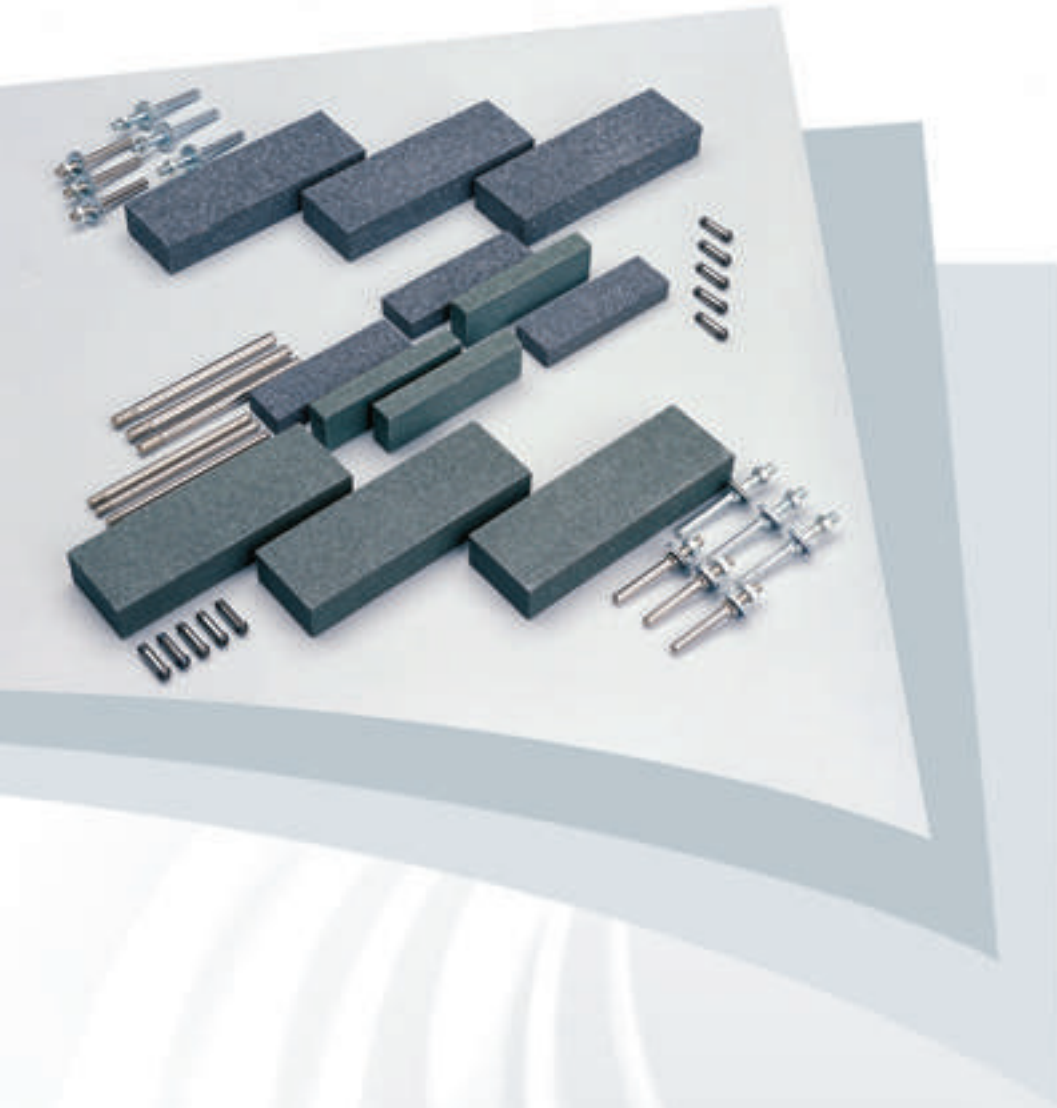
In conjunction with the appropriate tool, ideal for:

- Satin finishing
- Polishing
- Smoothing
- Matt finishing
- Conditioning
- Brushing
- Deburring

Special features:

Versatility due to electric motor allowing a wide selection of spindle speeds. In conjunction with the optimal tooling, a shadow free and uniform surface can be achieved on metal, wood and plastic.

Suited to LUKAS tools: Please take note of the relevant RPM stated on our packing material.	Dimension	Page
Polishing Roll P6	100 x 50 mm, 100 x 100 mm	124
Grinding Rolls SBZY	100 x 100 mm	213
Flap Rolls LSL, LSV, LSM, LSF	100 x 50 mm, 100 x 100 mm	from 200



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High Performance marking

High Performance

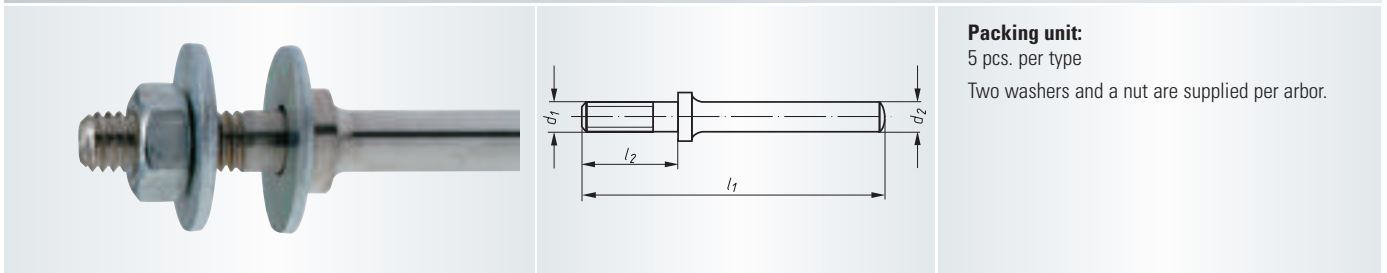
Ordering example:

Packing unit:
1 pc. per type

The High Performance products are additionally marked on the table with the High Performance heading
Further information on page 4.

Arbors for Felt Polishing Wheels

Ordering example: A1630780



Packing unit:

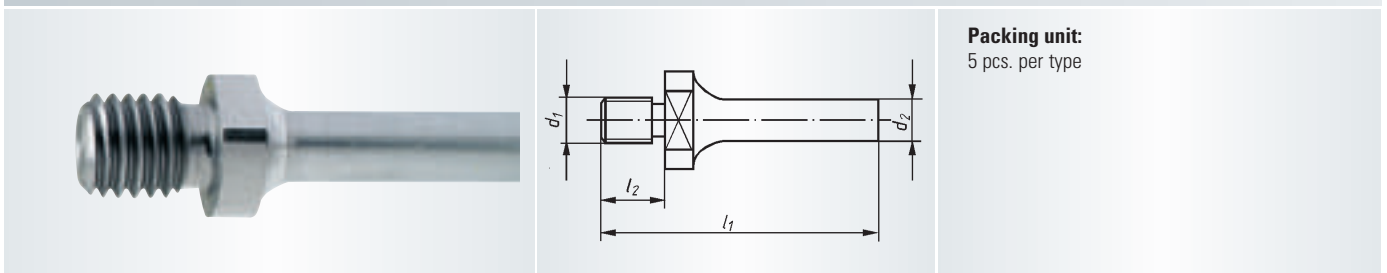
5 pcs. per type

Two washers and a nut are supplied per arbor.

Description	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	n max. (1/min)	Product-Number	recommended for	
ASB 780	M6	20	6	63	7.000	A1630780		■
ASB 781	M6	30	6	73	7.000	A1630781		■

Arbors for tools with internal thread

Ordering example: A16303422



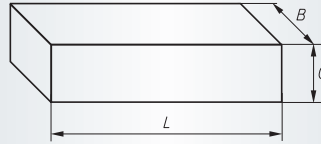
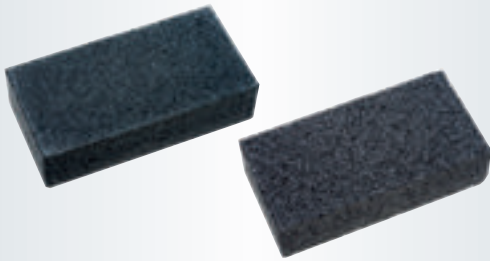
Packing unit:

5 pcs. per type

Description	d ₁ mm	l ₂ mm	d ₂ mm	l ₁ mm	Product-Number	recommended for	
ASB 342 B	M10	12	6	52	A16303422		■
ASB 342 C	M12	14	6	54	A16303423		■
ASB 342 D	M8	10	6	50	A16303424		■
ASB 344 B	M10	12	8	52	A16303442		■
ASB 344 C	M12	14	8	54	A16303443		■
ASB 345 B	M10	12	10	52	A16303452		■

Handstones

Ordering example: A204300000118



Packing unit:

5 pcs. per type

Further dimensions (see table below) and qualities on request.

Description	Quality	L mm	B mm	C mm	Product-Number	recommended for	
RU 1	SICGR 60 O V23/green=fine	50	25	15	A204300000118		9 ■
RU 1	SICDKL 24 O V23/dark=coarse	50	25	15	A204300000122		9 ■
RU 2	SICGR 60 O V23/green=fine	100	30	15	A204300000218		9 ■
RU 2	SICDKL 24 O V23/dark=coarse	100	30	15	A204300000222		9 ■
RU 3	SICGR 60 O V23/green=fine	100	50	25	A204300000318		9 ■
RU 3	SICDKL 24 O V23/dark=coarse	100	50	25	A204300000322		9 ■
RU 4	SICGR 60 O V23/green=fine	150	50	25	A204300000418		9 ■
RU 4	SICDKL 24 O V23/dark=coarse	150	50	25	A204300000422		9 ■
NEW RU 5	EKW 100 E (9) V40	150	25	16,5	A2043150251608	3	■
NEW RU 6	EKW 100 E (9) V40	200	50	25	A2043200502508	3	■

Available dimensions for handstones

Shape	length mm	width mm	height mm
	25	15	5 to 30
	48	19	5 to 30
	50	25	10 to 35
	100	30	10 to 35
	100	50	10 to 35
	120	10	5 to 35
	150	25	10 to 35
	150	50	10 to 35
	200	50	10 to 35
half-round	216	78	20 to 35
	150	13	5 to 35

Tool-sets
Ordering example: A12390010

Packing unit:

1 pc. per type

Assortment containing:

8 pcs. Burrs of HSS

8 pcs. Mounted points

3 pcs. Polishing points

6 pcs. Mounted flap wheels

1 pc. Technical brush

Outside dimension of box: 350 x 92 x 322 mm

Description	piece	Content	Product-Number	recommended for
WK 10	8 pcs.	HSS-Frässtife MFA 1225.06, Z1 + Z3 MFC 1225.06, Z1 + Z3 MFD 1210.06, Z1 + Z3 MFM 1225.06, Z1 + Z3	A12390010	
	8 pcs.	Mounted points ZY 0610.06, EKR ZY 1020.06, EKR ZY1632.06, EKR ZY1632.06, NK-BA-hard ZY 3208.06, NK-BA SP 2032.06, EKR KU 1616.06, EKR KU 3232.06, EKR		
	3 pcs.	Polishing points P2ZY 1320.06, grit 120 P2SP 1320.06, grit 120 KU 1616.06, grit 120		
	6 pcs.	Mounted flap wheels SFL 03010.06, grit 120 SFL 04020.06, grit 120 SFL 06030.06, grit 80 SFL 06030.06, grit 120 SFV 04020.06, A 104 SFM 04020.06, A 104/80		
	1 pc.	Technical brush BSSW 05010		

Tool-sets

Ordering example: A12390020



Packing unit:

1 pc. per type

Assortment containing:

22 pcs. Burrs of HSS

15 pcs. Mounted points

7 pcs. Polishing points

11 pcs. Mounted flap wheels

3 pcs. Technical brushes

Outside dimension of box: 350 x 92 x 322 mm

Description	piece	Content	Product-Number	recommended for
WK 20	22 pcs.	Burrs of HSS MFA 0616.06, Z1 + Z3 MFA 1225.06, Z1 + Z3 MFC 0620.06, Z1 + Z3 MFC 1225.06, Z1 + Z3 MFD 0605.06, Z3 MFD 1210.06, Z1 + Z3 MFD 1614.06, Z3 MFG 0618.06, Z1 + Z3 MFG 1230.06, Z1 + Z3 MFK 1230.06, Z3 MFM 0618.06, Z1 + Z3 MFM 1225.06, Z1 + Z3 MFW 0830.06	A12390020	
	15 pcs.	Mounted points ZY 0610.06, EKR ZY 0610.06, EKWbr ZY 1020.06, EKR ZY 1020.06, EKWbr ZY 1632.06, EKR ZY 1632.06, EKWbr ZY 1632.06, NK-BA-hard ZY 3208.06, EKR ZY 3208.06, NK-BA-hard SP 0816.06, EKR SP 2032.06, EKR TO 2020.06, EKR KU 0606.06, EKR KU 1616.06, EKR KU 3232.06, EKR		
	11 pcs.	Mounted flap wheels SFL 03010.06, grit 60 SFL 03010.06, grit 120 SFL 04020.06, grit 60 SFL 04020.06, grit 120 SFL 06030.06, grit 40 SFL 06030.06, grit 80 SFL 06030.06, grit 120 SFV 04020.06, A 104 SFV 04020.06, A 106 SFM 04020.06, A104/80 SFM 04020.06, A 106/150		
	3 pcs.	Technical brushes BSSW 05010, BSSW 07018, BPSW 02525		
	7 pcs.	Polishing points P2ZY 0616.06, grit 120 P2ZY 1320.06, grit 120 P2ZY 1632.06, grit 120 P2ZY 3232.06, grit 120 P2SP 1320.06, grit 120 P2KU 1616.06, grit 120 P6MA 3030.06, S46M		

Tool-sets Tungsten Carbide Burrs, cut 7, shank 3 mm
Ordering example: A10390010

Packing unit:
1 pc. per type

Description	Shank Ø mm	Cut mm	Contents	1 piece each	Product-Number	recommended for	
F10 S3	3	Z7	10-pieces	HFA 0313, HFA 0613, HFC 0313, HFC 0613, HFD 0302, HFD 0605, HFG 0313, HFG 0613, HFM 0613, HFF 0313	A10390010	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10	■

Tool-sets Tungsten Carbide Burrs, cut 7, shank 6 mm
Ordering example: A1039001006

Packing unit:
1 pc. per type

Description	Shank Ø mm	Cut mm	Contents	1 piece each	Product-Number	recommended for	
F10 S6	6	Z7	10-pieces	HFAS 0616, HFAS 1225, HFC 0616, HFC 1225, HFD 0605, HFD 1210, HFG 0618, HFG 1225, HFF 0820, HFF 1225	A1039001006	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input checked="" type="checkbox"/> 3 <input type="checkbox"/> 4 <input checked="" type="checkbox"/> 5 <input type="checkbox"/> 6 <input checked="" type="checkbox"/> 7 <input type="checkbox"/> 8 <input type="checkbox"/> 9 <input type="checkbox"/> 10	■

Assortment, Polishing points, group P1

Ordering example: A2600114



Packing unit:
1 pc. per type
Vmax.: 50 m/s

Description	Contents	1 piece each	Product-Number	recommended for	
Assortment 114	14-pieces	P1ZY 0408.03; P1ZY 0510.03; P1ZY 0610.03;P1ZY 0710.03; P1ZY 0810.03; P1ZY 1010.03; P1ZY 1013.03; P1ZY 1016.03; P1ZY 1303.03; P1ZY 1313.03; P1ZY 1316.03; P1ZY 1604.03; P1ZY 1616.03; P1ZY 2006.03	A2600114	<div style="display: flex; justify-content: space-between; width: 100%;"> 1 2 3 4 5 7 </div>	■

High Performance
Mounted points-Assortments, Quality NDW
Ordering example: A20100000353

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	A20100000353	② ③	■

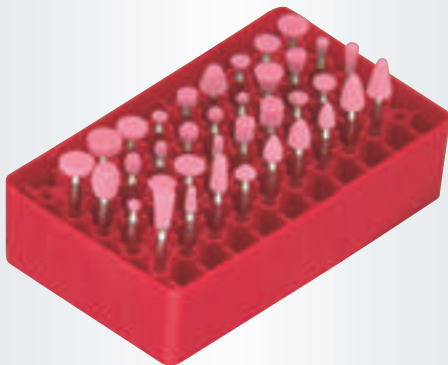
Mounted points-Assortments, Quality EKR
Ordering example: A204700001402

Packing unit:
1 pc. per type

Description	Shank Ø mm	Quality	Contents	1 piece each	Product-Number	recommended for	
Assortment 14	3	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, ZY 1303, ZY 1604, ZY 2006	A204700001402	① ② ③	■

Mounted points-Assortments, Quality EKR

Ordering example: A204800003602

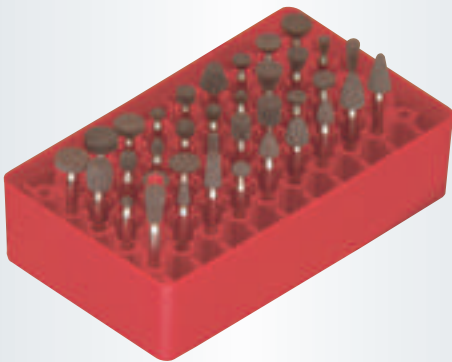


Packing unit:
1 pc. per type

Description	Shank Ø mm	Quality	Contents	1 piece each	Product-Number	recommended for	
Assortment 36	3	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	■

Mounted points-Assortments, Quality EKBR

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	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	■

Abrasive caps-Assortments

Ordering example: A210000065



Packing unit:

1 pc. per type

Assortment containing:

640 pcs. Abrasive Caps

23 pcs. Mandrels

Outside dimension of box: 325 x 257 x 55 mm

NK = regular Aluminium Oxide

Description	piece	Contents	Product-Number	recommended for	
WS 65	50 pcs. 100 pcs. of 50 pcs. of 20 pcs. of 10 pcs.	<p>Abrasive Caps, grit NK 150</p> <p>SKKE 0515 SKZY 0510, SKWR 0511, SKWK 0511 SKZY 0712, SKWR 0713, SKWK 0713 SKZY 1015, SKWR 1015 SKKE 1125</p> <p>Abrasive Caps, grit NK 80</p> <p>SKWK 1015 SKZY 1317, SKWR 1319, SKWK 1319, SKKE 1632 SKWK 1626, SKWR 1626</p> <p>Mandrels, Shank 3 mm</p> <p>2 pcs. of GTZY 0510, GTWR 0511, GTWK 0511, GTZY 0712, GTWR 0713, GTWK 0713 1 pc. of GTZY 1015, GTWR 1015, GTWK 1015, GTZY 1317, GTWR 1319, GTWK 1319</p> <p>Mandrels, Shank 6 mm</p> <p>1 pc. of GTKE 0515, GTKE 1125, GTWK 1626, GTWR 1626, GTKE 1632</p>	A210000065	1 2 3 4 5 6 7 8	■
WS 65 Z	2 pcs. of 1 pc. of 1 pc. of	<p>Abrasive Caps, see WS 65</p> <p>Mandrels, Shank 1/8 inch</p> <p>GTZY 0510, GTWR 0511, GTWK 0511, GTZY 0712, GTWR 0713, GTWK 0713 GTZY 1015, GTWR 1015, GTWK 1015, GTZY 1317, GTWR 1319, GTWK 1319</p> <p>Mandrels, Shank 1/4 inch</p> <p>GTKE 0515, GTKE 1125, GTWK 1626, GTWR 1626, GTKE 1632</p>	A210000065Z	1 2 3 4 5 6 7 8	■

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