

**RHODIUS**

**more simple  
simply more**





## More simple

Improvements in productivity and efficiency are demanded everywhere you turn in the working world. Tasks are becoming increasingly more complex. The professional processing of metal and stone becomes very simple with our product and services solutions. We can offer the ideal tool for every use. You can concentrate on your project; the right grinding tool for your task comes from Rhodius. If you are ever faced with a special challenge, our specialists will be able to come up with a bespoke solution. Quick and easy.

## Simply more

Anyone who places serious demands on his work will not be content with mediocre tools. Grinding tools from Rhodius stand for top performances in cutting, grinding, milling and polishing. Our goal is to offer you a service package to exceed your expectations with clever solutions and efficient products. Of course, we work to suit your requirements and offer precisely the service you really need.





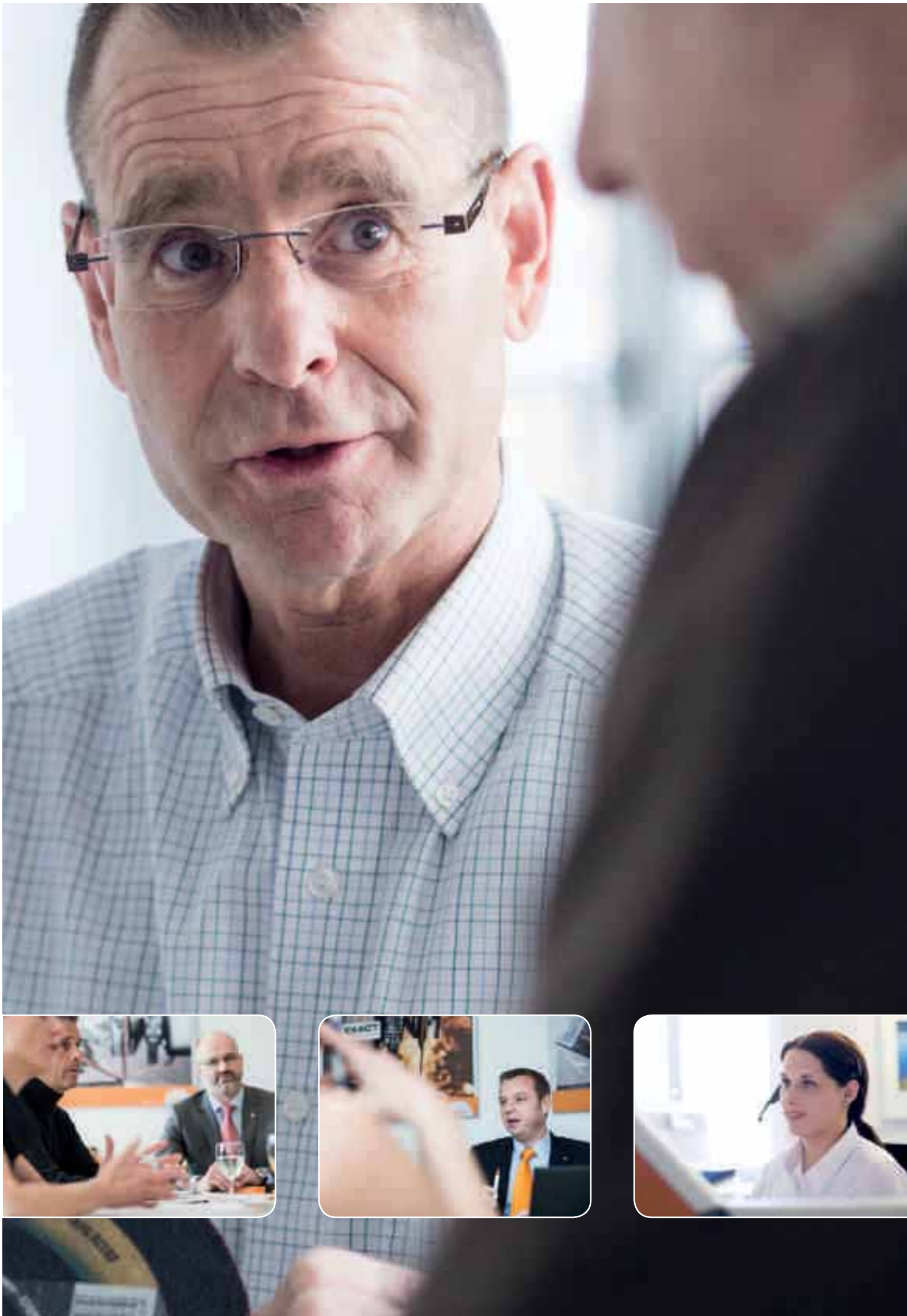
## It's all about one thing

For many they are simply tools; for us, grinding tools are a passion. Our family-run business has developed and produced professional tools of the highest quality for over 60 years. It is with this dedication that we continue to pursue our goal of making exceptional products and services even better. Our focus is on providing you satisfaction after solving the challenges you put on us.

## One thing applies for all

No matter how different the applications and materials are, our tools offer maximum benefit and an outstanding price-performance ratio. Rhodius specialists are constantly analysing applications, materials and markets. Our engineers optimise and develop perfectly fitting products on this basis – without losing sight of the individual needs of our customers.





## In discussion with many industries

If you want to distinguish between good tools and first-class solutions, you have to talk to professionals who work with the products every single day. That's just what we do. We optimise the performance of our products and develop new and, if necessary, customised solutions for you. Our experts from a variety of industries, are available for individual meetings with you.

## The talk of many industries

We see ourselves as a partner for professional users. Which is why we supply cutting, grinding and polishing advice and know-how, along with the perfectly matching tools. We help make your work more efficient, easier and safer with training and advice over the phone, online and personally on the spot.







## Simple solutions are the hardest

Our passion for grinding tools leads to innovations that cut down on operations and accelerate processes, or even make these possible for the first time. When it comes to making your work easier, we don't take things easy. This drive for improvements and simple solutions can be found throughout our entire assortment, which is tailored fully to your needs.

## Hard jobs become simple

Seeing a problem as a challenge is one of the keys to our success. Good examples of this attitude are our BRAINTOOLS – a separate product line that offers unique solutions for special tasks. Simply because it is possible to make things easier.



# Safe tools – Quality from Germany

## Our engagement for your safety

Grinding tools can be potentially lethal if used incorrectly. The European manufacturers have thus prepared safety instructions in the form of leaflets and brochures through their associations VDS (German Abrasives Association) and FEPA (Federation of European Producers of Abrasives). These can help you minimise your personal liability risk. You can download the FEPA safety recommendations as a PDF for free from [www.rhodium-abrasives.com](http://www.rhodium-abrasives.com) and [www.vds-bonn.de](http://www.vds-bonn.de)

## oSa-manufacturers guarantee safety.

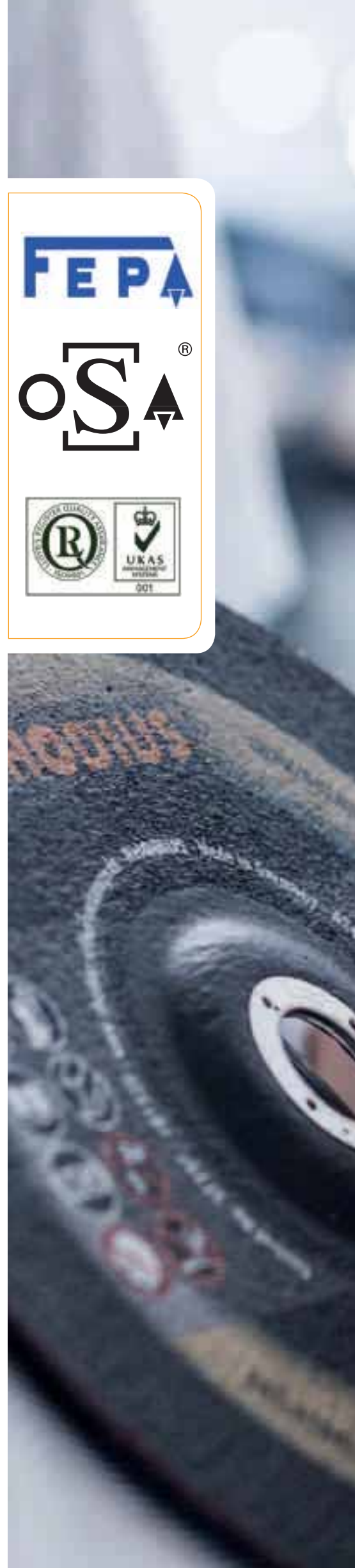
oSa stands for “Organisation for the Safety of Abrasives”. Leading manufacturers of quality abrasives have joined together in this international organisation to document the high safety standard of their brand and quality products. Rhodius is a founder member of the oSa and is participant in ensuring and further developing the oSa goals.

## What does the oSa-symbol mean for you?

Tools with the oSa trademark symbol has been manufactured according to the world-wide strict guidelines of the oSa. All Rhodius cutting and grinding tools bear the oSa trademark and thus meet the highest safety standards. Rhodius is also a founding member of the oSa.

## The promise of Rhodius

Rhodius is a leading manufacturer of grinding tools and meets all the requirements of national and international laws, standards and guidelines. Our quality management system is certified according to EN ISO 9001 and thus guarantees compliance with all regulations.



# Trust is good. A guarantee is better.

## Buying without risk — with satisfaction guarantee

We are only satisfied with our tools if you are also satisfied with them. We want to provide top products that are totally convincing, through great performance and a definite improvement in handling comfort. Our customers have trusted us to offer this for over 60 years.

You will be convinced of our product quality when you use them. We guarantee the quality and productivity of all our products.

## Convince yourself — it works that way:

When you purchase a tool from Rhodius, you will have 60 days to test the product and its performance. If you should not be satisfied with the tool's quality or performance, your specialist retailer will replace it, or you can have your money back.

This service is provided by selected specialist retailers. The full guarantee terms are available from participating specialist retailers and on the Internet at [www.rhodius-abrasives.com](http://www.rhodius-abrasives.com)

## Your advantages:

- correct choice of product
- guaranteed product performance
- easy exchange
- simple money-back ruling

= 100 % satisfaction



Look for this seal of quality.  
It identifies specialist retailers  
offering the Rhodius satisfaction  
guarantee.





# BRAINTOOLS® simply clever problem solvers

**Intelligent tools for special tasks.** Tools in the BRAINTOOLS range possess unique application benefits that turn them into individual problem-solvers. BRAINTOOLS are the unbeatable added-value solutions. In your daily work they deliver such specific benefits as: time savings, comfort of application, reduction of material waste and handling: **maximum efficiency for maximum cost-effectiveness.**



## XT8 EXACT

For precision cutting.  
Find more on page 28–29



## XT35 CROSS

For safe cutting and grinding in one operation.  
Find more on page 30–31



## LD402 / LD403 ALL IN ONE

For easy milling in one operation.  
Find more on page 50–51



## LD200 / LD410 SPEED

For extremely short cutting times and long lifetime.  
Find more on page 52–55



## FS1 FUSION

For fillet weld grinding with long lifetime.  
Find more on page 98–99



## LSZ F VISION

For optical check when grinding.  
Find more on page 120–121



## VSK VISION

For optical check when finishing.  
Find more on page 122–123



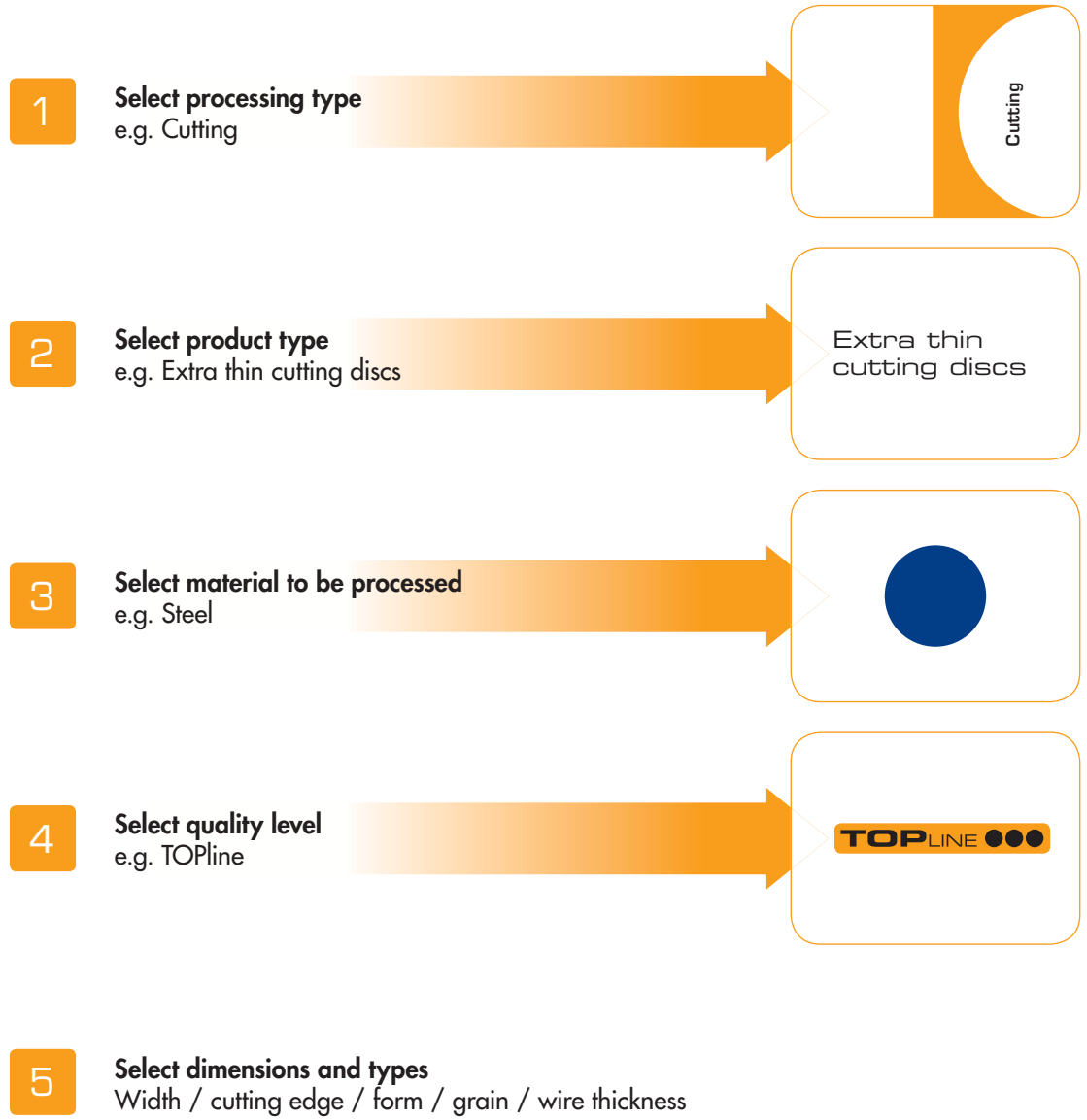
## RHODUCER

For lower vibrations when grinding.  
Find more on page 178–179

# Five steps to the right product



Structure of catalogue



e.g. Cutting and grinding discs

mm:  
**1,0-1,9**

- Width of disc
- Unit of measurement
- Colour code for material

e.g. Diamond cutting discs

mm:  
**10,0**

- Segment height
- Unit of measurement
- Colour code for material

e.g. Tungsten carbide burrs

**WRC**

- Carbide burr shape
- Colour code for material

e.g. Flap discs, coated abrasives

**40/60/80/120**

- Grit
- Colour code for material

e.g. Technical brushes

mm:  
**0,20-0,30**

- Wire width
- Unit of measurement
- Colour code for material

**Explanation of symbols**

You will find an overview and explanations of the signs on the fold-out page at the end of the catalogue.



# CONTENT

Cutting



Cleaning



Grinding



Fine Grinding / Finishing



Milling



Tool Sets



Accessories



# Quick product finder: Cutting

			Cutting						
			Stainless steel	Steel	Non-ferrous metals	Stone			
			Stainless steel	Steel	Non-ferrous metals	Universal / Concrete	Asphalt	Tiles / Ceramic	Natural / Artificial stone
	Product reference	Page							
Extra thin cutting discs	XT8 EXACT	28							
	XT35 CROSS								
	XT10	30							
	XT38								
	XT70								
	XT20								
	XT67	35							
	XT77								
	XT24	36							
	XT66	37			for hard aluminium				
Freehand cutting discs	FT38	39							
	FT26								
	FT67								
	FT33	40							
	KSM								
	FT30								
	FT24	42							
	FT44	43			for hard aluminium				
	FT40								
Stationary cutting discs	ST38	45							
	ST56								
	ST34	46							
	ST21								
Diamond cutting discs	LD402/403 ALL IN ONE								
	LD410 SPEED								
	LD200 SPEED								
	LD100 MATRIX	50							
	LD4								
	LD2								
	LD40								
	LD50								
	DG210 ALLCUT	58							
	LD70	59							
	LD60								
	DG100 MATRIX								
	LD8	60							
	DG35								
	DG55								
	DG10								
	LD1								
DG45	62								
DG25									
DG50									



# Quick product finder: Cleaning

		Cleaning			
		Stainless steel	Steel	Non-ferrous metals	Wood
Product reference		Stainless steel	Steel	Non-ferrous metals	Wood
Non-woven cleaning tools	SVS				
	SVS GS	68			
	SVS Mini				
Wheel brushes	ERBZ	74			
	ERBW				
	SRBZ				
	SRBZGS				
	SRBWGS	75			
	SRBWBM				
	SRBWST				
	HRB	77			
Cup brushes	ETBZ	78			
	ETBW				
	STBZ				
	STBZ S				
	STBW	79			
	STBWGS				
	STBWM				
	HTB	81			
Bevel brushes	EKBZ	82			
	EKBW				
	SKBZ	83			
	SKBW				
Flap wheel brushes	SFBW	84			
End brushes	EPBZ	85			
	EPBW				
	SPBZ	86			
	SPBW				
	HPB	87			
Hand scratch brushes	EHBG	88			
	EHBW				
	UHBW	89			
	EKNB	89			
	SHBG				
	BSBG	90			
	SKNB				
	MHBW				
	BSBW	92			
	ZKB				

# Quick product finder: Rough grinding

			Grinding					
			Stainless steel	Steel	Non-ferrous metals	Stone		
						Concrete universal / Granite	Building materials	Abrasive materials / Floor pavement
	Product reference	Page						
Grinding discs	FS1 FUSION	99	Stainless steel	Steel				
	RS48							
	RS38							
	RS28							
	RS67	102		Steel				
	RS2							
	RS22							
	KSM							
	RS24	104			Non-ferrous metals			
	RS66	105					Concrete universal / Granite	Building materials
Cup wheels	NK	106		Steel				
	SIC	107					Concrete universal / Granite	Building materials
Grinding wheels	SR15	107		Steel				
Diamond cup wheels	DS1	108				Concrete universal / Granite		
	DS2	108				Concrete universal / Granite	Building materials	
	DS10	109				Concrete universal / Granite	Building materials	Abrasive materials / Floor pavement
	DS40	109					Building materials	
	DS41	109						Abrasive materials / Floor pavement
Core drill	CD10	110				Concrete universal / Granite	Building materials	
	CD20	110						Abrasive materials / Floor pavement

# Quick product finder: Grinding / finishing

		Grinding / Finishing				
		Stainless steel	Steel	Non-ferrous metals	Wood	
		Stainless steel	Steel	Non-ferrous metals	Wood	
	Product reference	Page				
Flap discs	LSZ F VISION	120		*		
	VSK VISION					
	JUMBO LONGLIFE	124				
	JUMBO SPEED					
	LSZ F	126		*		
	LSZ F1					
	LSZ P1					
	LSZ F2					
	LSA F1	128				
	LSA P1					
Non-woven flap disc	VLS	129				
Fiberdiscs	KFK	130				
	KFZ					
	KFS					
Abrasive belts	ESB ZL	135				
	ESB ZX					
	ESB KK	136				
	ESB KX FLEX					
	ESB KX		137			
	ESB P		137			
Abrasive sleeves	ESH	138				
	SSH	139				
Quick Change Discs	SVS QUICK	140				
	KFZ QUICK	140				
	VLS QUICK	141				
	VKS QUICK					
Flap wheel	SLR	142				
	FS MINI					
	FS					
	FSB					
Non-woven flap wheel	VSK	145				
	VS					

		Grinding / Finishing			
		Stainless steel	Steel	Non-ferrous metals	Wood
		Stainless steel	Steel	Non-ferrous metals	Wood
	Product reference	Page			
Drum	SVSW	146			
	LW	146			
	BW				
	VWK	147			
	VW				
	FW / FBW				
	Rolls	SPBR	148		
KERR		149			
KFPR					
SLPR		149			
Sheets	KKBR	150			
	WSP	150			
	KFPB	151			
	SLPB	151			
Self fastening discs	KERR VELCRO F	152			
	KERR VELCRO B				
	KERR VELCRO				
	VLS VELCRO	153			
Non-woven abrasives	VLSR	154			
	VLS PAD				
Unitized discs	VKS	155			
	VKS GS				
Felt polishing flap discs	FLS	156			
	FLP				
	FPK				
Satin-finish / polishing rings	SAT	160			
	SAT SET				
	POL				
Polishing paste	POL SET	160			
	PASTE				

\* In order to achieve good results with a flap disc you will need to use a silicon free cutting spray or grinding grease to prevent the disc rapidly clogging.

# Quick product finder: Milling

		Milling			
		Stainless steel	Steel	Cast-iron	Non-ferrous metals
Tungsten carbide burrs	Product reference				
	HF A	Stainless steel	Steel	Cast-iron	Non-ferrous metals
	HF B				
	HF C				
	HF D				
	HF E				
	HF F				
	HF G				
	HF H				
	HF J				
	HF K				
	HF L				
	HF M				
	HF N				
	HF SET				

## Quick product finder: Professional tool set



Professional tool set: stainless steel polishing  
**Find more on page 172**



Professional tool set: aluminium rims polishing  
**Find more on page 173**



Professional tool set: automotive  
**Find more on page 174**



Professional tool set: weld grinding  
**Find more on page 175**

## Quick product finder: Accessories



Anti-vibration flange RHODUCER  
**Find more on page 178-179**



Ear muffs SE20  
**Find more on page 180**



Safety goggles SE10  
**Find more on page 180**











Leather gloves SE30  
**Find more on page 180**



Dust mask SE40  
**Find more on page 181**



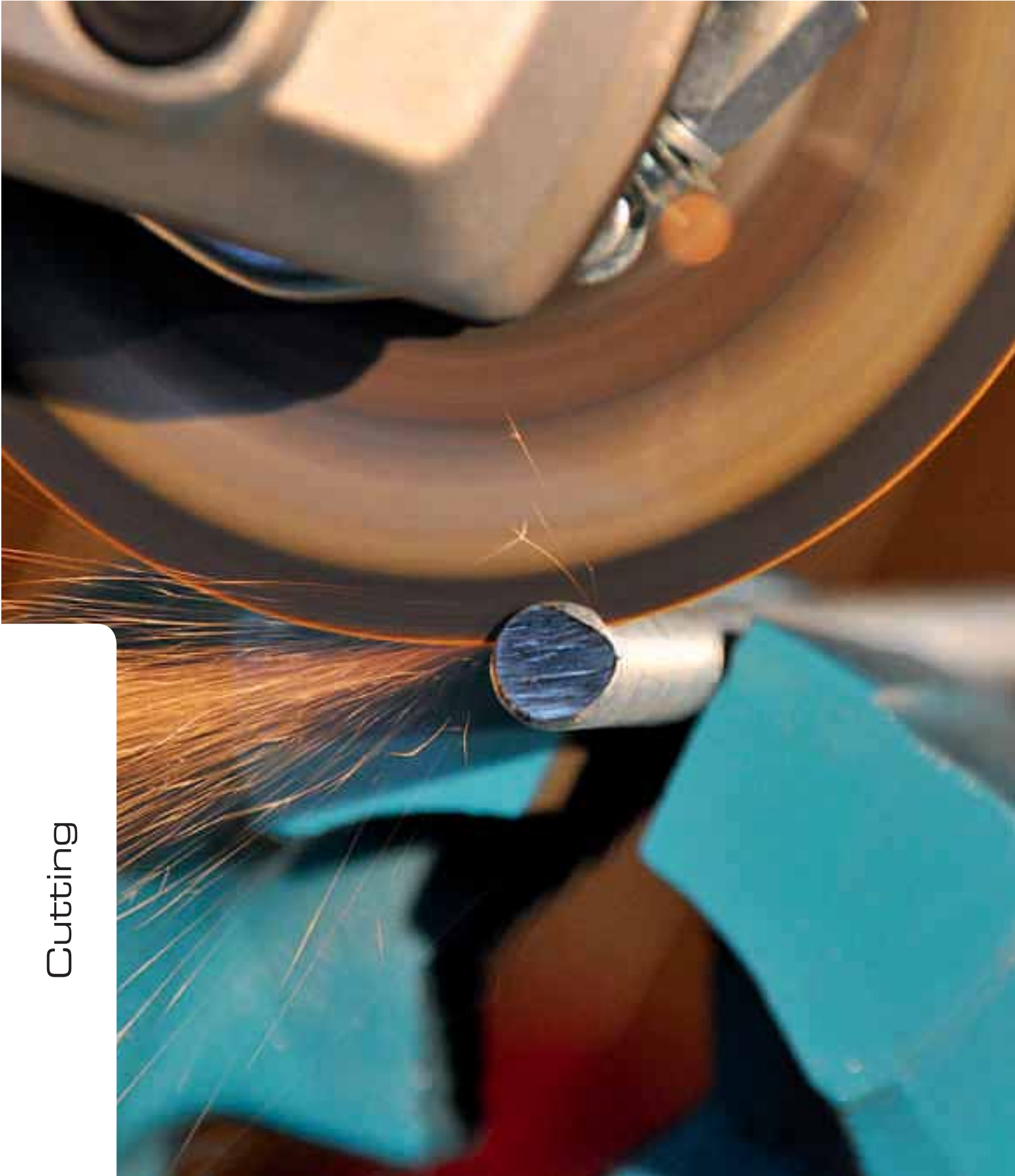
# Cutting

		Extra thin cutting discs _____	<b>28</b>
		Freehand cutting discs _____	<b>38</b>
		Stationary cutting discs _____	<b>44</b>
		Diamond cutting discs _____	<b>50</b>



# The quick way to the right product

Any good tool can only provide optimum results if it perfectly matches the material to be treated and the machine to be used. The overview on the page on the right will help you easily select the correct product.



Cutting



Explanation of symbols			Extra thin cutting discs											Freehand cutting discs						Stationary cutting discs							
			Reference	XT8 EXACT	XT35 CROSS	XT10	XT38	XT70	XT20	XT67	XT77	XT24	XT66	FT38	FT26	FT67	FT33	KSM	FT30	FT24	FT44	FT40	ST38	ST56	ST34	ST21	
<ul style="list-style-type: none"> <li>● = particularly suitable</li> <li>◐ = suitable</li> <li>○ = limited suitability</li> </ul> <ul style="list-style-type: none"> <li>● Stainless Steel</li> <li>● Steel</li> <li>● Non-ferrous metals</li> <li>● Stone</li> <li>● Cast-iron</li> </ul>			Page	29	31	33	33	33	35	35	35	36	37	39	39	40	40	41	41	42	43	43	45	46	46	47	
			Quality reference	BRAINTOOLS*	BRAINTOOLS*	TOP LINE	PRO LINE	ALPHA LINE	TOP LINE	PRO LINE	ALPHA LINE	TOP LINE	TOP LINE	ALPHA LINE	TOP LINE	PRO LINE	ALPHA LINE	PRO LINE	TOP LINE	PRO LINE	PRO LINE	TOP LINE	PRO LINE	ALPHA LINE	ALPHA LINE		
			Hardness / Lifetime	●●●●○	●●●●●	●●●●●	●●●●○	●●●●○	●●●●●	●●●●○	●●●●○	●●●●○	●●●●○	●●●●○	●●●●●	●●●●○	●●●●○	●●●●○	●●●●○	●●●●○	●●●●○	●●●●○	●●●●○	●●●●○	●●●●○		
Material	Workpiece's material thickness	Machine performance see page 26																									
			Stainless Steel	<3mm	weak	●	○	○	●	●	○																
>3mm	strong	●		●	●	●	○						○	○									○				
Structural steels / metal sheets	<3mm	weak	●	●	○	●	●	○	●	●				○	○	○	○	○									
	>3mm	strong	○	●	○	●	●	○	●	●				●	○	●	●	●						○	○	●	●
Concrete reinforcing iron (rebar)	weak		○	●	○	●	●	○	●	●				○	○	●	●	○					○	○	●	●	
	strong		○	●	○	●	●	○	●	●				○	○	●	●	●	●			○	○	○	○	○	
High tensile / high-alloyed steels	weak		○	●	○	●	●	○	●	●				○	○	○	○	○					○	○	●	●	
	strong		○	●	○	●	●	○	●	●				○	○	○	○	○	○					○	○	○	
Tool steels	weak		●	○	○	○	○	○	○	○				○	○	○	○	○					○	○	○	○	
	strong		○	○	○	○	○	○	○	○				○	○	○	○	○	○					○	○	○	
Hardened steels	weak		○	○	○	○	○	○	○	○				○	○	○	○	○					○	○	○	○	
	strong		○	○	○	○	○	○	○	○				○	○	○	○	○	○					○	○	○	
Hardox	weak		○	○	○	○	○	○	○	○				○	○	○	○	○					○	○	○	○	
	strong		○	○	○	○	○	○	○	○				○	○	○	○	○	○					○	○	○	
Plastic laminated metal sheets	<3mm		○	○	○	○	○	○	○																		
Refined-grain construction steel			○	○	○	○	○	○	○													○		○	○		
Aluminium	<3mm		○	○	○	○	○	○	○													○					
	>3mm		○	○	○	○	○	○	○													○	○	○	○		
Bronze, brass			○	○	○	○	○	○	○													○					
Titanium			○	○	○	○	○	○	○													○	○				
Cast-iron				○																			○	○	○		
Natural / Artificial stone																						○	○				
Tiles / ceramic																											
Plastics			○																								

# Factors for selecting the optimum cutting disc

The maximum efficiency can only be achieved if a cutting disc perfectly matches your machine and application. We have summarised what you should look out for when choosing a product and how cutting discs differ.

## Extra-thin cutting discs

Our extra-thin cutting discs bear the product code XT. With a maximum width of disc of only 1.9 mm, they are the ideal tool for processing thin-walled materials as well as solid material. Extra-thin cutting discs cut much easier thanks to the lower friction at the workpiece. This minimises the thermal load and greatly reduces blueing of the workpiece. Its almost burr-free cut also minimises time-consuming reworking.

## Sturdy cutting discs

Cutting discs with a width of disc greater than 1.9 mm are identified by the code FT within the product name. Thanks to their kind of fabric reinforcement and the associated high stability, they are suitable for tough jobs such as the freehand cutting of structural and tool steel. Use our cutting discs with the code ST for stationary cutting.

## The right combination of tool and machine

Very efficient discs need strong drive machines to achieve the optimum performance of the cutting disc.

**Determine the performance of your machine and select a matching cutting disc.**

		Powerful machines range from:				
Disc Diameter		Ø 100	Ø 115	Ø 125	Ø 180	Ø 230
Machine type	Compressed-air	> 450 W	> 650 W	> 850 W	> 1,600 W	> 1,900 W
	Electrical	> 550 W	> 1,000 W	> 1,200 W	> 2,000 W	> 2,200 W

### For low-powered machines

Select a softer disc.

The softer bond releases new abrasive grit more easily.

> soft discs are characterised by a high cutting ability.

Weaker machines do not provide enough power for hard discs to release new abrasive grit.

**Consequence:** The cutting ability deteriorates and the disc becomes blunt.

### For powerful machines

Select a hard disc from the Rhodius quality lines BRAINTOOLS, TOPline or PROline.

> very long lifetime and cutting ability on efficient machines.

Soft discs on efficient machines lead to a fast disintegration of the bond.

**Consequence:** The disc's lifetime is shortened significantly.

# This way cutting discs achieve performance

**1 Metal ring with expiry date**  
centred and secure fixing in the machine

**2 Paper label**  
all product and safety information on every disc

**3 Fibreglass fabric**  
strong high-quality fabric for greater safety during cutting

**5 Fibreglass fabric**  
second fabric reinforcement

**4 Mix**

**Abrasive grit**  
The corresponding grain or an optimum mix of different grain types needs to be selected depending on which materials are being cut.

**Grinding-active filling materials**  
Besides high-quality types of grain, Rhodius cutting discs also contain substances that actively optimise your cutting work.

**Bond**  
How the abrasive grit is bonded and how it is adapted optimally to the application, constitute significant factors in achieving a high cost-effectiveness.



## Better orientation through a new product system

●●●●●○ **Lifetime**  
The lifetime indicates the maximum number of cuts for a disc.

●●●●●○ **Cutting ability solid material**  
●●●●●○ **Cutting ability thin-walled material**  
The cutting ability indicates the maximum cutting speed for a solid material and a thin-walled material.

## Maximum working speed

50 m/s
63 m/s
80 m/s
100 m/s

The maximum permissible working speed is shown on each grinding tool in m/s.

**Speed Guide**

V[m/sec]	50	63	80	100
d1 [mm]	rpm			
30	31830	40105	50900	63660
40	23870	30080	38200	47750
50	19100	24060	30560	38200
65	14690	18510	23500	29380
75	12565	15830	20100	25130
100	9550	12030	15280	19100
110	8680	10940	13890	17360
115	8300	10460	13285	16610
125	7640	9630	12200	15280
150	6370	8020	10185	12730

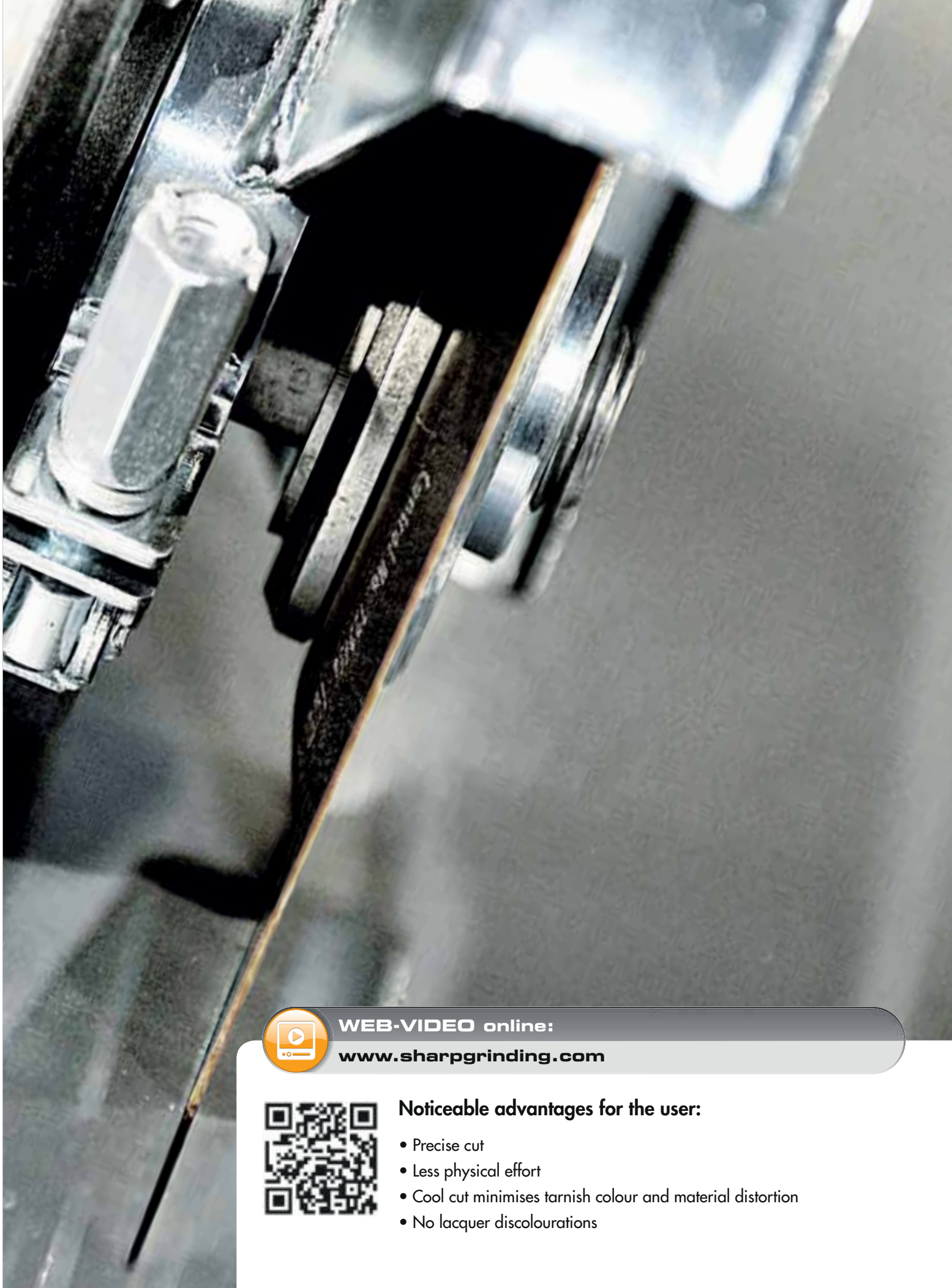
**Speed Guide**

V[m/sec]	50	63	80	100
d1 [mm]	rpm			
180	5310	6685	8600	10610
200	4775	6015	7640	9550
230	4150	5230	6600	8300
250	3820	4810	6110	7640
300	3180	4010	5100	6365
350	2730	3440	4365	5460
400	2380	3010	3820	4775
450	2120	2675	3395	4245
500	1910	2405	3060	3820
600	1590	2005	2550	3180



Further application tips for our cutting discs can be found at [www.sharpg grinding.com](http://www.sharpg grinding.com)

# Maximum precision when cutting



**WEB-VIDEO online:**  
[www.sharpgrinding.com](http://www.sharpgrinding.com)



## Noticeable advantages for the user:

- Precise cut
- Less physical effort
- Cool cut minimises tarnish colour and material distortion
- No lacquer discolourations

# BRAINTOOLS® XT8 EXACT

mm:  
**0,8**

XT8  
**EXACT**



**BRAINTOOLS®**

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

The XT8 EXACT demonstrates and convinces through outstandingly smooth running, resulting in optimum handling. Its exceptional precise, clean and almost burr-free cut reduces reworking to almost zero. Even extremely hard materials such as spring steels, stainless steel sheets etc., are easily cut by the 0.8 mm thin disc. Much harder and stronger than conventional cutting discs, its narrow cut also means that hardly any contact pressure is needed, making for noticeably easier work.

Cutting

**i** Especially for low power machines and battery-powered angle grinders

**Material:**

- Rust and acid-proofed steels
- High-alloyed steels
- High tensile steels
- High tensile metal sheets
- Plastic laminated metal sheets
- Varnished metal sheets

**Application examples:**

- Thin-walled sheets
- Thin-walled tubes
- Thin-walled profiles
- Cable ducts
- Corrugated sheets
- Trapezoidal profiles
- Thread rods



**XT8 EXACT A60U9BF1433**

Shape 41	
30 x 0.8 x 6.00	50 207056
40 x 0.8 x 6.00	50 207058
50 x 0.8 x 6.00	50 207060
65 x 0.8 x 6.00	50 207067

see page 34 for fitting mandrels

**XT8 EXACT A60U9BF1433**

Shape 42	
115 x 0.8 x 22.23	50 206683
125 x 0.8 x 22.23	50 206684



Burr-free cutting of thread rods



Ideal for secure repairs with I-seams

**The XT8 revolutionises MIG-welding**

- 0.8 mm thin cut
- reduced heat development
- low grinding volume
- optimal width of the solder gap with I-seams

# Safe cutting and grinding in one operation



**WEB-VIDEO online:**  
[www.sharpgrinding.com](http://www.sharpgrinding.com)



## Noticeable advantages for the user:

- Extra-thin and precise cutting and rough grinding with one disc
- Cutting-burr removing-chamfering-dressing with one disc
- No change of disc
- Extremely safe through three full-surface fabric layers

# BRAINTOOLS® XT35 CROSS

mm:  
**1,9**

XT35  
**CROSS**



**BRAINTOOLS®**

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

The XT35 CROSS for the first time allows the combination of cutting and grinding work in one operation and is only 1.9 mm thick! Its 3 full-surface fabric layers ensure a strong reinforcement and extremely high side stability. By simply changing the angle of application, grinding work such as burr removing, chamfering and dressing can be carried out directly after cutting without changing the machine or disc.

Cutting

**Material:**

- Rust and acid-protected steels
- Hardened steels, high-alloyed steels
- Tool steels
- Structural steels
- Galvanised parts
- Varnished metal sheets
- High tensile metal sheets
- Hardox

**Application examples:**

- Cutting
- Beveling
- Burr removing
- Dressing
- Solid materials
- Thin metal sheets, tubes and profiles
- Plastic laminated metal sheets
- Structural steel sheets, concrete reinforcing iron
- Folded spiral seam tube



**XTK35 CROSS A46U9BF1432**

	Shape 27
115 x 1.9 x 22.23	25 208372
125 x 1.9 x 22.23	25 208373



Extra-thin cutting and grinding with one disc

# Extra-thin cutting discs



Extra-thin cutting discs have a smaller friction surface. This allows a fast and cool cut.

This avoids blueing of the workpiece. Cutting with fewer burrs also saves the user any tiresome reworking.

The chapter on "Extra-thin cutting discs" contains an outline of all cutting discs up to a maximum width of disc of 1.9 mm.

**Product Advantages:**

- Low development of burrs
- Few sparks
- High cutting speed
- Long lifetime
- Cool cut
- Low odour



Select the depressed shape for more stability during the cutting process

## Extra-thin cuttings discs / stainless steel



**Material:**

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Hardened steels
- Hardox
- High tensile metal sheets
- Plastic laminated metal sheets



Iron and sulphur free



**i** All cutting discs for stainless steel are iron and sulphur free. Do NOT switch between normal and stainless steel when processing workpieces.



mm:  
**1,0-2,0**

**XT10**



**TOPLINE** ●●●

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



**XT10 A46U9BF1432**

Shape 41	
Dimensions	Quantity / Part No.
50 x 1.0 x 6.00	50 206799
50 x 2.0 x 6.00	25 206800
65 x 1.0 x 6.00	50 206801
65 x 2.0 x 6.00	25 206802
75 x 1.0 x 6.00	50 209338
75 x 1.0 x 10.00	50 206803
75 x 2.0 x 6.00	25 209339
75 x 2.0 x 10.00	25 206804
100 x 1.0 x 15.00 <sup>1)</sup>	25 208775
100 x 1.0 x 16.00	50 206285
115 x 1.0 x 22.23	50 206162
115 x 1.5 x 22.23	50 206164
125 x 1.0 x 22.23	50 206163
125 x 1.5 x 22.23	50 206165
150 x 1.5 x 22.23	25 206258
180 x 1.5 x 22.23	25 206259
230 x 1.9 x 22.23	25 206260

**XTK10 A46U9BF1432**

Shape 42	
Dimensions	Quantity / Part No.
115 x 1.0 x 22.23	50 206166
115 x 1.5 x 22.23	50 206168
125 x 1.0 x 22.23	50 206167
125 x 1.5 x 22.23	50 206169
150 x 1.5 x 22.23	25 206261
180 x 1.5 x 22.23	25 206262
230 x 1.9 x 22.23	25 206263

<sup>1)</sup> Reducing bush - 10.00 mm - is included

mm:  
**1,0-1,9**

**XT38**



**PROLINE** ●●○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



**i** Ideal for low power machines

**XT38 A46T11BF1415**

Shape 41	
Dimensions	Quantity / Part No.
115 x 1.0 x 22.23	50 204619
115 x 1.5 x 22.23	50 203877
125 x 1.0 x 22.23	50 204621
125 x 1.5 x 22.23	50 203881
150 x 1.5 x 22.23	25 205700
180 x 1.5 x 22.23	25 205701
230 x 1.9 x 22.23	25 205702

**XTK38 A46T11BF1423**

Shape 42	
Dimensions	Quantity / Part No.
115 x 1.0 x 22.23	50 205707
115 x 1.5 x 22.23	50 205706
125 x 1.0 x 22.23	50 205705
125 x 1.5 x 22.23	50 205704
150 x 1.0 x 22.23	25 209497
180 x 1.5 x 22.23	25 205721
230 x 1.9 x 22.23	25 205703

mm:  
**1,0-1,9**

**XT70**



**ALPHALINE** ●○○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



**i** Ideal for low power machines

**XT70 A46T11BF10097**

Shape 41	
Dimensions	Quantity / Part No.
115 x 1.0 x 22.23	50 209041
115 x 1.0 x 22.23	100 207436
115 x 1.5 x 22.23	100 207438
125 x 1.0 x 22.23	50 209042
125 x 1.0 x 22.23	100 207437
125 x 1.5 x 22.23	100 207439

**XTK70 A46T11BF11058**

Shape 42	
Dimensions	Quantity / Part No.
150 x 1.0 x 22.23	25 209511
180 x 1.5 x 22.23	25 208121
230 x 1.9 x 22.23	25 208122

mm:

1,0-1,5

XT70 BOX



ALPHALINE ●○○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

10 x XT70 extra-thin cutting discs in an attractive, reclosable tin

XT70 BOX A46T11BF10097

Shape 41	
115 x 1.0 x 22.23	100 207808
115 x 1.5 x 22.23	100 207878
125 x 1.0 x 22.23	100 207809
125 x 1.5 x 22.23	100 207879



ASB XT



TOPLINE ●●●

The maximum radius speed allowed is 50 m/s when using this bolt.

ASB XT

6 mm	1 303194
10 mm	1 303195



## Extra-thin cutting discs / steel



**Material:**

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets
- Concrete reinforcing iron (rebar)



Rhodius steel cutting discs are designed for cutting carbon steel and provide very good results economically.

mm:  
**1,0-1,9**

**XT20**



**TOPLINE** ●●●

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



**XT20 A46U9BF1430**

Shape 41	
115 x 1.0 x 22.23	50 206170
115 x 1.5 x 22.23	50 206172
125 x 1.0 x 22.23	50 206171
125 x 1.5 x 22.23	50 206173
150 x 1.5 x 22.23	25 206264
180 x 1.5 x 22.23	25 206265
230 x 1.9 x 22.23	25 206266

**XTK20 A46U9BF14333**

Shape 42	
180 x 1.5 x 22.23	25 206312
230 x 1.9 x 22.23	25 206313

mm:  
**1,0-1,9**

**XT67**



**PROLINE** ●●○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



**XT67 74A30T11BF1367**

Shape 41	
115 x 1.0 x 22.23	50 205425
115 x 1.5 x 22.23	50 202378
125 x 1.0 x 22.23	50 205426
125 x 1.5 x 22.23	50 202384
150 x 1.5 x 22.23	25 205709
180 x 1.5 x 22.23	25 205710
230 x 1.9 x 22.23	25 205711

**XTK67 74A30T11BF1379**

Shape 42	
115 x 1.5 x 22.23	50 204791
125 x 1.5 x 22.23	50 204793
180 x 1.5 x 22.23	25 206034
230 x 1.9 x 22.23	25 206773

mm:  
**1,0-1,9**

**XT77**



**ALPHALINE** ●○○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



Ideal for low power machines

**XT77 A46M11BF11075**

Shape 41	
115 x 1.0 x 22.23	100 208698
115 x 1.5 x 22.23	100 208699
125 x 1.0 x 22.23	100 208700
125 x 1.5 x 22.23	100 208701
150 x 1.5 x 22.23	25 208861

**XTK77 A46M11BF11337**

Shape 42	
180 x 1.5 x 22.23	25 208702
230 x 1.9 x 22.23	25 208703

# Extra-thin cutting discs / non-ferrous metals



## Material:

- Non-ferrous metals
- Bronze
- Brass
- Bearing metal
- Al-alloy

Special filling materials prevent clogging of the disc



**i** Aluminium dust is very fine and can accumulate in angle grinders and destroy these during grinding despite an extraction system. Portable air grinders are dust-insensitive. If you are cutting aluminium with an electric angle grinder you can halve the dust development with a thin aluminium-cutting disc. Clean the angle grinder after work with compressed air. A good dust extraction system is a must in closed rooms since high concentrations of aluminium dust can lead to explosions.

mm:

**1,5 - 1,9**

**XT24**



**TOPLINE** ●●●

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

**i** Ideal for low power machines

**XT24 A24P-BF26**

Shape 41	
115 x 1.5 x 22.23	50 205910
125 x 1.5 x 22.23	50 205911
150 x 1.5 x 22.23	25 205912
180 x 1.5 x 22.23	25 205913
230 x 1.9 x 22.23	25 205914



# Extra-thin cutting discs / stone



**Material:**

- Concrete products / floor pavement
- Limestones
- Artificial stones
- Natural stones
- Marble
- Titanium



Extra-thin cutting discs are ideal for low-dust cutting with little edge cavitation.

mm:  
**1,5-1,9**

**XT66**



**TOP LINE** ●●●

Cuts tiles with clean cut edges. Good cutting performance on titanium



Ideal for low power machines

**XT66 C36R8BF1416**

Shape 41	
115 x 1.5 x 22.23	50 204625
125 x 1.5 x 22.23	50 204624
180 x 1.9 x 22.23	25 204623
230 x 1.9 x 22.23	25 204622

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



# Freehand cutting discs



Freehand cutting discs are generally used for rugged applications. Through a stronger fabric and their disc width of up to 4 mm, they offer a higher side stability and a safer feeling when cutting solid materials.

You can now get a number of RHODIUS freehand cutting discs which are only 2 mm wide. This achieves a faster and cooler cut.

**Product Advantages:**

- High cutting speed
- Long lifetime
- Efficient
- Comfortable cutting behaviour
- Easy cutting



All freehand cutting discs for petrol-driven cutting machines have a special strong reinforcement for high lateral stresses

## Freehand cutting discs / stainless steel



**Material:**

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Tool steels
- Hardened steels
- Hardox
- High tensile metal sheets



Iron and sulphur free



All cutting discs for stainless steel are iron and sulphur free. Do NOT switch between normal and stainless steel when processing workpieces.



mm:  
**2,0-3,0**

**FT38**



**TOPLINE** ●●●

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



**FT38 A24U9BF1337**

Shape 41	
115 x 2.0 x 22.23	25 207444
125 x 2.0 x 22.23	25 206377
180 x 2.0 x 22.23	25 206374
180 x 3.0 x 22.23	25 201113
230 x 2.5 x 22.23	25 206373
230 x 3.0 x 22.23	25 201122

**FTK38 A24U9BF1338**

Shape 42	
100 x 2.0 x 16.00	25 201082
115 x 2.0 x 22.23	25 207440
125 x 2.0 x 22.23	25 207441
180 x 2.0 x 22.23	25 207442
180 x 3.0 x 22.23	25 201099
230 x 2.5 x 22.23	25 207443
230 x 3.0 x 22.23	25 201102

Cutting

mm:  
**2,0-2,5**

**FT26**



**ALPHALINE** ●○○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



**FT26 A24R13BF11698**

Shape 41	
115 x 2.0 x 22.23	25 208724
125 x 2.0 x 22.23	25 208725
180 x 2.0 x 22.23	25 208726
230 x 2.5 x 22.23	25 208727

**FTK26 A24R13BF11698**

Shape 42	
115 x 2.0 x 22.23	25 208728
125 x 2.0 x 22.23	25 208729
180 x 2.0 x 22.23	25 208730
230 x 2.5 x 22.23	25 208731

# Freehand cutting discs / steel



### Material:

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets
- Concrete reinforcing iron (rebar)



 Rhodius steel cutting discs are designed for cutting carbon steel and provide very good results economically.

mm:

**2,5**

**FT67**





### TOPLINE ●●●



- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



### FT67 74A30T11BF1367

		Shape 41	
			
115 x 2.5 x 22.23	25	202390	
125 x 2.5 x 22.23	25	202396	
180 x 2.5 x 22.23	25	202403	
230 x 2.5 x 22.23	25	202417	

### FTK67 74A30T11BF1379

		Shape 42	
			
115 x 2.5 x 22.23	25	202392	
125 x 2.5 x 22.23	25	202398	
180 x 2.5 x 22.23	25	202407	
230 x 2.5 x 22.23	25	202410	

mm:

**2,0-3,0**

**FT33**





### PROLINE ●●○



- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



### FT33 A24Q-BF20

		Shape 41	
			
100 x 2.0 x 16.00	25	200736	
115 x 2.0 x 22.23	25	200961	
115 x 3.0 x 22.23	25	200719	
125 x 2.0 x 22.23	25	200969	
125 x 3.0 x 22.23	25	200755	
150 x 2.0 x 22.23	25	200782	
150 x 3.0 x 22.23	25	200773	
180 x 2.0 x 22.23	25	200975	
180 x 3.0 x 22.23	25	200786	
230 x 2.0 x 22.23	25	200979	
230 x 3.0 x 22.23	25	200807	

### FTK33 A24Q-BF21

		Shape 42	
			
100 x 2.0 x 16.00	25	200840	
100 x 3.0 x 16.00	25	200843	
115 x 2.0 x 22.23	25	200983	
115 x 3.0 x 22.23	25	200853	
125 x 2.0 x 22.23	25	200988	
125 x 3.0 x 22.23	25	200891	
150 x 3.0 x 22.23	25	200922	
180 x 2.0 x 22.23	25	200992	
180 x 3.0 x 22.23	25	200928	
230 x 2.0 x 22.23	25	200995	
230 x 3.0 x 22.23	25	200943	



mm:  
**2,0-3,0**

**KSM**



**ALPHA**LINE ●○○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



**KSM A24P-BF25**

Shape 41	
115 x 3.0 x 22.23	25 200539
125 x 3.0 x 22.23	25 200543
150 x 3.0 x 22.23	25 200548
180 x 3.0 x 22.23	25 200509
230 x 3.0 x 22.23	25 200550

**KSMK A24P-BF33**

Shape 42		
100 x 2.0 x 16.00	15280	25 200629
115 x 3.0 x 22.23	13285	25 200631
125 x 3.0 x 22.23	12200	25 200636
180 x 3.0 x 22.23	8600	25 200643
230 x 3.0 x 22.23	6600	25 200652

Cutting

mm:  
**3,0-4,0**

**FT30**



**PRO**LINE ●●○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material



**FT30 A24P-BF511**

Shape 41	
300 x 3.0 x 20.00	25 201142
300 x 3.0 x 22.23	25 201150
300 x 3.0 x 25.40	25 201166
350 x 4.0 x 20.00	10 201182
350 x 4.0 x 22.23	10 201184
350 x 4.0 x 25.40	10 201187

# Freehand cutting discs / non-ferrous metals



**Material:**

- Non-ferrous metals
- Bronze
- Brass
- Bearing metal
- Al-alloy

Special filling materials prevent clogging of the disc



**i** A good dust extraction system is a must in closed rooms since high concentrations of aluminium dust can lead to explosions.

mm:

**2,0-2,5**

**FT24**



**TOPLINE** ●●●

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

**FT24 A24P-BF26**

	Shape 41	
125 x 2.0 x 22.23	25	202460
180 x 2.5 x 22.23	25	201048
230 x 2.5 x 22.23	25	201055

**FTK24 A24P-BF34**

	Shape 42	
115 x 2.0 x 22.23	25	201064
125 x 2.0 x 22.23	25	201070
230 x 2.5 x 22.23	25	201079



# Freehand cutting discs / stone



**Material:**

- Concrete products / floor pavement
- Limestones
- Artificial stones
- Natural stones
- Marble
- hard aluminium



**i** Need to cut asphalt? Ideal results can be achieved with our FT40 resin-bonded cutting disc or the LD70 diamond cutting disc.

mm: **2,0-3,0** FT44



**PROLINE** ●●○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

**FT44 C30Q-BF47**

		Shape 41	
100 x 2.5 x 16.00	25	201737	
115 x 3.0 x 22.23	25	201750	
125 x 3.0 x 22.23	25	201743	
180 x 3.0 x 22.23	25	201764	
230 x 3.0 x 22.23	25	201788	

**FTK44 C30Q-BF48**

		Shape 42	
100 x 2.0 x 16.00	25	201804	
115 x 3.0 x 22.23	25	201810	
125 x 3.0 x 22.23	25	201838	
150 x 3.0 x 22.23	25	201863	
180 x 3.0 x 22.23	25	201867	
230 x 3.0 x 22.23	25	201873	



mm: **3,0-4,0** FT40



**PROLINE** ●●○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

Also suitable for work in asphalt

**FT40 C24R-BF610**

		Shape 41	
300 x 3.0 x 20.00	25	201910	
300 x 3.0 x 22.23	25	201911	
300 x 3.0 x 25.40	25	201912	
350 x 4.0 x 20.00	10	201933	
350 x 4.0 x 25.40	10	201940	



# Stationary cutting discs



Stationary cutting discs for stationary cutters and cut-off saws are characterised by a long life and high cutting ability.

**Product Advantages:**

- High cutting speed
- Long lifetime
- Comfortable cutting behaviour
- Easy cutting
- Efficient



Pay attention to the speeds as shown on the label. These tell you which machines the disc can be used on.

# Stationary cutting discs / stainless steel



## Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Tool steels
- Hardened steels
- Hardox
- High tensile metal sheets



Iron and sulphur free



Please note that stationary cutting discs are NOT suitable for freehand cutting

mm:

**2,5-3,0**

**ST38**



**TOP LINE** ●●●



- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

The ST38 was especially developed for chop saws for the cutting of stainless steel. The high percentage of zirconium contained renders the ST38 significantly more efficient than typical cutting discs for stationary cutting machines.

**ST38 31A24P9-BF13083**

Shape 41	
300 x 2.5 x 25.40	10 209498
350 x 2.5 x 25.40	10 209499
400 x 3.0 x 25.40	10 209500

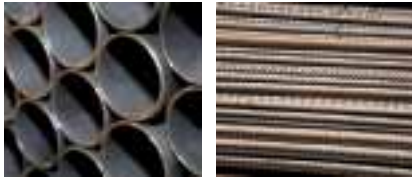


# Stationary cutting discs / steel



### Material:

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- Hardox
- Concrete reinforcing iron (rebar)



Please note that stationary cutting discs are NOT suitable for freehand cutting

mm:  
**3,0-5,0**

**ST56**



**PROLINE** ●●○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

Strengthened outer reinforcement for a high working speed of 100 m/s

### ST56 A24R-BF564

		Shape 41	
		📦	🖨️
300 x 3.0 x 25.40	10	201397	
350 x 3.5 x 25.40	10	201415	
400 x 4.0 x 40.00	10	201432	
500 x 5.0 x 40.00	10	201457	



mm:  
**2,5-3,0**

**ST34**



**ALPHALINE** ●○○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

Especially designed for chop saws

### ST34 A36N8BF348

		Shape 41	
		📦	🖨️
300 x 2.5 x 25.40	10	201510	
300 x 2.5 x 32.00	10	209501	
300 x 3.0 x 25.40	10	201507	
300 x 3.0 x 32.00	10	206523	
350 x 2.5 x 25.40	10	201518	
350 x 2.5 x 32.00	10	205836	
350 x 3.0 x 25.40	10	201514	
350 x 3.0 x 32.00	10	205578	
400 x 3.0 x 25.40	10	201504	
400 x 3.0 x 32.00	10	206455	



mm:  
**3,0-4,0**

**ST21**



**ALPHALINE** ●○○

- Lifetime
- Cutting ability solid material
- Cutting ability thin-walled material

Strengthened outer reinforcement for a high working speed of 100 m/s

**ST21 A24R-BF211**

Shape 41	
300 x 3.0 x 22.23	10 201304
300 x 3.0 x 25.40	10 201305
300 x 3.0 x 32.00	10 201307
350 x 3.0 x 32.00	10 209502
350 x 3.5 x 25.40	10 201330
400 x 4.0 x 32.00	10 201353
400 x 4.0 x 40.00	10 201354



Cutting

# Diamond cutting discs

## Efficiency due to maximum lifetime

Regardless if they have to work on natural stone, tiles or concrete – professional users expect clean cuts and a long lifetime from a diamond cutting disc. There are three main factors which decide the way in which a diamond cutting disc behaves during use: the quality of the diamonds, the bond strength of the segments and the shape of the cutting edge. We will explain the decisive factors in the manufacture of diamond cutting discs on the following page.

## Solutions for any type of application

There is no universal diamond cutting disc you can use for every kind of application. The material to be processed is decisive for the choice of the optimum tool. More than 25 years of experience have gone into our diamond tools. This means that we can offer you brilliant solutions for all common materials and applications.



Cutting



# The diamond – extremely hard and easy-cutting

High-grade, industrially manufactured diamonds ensure the constant high quality of our diamond tools. They are made from graphite under extreme pressure at high temperatures. This means that unlike natural diamonds, their properties can be reproduced at any time.

The following quality features are very important when using diamond tools:

- Purity
- Defined ultimate strength
- Sharp edges
- Constant geometry



## The binding segment

The diamonds in a diamond cutting disc are integrated in the segment in a metal bond. The composition of the metal powder is chosen depending on the cutting disc's field of use. If abrasive building materials are to be cut, a hard segment bond is chosen. If the cutting disc is for hard materials, a soft bond is the right choice. The various properties of the metal bond thus affect the cutting ability and segment wear.



### Your path to the right product

The material decides which diamond tool is the right one for your individual application case. Simply consult the relevant application matrix (e.g. concrete) in the corresponding product chapter and select a product in the quality of your choice.



## The cutting edge types

The shape of the cutting edge is also of decisive importance for the stock removal performance of the diamond cutting disc and the impression of the cut during use. Generally, we differentiate between three cutting edge types:

### Short cutting times

Diamond cutting disc with turbo cutting edge

Maximum performance through segment height up to 17.0 mm

Diamond cutting disc with segmented cutting edge

mm: 7,0-17,0

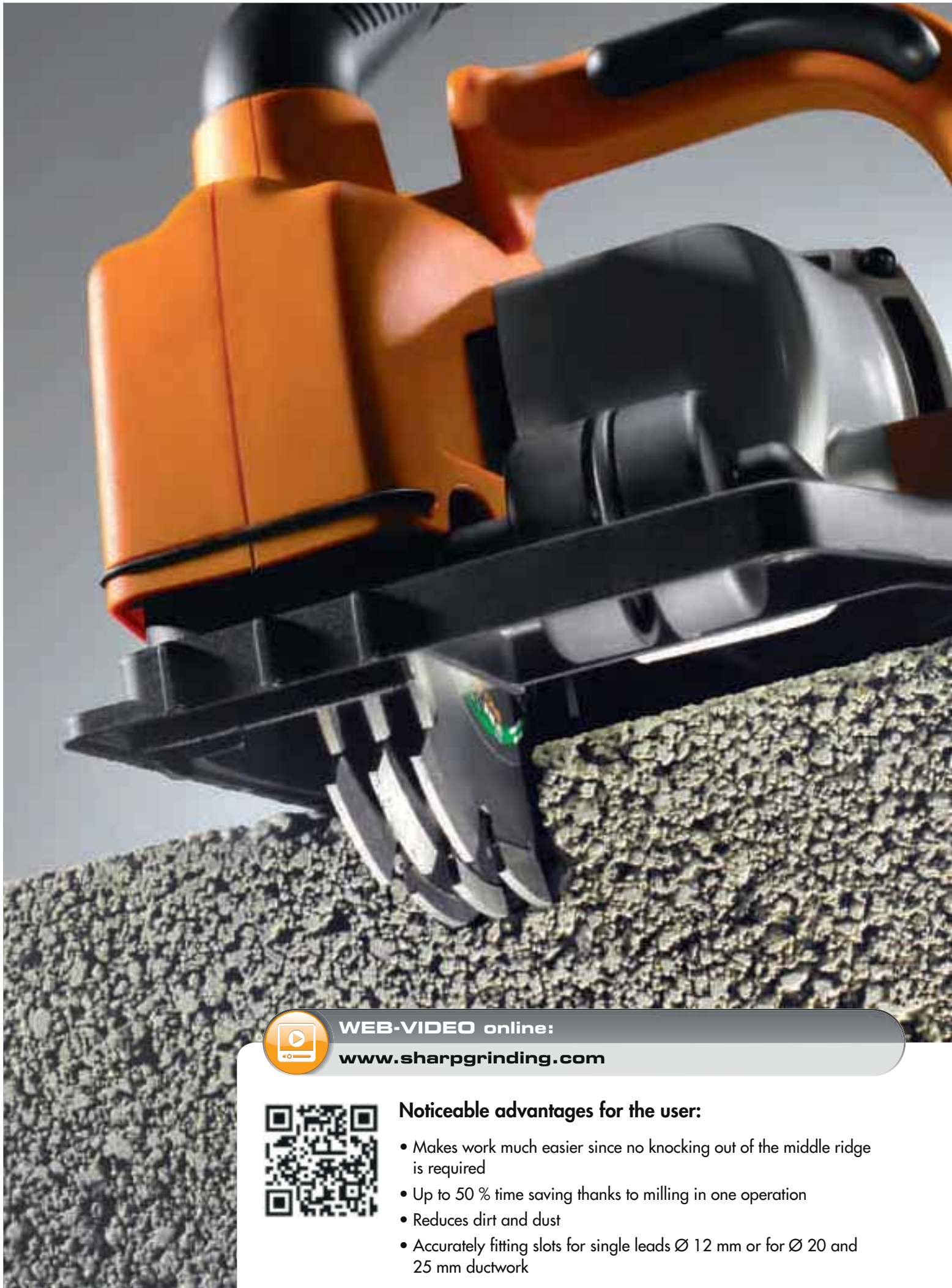
mm: 7,0

mm: 7,0

Clean cutting edges

Diamond cutting disc with closed cutting edge

# Easy milling in one operation



**WEB-VIDEO online:**  
[www.sharpgrinding.com](http://www.sharpgrinding.com)



## Noticeable advantages for the user:

- Makes work much easier since no knocking out of the middle ridge is required
- Up to 50 % time saving thanks to milling in one operation
- Reduces dirt and dust
- Accurately fitting slots for single leads  $\varnothing$  12 mm or for  $\varnothing$  20 and 25 mm ductwork

# BRAINTOOLS® ALL IN ONE



LD402/LD403  
ALL IN ONE



**BRAINTOOLS®**

- ● ● ● ● Lifetime
- ● ● ● ● Cutting ability

The ALL IN ONE allows the fast and comfortable milling of wall slots in a variety of stone materials (including reinforced ones). Thanks to the clever system of staggered segments, you can now, for the first time, mill accurately-sized wall slots and remove all the material cleanly from the slot. No more troublesome knocking out of the middle ridge. The efficient, laser-welded ALL IN ONE disc system mills aggressively and has a long lifetime.

Cutting



- Material:**
- Limestones
  - Aerated concrete
  - Pumice
  - Concrete products
  - Concrete
  - Reinforced concrete
  - Fireclay bricks

- Application examples:**
- Easy milling of wall slots in only one operation

## LD402 ALL IN ONE

125 x 7.0 x 18.0 x 22.23	1	303670
150 x 7.0 x 18.0 x 22.23	1	303671

## LD403 ALL IN ONE

125 x 7.0 x 28.5 x 22.23	1	303621
150 x 7.0 x 28.5 x 22.23	1	303622

**i** You can find our recommendation for suitable wall chasing machines at [www.sharpgrounding.com](http://www.sharpgrounding.com)  
Minimum performance requirement:  
Ø 125 mm - 1,800 W / Ø 150 mm - 2,200 W  
Not suitable for the use on angle grinders

## WALL SLOT CLIPS

OMEGA type A (LD402)	100	303673
OMEGA type B (LD403)	100	303625

Just directly order together with the main product

18 mm      28.5 mm



Fast assembly through firmly joined disc system.  
Double-system for 20 mm slot width.  
Triple-system for 30 mm slot width.

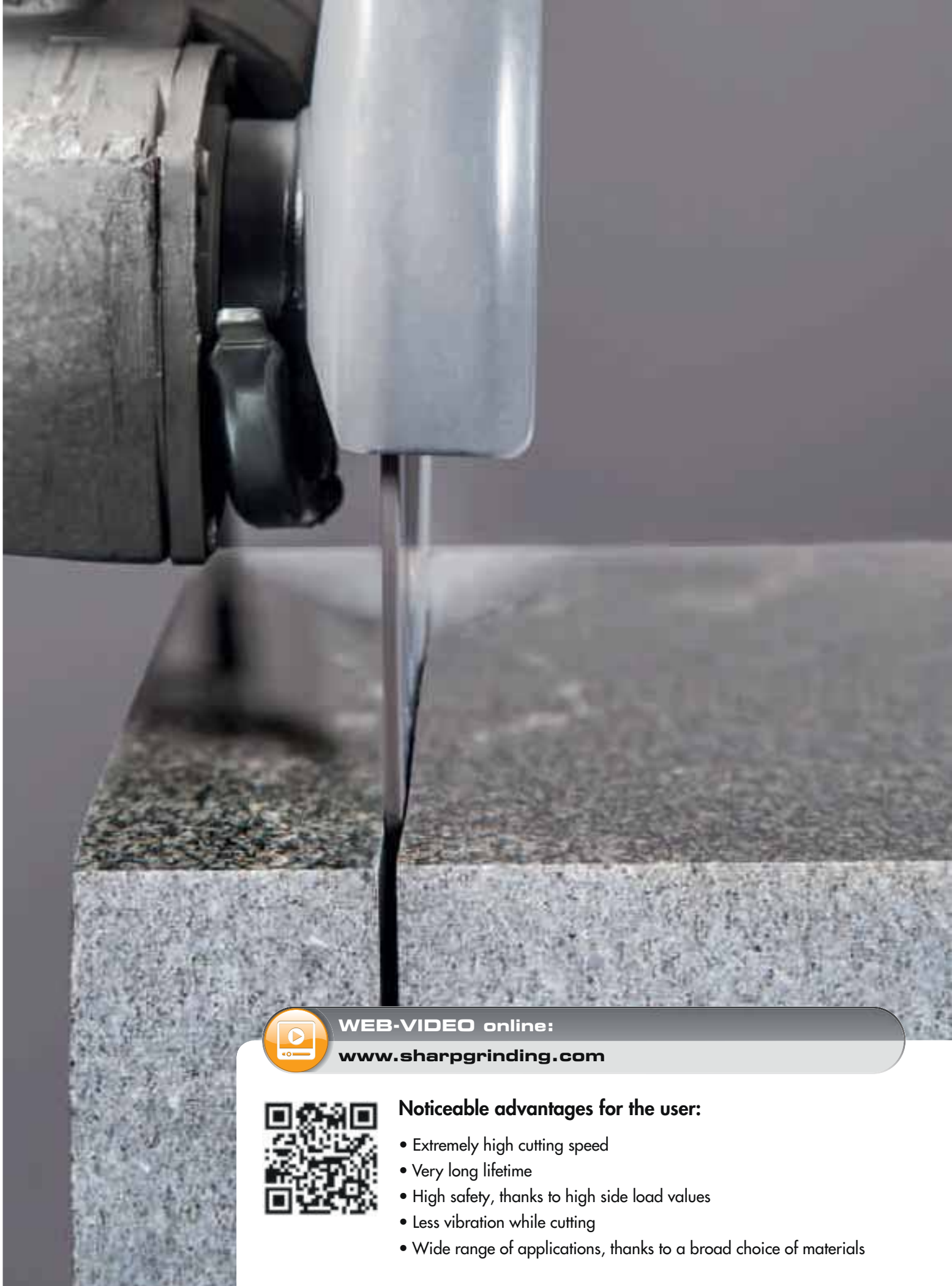


Staggered diamond segments enable milling with no ridge. This also prevents any clogging of the disc.



OMEGA wall slot clip type A ideal for Ø 12 mm single cables.  
OMEGA wall slot clip type B ideal for Ø 20 mm and 25 mm ductwork.

# Highest cutting speed in hard materials



**WEB-VIDEO online:**  
[www.sharpgrinding.com](http://www.sharpgrinding.com)



## **Noticeable advantages for the user:**

- Extremely high cutting speed
- Very long lifetime
- High safety, thanks to high side load values
- Less vibration while cutting
- Wide range of applications, thanks to a broad choice of materials

# BRAINTOOLS® LD410 SPEED

mm: **13,0-17,0**

LD410  
SPEED



**BRAINTOOLS®**

●●●●● Lifetime  
●●●●● Cutting ability

The LD410 SPEED cuts even the hardest natural stone, such as granite, cleanly and extremely fast. The outstanding cutting ability has been made possible by a new manufacturing process for forged segments with a high-density and pore-free bond. The LD410 SPEED has a very high cutting speed and long lifetime compared to conventionally sintered diamond disc segments. The better welding properties of the segments and the resulting firm bond with the steel core ensure greater safety against segment breakage.

Cutting

**Material:**

- Hard natural stone (e.g. granite)
- Reinforced concrete
- Washed-out concrete
- Building materials / Bricks / Fireclay

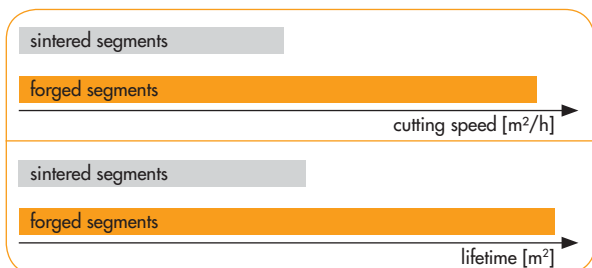
**Application examples:**

- Road kerb
- Pumice stone
- Structural plaster
- Wall openings
- Cutting of floor slabs
- Window sills
- Stairs



**LD410 SPEED**

Size	Quantity	Part No.
115 x 13.0 x 2.4 x 22.23	1	303712
125 x 13.0 x 2.4 x 22.23	1	303713
150 x 13.0 x 2.4 x 22.23	1	303714
180 x 13.0 x 2.4 x 22.23	1	303715
230 x 17.0 x 2.8 x 22.23	1	303716
300 x 17.0 x 2.8 x 20.00	1	303717
300 x 17.0 x 2.8 x 25.40	1	303718
350 x 17.0 x 3.0 x 20.00	1	303719
350 x 17.0 x 3.0 x 25.40	1	303720
400 x 17.0 x 3.2 x 20.00	1	303721
400 x 17.0 x 3.2 x 25.40	1	303722



Comparison of cutting speed and lifetime for forged and sintered segments

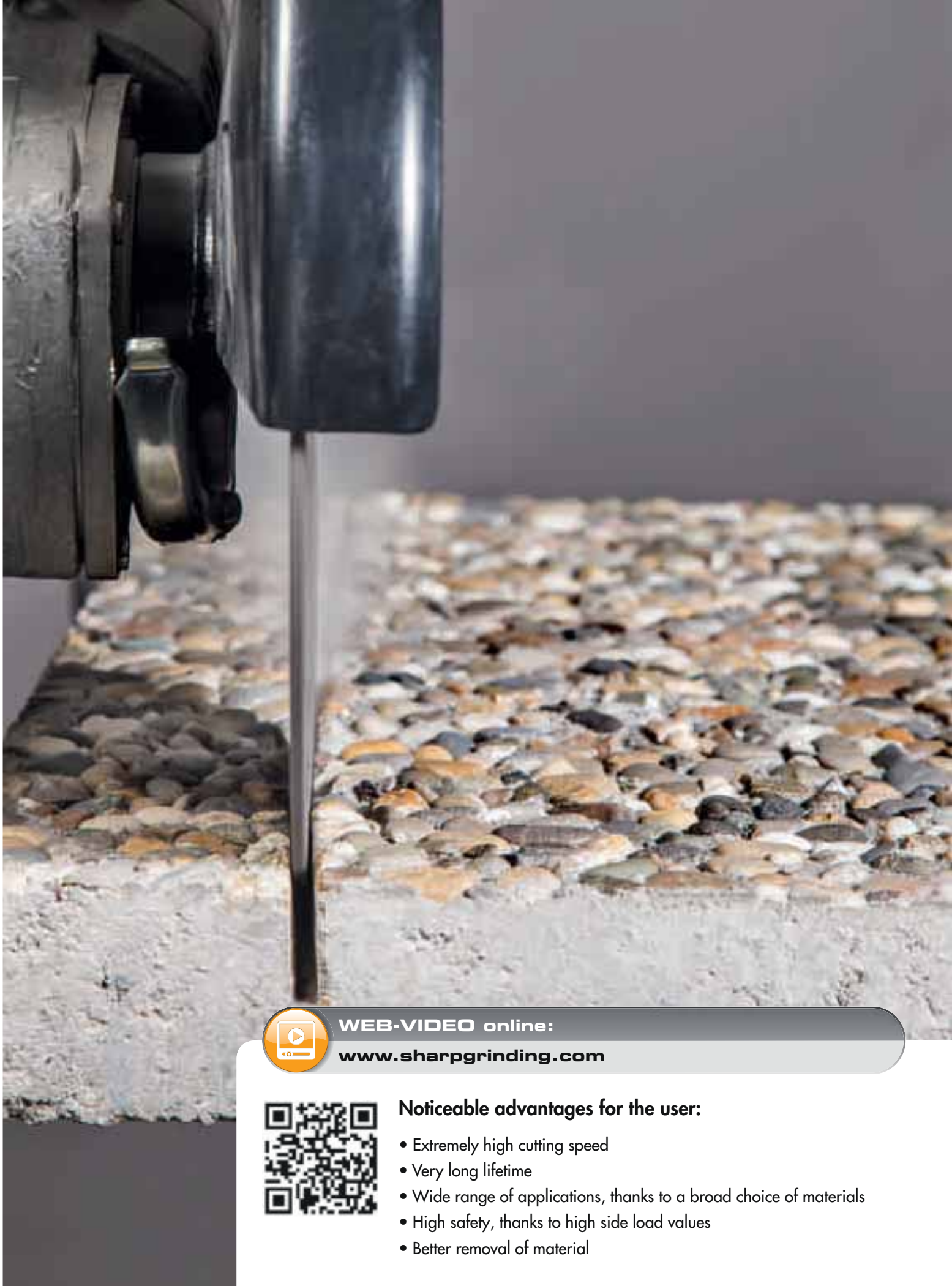


The vibration load can be minimised thanks to more uniform narrow gaps between the segments.



The new forging process renders segment heights of up to 17 mm possible

# Extremely fast cutting with a long lifetime



**WEB-VIDEO online:**  
[www.sharpgrinding.com](http://www.sharpgrinding.com)



## Noticeable advantages for the user:

- Extremely high cutting speed
- Very long lifetime
- Wide range of applications, thanks to a broad choice of materials
- High safety, thanks to high side load values
- Better removal of material

# BRAINTOOLS® LD200 SPEED

mm:  
**13,0**

LD200  
SPEED



**BRAINTOOLS®**

●●●●● Lifetime  
●●●●● Cutting ability

The forged diamond segments of the LD200 SPEED allow higher performances at a high cutting speed and long lifetime compared to conventionally sintered segments. Under high pressure, forging produces high-density and pore-free segments. The LD200 SPEED combines outstanding cutting ability with a long lifetime for a wide range of materials, from reinforced concrete to abrasive materials. Better weld properties of the segments lead to a stronger bond with the steel core and thus greater safety against breakage.

Cutting

**Material:**

- Concrete
- Washed-out concrete
- Abrasive materials
- Limestones
- Building materials / Bricks / Fireclay

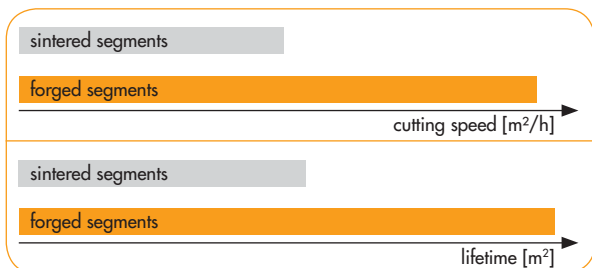
**Application examples:**

- Road kerb
- Pumice stone
- Structural plaster
- Wall openings
- Cutting of floor slabs
- Stairs
- Cutting of expansion joint



**LD200 SPEED**


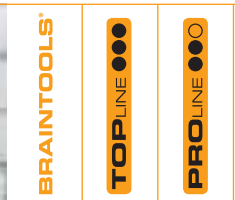

Size (mm)	Quantity	Product Code
115 x 13.0 x 2.4 x 22.23	1	303723
125 x 13.0 x 2.4 x 22.23	1	303724
150 x 13.0 x 2.4 x 22.23	1	303725
180 x 13.0 x 2.4 x 22.23	1	303726
230 x 13.0 x 2.6 x 22.23	1	303727
300 x 13.0 x 2.8 x 20.00	1	303728
300 x 13.0 x 2.8 x 25.40	1	303729
350 x 13.0 x 3.0 x 20.00	1	303730
350 x 13.0 x 3.0 x 25.40	1	303731
400 x 13.0 x 3.2 x 20.00	1	303732
400 x 13.0 x 3.2 x 25.40	1	303733
450 x 13.0 x 3.6 x 25.40	1	303734
500 x 13.0 x 3.6 x 25.40	1	303735
600 x 13.0 x 3.6 x 25.40	1	303736
700 x 13.0 x 3.6 x 25.40	1	303737
800 x 13.0 x 3.6 x 25.40	1	303738
900 x 13.0 x 4.4 x 25.40	1	303739
1000 x 13.0 x 4.4 x 25.40	1	303740
1200 x 13.0 x 4.4 x 25.40	1	303741



Comparison of cutting speed and lifetime for forged and sintered segments

Larger uniform gaps between the individual segments allow for an optimum removal of materials in abrasive materials

# Diamond cutting discs / universal, concrete Application matrix

					
<b>Material examples</b>					
			<b>Quality</b>		
			<b>BRAINTOOLS</b>		
			<b>TOPLINE</b>		
			<b>PROLINE</b>		
			<b>ALPHALINE</b>		
Granite / Hard natural stone	very hard	LD410 SPEED	LD100 MATRIX	LD40	
Reinforced concrete		LD200 SPEED	LD2		
Washed-out concrete	soft				
Concrete					
Building materials / Bricks / Fireclay					
Abrasive materials / (Lime) sand stones / Asphalt / Floor pavement	abrasive				

● suitable  
● particularly suitable



## LD100 MATRIX

**TOPLINE**

●●●●○ Lifetime  
●●●●○ Cutting ability



Systematic arrangement of the diamonds for a constant cutting ability and long lifetime. For soft to very hard materials such as natural stone and concrete.

### LD100 MATRIX

Size	Quantity	Part No.
115 x 10.0 x 2.4 x 22.23	1	303378
125 x 10.0 x 2.4 x 22.23	1	303379
150 x 10.0 x 2.4 x 22.23	1	303394
180 x 10.0 x 2.4 x 22.23	1	303380
230 x 12.0 x 2.6 x 22.23	1	303381
300 x 12.0 x 2.8 x 25.40 <sup>1)</sup>	1	303376
350 x 12.0 x 3.2 x 25.40 <sup>1)</sup>	1	303377

<sup>1)</sup> Reducing bushes - 20.00 and 22.23 mm - are included



Systematic arrangement for consistent high performance



## LD4

**TOPLINE**

●●●●○ Lifetime  
●●●●○ Cutting ability



### LD4

Size	Quantity	Part No.
115 x 12.0 x 2.2 x 22.23	1	303160
125 x 12.0 x 2.2 x 22.23	1	303161
150 x 12.0 x 2.4 x 22.23	1	303162
180 x 12.0 x 2.4 x 22.23	1	303163
230 x 12.0 x 2.4 x 22.23	1	303164
300 x 12.0 x 2.8 x 20.00	1	303165
300 x 12.0 x 2.8 x 25.40 <sup>1)</sup>	1	303428
350 x 12.0 x 2.8 x 20.00	1	303166
350 x 12.0 x 2.8 x 25.40 <sup>1)</sup>	1	303429

<sup>1)</sup> Reducing bushes - 20.00 and 22.23 mm - are included



mm: **10,0**

## LD2



**TOPLINE** ●●●

●●●●●● Lifetime  
●●●●●○ Cutting ability

### LD2

	+	+	+
115 x 10.0 x 2.4 x 22.23	1	302302	
125 x 10.0 x 2.4 x 22.23	1	302303	
150 x 10.0 x 2.4 x 22.23	1	302304	
180 x 10.0 x 2.4 x 22.23	1	302305	
230 x 10.0 x 2.6 x 22.23	1	302306	



Cutting

mm: **10,0**

## LD40



**PROLINE** ●●●○

●●●○○○ Lifetime  
●●●○○○ Cutting ability

### LD40

	+	+	+
115 x 10.0 x 2.2 x 22.23	1	302448	
125 x 10.0 x 2.2 x 22.23	1	302450	
150 x 10.0 x 2.4 x 22.23	1	393538	
180 x 10.0 x 2.4 x 22.23	1	302452	
230 x 10.0 x 2.4 x 22.23	1	302454	
300 x 10.0 x 2.5 x 20.00	1	302456	
300 x 10.0 x 2.5 x 25.40 <sup>1)</sup>	1	303437	
350 x 10.0 x 2.8 x 20.00	1	302514	
350 x 10.0 x 2.8 x 25.40 <sup>1)</sup>	1	303438	



<sup>1)</sup> Reducing bushes - 20.00 and 22.23 mm - are included

mm: **7,0**

## LD50



**ALPHALINE** ●○○

●●○○○○ Lifetime  
●●○○○○ Cutting ability

### LD50


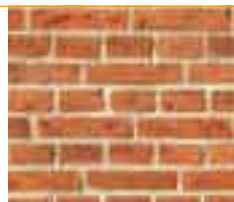

	+	+	+
115 x 7.0 x 2.0 x 22.23	1	303185	
125 x 7.0 x 2.2 x 22.23	1	303186	
150 x 7.0 x 2.4 x 22.23	1	303187	
180 x 7.0 x 2.4 x 22.23	1	303188	
230 x 7.0 x 2.4 x 22.23	1	303189	
300 x 7.0 x 2.5 x 25.40 <sup>1)</sup>	1	303446	
350 x 7.0 x 2.8 x 25.40 <sup>1)</sup>	1	303447	



<sup>1)</sup> Reducing bushes - 20.00 and 22.23 mm - are included

# Diamond cutting disc / ALLCUT

## Application matrix

			<b>BRAINTOOLS</b>	<b>TOPLINE</b> ●●●	<b>PROLINE</b> ●●○	<b>ALPHALINE</b> ●○○
Material examples		Quality				
Universal materials / Steel / Ductile pipes / Concrete reinforcing iron	hard		DG210 ALLCUT			
Reinforced concrete / Building materials						
Brick / Plastic / FRP	soft					

● suitable

mm: **3,0**

DG210  
**ALLCUT**



**TOPLINE** ●●●

●●●●○○ Lifetime  
●●●●○○ Cutting ability




### DG210 ALLCUT

Size (mm)	Quantity	Part No.
115 x 3.0 x 2.5 x 22.23	1	303387
125 x 3.0 x 2.5 x 22.23	1	303388
150 x 3.0 x 2.5 x 22.23	1	303389
180 x 3.0 x 2.8 x 22.23	1	303390
230 x 3.0 x 2.8 x 22.23	1	303391
300 x 3.0 x 3.1 x 25.40 <sup>1)</sup>	1	303366
350 x 3.0 x 3.1 x 25.40 <sup>1)</sup>	1	303368
400 x 3.0 x 3.3 x 25.40 <sup>1)</sup>	1	303369
500 x 3.0 x 3.9 x 25.40 <sup>1)</sup>	1	303370
600 x 3.0 x 4.1 x 25.40 <sup>1)</sup>	1	303371

<sup>1)</sup> Reducing bushes - 20.00 and 22.23 mm - are included

# Diamond cutting discs / asphalt

## Application matrix

	<b>BRAINTOOLS®</b>	<b>TOPLINE</b> ●●●	<b>PROLINE</b> ●●○	<b>ALPHALINE</b> ●○○
<b>Application</b>	<b>Quality</b>			
Freehand cutting up to Ø 400 mm		LD70	LD60	
Self-propelled joint cutter from Ø 350 mm				

● particularly suitable



### LD70



**TOPLINE** ●●●

●●●○○○ Lifetime  
●●●●○○ Cutting ability

High safety through oblique protective segments

**i** For joint cutter up to 15 kW

LD70

	+	+	+
300 x 13.0 x 2.8 x 20.00	1	393459	
300 x 13.0 x 2.8 x 25.40 <sup>1)</sup>	1	303512	
350 x 13.0 x 3.0 x 20.00	1	393474	
350 x 13.0 x 3.0 x 25.40 <sup>1)</sup>	1	303489	
400 x 13.0 x 3.2 x 20.00	1	303742	
400 x 13.0 x 3.2 x 25.40 <sup>1)</sup>	1	303490	
450 x 13.0 x 3.6 x 25.40	1	303491	
500 x 13.0 x 3.6 x 25.40	1	303492	
600 x 13.0 x 4.0 x 25.40	1	303493	
700 x 10.0 x 4.6 x 25.40	1	303743	
800 x 10.0 x 4.6 x 25.40	1	303744	
900 x 10.0 x 4.6 x 25.40	1	303745	

<sup>1)</sup> Reducing bush 20.00 mm is included



### LD60



**PROLINE** ●●○

●●●○○○ Lifetime  
●●●●○○ Cutting ability

High safety through oblique protective segments

**i** For joint cutter up to 7.5 kW

LD60

	+	+	+
300 x 10.0 x 3.2 x 20.00	1	303746	
300 x 10.0 x 3.2 x 25.40 <sup>1)</sup>	1	303494	
350 x 10.0 x 3.2 x 20.00	1	303747	
350 x 10.0 x 3.2 x 25.40 <sup>1)</sup>	1	303496	
400 x 10.0 x 3.5 x 20.00	1	303748	
400 x 10.0 x 3.5 x 25.40 <sup>1)</sup>	1	303497	
450 x 10.0 x 4.0 x 25.40	1	303498	
500 x 10.0 x 4.0 x 25.40	1	303499	

<sup>1)</sup> Reducing bush 20.00 mm is included



# Diamond cutting discs / natural and artificial stone

## Application matrix



Material examples	Quality	BRAINTOOLS	TOPLINE	PROLINE	ALPHA LINE
Granite / Hard natural stone	very hard		DG100 MATRIX		
Concrete / Exposed aggregate concrete			LD8	DG35	
Building materials / Brick	soft				DG55
High fired clinker / Slate / Limestone					

● suitable  
● particularly suitable

mm: **10,0**

**DG100 MATRIX**



**TOPLINE** ●●●

●●●●○ Lifetime  
●●●●○ Cutting ability

Systematic arrangement of the diamonds to provide continuous cutting drive and a long product life. It is recommended for use on very hard materials like natural and artificial stones.

### DG100 MATRIX

Dimensions	Quantity	Product Code
115 x 10.0 x 2.1 x 22.23	1	303382
125 x 10.0 x 2.1 x 22.23	1	303383
150 x 10.0 x 2.4 x 22.23	1	303384
180 x 10.0 x 2.5 x 22.23	1	303385
230 x 10.0 x 2.8 x 22.23	1	303386



Systematic arrangement for consistent high performance



mm: **13,0**

**LD8**



**TOPLINE** ●●●

●●●●○ Lifetime  
●●●●○ Cutting ability

### LD8

Dimensions	Quantity	Product Code
230 x 13.0 x 2.6 x 22.23	1	303749
300 x 13.0 x 2.8 x 30.00 <sup>1)</sup>	1	303750
350 x 13.0 x 3.0 x 30.00 <sup>1)</sup>	1	303751
400 x 13.0 x 3.0 x 30.00 <sup>1)</sup>	1	303752

<sup>1)</sup> Reducing bush 25.40 mm is included



mm:  
**7,5**

# DG35



**PROLINE** ●●○

●●●●○ Lifetime  
●●●○○ Cutting ability

## DG35

	+	+	+
115 x 7.5 x 2.0 x 22.23	1	302236	
125 x 7.5 x 2.0 x 22.23	1	302239	
180 x 7.5 x 2.3 x 22.23	1	302242	
230 x 7.5 x 2.5 x 22.23	1	302245	



Cutting

mm:  
**7,0**

# DG55



**ALPHALINE** ●○○

●●○○○ Lifetime  
●●○○○ Cutting ability




## DG55

	+	+	+
115 x 7.0 x 1.9 x 22.23	1	303402	
125 x 7.0 x 1.9 x 22.23	1	303404	
150 x 7.0 x 2.2 x 22.23	1	303406	
180 x 7.0 x 2.2 x 22.23	1	303408	
230 x 7.0 x 2.5 x 22.23	1	303410	



# Diamond cutting discs / tiles, ceramic

## Application matrix

			<b>BRAINTOOLS®</b>	<b>TOPLINE</b> ●●●	<b>PROLINE</b> ●●●	<b>ALPHALINE</b> ●●●
Material examples			Quality			
Hard fired tiles / Stoneware	hard		DG10	LD1		
Tiles / Ceramic				DG45	DG50	
Marble (tiles) / Plastic / FRP	soft			DG25		

● particularly suitable

mm: **7,5**





**DG10**



**TOPLINE** ●●●

●●●●○ Lifetime  
●●●●● Cutting ability

DG10

1) 	2) 
	
115 x 7.5 x 1.4 x 22.23 <sup>1)</sup>	1 303606
125 x 7.5 x 1.4 x 22.23 <sup>1)</sup>	1 303754
230 x 7.5 x 2.0 x 22.23 <sup>2)</sup>	1 303607
300 x 7.5 x 2.0 x 25.40 <sup>2)</sup>	1 303608
350 x 7.5 x 2.0 x 25.40 <sup>2)</sup>	1 303609



mm: **5,0**

**LD1**



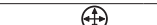



**TOPLINE** ●●●

●●●●○ Lifetime  
●●●●● Cutting ability

Extra-thin diamond cutting disc for fast, cool cuts with no edge nicks

LD1

1) 	2) 
	
115 x 5.0 x 1.2 x 22.23 <sup>1)</sup>	1 303101
125 x 5.0 x 1.2 x 22.23 <sup>1)</sup>	1 303102
180 x 5.0 x 1.4 x 22.23 <sup>2)</sup>	1 303103
230 x 5.0 x 1.4 x 22.23 <sup>2)</sup>	1 303104



mm:  
**7,5**

# DG45



**PROLINE** ●●○

●●●○○○ Lifetime  
●●●○○○ Cutting ability

## DG45

	+	+	+
115 x 7.5 x 1.6 x 22.23	1	302390	
125 x 7.5 x 1.6 x 22.23	1	302393	



mm:  
**3,0**

# DG25



**PROLINE** ●●○

●●○○○○ Lifetime  
●●●○○○ Cutting ability

## DG25

	+	+	+
115 x 3.0 x 2.4 x 22.23	1	303171	
125 x 3.0 x 2.4 x 22.23	1	303172	
180 x 3.0 x 2.6 x 22.23	1	303173	
230 x 3.0 x 3.0 x 22.23	1	303174	



mm:  
**5,0**

# DG50



**ALPHALINE** ●○○

●●○○○○ Lifetime  
●●○○○○ Cutting ability

## DG50

	+	+	+
115 x 5.0 x 1.6 x 22.23	1	303053	
125 x 5.0 x 1.6 x 22.23	1	303054	
150 x 5.0 x 1.6 x 22.23	1	303197	
180 x 5.0 x 1.6 x 22.23	1	303055	
180 x 5.0 x 1.6 x 25.40	1	303056	
180 x 5.0 x 1.6 x 30.00	1	303710	
200 x 5.0 x 1.6 x 30.00	1	303711	
230 x 5.0 x 1.6 x 22.23	1	303057	
230 x 5.0 x 1.6 x 25.40	1	303058	



# Product Designation

## The cutting disc label

**Material symbols**  
for the material to be processed:

- Stainless steel / Steel
- Stone
- Steel
- Cast-iron
- Non-ferrous metals

**Dimensions**  
in mm and inches

**125 x 1,0**

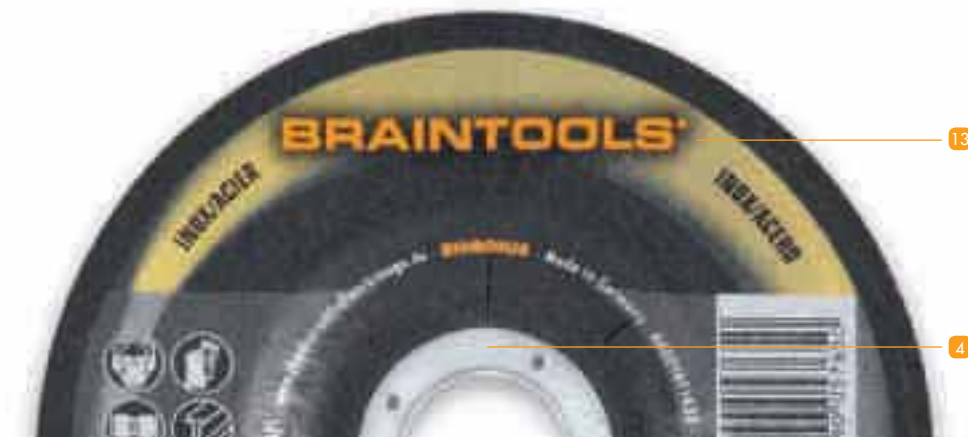
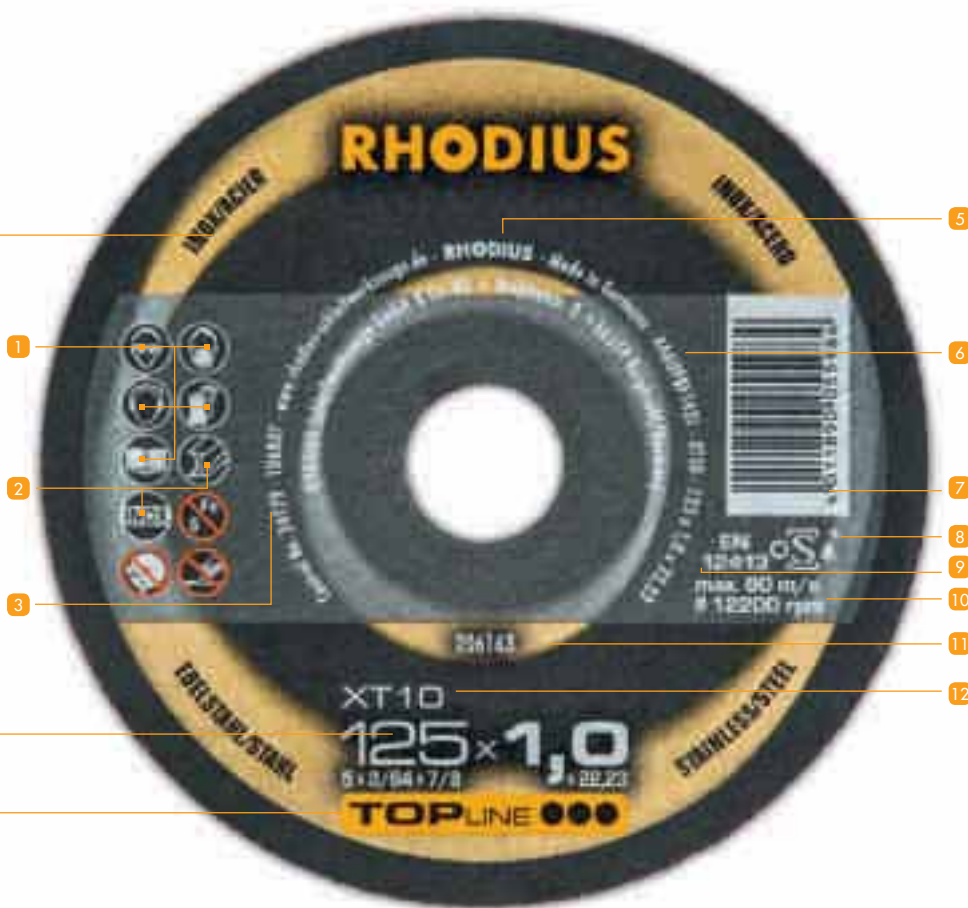
Disc diameter    Width of disc  
in mm

**Quality reference**  
(this code is not found on any  
BRAINTOOLS product)

**TOP**LINE ●●●

**PRO**LINE ●●○

**ALPHA**LINE ●○○



### General overview

- |   |  |   |
|---|--|---|
| <ul style="list-style-type: none"> <li>1 Safety pictograms &gt; See overview on fold-out page at end of catalogue</li> <li>2 Material pictograms &gt; See overview on fold-out page at end of catalogue</li> <li>3 Traceability code</li> <li>4 Info ring with expiry date</li> </ul> | <ul style="list-style-type: none"> <li>5 Manufacturer</li> <li>6 ISO name &gt; p 65</li> <li>7 Barcode</li> <li>8 oSa identification &gt; p 10</li> <li>9 European Standard for Bonded Grinding Tools</li> </ul> | <ul style="list-style-type: none"> <li>10 Maximum permissible working speed &gt; p 27</li> <li>11 Article Number</li> <li>12 Product reference</li> <li>13 Identification BRAINTOOLS &gt; p 13</li> </ul> |
|---|--|---|



# Designation of abrasive discs

## Designation of abrasive discs according to EN 12413:

On abrasive discs the type of grit, grit size, hardness, structure, bonding and code are indicated.

**A 24 U 9 BF 1337**

### Abrasive grit

**A** = Standard aluminium-oxide  
**Z** = Zirconium  
**C** = Silicon carbide

For graduations within the individual grit qualities, numbers may be added in front of the letter for the abrasive grit, e.g.:

**30A** = Semi-friable aluminium oxide  
**54A** = Pink aluminium oxide  
**56A** = White aluminium oxide  
**89A** = Special aluminium oxide

### Grit size

Grit size in MESH acc. to FEPA standards:

**04** to **24** = rough  
**30** to **60** = medium  
**70** to **220** = fine

### Degree of hardness

The hardness is specified with the letters **A** to **Z**. It increases from **A** to **Z**.

### Key

The Key contains operational information.

### Type of bonding

**B** = Synthetic resin bonding  
**BF** = Synthetic resin bonding with fibre reinforced

### Structure

The structure is identified by the numbers **0** to **14**. The higher the number, the more open the structure, and the more porous the abrasive disc.

## The material reference and safety designation



InOX/Stainless Steel



Steel



ALU Non ferrous metals, aluminium



Stone



Cast-iron



Protective gloves



Pay attention to the safety information



Eye protection



Dust protection



Ear protection



Iron and sulphur free  $\leq 0.1\%$



No freehand grinding



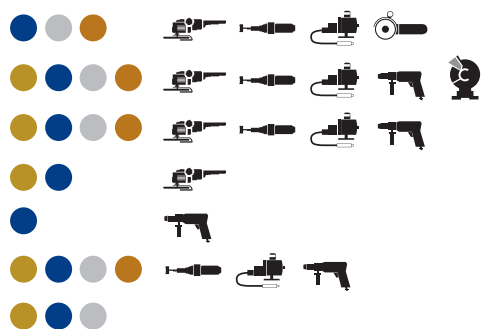
No face grinding



Do not use damaged disc



# Cleaning



Non-woven cleaning tools _____	<b>68</b>
Wheel brushes _____	<b>74</b>
Cup brushes _____	<b>78</b>
Bevel brushes _____	<b>82</b>
Flap wheel brushes _____	<b>84</b>
End brushes _____	<b>85</b>
Hand scratch brushes _____	<b>88</b>



# Non-woven cleaning tools



### Material:

- High tensile steels
- Structural steels
- Tool steels
- Non-ferrous metals
- Primer, GFK
- Wood

The cleaning nylon discs are made of a coarsely structured, hard nylon. The nylon structure adapts to the contours of the workpiece to ensure thorough cleaning. There is no geometric change to the surface since only foreign materials such as rust and discolourations are removed. No residues are left on the workpiece.



**i** Only for use on adjustable angle grinders. The nylon melts at excessively high speeds. The optimum speed range is between 3,000 and 7,000 rpm.

SVS

63  
m/s

**PROLINE** ●●○

### SVS

115 x 22.23		10	303150
125 x 22.23		10	303151



SVS MINI

**PROLINE** ●●○

### SVS MINI

55 x 15 x 6	12,100	10	305405
55 x 30 x 6	12,100	10	305406



# SVS GS



PROLINE ●●○

## SVS GS

⊕	⊖	📦	🖨️
100 x 13 x 13	8,000	10	305407
150 x 13 x 13	5,350	10	305408



# SVS PIN



PROLINE ●●○

## SVS PIN

⊕	📦	🖨️
6 x 12	1	305422
8 x 12	1	305423



# Technical brushes

## Brush types and applications



### Wheel brushes



Processing solid or hollow rods, profiles, welding seams, cut edges, toothed wheels, grooves, narrow surfaces.

- Roughing
- Burr removing
- Edge breaking
- Matt finishing
- Structuring
- De-rusting
- Cleaning
- Polishing
- Slag removal



### Cup brushes



Efficient processing of large areas, welding seams, metal plates.

- Cleaning
- Burr removing
- Slag removal
- De-rusting
- Lacquer removal



### Flap wheel brushes



The lightweight design means that the brushes can be easily driven with a drill.

- Roughing
- De-rusting
- Cleaning
- Matt finishing
- Structuring



### End brushes



Precision processing of inaccessible points and inside surfaces.

- Cleaning
- De-rusting
- Burr removing
- Slag removal



### Bevel brushes



Ideal tool for processing corners, edges or inaccessible points as well as surface cleaning. Combines the advantages of cup and wheel brushes.

- Cleaning
- Roughing



### Hand scratch brushes

For manual universal use.

- Roughing
- Cleaning
- De-rusting

# Fill materials

## Matching the material and the brush



### Quality steel wire crimped

- Most commonly used fill material
- For flexible brush tools
- Application: light surface treatment, deburring work



### Quality steel wire smooth / crimped

- High brush requirements
- For brush tools with a low flexibility
- Application: processing weld seams and removing heavy deposits of scale or corrosion



### Brass wire

- Surface finish of non-ferrous metals (NF-metals)



### Abrasive grinding bristles Aluminium oxide or Silicon carbide

- Nylon bristles impregnated with abrasive grit
- Easy deburring of steel, NF-metal and hard plastics
- Uniform abrasive action through abrasive release when worn
- High elasticity and flexibility with no risk of breakage

# Technical Information

## Working speed & maximum safe free speeds

### Surface speeds in metres per sec.

On each tool you can find the maximum safety turning speed. This speed is important to ensure your safety at work and must not be exceeded. Using angle grinders with an adjustable turning speed allows you to adjust their turning speed to the maximum allowed.

Brush diameter (in mm)												
min <sup>-1</sup>	20	40	50	80	100	125	150	180	200	250	300	350
800				3.35	4.19	5.23	6.28	7.53	8.37	10.47	12.56	14.75
900			2.35	3.77	4.71	5.88	7.06	8.48	9.41	11.77	14.12	16.47
1,150			3.01	4.81	6.01	7.52	9.02	10.83	12.03	15.04	18.04	21.04
1,200	1.26	2.51	3.14	5.02	6.28	7.85	9.41	11.30	12.55	15.69	18.83	21.97
1,400	1.46	2.93	3.66	5.86	7.32	9.15	10.98	13.18	14.64	18.31	21.97	25.63
1,500	1.57	3.14	3.92	6.28	7.85	9.81	11.77	14.13	15.69	19.61	23.54	27.46
1,800	1.88	3.77	4.71	7.54	9.41	11.77	14.12	16.95	18.83	23.54	28.24	32.95
2,000	2.09	4.19	5.23	8.37	10.26	13.08	15.69	18.84	20.92	26.15	31.38	36.61
2,500	2.62	5.23	6.54	10.47	13.08	16.35	19.61	23.55	26.15	32.67	39.23	45.76
2,800	2.93	5.86	7.32	11.72	14.64	18.31	21.97	26.37	29.29	36.61	43.93	51.25
3,000	3.14	6.28	7.85	12.56	15.69	19.62	23.54	28.26	31.38	39.23	47.07	54.92
3,200	3.35	6.70	8.37	13.40	16.74	20.92	25.10	30.14	33.47	41.84	50.21	58.58
3,500	3.66	7.33	9.15	14.65	18.31	22.89	27.46	32.97	36.61	45.76	54.92	64.07
4,000	4.19	8.37	10.46	16.75	20.92	26.16	31.38	37.68	41.84	52.33	62.76	73.22
4,500	4.70	9.42	11.77	18.84	23.54	29.43	35.30	42.40	47.07	58.84	70.61	82.43
5,000	5.23	10.47	13.08	20.93	26.15	32.70	39.23	47.10	52.33	65.38	78.50	
5,400	5.65	11.30	14.12	22.94	28.24	35.31	42.36	50.67	56.48	70.61	84.78	
6,000	6.28	12.56	15.69	25.12	31.38	39.24	47.07	56.62	62.76	78.50		
7,000	7.33	14.66	18.31	29.31	36.61	45.78	54.92	65.94	73.22	91.58		
8,000	8.37	16.75	20.92	33.94	41.48	52.32	62.76	75.36	83.73			
9,000	9.42	18.84	23.54	37.88	47.07	58.86	70.61	84.78	94.20			
10,000	10.47	20.93	26.17	41.86	52.33	65.40	78.50	94.20				
12,500	13.08	26.17	32.71	52.33	65.42	81.75	98.13					
15,000	15.70	31.40	39.25	62.80								
17,500	18.32	36.63	45.79	73.26								
20,000	20.93	41.87	52.33	83.75								
22,500	23.55	47.10	58.88	94.20								
25,000	26.17	52.33	65.42	104.66								

**Standard values:**  
for crimped wire 30–35 m/sec  
for nylon bristle 18–22 m/sec

### Recommended brush diameters for angle grinders

		Brush diameter (in mm)											
Ø	Machine outside diameter	60	65	75	80	90	100	115	120	125	150	175	
Wheel brush, knotted								115	115		125	150	180
Wheel brush, crimped								115	115				
Cup brush, knotted				115	125	150		180					
Cup brush, crimped			115		125	150		180					
Cup brush, abrasive								adjustable 150					

#### Working speed for Ø:

■ Ø 115 mm (4 1/2") 12.500 U/min<sup>-1</sup>

■ Ø 125 mm (5") 11.000 U/min<sup>-1</sup>

■ Ø 150 mm (6") 8.500 U/min<sup>-1</sup>

■ Ø 180 mm (7") 8.500 U/min<sup>-1</sup>

■ Ø 230 mm (9") 6.500 U/min<sup>-1</sup>



# Selecting the appropriate Rhodius brush



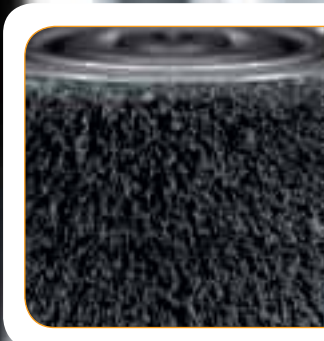
## Brush diameter and trim length of fill material

The brush diameter and length of fill material are the determining factors for the surface working result. A combination of smaller diameter brush body and greater length of fill material results in soft and flexible brushes which are ideally suitable for the treatment of structured workpieces and for easy, gentle surface working.

A larger diameter of the brush body and smaller length of fill material result in more aggressive brushes which can be used for deburring and removal of tougher dirt.

For the most efficient surface working, please select the maximum brush diameter, which can be mounted on the respective driving device. The peripheral speed and consequently the performance of the brush can be influenced by the brush diameter.

**Important:** Portable machines must only be used with brushes with maximum 180 mm diameter!



## Fill material density of the brush

The fill material density depends on the number of wire tips per surface unit.

High fill material densities are the basis for achieving optimal performance and lifetime of the brushes as well as perfect results, e.g. during deburring. Low fill material densities increase the flexibility of the brush and are ideal for the treatment of strongly profiled surfaces. If the brush diameter stays the same, the fill material density can be influenced by the measure of the body.



## Working- and clamping width of the brush

The working width describes the contact surface of the brush on the workpiece. The rotational speed of the brush during operation may influence the indicated maximum working width.

# Wheel brushes / stainless steel



## Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

Processing solid or hollow rods, profiles, welding seams, cut edges, toothed wheels, grooves, narrow surfaces.



mm:  
0,35-0,50

## ERBZ



TOPLINE ●●●

## ERBZ

	+	12,500	0.50	1	353004
	+	12,500	0.35	1	353005
	+	12,500	0.50	1	353006
	+	12,500	0.50	10	353080
	+	12,500	0.35	10	353081
	+	12,500	0.50	10	353082



mm:  
0,20

## ERBW



TOPLINE ●●●

## ERBW

	+	20,000	0.20	10	353049
	+	18,000	0.20	10	353051
	+	15,000	0.20	10	353124
	+	15,000	0.20	10	353158



# Wheel brushes / steel



## Material:

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

Processing solid or hollow rods, profiles, welding seams, cut edges, toothed wheels, grooves, narrow surfaces.



SRBZ

TOPLINE ●●●

## SRBZ

115 x 12 x 23 x 22.23	12,500	0.50	1	353001	
125 x 13 x 28 x 22.23	12,500	0.50	1	353002	
178 x 13 x 42 x 22.23	12,000	0.50	1	353003	
115 x 6 x 20 x 22.23	12,500	0.50	1	353007	
125 x 6 x 25 x 22.23	12,500	0.50	1	353008	
115 x 12 x 23 x 22.23	12,500	0.50	10	353077	
115 x 12 x 23 x M14	12,500	0.50	6	353135	
125 x 13 x 28 x 22.23	12,500	0.50	10	353078	
125 x 13 x 28 x M14	12,500	0.50	6	353132	
178 x 13 x 42 x 22.23	12,000	0.50	8	353079	
115 x 6 x 20 x 22.23	12,500	0.50	10	353083	
125 x 6 x 25 x 22.23	12,500	0.50	10	353084	
125 x 6 x 25 x M14	12,500	0.50	6	353130	



SRBZGS

TOPLINE ●●●

## SRBZGS

75 x 12 x 18 x 6.0	20,000	0.50	12	353046	
75 x 16 x 15 x 6.0	20,000	0.50	12	353142	



mm:  
0,20-0,30

# SRBWGS



TOP LINE ●●●

## SRBWGS

	⊕	⊖/min	📦	📦	📺
30 x 6 x 6 x 6.0		20,000	0.20	10	353048
30 x 12 x 6 x 6.0		20,000	0.30	10	353159
40 x 7 x 10 x 6.0		18,000	0.20	10	353050
40 x 16 x 10 x 6.0		18,000	0.20	10	353136
50 x 17 x 13 x 6.0		15,000	0.30	10	353047
60 x 18 x 15 x 6.0		15,000	0.20	10	353153



mm:  
0,30

# SRBWBM



TOP LINE ●●●

## SRBWBM

	⊕	⊖/min	📦	📦	📺
50 x 7 x 10 x 6.0		4,500	0.30	20	353027
75 x 10 x 16 x 6.0		4,500	0.30	10	353028
100 x 12 x 22 x 6.0		4,500	0.30	10	353029



mm:  
0,30

# SRBWST



PRO LINE ●●○

## SRBWST

	⊕	⊖/min	📦	📦	📺
150 x 16 x 32		6,000	0.30	1	353054



# Wheel brushes / non-ferrous metals, wood



## Material:

- Non-ferrous metals
- Wood
- Diecast zinc
- Plastics
- Varnished metal sheets

Easy burr removing on steel, NF metal, wood and hard plastics.



Cleaning



## HRB



**TOP**LINE ●●●

## HRB

⊕	⊖	⊘	⊙	⊚
75 x 12 x 16 x 6.0	4,500	coarse	10	353036
75 x 12 x 16 x 6.0	4,500	fine	10	353037
100 x 12 x 16 x 6.0	4,500	coarse	10	353038
100 x 12 x 16 x 6.0	4,500	fine	10	353039
140 x M14 x 2.0	2,500	46	1	353119
140 x M14 x 2.0	2,500	60	1	353120
140 x M14 x 2.0	2,500	80	1	353121
140 x M14 x 2.0	2,500	120	1	353122



# Cup brushes / stainless steel



### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

Efficient processing of large areas, welding seams, metal plates.



mm:  
**0,50**

**ETBZ**



**TOPLINE** ●●●

### ETBZ

65 x 20 x M14 x 2.0	12,500	0.50	1	353014
65 x 20 x M14 x 2.0	12,500	0.50	10	353087



mm:  
**0,30**

**ETBW**



**TOPLINE** ●●●

### ETBW

65 x 21 x M14 x 2.0	12,500	0.30	1	353020
65 x 21 x M14 x 2.0	12,500	0.30	9	353089



# Cup brushes / steel



### Material:

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

Efficient processing of large areas, welding seams, metal plates.



## STBZ

PROLINE ●●○

### STBZ

	⊕	mm	mm	mm	mm
65 x 20 x M14 x 2.0	12,500	0.35	1	353074	
65 x 20 x M14 x 2.0	12,500	0.50	1	353009	
75 x 20 x M14 x 2.0 *	11,000	0.50	1	353010	
80 x 20 x M14 x 2.0 *	8,500	0.50	1	353011	
100 x 20 x M14 x 2.0 *	8,500	0.50	1	353012	
110 x 20 x M14 x 2.0 *	6,500	0.50	1	353013	
65 x 20 x M14 x 2.0	12,500	0.35	10	353086	
65 x 20 x M14 x 2.0	12,500	0.50	10	353085	

\* with removable support ring



## STBZ S

TOPLINE ●●●

The oil-hardened wire guarantees a controlled wire breakage for higher lifetime

### STBZ S

	⊕	mm	mm	mm	mm
65 x 20 x M14 x 2.0	12,500	0.50	10	353148	



mm:  
**0,30**

## STBW



**PRO**LINE ●●○

### STBW

65 x 21 x M14 x 2.0	12,500	0.30	1	353015		
75 x 23 x M14 x 2.0	12,500	0.30	1	353016		
80 x 25 x M14 x 2.0	8,500	0.30	1	353017		
100 x 30 x M14 x 2.0	8,500	0.30	1	353018		
125 x 30 x M14 x 2.0	6,500	0.30	1	353019		
65 x 21 x M14 x 2.0	12,500	0.30	9	353088		



mm:  
**0,20-0,30**

## STBWGS



**TOP**LINE ●●●

### STBWGS

40 x 10 x 6.0	18,000	0.20	10	353137		
50 x 10 x 6.0	15,000	0.30	10	353138		
70 x 15 x 6.0	15,000	0.30	10	353139		



mm:  
**0,30**

## STBWBM



**TOP**LINE ●●●

### STBWBM

50 x 17 x 6.0	4,500	0.30	20	353030		
75 x 20 x 6.0	4,500	0.30	10	353031		





# Cup brushes / non-ferrous metals, wood



## Material:

- Non-ferrous metals
- Wood
- Diecast zinc
- Plastics
- Varnished metal sheets

Efficient processing of large areas. Long lifetime through break-proof nylon fill material.



## HTB



**TOP**LINE ●●●

## HTB

	⊕	⊖	▒	📦	📺
50 x 17 x 6.0	4,500	coarse	10	353040	
50 x 17 x 6.0	4,500	fine	10	353041	
75 x 23 x 6.0	4,500	coarse	10	353042	
75 x 23 x 6.0	4,500	fine	10	353043	
130 x M14 x 2.0	2,500	46	1	353115	
130 x M14 x 2.0	2,500	60	1	353116	
130 x M14 x 2.0	2,500	80	1	353117	
130 x M14 x 2.0	2,500	120	1	353118	



# Bevel brushes / stainless steel



### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

Ideal tool for processing corners, edges or inaccessible points as well as surface cleaning. Combines the advantages of cup and wheel brushes.



mm:  
**0,50**

**EKBZ**



**TOPLINE** ●●●

### EKBZ

	+	12,500	0.50	1	353023
	+	12,500	0.50	1	353024
	+	12,500	0.50	10	353092
	+	12,500	0.50	8	353093



mm:  
**0,30**

**EKBW**



**TOPLINE** ●●●

### EKBW

	+	12,500	0.30	1	353026
	+	12,500	0.30	10	353095



# Bevel brushes / steel



### Material:

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

Ideal tool for processing corners, edges or inaccessible points as well as surface cleaning. Combines the advantages of cup and wheel brushes.



mm:  
**0,50**

**SKBZ**

**PROLINE** ●●○

### SKBZ

100 x 13 x 22 x M14 x 2.0	12,500	0.50	1	353021
115 x 15 x 20 x M14 x 2.0	12,500	0.50	1	353022
100 x 13 x 22 x M14 x 2.0	12,500	0.50	10	353090
115 x 15 x 20 x M14 x 2.0	12,500	0.50	8	353091



mm:  
**0,30**

**SKBW**

**PROLINE** ●●○

### SKBW

100 x 10 x 20 x M14 x 2.0	12,500	0.30	1	353025
100 x 10 x 20 x M14 x 2.0	12,500	0.30	10	353094



# Flap wheel brushes / steel



**Material:**

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets



The lightweight design means that the brushes can be easily driven with a drill.



mm:

**0,30**

**SFBW**

**TOP**LINE ●●●

**SFBW**

100 x 23 x 25 x 6.0	3,500	0.30	6	353035	



# End brushes / stainless steel



### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

mm:  
**0,26**

**TOPLINE** ●●●

**EPBZ**



**i** The brush expands when the machine is running

### EPBZ

20 x 29 x 6.0	22,000 0.26	12	353053	



mm:  
**0,30**

**TOPLINE** ●●●

**EPBW**



### EPBW

17 x 25 x 6.0	18,000 0.30	12	353154	
25 x 25 x 6.0	18,000 0.30	12	353155	
30 x 25 x 6.0	15,000 0.30	12	353156	



# End brushes / steel



**Material:**

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

Precision processing of inaccessible points and inside surfaces.



mm:  
**0,35**

**SPBZ**

**TOPLINE** ●●●



**i** The brush expands when the machine is running

**SPBZ**

20 x 29 x 6.0	22,000	0.35	12	353052



mm:  
**0,30**

**SPBW**

**TOPLINE** ●●●



**SPBW**

17 x 25 x 6.0	4,500	0.30	12	353032
25 x 25 x 6.0	4,500	0.30	12	353033
30 x 25 x 6.0	4,500	0.30	12	353034



# End brushes / non-ferrous metals, wood



## Material:

- Non-ferrous metals
- Wood
- Diecast zinc
- Plastics
- Varnished metal sheets

Precision processing of inaccessible points and inside surfaces.



Cleaning



## HPB



TOPLINE ●●●

## HPB

25 x 25 x 6.0	4,500	coarse	12	353044
25 x 25 x 6.0	4,500	fine	12	353045



# Hand brushes / stainless steel



### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

For manual universal use.



mm:  
**0,30**

## EHBG



**TOPLINE** ●●●

### EHBG

≡≡≡			
⊕	📦	📦	📦
2 Rows	0,30	12	353150
3 Rows	0,30	12	353151
4 Rows	0,30	12	353075
5 Rows	0,30	12	353152



mm:  
**0,30**

## EHBW



**TOPLINE** ●●●

### EHBW

≡≡≡			
⊕	📦	📦	📦
2 Rows	0,30	12	353096
3 Rows	0,30	12	353097
4 Rows	0,30	12	353098
5 Rows	0,30	12	353099










mm:  
**0,30**

## UHBW

**PRO**LINE ●●○

### UHBW

				
For stainless steel	0,30	24	353060	
For steel	0,30	24	353059	
For non-ferrous metals	0,30	24	353061	








mm:  
**0,35**

## EKNB

**TOP**LINE ●●●

V-shaped fill material, ideal for cleaning hard-to-access weld seams and fillet welds

### EKNB

				
3 Rows	0,35	12	353106	



# Hand brushes / steel



**Material:**

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

For manual universal use.







mm:  
**0,35**

**SHBG**

**TOPLINE** ●●●

**SHBG**

	   		
2 Rows	0,35	12	353055
3 Rows	0,35	12	353056
4 Rows	0,35	12	353057
5 Rows	0,35	12	353058







mm:  
**0,30**

**BSBG**

**TOPLINE** ●●●

Optimised, slim geometry for cleaning brake calipers. Can be used for diverse applications thanks to the ergonomic handle and strong brush performance.

**BSBG**

	   		
2 Rows	0,30	10	353104



mm:  
**0,35**

**SKNB**

**TOPLINE** ●●●

V-shaped fill material, ideal for cleaning hard-to-access weld seams and fillet welds

**SKNB**

3 Rows	0,35	12	353105



# Hand brushes / non-ferrous metals



**Material:**

- Non-ferrous metals
- Diecast zinc
- Plastics
- Varnished metal sheets

For manual universal use. Gentle on the material thanks to crimped brass wire.

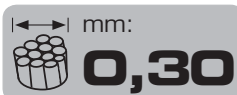


**MHBW**

**TOPLINE** ●●●

**MHBW**

2 Rows	0,30	12	353100
3 Rows	0,30	12	353101
4 Rows	0,30	12	353076
5 Rows	0,30	12	353102



**BSBW**

**TOPLINE** ●●●

Optimised, slim geometry for cleaning brake calipers. The crimped wire allows gentle cleaning of a variety of materials.

**BSBW**

2 Rows	0,30	10	353123



mm:  
**0,30**

ZKB

TOPLINE ●●●

Brush to clean the contact areas of ignition plugs

ZKB

3 Rows	0,30	24	353103

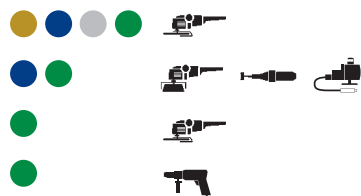






# Grinding

Grinding



Grinding discs _____	<b>98</b>
Grinding cups / cup wheels, resin-bonded _____	<b>106</b>
Diamond cup wheels _____	<b>108</b>
Core drill _____	<b>110</b>



# The quick way to the right product

Any good tool can only provide optimum results if it is perfectly matched to the material to be treated and the machine to be used. The overview on the page on the right will help you easily select the right product.



Grinding



Explanation of symbols			Grinding discs										Cup wheels			
			Reference	FS1 FUSION	RS48	RS38	RS28	RS67	RS2	RS22	KSM	RS24	RS66	NK	SIC	
Material	Application	Machine performance see p 26	Hardness / Lifetime	Quality reference	99	101	101	101	102	102	103	103	104	105	106	107
				Reference	99	101	101	101	102	102	103	103	104	105	106	107
				BRAINTOOLS*	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				TOP LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				PRO LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				ALPHA LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				TOP LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				PRO LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				ALPHA LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				TOP LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				TOP LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				PRO LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				PRO LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
				PRO LINE ●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●	●●●●
Stainless Steel	Edge	weak	○	○	●	●	●	●								
		strong			●	●	●	●								
	Surface	weak	○	○	●	●	●									
		strong			●	●	●	●								
	Hollow weld	all	●				○									
Steel	Edge	weak	○	●	●	●	●	●	●	●	●	●			●	
		strong		●	●	●	●	●	●	●	●	●			●	
	Surface	weak	○	○	●	●	●	○	●	●	●	●			●	
		strong			○	●	●	●	●	●	●	●			●	
	Hollow weld	all	●				○									
Refined-grain construction steel	universal	weak	○		●	●										
		strong		○		●	●									
Aluminium	universal	all										●	○			
Bronze, brass	universal	all					●					●	●			
Titanium	universal	all											●			
Cast-iron	universal	all			○					●			●*		●*	
Concrete universal / Granite	universal	all											●		●	
Building materials	universal	all											●		●	
Abrasive materials / Floor pavement	universal	all											●		●	

\* for metal penetrations

For high-frequency grinding machines driven by compressed air, only use the RS22 disc with additional fibreglass fabric.



# Fillet weld grinding with maximum lifetime



**WEB-VIDEO online:**  
[www.sharpgrinding.com](http://www.sharpgrinding.com)



## Noticeable advantages for the user:

- Processing narrow slits and corners
- Flat grinding angle for precise grinding of fillet welds
- Efficient through complete use when grinding fillet welds
- Choice of grain size 40/60/80

# BRAINTOOLS® FS1 FUSION

40/60/80

FS1  
FUSION



BRAINTOOLS®

- Lifetime
- Stock removal
- Hardness

The FS1 FUSION combines the long life of a grinding disc with the fine grinding pattern of a flap disc. It works with high finish in fillet welds so that the workpiece can be galvanised or lacquered immediately afterwards. It is available in various grits - doing away with additional fine grinding. Its clean cut with high stock removal ensures an outstanding stock removal performance. The FS1 FUSION can be profiled in the edge area to allow individual processing for almost every case.

**Material:**

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Hardened steels
- Structural steels
- Tool steels
- Grey cast iron
- Hardox

**Application examples:**

- Fillet weld treatment
- Edge grinding
- Surface grinding
- Levelling
- Burr removing
- Welding seams
- Weld seam preparation
- Forge grinding



FS1 FUSION 37A46P10BF1347

	Shape 27		
	+	+	+
115 x 4.0 x 22.23	40	10	207826
115 x 4.0 x 22.23	60	10	207827
115 x 4.0 x 22.23	80	10	207884
115 x 6.5 x 22.23	40	10	207817
115 x 6.5 x 22.23	60	10	207818
115 x 6.5 x 22.23	80	10	207881
125 x 4.0 x 22.23	40	10	207829
125 x 4.0 x 22.23	60	10	207830
125 x 4.0 x 22.23	80	10	207885
125 x 6.5 x 22.23	40	10	207820
125 x 6.5 x 22.23	60	10	207821
125 x 6.5 x 22.23	80	10	207882

Grinding



Economical since it can be used up completely when processing fillet welds



Inefficient, because most of the abrasive material remains unused



Long life cycle of a grinding disc. Fine Grinding surface pattern of a flap disc.

# Grinding discs

V[m/sec]	50	63	80	100
d1 [mm]	rpm			
100	9550	12030	15280	19100
110	8680	10940	13890	17360
115	8300	10460	13285	16610
125	7640	9630	12200	15280
150	6370	8020	10185	12730
180	5310	6685	8600	10610
230	4150	5230	6600	8300

The hardness of a grinding disc determines the lifetime as well as its stock removal and stock-removing efficiency.

A soft grinding disc is much more aggressive and offers a comfortable grinding behaviour.

A hard grinding disc is characterised by its long lifetime. We recommend hard grinding discs for edge grinding. Soft grinding discs can be used for surface grinding.

RHODIUS grinding discs are made in a thickness of 7 mm and with a special top layer. Grinding discs, unlike flap discs, are characterised by their high stock removal and cutting efficiency as well as lifetime.

### Common fields of application for grinding discs are:

- Weld seam preparation
- Burr removing
- Levelling
- Corner and edge grinding
- Levelling of welding seams

We recommend the use of flap discs for more comfortable surface grinding. You will find these from page 120 onwards.

### Advantages of the special top layer:

- Almost no edge cracks
- Circular, low-vibration running
- Uniform wear

## Grinding discs / stainless steel



### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Hardened steels
- Structural steels
- Grey cast iron
- Hardox



Iron and sulphur free

mm:  
**7,0**

# RS48



**TOPLINE** ●●●

- Lifetime
- Stock removal
- Hardness

**i** Ideal for edge grinding

**RS48 91A30U10BF1434**

Shape 27	
115 x 7.0 x 22.23	25 206672
125 x 7.0 x 22.23	25 206674
180 x 7.0 x 22.23	10 206677
230 x 7.0 x 22.23	10 206681



mm:  
**4,0-7,0**

# RS38



**PROLINE** ●●○

- Lifetime
- Stock removal
- Hardness

**RS38 A24S8BF1339**

Shape 27	
115 x 7.0 x 22.23	25 200432
125 x 4.0 x 22.23	25 205681
125 x 7.0 x 22.23	25 200451
150 x 7.0 x 22.23	10 205714
180 x 7.0 x 22.23	10 200442
230 x 7.0 x 22.23	10 200466



mm:  
**7,0**

# RS28



**ALPHALINE** ●○○

- Lifetime
- Stock removal
- Hardness

**i** Ideal for low power machines

**RS28 30A24P9BF11718**

Shape 27	
115 x 7.0 x 22.23	25 208732
125 x 7.0 x 22.23	25 208733
180 x 7.0 x 22.23	10 208734
230 x 7.0 x 22.23	10 208735



# Grinding discs / steel



### Material:

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- Hardox



mm:

**7,0**

**RS67**



**TOPLINE** ●●●

- Lifetime
- Stock removal
- Hardness

RS67 74A24S6BF1412

Shape 27	
115 x 7.0 x 22.23	25 200140
125 x 7.0 x 22.23	25 200141
150 x 7.0 x 22.23	10 205715
180 x 7.0 x 22.23	10 205716
230 x 7.0 x 22.23	10 205718



mm:

**4,0-10,0**

**RS2**



**PROLINE** ●●○

- Lifetime
- Stock removal
- Hardness

Ideal for hard materials

RS2 A30P8BF153

Shape 27	
100 x 7.0 x 16.00	25 200167
115 x 7.0 x 22.23	25 200184
125 x 4.0 x 22.23	25 200208
125 x 7.0 x 22.23	25 200213
150 x 7.0 x 22.23	10 200238
180 x 4.0 x 22.23	10 200246
180 x 7.0 x 22.23	10 200253
180 x 10.0 x 22.23	10 200266
230 x 7.0 x 22.23	10 200274



mm:  
**8,0**

# RS22



**PROLINE** ●●○

- Lifetime
- Stock removal
- Hardness

**i** Especially for high-frequency machines

**RS22 A30P8-BF153**

Shape 27	
180 x 8.0 x 22.23	10 208124
230 x 8.0 x 22.23	10 208617



mm:  
**7,0**

# KSM



**ALPHALINE** ●○○

- Lifetime
- Stock removal
- Hardness

**KSM A24Q-BF32**

Shape 27	
100 x 7.0 x 16.00	25 200008
115 x 7.0 x 22.23	25 200013
125 x 7.0 x 22.23	25 200018
180 x 7.0 x 22.23	10 200056
230 x 7.0 x 22.23	10 200090



# Grinding discs / non-ferrous metals



**Material:**

- Non-ferrous metals
- Bronze
- Brass
- Bearing metal
- Al-alloy

Special filling materials prevent clogging of the disc



**i** A good dust extraction system is a must in closed rooms since high concentrations of aluminium dust can lead to explosions.

mm:

**7,0**

**RS24**



**TOPLINE** ●●●

- Lifetime
- Stock removal
- Hardness

**RS24 A24N-BF28**

		Shape 27	
115 x 7.0 x 22.23	25	200349	
125 x 7.0 x 22.23	25	200357	
180 x 7.0 x 22.23	10	200364	
230 x 7.0 x 22.23	10	200377	



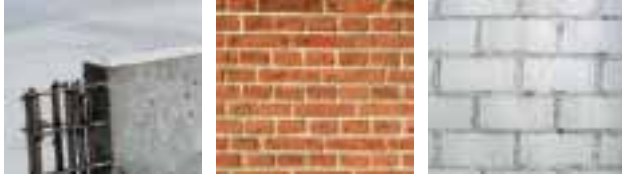


# Grinding discs / stone



## Material:

- Concrete products / floor pavement
- Limestones
- Artificial stones
- Natural stones
- Marble



**i** Grinding stone materials - natural or artificial stone - usually produces a lot of dust. It is essential that you use suitable breathing protection because natural stones and artificially manufactured stones may contain quartz dusts that are hazardous to health.

mm:  
**7,0**

**RS66**



**TOP LINE** ●●●

- Lifetime
- Stock removal
- Hardness

## RS66 C24P-BF29

Shape 27	
100 x 7.0 x 16.00	25 200382
115 x 7.0 x 22.23	25 200386
125 x 7.0 x 22.23	25 200393
180 x 7.0 x 22.23	10 200403
230 x 7.0 x 22.23	10 200413



# Cup wheels, resin-bonded



Cup wheels are ideal for surface grinding. Both coarse and fine grinding can be carried out thanks to the grading of the grain from 16-60.

**Application examples:**

- Levelling of concrete and screed surfaces
- Roughening of surfaces



Pay attention to the maximum working speed of 50 m/s

## Cup wheels & grinding wheels / steel



**Material:**

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- Hardox



**i** The SR15 grinding wheel is ideal for end grinding on compressed-air and electrically-powered straight grinders.



NK



**PROLINE** ●●○

- Lifetime
- Stock removal
- Hardness

**NK**

Shape 11	Shape 11		
	⊕	⊗	⊙
110/90 x 55 x 22.23	16	6	303263
110/90 x 55 x 22.23	24	6	303264
110/90 x 55 x 22.23	36	6	303265
110/90 x 55 x 22.23	60	6	303266



mm:  
**6,0**

**SR15**



**PROLINE** ●●○

- Lifetime
- Stock removal
- Hardness

Grinding wheel for use in end grinding

**i** Only use together with a mandrel of type ASB XT, see page 34

**SR15 A24Q-BF16**

	Shape 1	
50 x 6.0 x 6.00	25	201208



## Cup wheels / stone



**Material:**

- Concrete products / floor pavement
- Limestones
- Artificial stones
- Natural stones
- Marble

**i** Grinding stone materials - natural or artificial stone - usually produces a lot of dust. It is recommended that you use suitable breathing protection because natural stones and artificially manufactured stones may contain quartz dusts that are hazardous to health.



**16/24/36/60**

**SIC**



**PROLINE** ●●○

- Lifetime
- Stock removal
- Hardness

**SIC**

	Shape 11	
110/90 x 55 x 22.23	16	6 303257
110/90 x 55 x 22.23	24	6 303258
110/90 x 55 x 22.23	36	6 303260
110/90 x 55 x 22.23	60	6 303261



# Diamond cup wheels / angle grinder

## Application matrix

		<b>BRAINTOOLS®</b> <b>TOPLINE</b> ●●●● <b>PROLINE</b> ●●●● <b>ALPHALINE</b> ●●●●			
Material examples		Quality			
Concrete universal / Granite	hard		DS1		
Building materials			DS2	DS10	DS40
Abrasive materials / Floor pavement	soft				DS41

● suitable  
● particularly suitable

mm: **5,0**




**DS1**



**TOPLINE** ●●●●

●●●●○ Lifetime  
 ●●●●● Stock removal

DS1

		
100 x 5.0 x 8.0 x 22.23	1	303502
125 x 5.0 x 8.0 x 22.23	1	303504
180 x 5.0 x 8.0 x 22.23	1	303506




mm: **5,0**

**DS2**





**TOPLINE** ●●●●

●●●●○ Lifetime  
 ●●●●● Stock removal

 Special retainer for Hilti machines

DS2

		
150 x 5.0 x 8.0 x 19.00	1	303765





# DS10



## PROLINE ●●●○

- Lifetime
- Stock removal

### DS10

	+	+
100 x 5.0 x 8.0 x 22.23	1	302916
100 x 5.0 x 8.0 x M14	1	302927
125 x 5.0 x 8.0 x 22.23	1	302917
125 x 5.0 x 8.0 x M14	1	302928
180 x 5.0 x 8.0 x 22.23	1	303766



# DS40

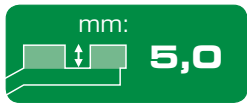


## ALPHALINE ●○○○

- Lifetime
- Stock removal

### DS40

	+	+
100 x 5.0 x 8.0 x 22.23	1	303416
100 x 5.0 x 8.0 x M14	1	303418
125 x 5.0 x 7.0 x 22.23	1	303222



# DS41



## ALPHALINE ●○○○

- Lifetime
- Stock removal

Special segmented form of abrasive materials prevents clogging of the cup

### DS41

	+	+
100 x 5.0 x 7.0 x 22.23	1	303759
100 x 5.0 x 7.0 x M14	1	303760
125 x 5.0 x 7.0 x 22.23	1	303603
125 x 5.0 x 7.0 x M14	1	303761
180 x 5.0 x 7.0 x 22.23	1	303554

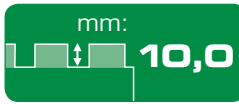


# Core drill Application matrix

		<b>BRAINTOOLS</b>	<b>TOPLINE</b>	<b>PROLINE</b>	<b>ALPHALINE</b>
Material examples		Quality			
Concrete / Dense limestone	hard			CD10	
Masonry	soft			CD20	

 particularly suitable

 not suitable for percussion drills






## CD10

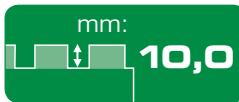


**PROLINE** ●●○

●●●●○ Lifetime  
●●●●○ Stock removal

CD10

			
68 x 10.0 x 3.5 x M16	1	303419	
82 x 10.0 x 3.5 x M16	1	303420	






## CD20



**PROLINE** ●●○

●●●●○ Lifetime  
●●●●○ Stock removal

CD20




			
68 x 10.0 x 3.5 x M16	1	303421	
82 x 10.0 x 3.5 x M16	1	303422	





Matching accessories for CD10 and CD20

## CDS

		
SDS adaptor	1	303509
6-point adaptor	1	303510
Centre drill	1	303511



# Product Designation

## The grinding disc label

### Material symbols

for the material to be processed:

- Stainless steel / Steel
- Stone
- Steel
- Cast-iron
- Non-ferrous metals

### Dimensions

in mm and inches

**125 x 7,0**

Disc diameter in mm    Width of disc in mm

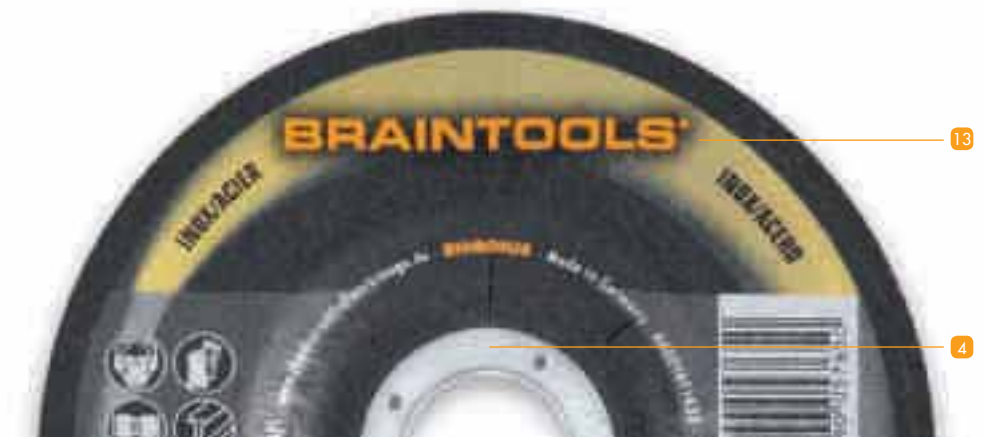
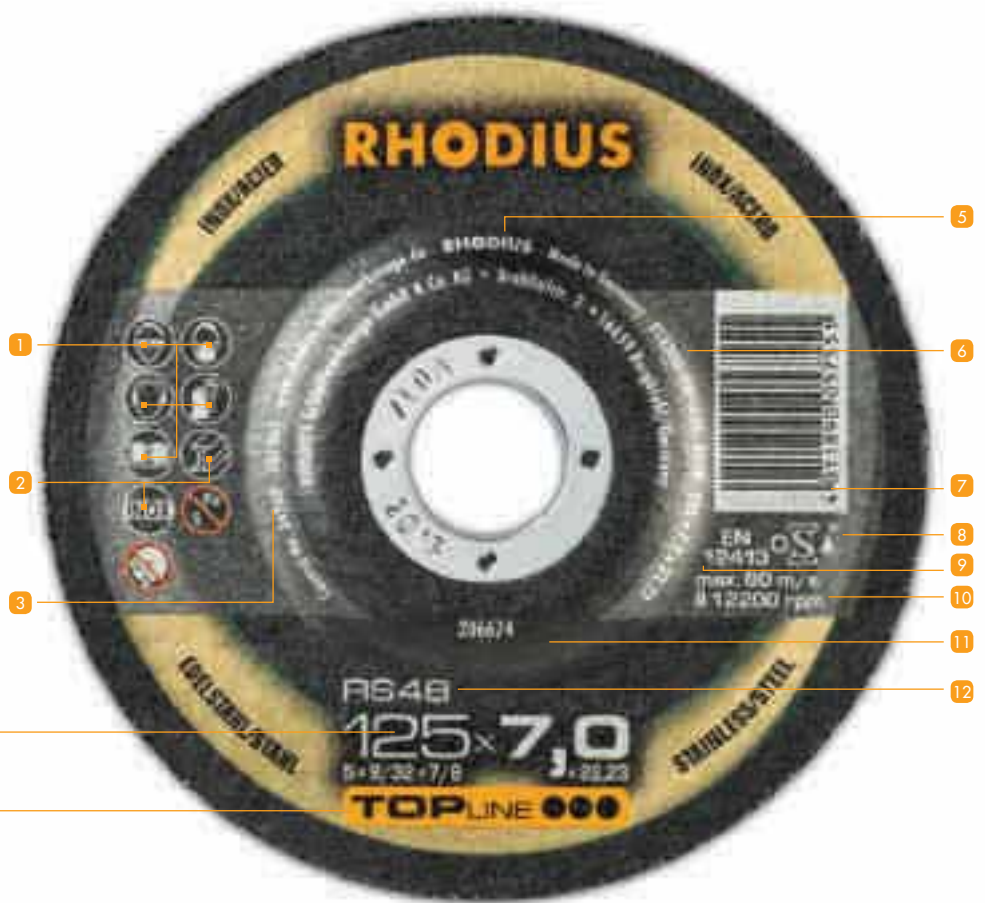
### Quality reference

(this code is not found on any BRAINTOOLS product)

**TOP**LINE ●●●

**PRO**LINE ●●○

**ALPHA**LINE ●○○



### General overview

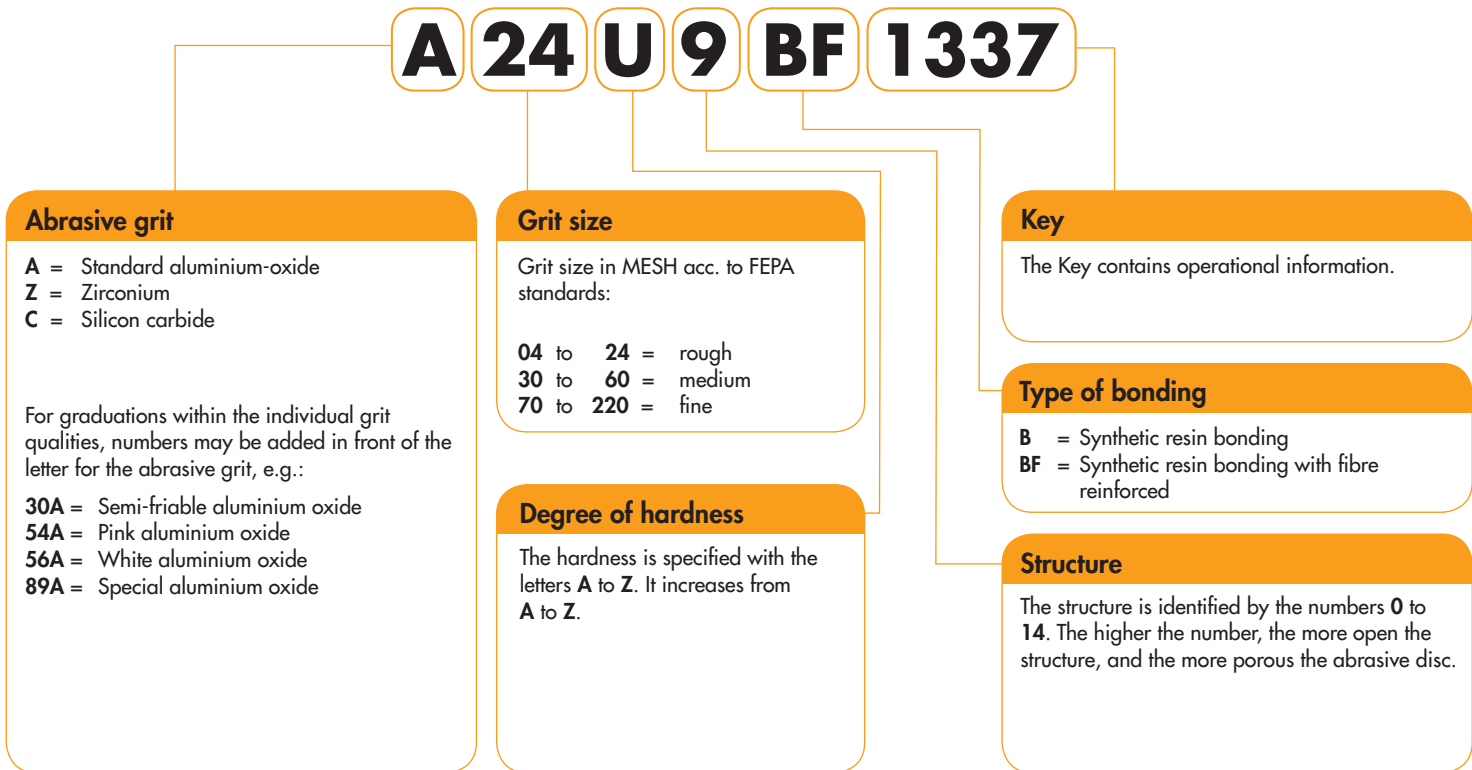
- |   |   |  |
|---|---|--|
| <ul style="list-style-type: none"> <li>1 Safety pictograms &gt; See overview on fold-out page at end of catalogue</li> <li>2 Material pictograms &gt; See overview on fold-out page at end of catalogue</li> <li>3 Traceability code</li> <li>4 Info ring with expiry date</li> </ul> | <ul style="list-style-type: none"> <li>5 Manufacturer</li> <li>6 ISO name &gt; p 113</li> <li>7 Barcode</li> <li>8 oSa identification &gt; p 10</li> <li>9 European Standard for Bonded Grinding Tools</li> </ul> | <ul style="list-style-type: none"> <li>10 Maximal permissible working speed &gt; p 100</li> <li>11 Article Number</li> <li>12 Product reference</li> <li>13 Identification BRAINTOOLS &gt; p 13</li> </ul> |
|---|---|--|



# Designation of abrasive discs

## Designation of abrasive discs according to EN 12413:

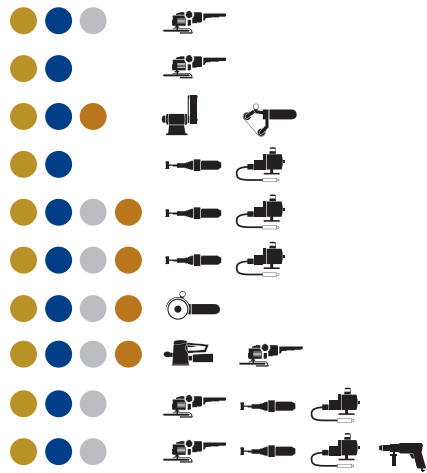
On abrasive discs the type of grit, grit size, hardness, structure, bonding and code are indicated.



## The material reference and safety designation

Innox/Stainless Steel	Protective gloves	Iron and sulphur free $\leq 0.1\%$
Steel	Pay attention to the safety information	Do not use damaged disc
Non ferrous metals, aluminium	Eye protection	
Stone	Dust protection	
Cast-iron	Ear protection	





Flap discs	120
Fibre discs	130
Abrasive belts	134
Abrasive sleeves	138
Quick change discs	140
Flap wheels	142
Drum	146
Sheets and rolls	148
Non-woven abrasives	154
Polishing tools	156

## Fine Grinding / Finishing



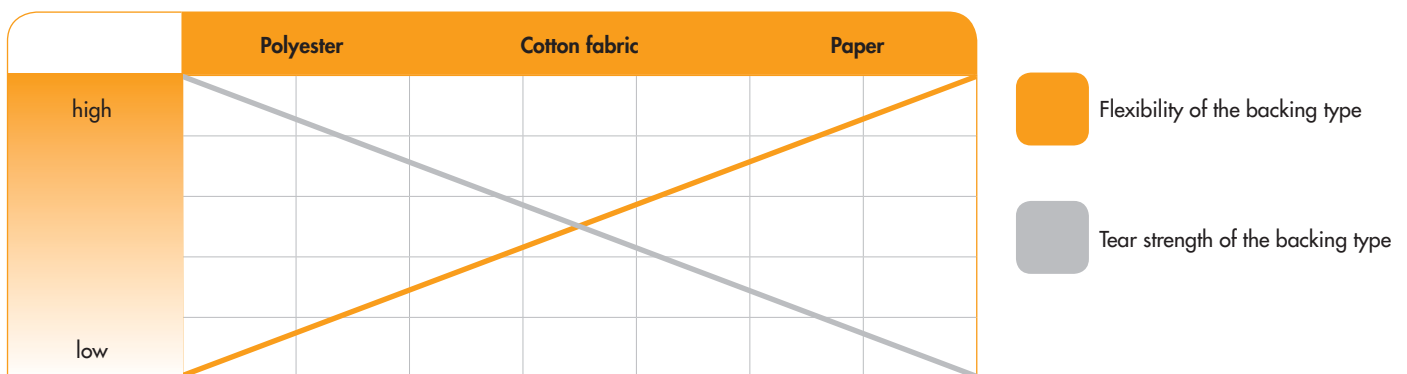
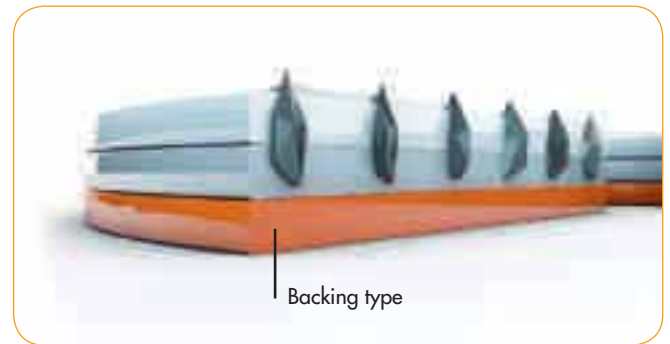
# Coated abrasives

## Performance factors for perfect results

Whether belts, discs or rollers – four factors determine the optimum composition for coated abrasives. Explained below are the individual components: backing type, bond, dispersion and grain so that you know what to look out for when choosing the right tool.

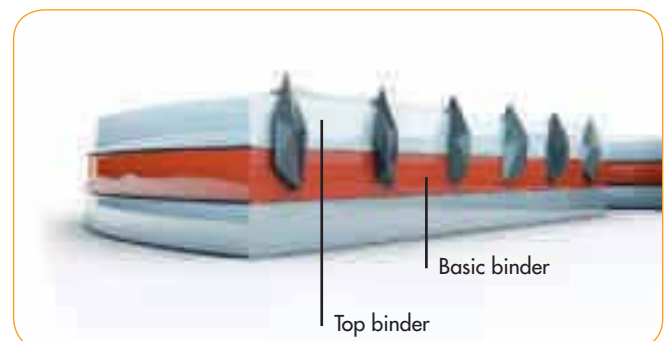
## The backing type is key

You have to choose a flexible or sturdy base depending on how the abrasive is to be used. Paper and cotton fabric are used as flexible carrier materials for manual grinding. Polyester and vulcanised fibre or a combination of fabric and polyester, serve as a sturdy and tear-proof base for heavy-duty applications in industry.



## The bond determines the result

The key to a good bond lies in the balance between grain fixation and flexibility. Rigid and aggressive as well as highly flexible abrasives for fine grinding can be produced with the help of the bond. The basic binder is used for the initial fixation of the abrasive grains. An additional top binder ensures the necessary bond between the abrasive grains themselves. Softer or harder binders are employed depending on the field of use. An additional active grinding substance is applied with certain bases to ensure cooler grinding.



# The right coating for every material

With a closed coating, the abrasive grains are distributed on the surface with very small gaps. This results in a higher stock removal performance and a lower roughness since more grain tips are in action. If the abrasive grains are distributed with a defined gap one speaks of an open coating. This type of coating prevents clogging and is mainly used for aluminium, soft woods, paints and varnishes.



Open coated



Closed coated

# The grain works for you

The following raw materials are used as abrasive grit:

	Standard aluminium-oxide	Silicon carbide	Zirconium
<b>Shape</b>	Cubic, angular	Conical, sharp-edged	Sharp-edged
<b>Hardness (Mohs)</b>	9.0	9.6	6.5 – 7.5 (very tough)
<b>Application</b>	<ul style="list-style-type: none"> <li>Leather</li> <li>Wood</li> <li>Filler</li> <li>Stainless steel</li> <li>Aluminium</li> <li>Steel</li> </ul>	<ul style="list-style-type: none"> <li>Chip board</li> <li>Varnishes</li> <li>Stone</li> <li>Plastic</li> <li>Glass</li> </ul>	<ul style="list-style-type: none"> <li>Stainless steel</li> <li>Steel</li> <li>Aluminium</li> </ul>
<b>Grit</b>			

# Stainless steel polishing

## Simply polish to achieve a mirror finish

Polishing tools are used to produce high-gloss surfaces as well as for maintenance and/or restoration in order to achieve an optimum surface quality.

In the superfinish fields of Polishing, tools are used to produce high-gloss surfaces as well as for maintenance and/or restoration in order to achieve an optimum surface quality. In particular in the food/pharmaceutical industry, a smooth surface guarantees satisfaction of the highest hygiene requirements since deposits and dirt cannot cling to this.

What's more, a high-gloss polished surface prolongs the life of the material.

### **How to achieve brilliant pre-conditions**

The prepared workpiece must not show any deep scratches or inclusions. In order to achieve an optimum working result, the surface should finally be processed with grinding tools that have a grain of 60 or even smaller. (We recommend LSZ F VISION).



Fine Grinding / Finishing

# Perfect results in three steps

**1** **Preparation**  
 – free the surface from all scratches  
**Non-woven flap disc: VSK VISION**  
**Optimum speed: 3,000–3,500 rpm**  
 The VSK VISION removes the total of the rough scratches on the workpiece. Your flexible non-woven disc adapts well to the surface creating a homogeneous surface. The open structure of the flaps reduces clogging to a minimum. Low development of heat prevents unwanted discolourations on the workpiece. In addition, you always have a free view of the workpiece and thus optimum control over the processing.



**2** **Pre-polishing and finishing**  
 – create an optimum surface finish  
**Unitised discs: VKSS/VKSG**  
**Optimum speed: 3,600–4,000 rpm**  
 VKSS/VKSG allows an excellent surface finish, almost like a mirror finish. It can be profiled and perfectly adapts to the contours of the workpiece. Thanks to its sturdy design, VKSS/VKSG is suitable for constant use and prepares the surface perfectly for polishing.



**3** **High-gloss polishing**  
 – enhance your work pieces up to a mirror finish  
**Nylon flap discs with polishing pastes: FLS & PASTE**  
**Optimum speed: 1,600 rpm**  
 FLS finishes the polishing process and enables a perfect mirror finish. Using various polishing pastes you can process a wide variety of materials such as steel, stainless steel and non-ferrous metals. Highly-flexible flaps of wool felt adapt to the contours of the workpiece. The special design of the FLS ensures cool grinding during processing and prevents unwanted discolourations.



**Note:**

In general, we recommend adjustable angle grinders for step 1–3 in order to achieve optimum results.

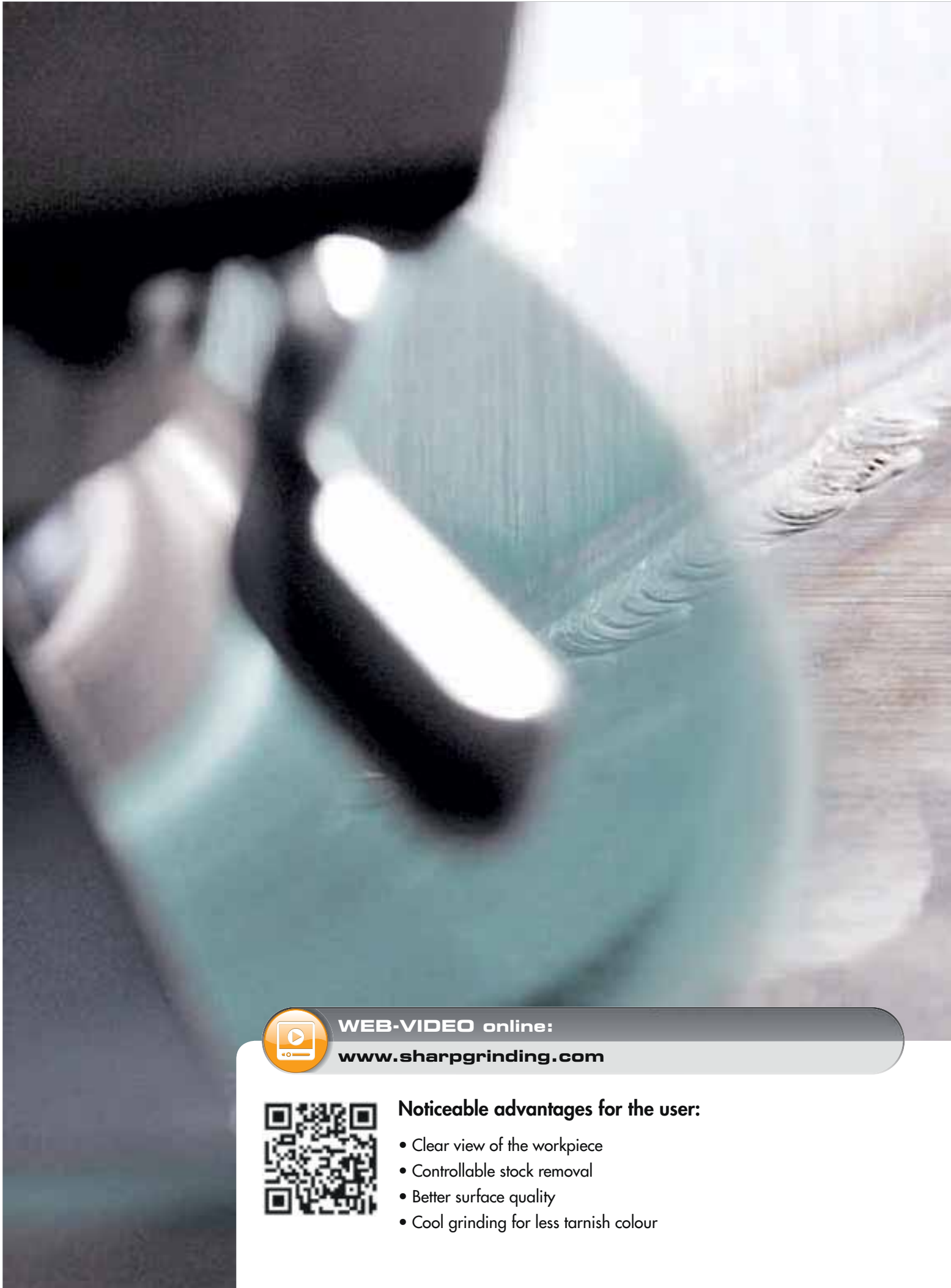


## Choosing the right polishing paste

	1. Pre-polishing	2. High-gloss polishing
Stainless steel	Polishing paste, white	Polishing paste, blue
Non-ferrous metals	Polishing paste, brown	



# Optical check when grinding



**WEB-VIDEO online:**  
[www.sharpgrinding.com](http://www.sharpgrinding.com)



## Noticeable advantages for the user:

- Clear view of the workpiece
- Controllable stock removal
- Better surface quality
- Cool grinding for less tarnish colour



# BRAINTOOLS® LSZ F VISION

40/60/  
80

LSZ F  
VISION



BRAINTOOLS®

●●●●○ Lifetime  
●●●●● Stock removal

Thanks to its recesses the LSZ F VISION becomes transparent during rotation (cf. Fig. below and left). This guarantees a free view of the workpiece, the user sees how much and where he is grinding. This allows a permanent check of the results without putting the machine down: the stock removal can thus be selectively controlled to reduce costly processing errors. This also cuts processing time and increases efficiency. But it also means less stress and a lower physical load combined with a very high efficiency. Fibre support, zirconium.

**Material:**

- Rust and acid-proofed steels
- Hardox
- High tensile metal sheets
- Structural steels
- Tool steels
- Non-ferrous metals
- Wood, varnish, filler
- Plastics
- GFK

**Application examples:**

- Galvanised parts
- Welding seams
- Burr removing
- Levelling
- De-rusting
- Surface grinding
- Edge grinding
- Cleaning



**LSZ F VISION**

	+			
115 x 22.23	40	10	207083	
115 x 22.23	60	10	207084	
115 x 22.23	80	10	207085	
125 x 22.23	40	10	207077	
125 x 22.23	60	10	207078	
125 x 22.23	80	10	207079	



Three clever recesses provide an unobstructed view of the workpiece...



... better surface quality



... and controlled material removal.

Fine Grinding /  
Finishing

# Optical check for a fast finish



**WEB-VIDEO online:**  
[www.sharpgrinding.com](http://www.sharpgrinding.com)



## **Noticeable advantages for the user:**

- Clear view of the workpiece
- Grind and finish in one operation
- Fine grinding pattern
- Controllable stock removal
- Better surface quality
- Cool grinding for less tarnish colour

# BRAINTOOLS® VSK VISION



VSK  
VISION



**BRAINTOOLS®**

- Lifetime
- Stock removal

Thanks to the unique combination of two special product features, the VSK VISION offers some clear advantages for the surface finishing of stainless steel. On one hand, it combines alternating abrasive cloth and non-woven discs in alternating layers on one disc. This enables a decorative surface finishing (due to the nylon abrasive discs) with the removal of material (abrasive cloth) in one step – saving users one operation. On the other hand, its sectional structure allows plain vision at the piece to treat, during work. Hence, this allows a permanent optical check with a simultaneous cooling effect.

**i** Optimum speed: 3,000 - 3,500 rpm

**Material:**

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Non-ferrous metals
- Wood, varnish, filler
- Plastics
- GFK
- Carbon fibre reinforced plastic

**Application examples:**

- Preparation for polishing
- Decorative surface finishing
- Welding seams
- Burr removing
- Levelling
- De-rusting
- Surface grinding
- Edge grinding
- Cleaning



**VSK VISION**

115 x 22.23	10	209503
125 x 22.23	10	209504



Three recesses for a free view of the workpiece...

With the combination of two grinding tools, you can ... .. grind and finish in only one step

Fine Grinding / Finishing

# Flap discs / stainless steel



### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Hardox
- Tool steels
- Hardened steels
- Aluminium



Iron and sulphur free



**i** Flap discs are only conditionally suitable for the treatment of aluminium. There is however a trick to help you nevertheless achieve good results: silicon free cutting spray or grinding grease prevents the fast clogging of the flap discs.

**40/60/80**

## JUMBO LONGLIFE



**TOPLINE** ●●●

- Lifetime
- Stock removal

Extra long, closely overlapping flaps for a very long lifetime. It is particularly suitable for edge grinding and is the specialist disc for heavy-duty applications.

### JUMBO LONGLIFE

Size	Grain	Flap	Qty	Part No.
115 x 22.23	40	10	208737	
115 x 22.23	60	10	208738	
115 x 22.23	80	10	208739	
125 x 22.23	40	10	208740	
125 x 22.23	60	10	208741	
125 x 22.23	80	10	208742	



**40/60/80**

## JUMBO SPEED



**TOPLINE** ●●●

- Lifetime
- Stock removal

Extra long flaps allow fast and aggressive grinding through large supporting surface. Ceramic grains are especially advantageous when treating hardened and tempered steel, finder areas and titanium. They provide a high stability when treating edges.

### JUMBO SPEED

Size	Grain	Flap	Qty	Part No.
115 x 22.23	40	10	208743	
115 x 22.23	60	10	208744	
115 x 22.23	80	10	208745	
125 x 22.23	40	10	208746	
125 x 22.23	60	10	208747	
125 x 22.23	80	10	208748	



# JUMBO flap discs

## Simply grind more efficiently

Some of the river cruise ships of Neptun's shipyards in Rostock are more than 130 m long. This means that there is a lot to cut and grind while building the ship's rump. The flaps on the **JUMBO LONGLIFE** and **JUMBO SPEED** are also very long. Their long flaps increase the efficiency in professional use.

Copyright: Neptun shipyard



Precise measurements were taken in a fatigue test performed at Neptun's shipyards. After 56 minutes of continuous operation and 2,036 grammes of stock removal, the **JUMBO LONGLIFE** was finally completely worn out. That's 500 grams or 30% more stock removal than a comparative tool managed to perform.

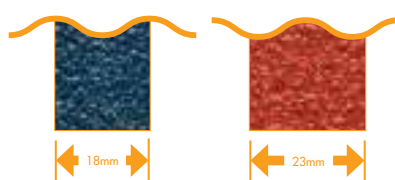
As you would expect, the Neptun shipyard's review was very positive: "It's not the price of the tool that decides the project costs. The working hours are much more important. If we can achieve noticeable optimisations through modern abrasives, we will be saving a lot of money at the end of the day."

**"In my opinion, the JUMBO LONGLIFE is the best flap disc for ship-building"** That is how the head of the test project comments on the results.

JUMBO LONGLIFE      conventional flap disc



Conventional flap\*:      JUMBO flap\*:



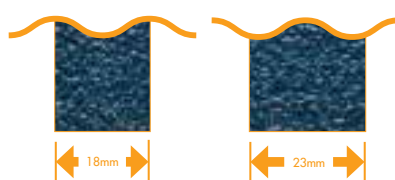
\* indications valid for cutting discs with a diameter of 125 mm

### JUMBO SPEED

**Faster and more efficient due to extremely high stock removal performance**

The larger supporting surface of the flaps permits very aggressive grinding with a much higher stock removal efficiency. The new **JUMBO SPEED** grinds much faster than conventional flap discs thanks to its extremely fast stock removal. This makes it ideal for efficient stock removal.

Conventional flap\*:      JUMBO flap\*:



\* indications valid for cutting discs with a diameter of 125 mm

### JUMBO LONGLIFE

**Longer life and more efficient thanks to much more abrasive material**

The higher segmentation and longer flaps mean much more abrasive grinding material on the support – this ensures a higher abrasion power and an up to 30 % longer lifetime (compared to LSZ F TOPline). The **JUMBO LONGLIFE** achieves an outstanding efficiency compared to conventional flap discs. It is particularly suitable for edge grinding and is the specialist for all types of grinding at a steep angle.

40/60/  
80

# LSZ F



TOPLINE ●●●

- Lifetime
- Stock removal



## LSZ F

	+	+	+	+
115 x 22.23	40	10	205505	
115 x 22.23	60	10	205506	
115 x 22.23	80	10	205507	
125 x 22.23	40	10	205508	
125 x 22.23	60	10	205509	
125 x 22.23	80	10	205510	
150 x 22.23	40	10	303707	
150 x 22.23	60	10	303708	
150 x 22.23	80	10	303709	

## LGZ F

	+	+	+	+
115 x 22.23	40	10	205497	
115 x 22.23	60	10	205498	
115 x 22.23	80	10	205499	
125 x 22.23	40	10	205500	
125 x 22.23	60	10	205446	
125 x 22.23	80	10	205501	

24/40/60/  
80/120

# LSZ F1



PROLINE ●●○

- Lifetime
- Stock removal



## LSZ F1

	+	+	+	+
115 x 22.23	24	10	202642	
115 x 22.23	40	10	202647	
115 x 22.23	60	10	202662	
115 x 22.23	80	10	202675	
115 x 22.23	120	10	202689	
125 x 22.23	24	10	202726	
125 x 22.23	40	10	202735	
125 x 22.23	60	10	202742	
125 x 22.23	80	10	202749	
125 x 22.23	120	10	202756	
180 x 22.23	40	10	202699	
180 x 22.23	60	10	202706	
180 x 22.23	80	10	202712	

## LGZ F1

	+	+	+	+
115 x 22.23	40	10	202767	
115 x 22.23	60	10	202776	
115 x 22.23	80	10	202783	
115 x 22.23	120	10	202789	
125 x 22.23	40	10	202820	
125 x 22.23	60	10	202825	
125 x 22.23	80	10	202830	
125 x 22.23	120	10	202834	
180 x 22.23	40	10	202799	
180 x 22.23	60	10	202804	
180 x 22.23	80	10	202809	

24/40/60/  
80/120

# LSZ P1



PROLINE ●●○

- Lifetime
- Stock removal



Polyamide support

## LSZ P1

	+	+	+	+
115 x 22.23	24	10	202517	
115 x 22.23	40	10	202523	
115 x 22.23	60	10	202531	
115 x 22.23	80	10	202539	
115 x 22.23	120	10	202547	
125 x 22.23	40	10	202610	
125 x 22.23	60	10	202618	
125 x 22.23	80	10	202626	
180 x 22.23	40	10	202559	
180 x 22.23	60	10	202567	
180 x 22.23	80	10	202573	

40/60/  
80

# LSZ F2



ALPHALINE ●○○

●●●○○ Lifetime  
●●●●● Stock removal

## LSZ F2

	⊕	▒	📦	🖨️
115 x 22.23	40	10	202652	
115 x 22.23	60	10	202667	
115 x 22.23	80	10	202680	
125 x 22.23	40	10	204015	
125 x 22.23	60	10	204018	
125 x 22.23	80	10	204021	

## LGZ F2

	⊕	▒	📦	🖨️
115 x 22.23	40	10	209307	
115 x 22.23	60	10	209308	
115 x 22.23	80	10	209309	
125 x 22.23	40	10	209494	
125 x 22.23	60	10	209495	
125 x 22.23	80	10	209496	



40/60/  
80

# LSZ F2 BOX



ALPHALINE ●○○

●●●○○ Lifetime  
●●●●● Stock removal

5 x LSZ F2 in an attractive, reclosable tin. One outer pack contains 6 packs of 5 discs

## LSZ F2 BOX

	⊕	▒	📦	🖨️
115 x 22.23	40	30	208530	
115 x 22.23	60	30	208531	
115 x 22.23	80	30	208532	
125 x 22.23	40	30	208533	
125 x 22.23	60	30	208534	
125 x 22.23	80	30	208535	



40/60/  
80

# LSZ F2 VALUE PACK 40+



ALPHALINE ●○○

●●●○○ Lifetime  
●●●●● Stock removal

## LSZ F2 VALUE PACK 40+

	⊕	▒	📦	🖨️
115 x 22.23	40	40	208408	
115 x 22.23	60	40	208409	
115 x 22.23	80	40	208410	
125 x 22.23	40	40	208411	
125 x 22.23	60	40	208412	
125 x 22.23	80	40	208413	



# Flap discs / steel



### Material:

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets



LSA F1



PROLINE ●●○

- Lifetime
- Stock removal

### LSA F1

	+	+	+	+
115 x 22.23	40	10	202839	
115 x 22.23	60	10	202842	
115 x 22.23	80	10	202845	
115 x 22.23	120	10	202848	
125 x 22.23	40	10	202851	
125 x 22.23	60	10	202854	
125 x 22.23	80	10	202857	
125 x 22.23	120	10	202860	



LSA P1



PROLINE ●●○

- Lifetime
- Stock removal

### Polyamide support

### LSA P1

	+	+	+	+
115 x 22.23	40	10	202475	
115 x 22.23	60	10	202481	
115 x 22.23	80	10	202487	
115 x 22.23	120	10	202493	
125 x 22.23	40	10	202591	
125 x 22.23	60	10	202595	
125 x 22.23	80	10	202599	
125 x 22.23	120	10	202603	





# Non-woven flap disc



## Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Hardened steels
- High tensile metal sheets
- Non-ferrous metals
- Varnished metal sheets

The fine and flexible nylon fibres make for a good surface finish.



Use adjustable angle polishers and a greatly reduced speed for optimum results and to prevent any melting of the nylon.



coarse/  
medium/  
fine

VLS



PROLINE ●●○

- Lifetime
- Stock removal

## VLS

Size	Grain	Thickness	Part No.
115 x 22.23	coarse	10	303343
115 x 22.23	medium	10	303344
115 x 22.23	fine	10	303345
125 x 22.23	coarse	10	303346
125 x 22.23	medium	10	303347
125 x 22.23	fine	10	303348



# Fibre discs



### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

Fibre discs are used together with the RHST and RH TURBO supporting plate on angle grinders. They are suitable for universal use from coarse to fine grinding.



**i** Zirconium and ceramic fibre discs achieve their best performance on powerful angle grinders with a higher contact pressure. Ceramic fibre discs are ideal for processing titanium.



24-80

KFK



### TOPLINE ●●●

Backing type: Vulcanised fibre  
 Type of abrasive used: Ceramic  
 Bond: Synthetic resin

Ceramic grains are especially advantageous when treating hardened and tempered steel, tinner areas and titanium. They provide a high stability when treating edges.

### KFK

	⊕	⊗	📦	🖨️
100 x 16.00	24	25	305503	
100 x 16.00	36	25	305504	
100 x 16.00	40	25	303321	
100 x 16.00	60	25	304293	
100 x 16.00	80	25	303322	
115 x 22.23	24	25	303325	
115 x 22.23	36	25	304291	
115 x 22.23	40	25	305505	
115 x 22.23	60	25	303324	
115 x 22.23	80	25	304294	
125 x 22.23	24	25	303329	
125 x 22.23	36	25	304292	
125 x 22.23	40	25	305506	
125 x 22.23	60	25	303327	
125 x 22.23	80	25	303328	

	⊕	⊗	📦	🖨️
150 x 22.23	24	25	305507	
150 x 22.23	36	25	305508	
150 x 22.23	40	25	305509	
150 x 22.23	60	25	305510	
150 x 22.23	80	25	305511	
180 x 22.23	24	25	305512	
180 x 22.23	36	25	305513	
180 x 22.23	40	25	305514	
180 x 22.23	60	25	305515	
180 x 22.23	80	25	305516	



**TOPLINE** ●●●

Backing type: Vulcanised fibre  
 Type of abrasive used: Zirconium  
 Bond: Synthetic resin



**KFZ**

⊕	⊙	📄	🖨️
100 x 16.00	24	25	305517
100 x 16.00	36	25	305518
100 x 16.00	40	25	305519
100 x 16.00	60	25	305520
100 x 16.00	80	25	305521
115 x 22.23	24	25	305522
115 x 22.23	36	25	305523
115 x 22.23	40	25	305524
115 x 22.23	60	25	305525
115 x 22.23	80	25	305526
125 x 22.23	24	25	300315
125 x 22.23	36	25	300316
125 x 22.23	40	25	304003
125 x 22.23	60	25	300317
125 x 22.23	80	25	300318





⊕	⊙	📄	🖨️
150 x 22.23	24	25	305527
150 x 22.23	36	25	305528
150 x 22.23	40	25	305529
150 x 22.23	60	25	305530
150 x 22.23	80	25	305531
180 x 22.23	24	25	305532
180 x 22.23	36	25	305533
180 x 22.23	40	25	305534
180 x 22.23	60	25	305535
180 x 22.23	80	25	305536





**PROLINE** ●●○

Backing type: Vulcanised fibre  
 Type of abrasive used: Aluminium oxide  
 Bond: Synthetic resin



**KFS**

				
100 x 16.00	16	25	304284	
100 x 16.00	24	25	304285	
100 x 16.00	36	25	304286	
100 x 16.00	40	25	304287	
100 x 16.00	50	25	305537	
100 x 16.00	60	25	304288	
100 x 16.00	80	25	304289	
100 x 16.00	100	25	304283	
100 x 16.00	120	25	304290	
115 x 22.23	16	25	300001	
115 x 22.23	24	25	300002	
115 x 22.23	36	25	300003	
115 x 22.23	40	25	300004	
115 x 22.23	50	25	300005	
115 x 22.23	60	25	300006	
115 x 22.23	80	25	300007	
115 x 22.23	100	25	300008	
115 x 22.23	120	25	300009	
125 x 22.23	16	25	300057	
125 x 22.23	24	25	300058	
125 x 22.23	36	25	300059	

				
125 x 22.23	40	25	300060	
125 x 22.23	50	25	300061	
125 x 22.23	60	25	300062	
125 x 22.23	80	25	300063	
125 x 22.23	100	25	300064	
125 x 22.23	120	25	300065	
150 x 22.23	16	25	305538	
150 x 22.23	24	25	305539	
150 x 22.23	36	25	305540	
150 x 22.23	40	25	305541	
150 x 22.23	60	25	305542	
150 x 22.23	80	25	305543	
150 x 22.23	120	25	305544	
180 x 22.23	16	25	300127	
180 x 22.23	24	25	300128	
180 x 22.23	36	25	300129	
180 x 22.23	40	25	300130	
180 x 22.23	60	25	300132	
180 x 22.23	80	25	300133	
180 x 22.23	120	25	300135	

# RH TURBO



TOPLINE ●●●

Driver pad reducing grinding heat and enhancing aggressive working

## RH TURBO

115 x M14		10	300385
125 x M14		10	300399



# RHST



PROLINE ●●○

Flexible driver pad

## RHST

100 x M10		10	303672
115 x M14		10	300383
125 x M14		10	300397
150 x M14		10	305545
180 x M14		10	300406



# Abrasive belts

## The right grinding belt for your machine

In the following outline, you will find our recommendations of appropriate machines for the different belt sizes. Please feel free to contact us if the machine you are using is not listed.

**We will be pleased to be of assistance.**

Abrasive belt dimensions (mm)	Machine manufacturer	Machine type
6 x 520	Festool	BF1
6 x 610	Löser	14000; 14021; 14021F
9 x 533	Flex	LBS 1105 VE; LBS 1105 VE Set
	Makita	9032
12 x 520	Festool	BF1
13 x 610	Löser	14000; 14021; 14021F
20 x 520	Festool	BF1
	Suhner	UBC 10-R
30 x 533	Flex	LBS 1105 VE; LBS 1105 VE Set
	Fein	RS10-70 E
	Makita	9031
	Suhner	UTC 7-R
40 x 760	Metabo	12-180 Set
	Flex	LRP 1503 VRA
75 x 457	Black & Decker	KA 85 EK; KA 85; KA86
	Bosch	PBS 7 A; PBS 7 AE
	Einhell	BBS 720; BBS 850 E; BT-BS 850 E
	Makita	9910/9911
	Peugeot	PB600
	SKIL	1100; 1200; 1205; 1200 H; 1205 H; 1210; 12010 AA; 7600; 7610 AD; 7610 AA; 7620 AA; 7675
	Stayer	2 N 75
75 x 533	Atlas Copco	HBSE 75 S; HBSE 75; MBSE 705
	Black&Decker	KA 75; KA 75 E; KA 88; XTA80EK
	Bosch	GBS 75 AE; PBS 75; PBS 75 A; PBS 75 AE; PBS 75 E
	DeWalt	DW430; DW431; DW432/DW433
	Festool	BS 75; BS 75E; BS 75 E-Set
	Felisatti	TP 411
	Hitachi	SB-75
	HOLZ HER	2410; 2411; 2420
	Makita	9901; 9902/9903; 9900
	Metabo	Ba 0775; BAE 75; Ba E 0876 Signal; Ba E 1075
	Peugeot	PAB 75
	Ryobi	B-7076; B 850 F; BE 321; EBS 9576V; EBS 8021V; B-7075; BE-7075
	SKIL	594 U; 595 U; 7640 MA; 7650 AA; 7650 AE
	AEG	HBS 100; HBSE 100; BBS 1100; BBSE 1100
100 x 560	Elu	MHB90; MHB90 E; MHB90K
	DeWalt	DW 650; DW 650E
100 x 610	Einhell	BBS 1200
	Hitachi	SB 10 T; SB 10 V; SB 10 V2; SB 10 S2
	Makita	9402; 9403; 9404; 9924 DB
	Ryobi	B-7200 A; BE-422; BIBE 424; BE-4240; EBS 1310V
100 x 620	Atlas Copco	BBS 100; BBSE 100
	Bosch	GBS 100 A; GBS 100 AE
	Metabo	Ba 6100
	Milwaukee	BS 100 LE
110 x 620	Hitachi	SB 110
75 x 2000	Fein	GIM; GIC
	Flott	BSM 75; BSM E1
	Holzmann	MSM 75
75 x 2500	Löser	KS 360
100 x 2000	Greif	D30 HFS 100



# Abrasive belts



## Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Tool steels
- Hardened steels
- High tensile metal sheets
- Wood

Abrasive belts are ideal for edge grinding or for use on a tube belt grinder to process round workpieces since they adapt to the workpiece's shape.



## ESB ZL



### TOPLINE

Backing type: Heavy-duty cotton X-cloth  
 Type of abrasive used: Zirconium, closed coated  
 Bond: Synthetic resin

### ESB ZL

	40	60	80	120
10 x 330	20	20	20	20
10 x 330	20	20	20	20
10 x 330	20	20	20	20
10 x 330	20	20	20	20

	40	60	80	120
13 x 533	20	20	20	20
13 x 533	20	20	20	20
13 x 533	20	20	20	20
13 x 533	20	20	20	20

13 x 457	20	20	20	20
13 x 457	20	20	20	20
13 x 457	20	20	20	20
13 x 457	20	20	20	20

30 x 533	20	20	20	20
30 x 533	20	20	20	20
30 x 533	20	20	20	20
30 x 533	20	20	20	20

6 x 520	20	20	20	20
6 x 520	20	20	20	20
6 x 520	20	20	20	20
6 x 520	20	20	20	20

6 x 610	20	20	20	20
6 x 610	20	20	20	20
6 x 610	20	20	20	20
6 x 610	20	20	20	20

12 x 520	20	20	20	20
12 x 520	20	20	20	20
12 x 520	20	20	20	20
12 x 520	20	20	20	20

13 x 610	20	20	20	20
13 x 610	20	20	20	20
13 x 610	20	20	20	20
13 x 610	20	20	20	20

20 x 520	20	20	20	20
20 x 520	20	20	20	20
20 x 520	20	20	20	20
20 x 520	20	20	20	20

40 x 760	20	20	20	20
40 x 760	20	20	20	20
40 x 760	20	20	20	20
40 x 760	20	20	20	20

9 x 533	20	20	20	20
9 x 533	20	20	20	20
9 x 533	20	20	20	20
9 x 533	20	20	20	20



Fine Grinding /  
Finishing



TOPLINE ●●●

Backing type: Heavy-duty Y-polyester, waterproof  
 Type of abrasive used: Zirconium, closed coated  
 Bond: Synthetic resin



ESB ZX

Size	Grain	Width	Length	Part No.
75 x 2000	40	10		303692
75 x 2000	60	10		303693
75 x 2000	80	10		303694
75 x 2000	120	10		303695

Size	Grain	Width	Length	Part No.
100 x 2000	40	10		305591
100 x 2000	60	10		305592
100 x 2000	80	10		305593
100 x 2000	120	10		305594

75 x 2500	40	10		305587
75 x 2500	60	10		305588
75 x 2500	80	10		305589
75 x 2500	120	10		305590

150 x 2000	40	10		303700
150 x 2000	60	10		303701
150 x 2000	80	10		303702
150 x 2000	120	10		303703



PROLINE ●●○

Backing type: X-cloth  
 Type of abrasive used: Aluminium oxide, closed coated  
 Bond: Synthetic resin



ESB KK

Size	Grain	Width	Length	Part No.
30 x 533	40	20		301289
30 x 533	60	20		301291
30 x 533	80	20		301292
30 x 533	100	20		301293
30 x 533	120	20		301294
30 x 533	150	20		301295

Size	Grain	Width	Length	Part No.
100 x 610	40	20		301510
100 x 610	60	20		301512
100 x 610	80	20		301513
100 x 610	100	20		301514
100 x 610	120	20		301515

75 x 457	40	20		301408
75 x 457	60	20		301409
75 x 457	80	20		301410
75 x 457	100	20		301411
75 x 457	120	20		301412
75 x 457	150	20		301413

100 x 620	40	20		301523
100 x 620	60	20		301525
100 x 620	80	20		301526
100 x 620	100	20		301527
100 x 620	120	20		301528

100 x 560	40	20		301491
100 x 560	60	20		301493
100 x 560	80	20		301494
100 x 560	100	20		301495
100 x 560	120	20		301496
100 x 560	150	20		301497

110 x 620	40	20		304062
110 x 620	60	20		301592
110 x 620	80	20		301593
110 x 620	100	20		301594
110 x 620	120	20		301595

75 x 533	40	20		301421
75 x 533	60	20		301423
75 x 533	80	20		301424
75 x 533	100	20		301425
75 x 533	120	20		301426
75 x 533	150	20		301427



**40 - 120**

**ESB KX FLEX**



**PROLINE** ●●○

Backing type: J-cloth, cotton  
 Type of abrasive used: Aluminium oxide, closed coated  
 Bond: Synthetic resin

**ESB KX FLEX**

⊕	⊞	📄	🖨️
13 x 457	40	20	304101
13 x 457	60	20	304102
13 x 457	80	20	304103
13 x 457	120	20	304104



**40 - 120**

**ESB KX**



**PROLINE** ●●○

Backing type: Heavy-duty Y-polyester, waterproof  
 Type of abrasive used: Aluminium oxide, closed coated  
 Bond: Synthetic resin

**ESB KX**

⊕	⊞	📄	🖨️
75 x 2000	40	10	303689
75 x 2000	60	10	303690
75 x 2000	80	10	303691
75 x 2000	120	10	305586

⊕	⊞	📄	🖨️
150 x 2000	40	10	303696
150 x 2000	60	10	303697
150 x 2000	80	10	303698
150 x 2000	120	10	303699



**40 - 120**

**ESB P**



**PROLINE** ●●○

Backing type: X-cloth  
 Type of abrasive used: Aluminium oxide, closed coated  
 Bond: Synthetic resin

**ESB P**

⊕	⊞	📄	🖨️
200 x 750	40	20	304128
200 x 750	80	20	304130
200 x 750	120	20	304132



# Abrasive sleeves



**Material:**

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- High tensile metal sheets

Reinforced spiral bands for clamping on the matching expanding body SHEK.



**ESH**



**TOPLINE** ●●●

Type of abrasive used: Zirconium

**ESH**

Size	Grain Size	Mesh	Length	Width	Product Code
10 x 10	38,000	50	100	305209	
10 x 10	38,000	80	100	305210	

Size	Grain Size	Mesh	Length	Width	Product Code
38 x 25	10,000	50	100	305439	
38 x 25	10,000	80	100	305440	

13 x 25	30,000	50	100	305214
13 x 25	30,000	80	100	305215

45 x 30	8,500	50	100	305480
45 x 30	8,500	80	100	305481

15 x 30	26,000	50	100	305219
15 x 30	26,000	80	100	305220

51 x 25	7,500	50	100	305444
51 x 25	7,500	80	100	305445

22 x 20	17,000	50	100	305224
22 x 20	17,000	80	100	305225

60 x 30	6,500	50	50	305449
60 x 30	6,500	80	50	305450

25 x 25	15,000	50	100	305229
25 x 25	15,000	80	100	305230

75 x 30	5,000	50	50	305454
75 x 30	5,000	80	50	305455

30 x 30	13,000	50	100	305234
30 x 30	13,000	80	100	305235

100 x 40	4,000	50	25	305459
100 x 40	4,000	80	25	305460





Type of abrasive used: Aluminium oxide



SSH

10 x 10	38,000	50	100	305206	
10 x 10	38,000	80	100	305207	
10 x 10	38,000	150	100	305208	

38 x 25	10,000	50	100	305236	
38 x 25	10,000	80	100	305237	
38 x 25	10,000	150	100	305238	

13 x 25	30,000	50	100	305211
13 x 25	30,000	80	100	305212
13 x 25	30,000	150	100	305213

45 x 30	8,500	50	100	305477
45 x 30	8,500	80	100	305478
45 x 30	8,500	150	100	305479

15 x 30	26,000	50	100	305216
15 x 30	26,000	80	100	305217
15 x 30	26,000	150	100	305218

51 x 25	7,500	50	100	305441
51 x 25	7,500	80	100	305442
51 x 25	7,500	150	100	305443

22 x 20	17,000	50	100	305221
22 x 20	17,000	80	100	305222
22 x 20	17,000	150	100	305223

60 x 30	6,500	50	50	305446
60 x 30	6,500	80	50	305447
60 x 30	6,500	150	50	305448

25 x 25	15,000	50	100	305226
25 x 25	15,000	80	100	305227
25 x 25	15,000	150	100	305228

75 x 30	5,000	50	50	305451
75 x 30	5,000	80	50	305452
75 x 30	5,000	150	50	305453

30 x 30	13,000	50	100	305231
30 x 30	13,000	80	100	305232
30 x 30	13,000	150	100	305233

100 x 40	4,000	50	25	305456
100 x 40	4,000	80	25	305457
100 x 40	4,000	150	25	305458

SHEK



Expanding body for abrasive sleeves



SHEK

10 x 10 x 6	38,000	5	305410	
13 x 25 x 6	30,000	5	305411	
15 x 30 x 6	26,000	5	305412	
22 x 20 x 6	17,000	5	305413	
25 x 25 x 6	15,000	5	305414	
30 x 20 x 6	13,000	5	305415	
30 x 30 x 6	13,000	5	305416	
38 x 25 x 6	10,000	5	305417	
45 x 30 x 6	8,500	5	305482	
51 x 25 x 6	7,500	5	305418	
60 x 30 x 6	6,500	5	305419	
75 x 30 x 8	5,000	2	305420	
100 x 40 x 8	4,000	2	305421	

# Quick change discs



### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Hardened steels
- High tensile metal sheets
- Non-ferrous metals

The quick change system allows a fast and easy tool change. Without sticking. Without slipping.



**i** Quick-change discs are mainly used in confined and inaccessible points, e.g. for automobile repairs and maintenance.

## SVS QUICK

PROLINE ●●○



Non-woven cleaning tool: The special grains used permit a high cleaning effect and product life.

### SVS QUICK

⊕	Wmm	Grid	Box	Disc
D51	23,000 extra coarse	10	305403	
D76	18,000 extra coarse	10	305404	



## 36 - 120

TOPLINE ●●●

## KFZ QUICK



Backing type: Y cloth  
Type of abrasive used: Zirconium

### KFZ QUICK

⊕	Wmm	Grid	Box	Disc
D51	25,000	36	100	305429
D51	25,000	40	100	305430
D51	25,000	60	100	305431
D51	25,000	80	100	305432
D51	25,000	120	100	305433
D76	20,000	36	50	305434
D76	20,000	40	50	305435
D76	20,000	60	50	305436
D76	20,000	80	50	305437
D76	20,000	120	50	305438



**coarse - very fine**

# VLS QUICK



**PROLINE** ●●○

Non-woven abrasive

Non-woven abrasive: More aggressive grains used - permit a higher grinding effect and product life.

## VLS QUICK

	⊕	⊖/min	Grid	Box	PC
D51	25,000	coarse / 100	50	305271	
D51	25,000	medium / 180	50	305272	
D51	25,000	fine / 280	50	305273	
D76	20,000	coarse / 100	25	305274	
D76	20,000	medium / 180	25	305275	
D76	20,000	very fine / 280	25	305276	

## VLS QUICK HD

	⊕	⊖/min	Grid	Box	PC
D51	25,000	coarse / HD (K50)	50	305277	
D51	25,000	medium / HD (K80)	50	305278	
D76	20,000	coarse / HD (K50)	25	305279	
D76	20,000	medium / HD (K80)	25	305280	



**3sf - 6am**

# VKS QUICK



**TOPLINE** ●●●

Unitized disc

## VKS QUICK

	⊕	⊖/min	Grid	Box	PC
D51	22,100	3sf	10	305287	
D51	22,100	6am	10	305288	
D76	15,100	3sf	10	305289	
D76	15,100	6am	10	305290	



Fine Grinding / Finishing

# RH QUICK



**PROLINE** ●●○

Backing pad for discs with quick-action chuck system

## RH QUICK

	⊕	⊖/min	Grid	Box	PC
D51	25,000	medium	1	305424	
D76	20,000	medium	1	305425	




# Flap wheel



### Material:

- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- Hardened steels
- Hardox
- High tensile metal sheets

The uniform arrangement of the flaps guarantees a constant wear. The high flexibility, above all with the slotted designs, permits a good adaptation to the material standards. What's more, the ventilation for the individual flaps ensures cool grinding.

 Shaft mounted flap wheels are ideal for fine deburring work and preparatory work at inaccessible points.








## SLR



Type of abrasive used: Aluminium oxide

### SLR

				
115 x 20 x M14	13,300	40	5	305182
115 x 20 x M14	13,300	60	5	305183
115 x 20 x M14	13,300	80	5	305184
115 x 20 x M14	13,300	120	5	305185
115 x 20 x M14	13,300	180	5	305186
115 x 20 x M14	13,300	240	5	305187
115 x 20 x M14	13,300	320	5	305188
125 x 20 x M14	12,200	40	5	305189
125 x 20 x M14	12,200	60	5	305190
125 x 20 x M14	12,200	80	5	305191
125 x 20 x M14	12,200	120	5	305192
125 x 20 x M14	12,200	180	5	305193
125 x 20 x M14	12,200	240	5	305194
125 x 20 x M14	12,200	320	5	305195








## FS MINI



Type of abrasive used: Aluminium oxide

### FS MINI

				
10 x 10 x 3	38,200	80	10	305102
10 x 10 x 3	38,200	120	10	305103
10 x 10 x 3	38,200	150	10	305104
15 x 15 x 3	38,200	80	10	305105
15 x 15 x 3	38,200	120	10	305106
15 x 15 x 3	38,200	150	10	305107
20 x 10 x 3	38,200	80	10	305108
20 x 10 x 3	38,200	120	10	305109
20 x 10 x 3	38,200	150	10	305110
20 x 15 x 3	38,200	80	10	305111
20 x 15 x 3	38,200	120	10	305112
20 x 15 x 3	38,200	150	10	305113





Type of abrasive used: Aluminium oxide

FS



30 x 10 x 6	25,400	40	10	305641	
30 x 10 x 6	25,400	60	10	305114	
30 x 10 x 6	25,400	80	10	305115	
30 x 10 x 6	25,400	120	10	305116	
30 x 10 x 6	25,400	150	10	305117	
30 x 10 x 6	25,400	240	10	305118	
30 x 15 x 6	25,400	40	10	305489	
30 x 15 x 6	25,400	60	10	305119	
30 x 15 x 6	25,400	80	10	305120	
30 x 15 x 6	25,400	120	10	305121	
30 x 15 x 6	25,400	150	10	305122	
30 x 15 x 6	25,400	240	10	305123	

40 x 15 x 6	19,100	40	10	305642
40 x 15 x 6	19,100	60	10	305124
40 x 15 x 6	19,100	80	10	305125
40 x 15 x 6	19,100	120	10	305126
40 x 15 x 6	19,100	150	10	305127
40 x 15 x 6	19,100	240	10	305128
40 x 20 x 6	19,100	40	10	305643
40 x 20 x 6	19,100	60	10	305129
40 x 20 x 6	19,100	80	10	305130
40 x 20 x 6	19,100	120	10	305131
40 x 20 x 6	19,100	150	10	305132
40 x 20 x 6	19,100	240	10	305133

50 x 15 x 6	15,200	40	10	305490
50 x 15 x 6	15,200	60	10	305488
50 x 15 x 6	15,200	80	10	305134
50 x 15 x 6	15,200	120	10	305135
50 x 15 x 6	15,200	150	10	305136
50 x 15 x 6	15,200	240	10	305137
50 x 20 x 6	15,200	40	10	305644
50 x 20 x 6	15,200	60	10	305138
50 x 20 x 6	15,200	80	10	305139
50 x 20 x 6	15,200	120	10	305140
50 x 20 x 6	15,200	150	10	305141
50 x 20 x 6	15,200	240	10	305142
50 x 30 x 6	15,200	40	10	305645
50 x 30 x 6	15,200	60	10	305143
50 x 30 x 6	15,200	80	10	305144
50 x 30 x 6	15,200	120	10	305145
50 x 30 x 6	15,200	150	10	305146
50 x 30 x 6	15,200	240	10	305147

60 x 20 x 6	12,700	40	10	305646	
60 x 20 x 6	12,700	60	10	305148	
60 x 20 x 6	12,700	80	10	305149	
60 x 20 x 6	12,700	120	10	305150	
60 x 20 x 6	12,700	150	10	305151	
60 x 20 x 6	12,700	240	10	305152	
60 x 30 x 6	12,700	40	10	305491	
60 x 30 x 6	12,700	60	10	305153	
60 x 30 x 6	12,700	80	10	305154	
60 x 30 x 6	12,700	120	10	305155	
60 x 30 x 6	12,700	150	10	305156	
60 x 30 x 6	12,700	240	10	305157	
60 x 40 x 6	12,700	40	10	305492	
60 x 40 x 6	12,700	60	10	305493	
60 x 40 x 6	12,700	80	10	305494	
60 x 40 x 6	12,700	120	10	305495	
60 x 40 x 6	12,700	150	10	305496	
60 x 40 x 6	12,700	240	10	305497	
60 x 50 x 6	12,700	40	10	305647	
60 x 50 x 6	12,700	60	10	305158	
60 x 50 x 6	12,700	80	10	305159	
60 x 50 x 6	12,700	120	10	305160	
60 x 50 x 6	12,700	150	10	305161	
60 x 50 x 6	12,700	240	10	305162	

80 x 30 x 6	8,900	40	10	305498
80 x 30 x 6	8,900	60	10	305163
80 x 30 x 6	8,900	80	10	305164
80 x 30 x 6	8,900	120	10	305165
80 x 30 x 6	8,900	150	10	305166
80 x 30 x 6	8,900	240	10	305167
80 x 40 x 6	8,900	40	10	305648
80 x 40 x 6	8,900	60	10	305168
80 x 40 x 6	8,900	80	10	305169
80 x 40 x 6	8,900	120	10	305170
80 x 40 x 6	8,900	150	10	305171
80 x 40 x 6	8,900	240	10	305172
80 x 50 x 6	8,900	40	10	305649
80 x 50 x 6	8,900	60	10	305173
80 x 50 x 6	8,900	80	10	305174
80 x 50 x 6	8,900	120	10	305175
80 x 50 x 6	8,900	150	10	305176
80 x 50 x 6	8,900	240	10	305177

Type of abrasive used: Aluminium oxide

FSB

60 x 30 x 6	11,000	80	10	305178	
60 x 30 x 6	11,000	120	10	305179	
60 x 30 x 6	11,000	180	10	305180	
60 x 30 x 6	11,000	240	10	305181	





# Non-woven flap wheel



## Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Structural steels
- Tool steels
- High tensile metal sheets
- Non-ferrous metals

Combination shaft mounted flap wheels of cloth and nylon as well as nylon flap wheels give the workpiece a good surface finish, particularly at inaccessible points.



**i** Prepare the workpiece for polishing in only one operation with the combination shaft mounted wheels.



## VSK



TOPLINE ●●●

## Combination of cloth and non-woven abrasive

### VSK

⊕	⊖	⊙	⊠	⊡	⊢
40 x 20 x 6	17,100	A60/coarse	10	305313	
40 x 20 x 6	17,100	A80/medium	10	305314	
40 x 20 x 6	17,100	A150/fine	10	305315	
40 x 20 x 6	17,100	A240/very fine	10	305316	
40 x 30 x 6	17,100	A60/coarse	10	305317	
40 x 30 x 6	17,100	A80/medium	10	305318	
40 x 30 x 6	17,100	A150/fine	10	305319	
40 x 30 x 6	17,100	A240/very fine	10	305320	

50 x 30 x 6	13,700	A60/coarse	10	305650
50 x 30 x 6	13,700	A80/medium	10	305651
50 x 30 x 6	13,700	A150/fine	10	305652
50 x 30 x 6	13,700	A240/very Fine	10	305653

⊕	⊖	⊙	⊠	⊡	⊢
60 x 30 x 6	11,500	A60/coarse	10	305321	
60 x 30 x 6	11,500	A80/medium	10	305322	
60 x 30 x 6	11,500	A150/fine	10	305323	
60 x 30 x 6	11,500	A240/very fine	10	305324	
60 x 40 x 6	11,500	A60/coarse	10	305325	
60 x 40 x 6	11,500	A80/medium	10	305326	
60 x 40 x 6	11,500	A150/fine	10	305327	
60 x 40 x 6	11,500	A240/very fine	10	305328	

80 x 40 x 6	8,600	A60/coarse	10	305329
80 x 40 x 6	8,600	A80/medium	10	305330
80 x 40 x 6	8,600	A150/fine	10	305331
80 x 40 x 6	8,600	A240/very fine	10	305332
80 x 50 x 6	8,600	A60/coarse	10	305333
80 x 50 x 6	8,600	A80/medium	10	305334
80 x 50 x 6	8,600	A150/fine	10	305335
80 x 50 x 6	8,600	A240/very fine	10	305336



## VS



TOPLINE ●●●

## Non-woven abrasive

### VS

⊕	⊖	⊙	⊠	⊡	⊢
40 x 30 x 6	17,100	coarse	10	305337	
40 x 30 x 6	17,100	medium	10	305338	
40 x 30 x 6	17,100	fine	10	305339	
40 x 30 x 6	17,100	very fine	10	305340	

50 x 30 x 6	13,700	coarse	10	305341
50 x 30 x 6	13,700	medium	10	305342
50 x 30 x 6	13,700	fine	10	305343
50 x 30 x 6	13,700	very fine	10	305344

⊕	⊖	⊙	⊠	⊡	⊢
60 x 50 x 6	11,500	coarse	10	305345	
60 x 50 x 6	11,500	medium	10	305346	
60 x 50 x 6	11,500	fine	10	305347	
60 x 50 x 6	11,500	very fine	10	305348	

80 x 50 x 6	8,600	coarse	10	305349
80 x 50 x 6	8,600	medium	10	305350
80 x 50 x 6	8,600	fine	10	305351
80 x 50 x 6	8,600	very fine	10	305352



# SVSW



**PRO**LINE ●●○

Non-woven cleaning tools

## SVSW

⊕	⊖/min	📦	🖨️
100 x 100 x 19	5,000	1	305409



**40-320**

# LW



**TOP**LINE ●●●

Type of abrasive used: Aluminium oxide

## LW

⊕	⊖/min	📦	🖨️
100 x 100 x 19	5,700	40	1 305196
100 x 100 x 19	5,700	60	1 305197
100 x 100 x 19	5,700	80	1 305198
100 x 100 x 19	5,700	120	1 305199
100 x 100 x 19	5,700	180	1 305200
100 x 100 x 19	5,700	240	1 305201
100 x 100 x 19	5,700	320	1 305202



**60-120**

# BW



**TOP**LINE ●●●

Type of abrasive used: Aluminium oxide

## BW

⊕	⊖/min	📦	🖨️
100 x 100 x 19	5,000	60	1 305203
100 x 100 x 19	5,000	80	1 305204
100 x 100 x 19	5,000	120	1 305205



coarse - very fine

VWK



TOPLINE ●●●

Combination of cloth and non-woven abrasive

VWK

Icon 1	Icon 2	Icon 3	Icon 4	Icon 5
100 x 100 x 19	5,700	A60/coarse	1	305353
100 x 100 x 19	5,700	A80/medium	1	305354
100 x 100 x 19	5,700	A150/fine	1	305355
100 x 100 x 19	5,700	A240/very fine	1	305356



coarse - s-ultra fine

VW



TOPLINE ●●●

Non-woven abrasive

VW

Icon 1	Icon 2	Icon 3	Icon 4	Icon 5
100 x 100 x 19	5,700	coarse	1	305357
100 x 100 x 19	5,700	medium	1	305358
100 x 100 x 19	5,700	fine	1	305359
100 x 100 x 19	5,700	very fine	1	305360
100 x 100 x 19	5,700	s-ultra fine	1	305361



D3 - D5 / H25 - H40

FW



TOPLINE ●●●

Wool felt

FW

Icon 1	Icon 2	Icon 3	Icon 4	Icon 5
100 x 100 x 19	1,900	D3 / H25	1	305395
100 x 100 x 19	1,900	D3 / H40	1	305396
100 x 100 x 19	1,900	D5 / H25	1	305397
100 x 100 x 19	1,900	D5 / H40	1	305398

Wool felt: slotted version for better adjustment to the work piece

FBW

Icon 1	Icon 2	Icon 3	Icon 4	Icon 5
100 x 100 x 19	1,900	D3 / H25	1	305399
100 x 100 x 19	1,900	D3 / H40	1	305400
100 x 100 x 19	1,900	D5 / H25	1	305401
100 x 100 x 19	1,900	D5 / H40	1	305402



# Rolls



## Material:

- High tensile / high-alloyed steels
- Non-ferrous metals
- Varnishes and paints
- Plastics
- Wood

Material sold by the metre, can be cut to individual lengths for manual grinding.



## SPBR



**PROLINE** ●●○

Backing type: J-Flex cloth, cotton, flexible and soft  
 Type of abrasive used: Aluminium oxide, closed coated  
 Bond: Synthetic resin



## SPBR

	⊕	🧱	📄	🖨️
40 x 25,000	40	1	300536	
40 x 25,000	60	1	300538	
40 x 25,000	80	1	300539	
40 x 25,000	100	1	300540	
40 x 25,000	120	1	300541	
40 x 25,000	150	1	300542	
40 x 25,000	180	1	300543	
40 x 25,000	220	1	300544	
40 x 25,000	240	1	300545	
40 x 25,000	320	1	300547	
40 x 25,000	400	1	300549	
40 x 25,000	600	1	305473	

50 x 25,000	40	1	300593
50 x 25,000	60	1	300595
50 x 25,000	80	1	300596
50 x 25,000	100	1	300597
50 x 25,000	120	1	300598
50 x 25,000	150	1	300599
50 x 25,000	180	1	300600
50 x 25,000	220	1	300601
50 x 25,000	240	1	300602
50 x 25,000	280	1	300603
50 x 25,000	320	1	300604
50 x 25,000	400	1	300605

	⊕	🧱	📄	🖨️
40 x 50,000	40	1	300565	
40 x 50,000	60	1	300566	
40 x 50,000	80	1	300567	
40 x 50,000	100	1	300568	
40 x 50,000	120	1	300569	
40 x 50,000	150	1	300570	
40 x 50,000	180	1	300571	
40 x 50,000	240	1	300573	
40 x 50,000	320	1	300575	
40 x 50,000	400	1	300576	

50 x 50,000	40	1	300577
50 x 50,000	60	1	300578
50 x 50,000	80	1	300579
50 x 50,000	100	1	300580
50 x 50,000	120	1	300581
50 x 50,000	150	1	300582
50 x 50,000	180	1	300583
50 x 50,000	240	1	300585
50 x 50,000	320	1	300587
50 x 50,000	400	1	300588

100 x 50,000	40	1	300618
100 x 50,000	60	1	300619
100 x 50,000	80	1	300620
100 x 50,000	100	1	300621
100 x 50,000	120	1	300622

PROLINE ●●○

Backing type: E-paper  
 Type of abrasive used: Aluminium oxide, closed coated  
 Bond: Synthetic resin

KERR

	+			
115 x 50,000	40	1	305461	
115 x 50,000	60	1	305462	
115 x 50,000	80	1	305463	
115 x 50,000	100	1	305464	
115 x 50,000	120	1	305465	
115 x 50,000	150	1	305466	
115 x 50,000	180	1	305467	
115 x 50,000	240	1	305468	



ALPHALINE ●○○

Backing type: A/C-paper  
 Type of abrasive used: Aluminium oxide, semi-open coated  
 Bond: Animal glue

Particularly suitable for paints and varnishes

KFPR

	+			
115 x 50,000	40	1	304029	
115 x 50,000	60	1	304030	
115 x 50,000	80	1	304031	
115 x 50,000	100	1	304032	
115 x 50,000	120	1	304033	
115 x 50,000	150	1	304034	
115 x 50,000	240	1	304037	
115 x 50,000	320	1	304039	



Fine Grinding / Finishing

PROLINE ●●○

Backing type: D-paper  
 Type of abrasive used: Aluminium oxide, wavelike dust extraction  
 Bond: Animal glue

Special wave structure allows faster dust extraction and prevents clogging

SLPR

	+			
95 x 25,000	60	1	305240	
95 x 25,000	80	1	305241	
95 x 25,000	100	1	305242	
95 x 25,000	120	1	305243	
95 x 25,000	180	1	305245	

	+			
115 x 25,000	60	1	305248	
115 x 25,000	80	1	305249	
115 x 25,000	100	1	305250	
115 x 25,000	120	1	305251	
115 x 25,000	180	1	305253	



# Sheets



### Material:

- High tensile / high-alloyed steels
- Non-ferrous metals
- Varnishes and paints
- Plastics
- Wood

Ready-made abrasive paper for manual grinding.



## KKBR



Backing type: J-Flex cloth, cotton, flexible and soft  
 Type of abrasive used: Aluminium oxide, closed coated  
 Bond: Synthetic resin

### KKBR

	⊕	🧱	📦	🖨️
230 x 280	60	50	300885	
230 x 280	80	50	300886	
230 x 280	100	50	300887	
230 x 280	120	50	300888	
230 x 280	180	50	300890	
230 x 280	240	50	300892	
230 x 280	320	50	300894	
230 x 280	400	50	300896	



## WSP



Backing type: A/C-paper, waterproof  
 Type of abrasive used: Silicon carbide  
 Bond: Synthetic resin

### WSP

	⊕	🧱	📦	🖨️
230 x 280	60	50	301003	
230 x 280	80	50	301004	
230 x 280	100	50	301005	
230 x 280	120	50	301006	
230 x 280	150	50	301007	
230 x 280	180	50	301008	
230 x 280	220	50	301009	
230 x 280	240	50	301010	
230 x 280	280	50	301011	
230 x 280	320	50	301012	
230 x 280	360	50	301013	
230 x 280	400	50	301014	
230 x 280	500	50	301015	
230 x 280	600	50	301016	
230 x 280	800	50	301017	
230 x 280	1000	50	301018	
230 x 280	1200	50	301019	





# KFPB



## ALPHALINE ●○○

Backing type: A/C-paper  
 Type of abrasive used: Aluminium oxide, semi-open coated  
 Bond: Animal glue

Particularly suitable for paints and varnishes

### KFPB

⊕	⊞	📄	🖨
230 x 280	40	50	304051
230 x 280	60	50	304052
230 x 280	80	50	304053
230 x 280	100	50	304054
230 x 280	120	50	304055
230 x 280	150	50	304056
230 x 280	180	50	304057
230 x 280	220	50	304058
230 x 280	240	50	304059
230 x 280	280	50	304060
230 x 280	320	50	304061
230 x 280	400	50	305474



# SLPB



## PROLINE ●●○

Backing type: D-paper  
 Type of abrasive used: Aluminium oxide, wavelike dust extraction  
 Bond: Animal glue

Special wave structure allows faster dust extraction and prevents clogging

### SLPB

⊕	⊞	📄	🖨
95 x 230	60	50	305256
95 x 230	80	100	305257
95 x 230	100	100	305258
95 x 230	120	100	305259
95 x 230	180	100	305261

⊕	⊞	📄	🖨
115 x 280	60	50	305264
115 x 280	80	100	305265
115 x 280	100	100	305266
115 x 280	120	100	305267
115 x 280	180	100	305269



Fine Grinding /  
Finishing

# Self fastening discs



### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- High tensile metal sheets
- Non-ferrous metals
- Varnished metal sheets
- Wood

Self-adhesive grinding discs of cloth and nylon with a Velcro backing. Velcro discs are available with and without dust holes for the most common types of tool.

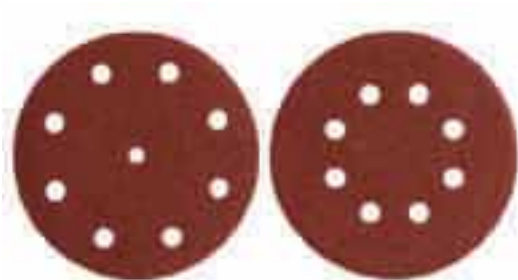


## KERR VELCRO F/B



### PROLINE ●●○

Backing type: E-paper  
 Type of abrasive used: Aluminium oxide, closed coated  
 Bond: Synthetic resin



### Special hole system for Festool machines

#### KERR VELCRO F

115	40	50	305599
115	60	50	305600
115	80	50	305601
115	120	50	305602
115	150	50	305603
115	180	50	305604
115	240	50	305605
125	40	50	305606
125	60	50	305607
125	80	50	305608
125	120	50	305609
125	150	50	305610
125	180	50	305611
125	240	50	305612
150	40	50	305613
150	60	50	305614
150	80	50	305615
150	120	50	305616
150	150	50	305617
150	180	50	305618
150	240	50	305619

### Special hole system for Bosch machines

#### KERR VELCRO B

125	40	50	305627
125	60	50	305628
125	80	50	305629
125	120	50	305630
125	150	50	305631
125	180	50	305632
125	240	50	305633
150	40	50	305634
150	60	50	305635
150	80	50	305636
150	120	50	305637
150	150	50	305638
150	180	50	305639
150	240	50	305640





**PROLINE** ●●○

Backing type: E-paper  
 Type of abrasive used: Aluminium oxide, closed coated  
 Bond: Synthetic resin

**KERR VELCRO**

⊕	⊖	📦	🖨️	
115	40	50	304133	
115	60	50	304134	
115	80	50	304135	
115	120	50	304137	
125	40	50	304138	
125	60	50	304139	
125	80	50	304140	
125	120	50	304142	
150	40	50	304143	
150	60	50	304144	
150	80	50	304145	
150	120	50	304147	



**PROLINE** ●●○

**i** In order to obtain an optimum result and high product life we recommend reducing the revolution speed

**VLS VELCRO**

⊕	⊖	⊖/mm	📦	🖨️	
115	13,300	coarse	10	305281	
115	13,300	medium	10	305282	
115	13,300	very fine	10	305283	
125	12,150	coarse	10	305284	
125	12,150	medium	10	305285	
125	12,150	very fine	10	305286	



Fine Grinding / Finishing



Supporting plate for Velcro discs

**RH VELCRO**

⊕	📦	🖨️	
115 x M14	1	305426	
125 x M14	1	305427	
150 x M14	1	305428	



# Non-woven abrasives



Grit of non-woven abrasive	Comparable grit (FEPA)
Coarse	80 - 120
Medium	150 - 220
Fine	240 - 360
Very fine	400 - 600
Ultra fine	800 - 1.000

### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Hardened steels
- High tensile metal sheets
- Non-ferrous metals
- Varnished metal sheets



The fine and flexible nylon fibres make for a good surface finish.



medium - ultra fine

## VLSR



PROLINE ●●○

### VLSR

⊕	Grid	Box	Roll	
100 x 10,000	medium	1		305654
100 x 10,000	fine	1		305655
100 x 10,000	very fine	1		305656
100 x 10,000	ultra fine	1		305657
115 x 10,000	medium	1		305362
115 x 10,000	fine	1		305363
115 x 10,000	very fine	1		305364
115 x 10,000	ultra fine	1		305365



medium - ultra fine

## VLS PAD



PROLINE ●●○

### VLS PAD

⊕	Grid	Box	Roll	
152 x 229	medium	10		305366
152 x 229	fine	10		305367
152 x 229	very fine	10		305368
152 x 229	ultra fine	10		305369



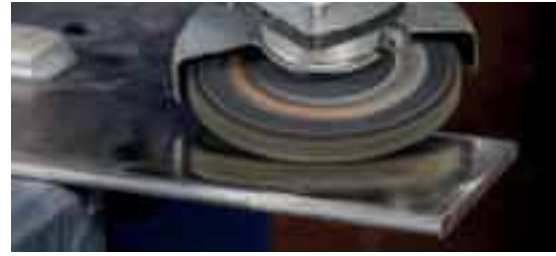
# Unitized discs



<b>Degree of hardness:</b> 3 / 4 (medium)	<b>Degree of hardness:</b> 6 / 7 (hard)
<b>Fields of application</b>	<b>Fields of application</b>
<ul style="list-style-type: none"> <li>• Creation of decorative surfaces</li> <li>• Surface-levelling</li> <li>• Preparation for polishing or coating</li> <li>• Removal of surface defects</li> </ul>	<ul style="list-style-type: none"> <li>• Burr removing &amp; rounding</li> <li>• Cleaning of metal contacts</li> <li>• Removing adhesives and resins</li> </ul>

### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Hardened steels
- High tensile metal sheets
- Non-ferrous metals
- Varnished metal sheets



Consisting of several layers of heavily pressed nylon material. The compact compression ensures a good stock removal performance and long lifetime.



**i** The material has a high individual stiffness and can be profiled. For optimum results use adjustable angle grinders with turning speed reduction.



## VKSG WS



TOPLINE ●●●

### VKSG WS

⊕	√mm	Grid	Box	PC
115 x 22.23	4,000	4A-coarse	5	305297
115 x 22.23	4,000	4S-medium	5	305298
115 x 22.23	4,000	4S-very fine	5	305299
115 x 22.23	4,000	6S-very fine	5	305300
125 x 22.23	3,600	4A-coarse	5	305301
125 x 22.23	3,600	4S-medium	5	305302
125 x 22.23	3,600	4S-very fine	5	305303
125 x 22.23	3,600	6S-very fine	5	305304

### VKSS WS

⊕	√mm	Grid	Box	PC
115 x 22.23	4,000	4A-coarse	5	305305
115 x 22.23	4,000	4S-medium	5	305306
115 x 22.23	4,000	4S-very fine	5	305307
125 x 22.23	3,600	4A-coarse	5	305309
125 x 22.23	3,600	4S-medium	5	305310
125 x 22.23	3,600	4S-very fine	5	305311



Fine Grinding / Finishing



## VKS GS



TOPLINE ●●●

### VKS GS

⊕	√mm	Grid	Box	PC
40 x 12 x 6	7,500	4S-medium	10	305291
40 x 12 x 6	7,500	4S-very fine	10	305292
50 x 12 x 6	6,000	4S-medium	10	305293
50 x 12 x 6	6,000	4S-very fine	10	305294
75 x 12 x 6	4,000	4S-medium	10	305295
75 x 12 x 6	4,000	4S-very fine	10	305296



# Felt polishing flap discs



(D) Width of flaps		(H) Felt hardness	
D2	2 mm	H25	soft, high-gloss polishing
D3	3 mm		
D5	5 mm	H40	hard, prepolishing

### Material:

- Rust and acid-proofed steels
- High tensile / high-alloyed steels
- Hardened steels
- High tensile metal sheets
- Non-ferrous metals
- Varnished metal sheets



Felt polisher for processing surfaces to a mirror finish. Use the felt disc polisher with the corresponding polishing pastes for pre-polishing and high-gloss polishing.



Use a new felt polisher for each paste and an adjustable angle polisher with a greatly reduced speed.



## FLS



TOPLINE ●●●

### FLS

⊕	⊖	⊙	⊠	⊡	⊢
115 x 22.23	1,650	D5 / H25	5	305370	
115 x 22.23	1,650	D5 / H40	5	305371	
125 x 22.23	1,520	D5 / H25	5	305372	
125 x 22.23	1,520	D5 / H40	5	305373	



## FLP



TOPLINE ●●●

### Wool felt

### FLP

⊕	⊖	⊙	⊠	⊡	⊢
40 x 30 x 6	4,750	D2 / H25	10	305379	
40 x 30 x 6	4,750	D2 / H40	10	305380	
40 x 30 x 6	4,750	D3 / H25	10	305381	
40 x 30 x 6	4,750	D3 / H40	10	305382	
60 x 40 x 6	3,150	D3 / H25	10	305383	
60 x 40 x 6	3,150	D3 / H40	10	305384	
80 x 50 x 6	2,400	D3 / H25	10	305385	
80 x 50 x 6	2,400	D3 / H40	10	305386	
80 x 50 x 6	2,400	D5 / H25	10	305387	
80 x 50 x 6	2,400	D5 / H40	10	305388	








Wool felt: slotted version for better adjustment to the work piece

### FLPB

⊕	⊖	⊙	⊠	⊡	⊢
40 x 30 x 6	4,750	D2 / H25	10	305389	
40 x 30 x 6	4,750	D2 / H40	10	305390	
60 x 40 x 6	3,150	D2 / H25	10	305391	
60 x 40 x 6	3,150	D2 / H40	10	305392	
80 x 50 x 6	2,400	D3 / H25	10	305393	
80 x 50 x 6	2,400	D3 / H40	10	305394	

FPK

				
6 x 10 x 3	32,000	medium	10	305374
8 x 10 x 3	24,000	medium	10	305375
10 x 14 x 6	20,000	medium	10	305376
15 x 20 x 6	12,000	medium	10	305377
20 x 25 x 6	10,000	medium	10	305378



# Satin finish rings

## Your equipment for satin finishing and polishing

### Application:


- Lacquer removal
- Matt finishing
- Processing of surfaces
- De-scaling
- Deoxidise

### Material:

- Rust and acid-proofed steels
- Steel
- Non-ferrous metals
- Plastics
- Varnished metal sheets

High-grade, satin finish rings from Rhodius are made of a nylon fleece with abrasive grit in three different grains.

A perfect mirror finish and elegant satin finish surfaces requires patience, experience and the right tool. The following pages explain how you can select the right satin finish or polishing ring for drills or angle grinders and achieve the results you want.

 <p><b>coarse</b></p>	<p><b>SAT coarse</b> Aluminium oxide, coarse</p>	
 <p><b>medium</b></p>	<p><b>SAT medium</b> Aluminium oxide, medium</p>	
 <p><b>fine</b></p>	<p><b>SAT fine</b> Silicon carbide, fine</p>	

# Polishing rings

In order to obtain best results, we recommend polishing in 3 steps. The recommended tools for grinding work before polishing can be found on page 121. The matching polishing pastes can be found on page 161.

### Advantages:

- High-quality randomly oriented fibre
- No interfering seams
- Low temperature development
- Homogeneous wear
- 30 % less paste consumption compared to conventional cloth rings

### Material:

- Rust and acid-proofed steels
- Steel
- Non-ferrous metals
- Varnishes
- Plastics
- Varnished metal sheets

### 1 Pre-polishing POL "Sisal cloth"

The next step after grinding.  
High stock removal

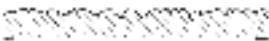


Stainless steel  
polishing paste:  
**White**

Non-ferrous  
metals polishing  
paste: **Brown**

### 2 Polishing POL "Hard fleece"

Helps to achieve a uniform surface



Stainless steel  
polishing paste:  
**White**

Non-ferrous  
metals polishing  
paste: **Brown**

### 3 High-gloss polishing POL "Soft fleece"

Short processing time and low pressure  
to produce high gloss



Stainless steel  
polishing paste:  
**Blue**

Non-ferrous  
metals polishing  
paste: **Blue**

## The mandrel

### Drill

10 x 30 x 6,0 mm



Up to 3 polishing or  
satin finish rings with  
a ring diameter of  
10 mm for the drill

### Angle grinder



30 mm

M14



50 mm

M14

Up to 3 / 5 poli-  
shing rings with  
a ring diameter  
of 14 mm, for the  
angle grinder

coarse/  
medium/  
fine

## SAT



TOPLINE ●●●

### SAT

⊕	⊖	⊘	📦	🖨️
100 x 10,0	4.000	coarse	1	353069
100 x 10,0	4.000	medium	1	353070
100 x 10,0	4.000	fine	1	353071
100 x 10,0	4.000	Set	1	353073



Also available as set consisting of: one satin finish ring each (coarse, medium, fine) and one drive arbor (10 x 30 x 6.0) - suitable for power machines

## POL



TOPLINE ●●●

### POL

⊕	⊖	⊘	📦	🖨️
100 x 10,0	4.000	Sisal	1	353062
100 x 10,0	4.000	hard	2	353063
100 x 10,0	4.000	soft	2	353064
100 x 10,0	4.000	Set	1	353072
150 x 14,0	3.000	Sisal	1	353107
150 x 14,0	3.000	hard	2	353108
150 x 14,0	3.000	soft	2	353109
200 x 14,0	3.000	Sisal	1	353110
200 x 14,0	3.000	hard	2	353111
200 x 14,0	3.000	soft	2	353112



Also available as set consisting of: 2 polishing rings each (sisal, hard, soft), 3 polishing pastes (white, brown, blue) and one drive arbor (10 x 30 x 6,0) - suitable for power machines

## ESD



TOPLINE ●●●

Drive arbor for polishing and satin finish rings

### ESD

⊕	📦	🖨️
10 x 30 x 6.0	1	353065
14 x 30 x M14 x 2.0	1	353113
14 x 50 x M14 x 2.0	1	353114





# Polishing paste



## Material:

- Rust and acid-proofed steels
- Steel
- Non-ferrous metals
- Varnished metal sheets

Rhodium polishing pastes are ideally matched to our nylon products and fabric rings. The polishing pastes contain an efficient abrasive grit.



## PASTE



TOPLINE ●●●



Different pastes are needed depending on the material and operation

### PASTE

	⊕	▒	📦	🖨️
For stainless steel and steel	white	1	353066	
For stainless steel, steel and NF-metals	blue	1	353067	
For non-ferrous metals	brown	1	353068	



	1. Pre-polishing	2. High-gloss polishing
Stainless steel	Polishing paste, white	Polishing paste, blue
Non-ferrous metals	Polishing paste, brown	





Tungsten carbide burrs \_\_\_\_\_ 165

# Milling

Milling



# Tungsten carbide burrs

## Fine precision

Precision is the key performance criteria for carbide burrs. This is why Rhodius carbide burrs are manufactured on the most modern CNC machines. The outstanding accuracy of these machines guarantees the constant high quality of the tool. Our carbide burrs are characterised by a high concentricity and perfectly matched cutting geometry, type of cut and number of cuts. For spot-on working results.

### The right cut

The following basic rule applies: the harder the material to be processed, the finer the cut.

	Cut	Type of cut	Preferred application	Recommended working speed [m/min]	
	Z6	Double cut	for a high stock removal with steel, cast iron and stainless steel	unalloyed steels/cast steel	450-600
				alloyed steels, tool steels	250-350
				Rust- and acid-proofed steels	250-350
				cast iron	450-600
	Z3	Single cut	for a good surface finish with steel, cast iron and stainless steel	unalloyed steels/cast steel	450-600
				alloyed steels, tool steels	250-350
				Rust- and acid-proofed steels	250-350
				cast iron	450-600
	Z ALU	Aluminium cut	for a high stock removal with aluminium and soft aluminium alloys, light metals, non-ferrous metals and plastics	Non-ferrous metals	700-900

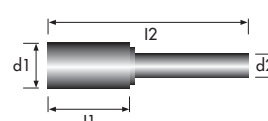
### The recommended operating speed

In order to achieve optimum working results and long lifetimes, the choice of an optimum speed is also of decisive importance. If the speeds are too low, this leads to erratic running and cavities. The consequence is premature wear of the carbide burr. Knocking and chattering of the carbide burr also greatly reduces the lifetime. This is why you should only use true-running chucks.

Carbide burr ø (mm)	Recommended cutting speed [m/min]					
	250	350	450	600	700	900
	Operating speed [min <sup>-1</sup> ]					
3	27,000	37,000	48,000	64,000	74,000	95,000
4	20,000	28,000	36,000	48,000	56,000	72,000
6	13,000	19,000	24,000	32,000	37,000	48,000
8	10,000	14,000	18,000	24,000	28,000	36,000
10	8,000	11,000	14,000	19,000	22,000	29,000
12	7,000	9,000	12,000	16,000	19,000	24,000
16	5,000	7,000	9,000	12,000	14,000	18,000

Dimensions example

Rhodius name	Rhodius article no.	d1	l1	d2	l2
HF A	305000	3.0	14.0	3.0	38.0





Form A: Cylinder without end cut



HF A

⊕	▽	📦	🖨️
3 x 14 x 3 x 38	Z6	1	305000
3 x 14 x 3 x 38	Z3	1	305658
6.3 x 12.7 x 3 x 45	Z6	1	305001
6.3 x 12.7 x 3 x 45	Z3	1	305659
6 x 18 x 6 x 50	Z ALU	1	305002
6 x 18 x 6 x 50	Z6	1	305003
6 x 18 x 6 x 50	Z3	1	305660
8 x 19 x 6 x 64	Z6	1	305004
8 x 19 x 6 x 64	Z3	1	305661

⊕	▽	📦	🖨️
9.6 x 19 x 6 x 64	Z ALU	1	305005
9.6 x 19 x 6 x 64	Z6	1	305006
9.6 x 19 x 6 x 64	Z3	1	305662
12.7 x 25 x 6 x 70	Z ALU	1	305007
12.7 x 25 x 6 x 70	Z6	1	305008
12.7 x 25 x 6 x 70	Z3	1	305663
16 x 25 x 6 x 70	Z6	1	305009
16 x 25 x 6 x 70	Z3	1	305664



Form B: Cylinder with end cut



HF B

⊕	▽	📦	🖨️
3 x 14 x 3 x 38	Z6	1	305010
3 x 14 x 3 x 38	Z3	1	305665
6.3 x 12.7 x 3 x 45	Z6	1	305011
6.3 x 12.7 x 3 x 45	Z3	1	305666
6 x 18 x 6 x 50	Z ALU	1	305012
6 x 18 x 6 x 50	Z6	1	305013
6 x 18 x 6 x 50	Z3	1	305667
8 x 19 x 6 x 64	Z6	1	305014
8 x 19 x 6 x 64	Z3	1	305668

⊕	▽	📦	🖨️
9.6 x 19 x 6 x 64	Z ALU	1	305015
9.6 x 19 x 6 x 64	Z6	1	305016
9.6 x 19 x 6 x 64	Z3	1	305669
12.7 x 25 x 6 x 70	Z ALU	1	305017
12.7 x 25 x 6 x 70	Z6	1	305018
12.7 x 25 x 6 x 70	Z3	1	305670
16 x 25 x 6 x 70	Z6	1	305019
16 x 25 x 6 x 70	Z3	1	305671



Form C: Ball Nosed Cylinder



HF C

⊕	▽	📦	🖨️
3 x 14 x 3 x 38	Z6	1	305020
3 x 14 x 3 x 38	Z3	1	305672
6.3 x 12.7 x 3 x 45	Z6	1	305021
6.3 x 12.7 x 3 x 45	Z3	1	305673
6 x 18 x 6 x 50	Z ALU	1	305022
6 x 18 x 6 x 50	Z6	1	305023
6 x 18 x 6 x 50	Z3	1	305674
8 x 19 x 6 x 64	Z6	1	305024
8 x 19 x 6 x 64	Z3	1	305675

⊕	▽	📦	🖨️
9.6 x 19 x 6 x 64	Z ALU	1	305025
9.6 x 19 x 6 x 64	Z6	1	305026
9.6 x 19 x 6 x 64	Z3	1	305676
12.7 x 25 x 6 x 70	Z ALU	1	305027
12.7 x 25 x 6 x 70	Z6	1	305028
12.7 x 25 x 6 x 70	Z3	1	305677
12.7 x 25 x 8 x 70	Z6	1	305502
16 x 25 x 6 x 70	Z6	1	305029
16 x 25 x 6 x 70	Z3	1	305678



Form D: Ball



HF D

⊕	🌳	📦	🖨️
3 x 2.5 x 3 x 38	Z 6	1	305030
3 x 2.5 x 3 x 38	Z 3	1	305679
4 x 3.4 x 3 x 38	Z 6	1	305031
4 x 3.4 x 3 x 38	Z 3	1	305680
6.3 x 5 x 3 x 38	Z 6	1	305032
6.3 x 5 x 3 x 38	Z 3	1	305681
6 x 4.7 x 6 x 50	Z ALU	1	305033
6 x 4.7 x 6 x 50	Z 6	1	305034
6 x 4.7 x 6 x 50	Z 3	1	305682
8 x 6 x 6 x 52	Z 6	1	305035

⊕	🌳	📦	🖨️
8 x 6 x 6 x 52	Z 3	1	305683
9.6 x 8 x 6 x 54	Z ALU	1	305036
9.6 x 8 x 6 x 54	Z 6	1	305037
9.6 x 8 x 6 x 54	Z 3	1	305684
12.7 x 11 x 6 x 56	Z ALU	1	305038
12.7 x 11 x 6 x 56	Z 6	1	305039
12.7 x 11 x 6 x 56	Z 3	1	305685
16 x 14 x 6 x 59	Z 6	1	305040
16 x 14 x 6 x 59	Z 3	1	305686



Form E: Oval



HF E

⊕	🌳	📦	🖨️
3 x 6 x 3 x 38	Z 6	1	305041
3 x 6 x 3 x 38	Z 3	1	305687
6.3 x 9.5 x 3 x 42	Z 6	1	305042
6.3 x 9.5 x 3 x 42	Z 3	1	305688
6 x 10 x 6 x 50	Z 6	1	305043
6 x 10 x 6 x 50	Z 3	1	305689
8 x 15 x 6 x 60	Z 6	1	305044
8 x 15 x 6 x 60	Z 3	1	305690
9.6 x 16 x 6 x 60	Z 6	1	305045
9.6 x 16 x 6 x 60	Z 3	1	305691
12.7 x 22 x 6 x 67	Z 6	1	305046
12.7 x 22 x 6 x 67	Z 3	1	305692
16 x 25 x 6 x 70	Z 6	1	305047
16 x 25 x 6 x 70	Z 3	1	305693
16 x 25 x 8 x 70	Z ALU	1	305499



Form F: Ball Nosed Tree



HF F

⊕	🌳	📦	🖨️
3 x 14 x 3 x 38	Z 6	1	305048
3 x 14 x 3 x 38	Z 3	1	305694
6.3 x 12.7 x 3 x 45	Z 6	1	305049
6.3 x 12.7 x 3 x 45	Z 3	1	305695
6 x 18 x 6 x 50	Z ALU	1	305050
6 x 18 x 6 x 50	Z 6	1	305051
6 x 18 x 6 x 50	Z 3	1	305696
8 x 20 x 6 x 65	Z 6	1	305052
8 x 20 x 6 x 65	Z 3	1	305697

⊕	🌳	📦	🖨️
9.6 x 19 x 6 x 64	Z ALU	1	305053
9.6 x 19 x 6 x 64	Z 6	1	305054
9.6 x 19 x 6 x 64	Z 3	1	305698
12.7 x 25 x 6 x 70	Z ALU	1	305055
12.7 x 25 x 6 x 70	Z 6	1	305056
12.7 x 25 x 6 x 70	Z 3	1	305699
16 x 30 x 8 x 75	Z ALU	1	305500
16 x 25 x 6 x 70	Z 6	1	305057
16 x 25 x 6 x 70	Z 3	1	305700



HF G

Form G: Tree

⊕	🍷	📄	🖨️
3 x 14 x 3 x 38	Z 6	1	305058
3 x 14 x 3 x 38	Z 3	1	305701
6.3 x 12.7 x 3 x 45	Z 6	1	305059
6.3 x 12.7 x 3 x 45	Z 3	1	305702
6 x 18 x 6 x 50	Z 6	1	305060
6 x 18 x 6 x 50	Z 3	1	305703
8 x 19 x 6 x 64	Z 6	1	305061
8 x 19 x 6 x 64	Z 3	1	305704
9.6 x 19 x 6 x 64	Z 6	1	305062
9.6 x 19 x 6 x 64	Z 3	1	305705
12.7 x 25 x 6 x 70	Z 6	1	305063
12.7 x 25 x 6 x 70	Z 3	1	305706
12 x 30 x 6 x 75	Z ALU	1	305501
16 x 25 x 6 x 70	Z 6	1	305064
16 x 25 x 6 x 70	Z 3	1	305707



HF H

Form H: Flame

⊕	🍷	📄	🖨️
3 x 6 x 3 x 38	Z 6	1	305065
3 x 6 x 3 x 38	Z 3	1	305708
6 x 14 x 6 x 50	Z 6	1	305066
6 x 14 x 6 x 50	Z 3	1	305709
8 x 19 x 6 x 64	Z 6	1	305067
8 x 19 x 6 x 64	Z 3	1	305710
9.6 x 19 x 6 x 64	Z 6	1	305068
9.6 x 19 x 6 x 64	Z 3	1	305711
12.7 x 32 x 6 x 77	Z 6	1	305069
12.7 x 32 x 6 x 77	Z 3	1	305712
16 x 36 x 6 x 81	Z 6	1	305070
16 x 36 x 6 x 81	Z 3	1	305713



HF J

Form J: Countersink 60° deg.

⊕	🍷	📄	🖨️
3 x 2.5 x 3 x 38	Z 3	1	305714
6 x 4 x 6 x 50	Z 6	1	305072
6 x 4 x 6 x 50	Z 3	1	305715
9.6 x 8 x 6 x 56	Z 6	1	305073
9.6 x 8 x 6 x 56	Z 3	1	305716
12.7 x 11 x 6 x 59	Z 6	1	305074
12.7 x 11 x 6 x 59	Z 3	1	305717
16 x 14.5 x 6 x 63	Z 6	1	305075
16 x 14.5 x 6 x 63	Z 3	1	305718



KSK

HF K



TOP LINE ●●●

Form K: Countersink 90° deg.



HF K

⊕	🌿	📦	🖨️
3 x 1.5 x 3 x 38	Z 3	1	305719
6 x 3 x 6 x 50	Z 6	1	305077
6 x 3 x 6 x 50	Z 3	1	305720
9.6 x 4.7 x 6 x 53	Z 6	1	305078
9.6 x 4.7 x 6 x 53	Z 3	1	305721
12.7 x 6.3 x 6 x 55	Z 6	1	305079
12.7 x 6.3 x 6 x 55	Z 3	1	305722
16 x 8 x 6 x 57	Z 6	1	305080
16 x 8 x 6 x 57	Z 3	1	305723

KEL

HF L



TOP LINE ●●●

Form L: Ball Nosed Cone



HF L

⊕	🌿	📦	🖨️
3 x 14 x 3 x 38	Z 6	1	305081
3 x 14 x 3 x 38	Z 3	1	305724
6 x 18 x 6 x 50	Z ALU	1	305082
6 x 18 x 6 x 50	Z 6	1	305083
6 x 18 x 6 x 50	Z 3	1	305725
8 x 25.4 x 6 x 70	Z 6	1	305084
8 x 25.4 x 6 x 70	Z 3	1	305726
9.6 x 30 x 6 x 76	Z ALU	1	305085
9.6 x 30 x 6 x 76	Z 6	1	305086
9.6 x 30 x 6 x 76	Z 3	1	305727
12.7 x 32 x 6 x 77	Z ALU	1	305087
12.7 x 32 x 6 x 77	Z 6	1	305088
12.7 x 32 x 6 x 77	Z 3	1	305728
16 x 33 x 6 x 78	Z 6	1	305089
16 x 33 x 6 x 78	Z 3	1	305729

SKM

HF M



TOP LINE ●●●

Form M: Cone



HF M

⊕	🌿	📦	🖨️
3 x 11 x 3 x 38	Z 6	1	305090
3 x 11 x 3 x 38	Z 3	1	305730
6.3 x 12.7 x 3 x 49	Z 6	1	305091
6.3 x 12.7 x 3 x 49	Z 3	1	305731
6 x 20 x 6 x 50	Z 6	1	305092
6 x 20 x 6 x 50	Z 3	1	305732
9.6 x 16 x 6 x 64	Z 6	1	305093
9.6 x 16 x 6 x 64	Z 3	1	305733
12.7 x 22 x 6 x 71	Z 6	1	305094
12.7 x 22 x 6 x 71	Z 3	1	305734
16 x 25 x 6 x 71	Z 6	1	305095
16 x 25 x 6 x 71	Z 3	1	305735

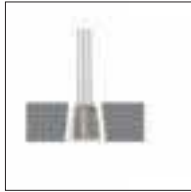




Form N: Inverted Cone

HF N

3 x 4 x 3 x 38	Z 6	1	305096	
3 x 4 x 3 x 38	Z 3	1	305736	
6.3 x 6.4 x 3 x 39	Z 6	1	305097	
6.3 x 6.4 x 3 x 39	Z 3	1	305737	
6 x 8 x 6 x 50	Z 6	1	305098	
6 x 8 x 6 x 50	Z 3	1	305738	
9.6 x 9.5 x 6 x 55	Z 6	1	305099	
9.6 x 9.5 x 6 x 55	Z 3	1	305739	
12.7 x 12.7 x 6 x 58	Z 6	1	305100	
12.7 x 12.7 x 6 x 58	Z 3	1	305740	
16 x 19 x 6 x 64	Z 6	1	305101	
16 x 19 x 6 x 64	Z 3	1	305741	



HF SET



Set includes one each:  
 HF B (305013, 305018);  
 HF C (305023, 305028);  
 HF D (305034, 305039);  
 HF F (305052, 305056);  
 HF G (305060, 305063)  
 head diameter 6 and 12,7 mm, cut Z6

HF SET

SET incl. 10 items		1	305484



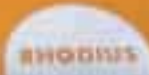


## PROFESSIONAL TOOL SET Stainless steel polishing

- 1. PROFI SET  
Edelstahl Polier
- 2. KIT PROFESSIONNEL  
Polissage d'acier inoxydable
- 3. JUEGO DE HERRAMIENTAS PROFESIONALES  
Pulido de acero inoxidable

**i** Safe work with use of PPE is essential. Always use appropriate PPE. Follow the detailed instructions of the manufacturer & the user manual. Read the instructions of use & proceed in order.

STAINLESS STEEL / ACIER INOXYDABLE / ACOER INOXIDABLE / ACOER INOXIDABLE



## PROFESSIONAL TOOL SET Stainless steel polishing



STAINLESS STEEL / ACIER INOXYDABLE / ACOER INOXIDABLE / ACOER INOXIDABLE



●		Stainless steel polishing _____	172
●		Aluminium rims polishing _____	173
●		Automotive _____	174
●		Weld grinding _____	175

# Tool Sets

# TOOL SET **Stainless steel polishing**

## PROFESSIONAL TOOL SET STAINLESS STEEL POLISHING



Our "Professional-Tool-Set" is just the thing for you if you have to frequently polish stainless steel. It comes with a selection of perfectly matched products for all stages of work - from grinding to mirror-finish polishing. This specific selection of products will enable you to quickly and simply get the end result you want. Because of the reduced speeds, all polishing products in the "Professional-Tool-Set" must be used on angle grinders/ angle polishers with a diameter of 125 mm.

**i** Clean the workpiece after every stage of polishing with a soft damp cloth and a little washing-up liquid. All paste residues from the previous stage of polishing must have been removed from the workpiece before mirror-finish / end-finish polishing may be commenced.

### Content:

3x LSZ F VISION, 125 mm, K60	> see page 120
3x VSK VISION, 125 mm	> see page 122
1x VKSS WS, 125 mm, 4S-very fine	> see page 155
1x FLS, 125 mm, D5 / H25	> see page 156
1x FLS, 125 mm, D5 / H40	> see page 156
1x PASTE, white	> see page 161
1x PASTE, blue	> see page 161

⊕	📦	📄
For angle grinders in diameter 125 mm 1 209540		



VISION discs provide with three clever recesses an unobstructed view of the workpiece.



VSK VISION: With the combination of two grinding tools, you can grind and finish in one operation



Due to the felt flaps the FLS guarantees a perfect redistribution of the polishing paste

# TOOL SET Aluminium rims polishing

## PROFESSIONAL TOOL SET ALUMINIUM RIMS POLISHING



Aluminium rims will sparkle like new after a professional polish. The "Professional-Tool-Set" for polishing aluminium rims comes with all the tools you'll need. Use the angle-polisher products for the larger areas. The additional tools possessing a 6 mm shank for the finer tasks. The pastes have been specially formulated for aluminium.

**i** Clean the rim after every stage of polishing with a soft damp cloth and a little washing-up liquid. All paste residues from the previous stage of polishing must have been removed from the rim before mirror-finish polishing may be commenced.

### Content:

2x VSK VISION, 125 mm	> see page 122
1x VKSS WS, 125 mm, 4S-very fine	> see page 155
1x FLS, 125 mm, D5 / H25	> see page 156
1x FLS, 125 mm, D5 / H40	> see page 156
1x VSK, 40 x 30 x 6, fine	> see page 145
2x VKS GS, 40 x 12 x 6, very fine	> see page 155
1x FLPB, 40 x 30 x 6, H25	> see page 156
1x FLPB, 40 x 30 x 6, H40	> see page 156
1x PASTE, brown	> see page 161
1x PASTE, blue	> see page 161

⊕	📦	📄
For angle grinder in diameter 125 mm, machines with 6 mm shaft adaptor	1	209541



VISION discs provide with three clever recesses an unobstructed view of the workpiece.



The non-woven fabric pressed in our VKS discs and shank tools can be profiled and thereby perfectly adapts to the geometry of the piece to be treated.



Optimum redistribution of the polishing pastes on the felt flap discs FLS and the polishing felt tools FLPB

# TOOL SET **Automotive**

## PROFESSIONAL TOOL SET AUTOMOTIVE



This "Professional-Tool-Set" provides the solution for many of the daily tasks encountered in automotive workshops. The XT8 EXACT cuts thin-walled components almost without leaving any burrs. The included brushes make cleaning and removing paint from workpieces easier. The XT35 CROSS has been designed for cutting and light grinding work, such as deburring, in a single process. Errors during grinding may be minimised with the LSZ F VISION thanks to the clear view of the workpiece that it provides. This saves time and money, particularly when working on thin-walled components, e.g. car wings.

### Content:

- 1x SRBZ, 115 mm > see page 75
- 1x STBZ, 65 mm, M14 > see page 79
- 3x LSZ F VISION, 125 mm, K60 > see page 120
- 5x XTK8 EXACT, 125 mm > see page 28
- 5x XTK35 CROSS, 125 mm > see page 30

⊕	📦	📄
For angle grinders in diameter 125 mm	1	209542



XT35 CROSS - extra-thin cutting and grinding with one disc.



The LSZ F VISION provides with three clever recesses an unobstructed view of the workpiece.



The XT8 EXACT makes cutting without hardly any burrs possible.

# TOOL SET **Weld grinding**

## PROFESSIONAL TOOL SET WELD GRINDING



This comprehensive set consisting of two brushes and two innovative products from the BRAINTOOLS range, allows work on welds to be carried out professionally. After hollow welds have been cleaned with brushes, the FUSION ensures that the welds are worked easily and efficiently. The product's unique design combines the benefits of a flap disc with those of a grinding disc. The soft deburring disc is designed so that it can be profiled and thus adapted perfectly to the shape of hollow welds. The VISION provides a full view of the whole workpiece while work is being carried out on any welds. This prevents tarnishing and the removal of too much stock.

### Content:

1x SRBZ, 115 mm	> see page 75
1x SKBZ, 100 mm	> see page 83
3x FS1 FUSION, 125 mm x 4 mm, K40	> see page 98
2x FS1 FUSION, 125 mm x 6,5 mm, K40	> see page 98
2x LSZ F VISION, 125 mm, K40	> see page 120
2x LSZ F VISION, 125 mm, K60	> see page 120
1x LSZ F VISION, 125 mm, K80	> see page 120

⊕	📄	🖨️
For angle grinders in diameter 125 mm	1	209543



FS1 FUSION - Profilable grinding disc with a fine microsection comparable to a flap disc....



... perfect for treating small slots and corners.



The LSZ F VISION provides with three clever recesses an unobstructed view of the workpiece.



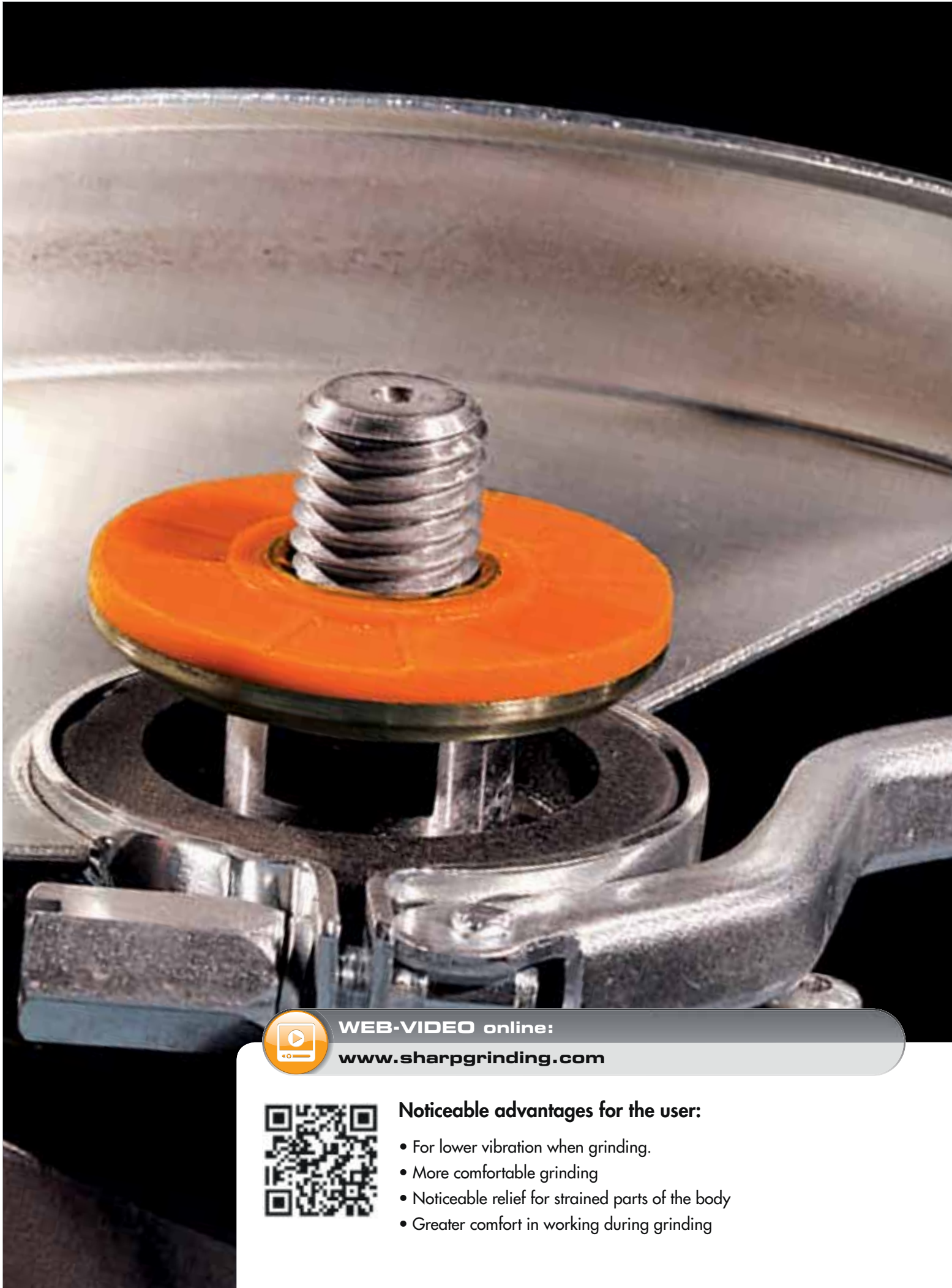




Anti-vibration flange .....	178
Safety goggles .....	180
Ear protection .....	180
Leather gloves .....	180
Dust protection .....	181

## Accessories

## Lower vibrations when grinding



**WEB-VIDEO online:**  
[www.sharpgrinding.com](http://www.sharpgrinding.com)



### Noticeable advantages for the user:

- For lower vibration when grinding.
- More comfortable grinding
- Noticeable relief for strained parts of the body
- Greater comfort in working during grinding

# BRAINTOOLS® RHODUCER

## RHODUCER



BRAINTOOLS®

Its wear-resistant, elastic coating means the RHODUCER can very effectively absorb the vibrations that occur at the disc. The vibration load on the handle is reduced by up to 30 %. Both factors can lead to a significant reduction of the vibration load and thus make for much more pleasant work and a noticeable physical relief of the affected parts of the body. The RHODUCER can be used with no problems on machines with a normal flange for all roughing wheels with a width of 4.5 mm and above.

### Application examples:

- Surface grinding
- Edge grinding
- Welding seams



### RHODUCER

1	303252

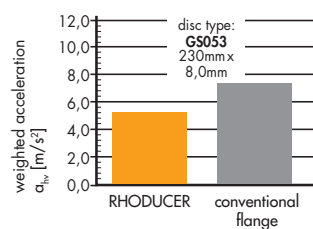


### Legal:

Stricter guidelines as protection against health-damaging influences have been in force since 06.03.2007 on the basis of the EC Directives 2002/44/EC and 2003/10/EC on the protection of employees against damaging noise and vibrations. Employers whose staff are confronted by vibrations during work must ensure compliance with the corresponding threshold values within the scope of their fiduciary duty.



Simple assembly within a few seconds





## SE20



### Ear muffs SE20

Protection and comfort. Maximum protection! Top quality! Exemplary workmanship! Modern design! Your ears come in for some noise punishment when grinding. The SE20 protects your hearing. The padded steel headband resists even extreme loads. The foam padding and flexible, super-soft cushions offer maximum-comfort even if worn for prolonged periods of time. Size can be adjusted with telescopic height adjustment. SNR (Signal-to-Noise-ratio) 32.

### SE20

	
1	900384



## SE10



### Safety goggles SE10

The panoramic lens of the SE10 permits an unrestricted, wide-angle view. Adjustable side clips guarantee an individual fit and the featherweight, one-part nylon frame combines maximum comfort during wear with fashionable styling. They also offer 99.9 % protection against UV radiation. These quality safety goggles are safety tested and bear the EN 166-F CE symbol.

### SE10

	
1	900383


## SE30



### Leather gloves SE30

The best protection for your best tool - your hands. The sturdy all-leather working gloves are made of high grade calf leather and are suitable for all fields of use. The soft, well-processed leather makes them comfortable to wear and gives them a firm grip. Fully tested according to EN 388.

### SE30



		
Size 10	12	900385

# SE40

## Dust mask SE40 with expiration valve

The mask is suitable when working with noxious and carcinogenic substances, smoke and water-based aerosols up to 10-times the lower toxic limit. The ActivForm means that the mask automatically adjusts to variously shaped faces. The special outer structure keeps the mask in optimum shape during the entire period of use. The exhale valve prevents the glass steaming up during expiration. Ideal for wearers of glasses.

### SE40

	
20	900386





**General notes:**

Information on the scope of delivery, appearance, performance and dimensions of the tool are true for the time of printing.

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# Explanation of symbols

## Material symbols and colour codes



Stainless  
Steel



Steel



Non-ferrous  
metals



Stone



Cast-iron



Wood

## Dimensions and types

mm:

**1,0-1,9**

Width in mm for cutting and roughing wheels

 coarse  
medium/  
fine/

Granulation of non-woven with abrasive grains

 **40/60/  
80/120**

Grain of flap discs / Coated abrasives

 mm:  
**0,20-0,30**

Wire width

**WRC**

Form according to norm DIN for tungsten carbide burrs

 mm:  
**10,0**

Segment height for segmented diamond discs

 mm:  
**7,0**

Segment height of diamond discs with a closed cutting edge

 fine/  
coarse

Grit for grinding bristles with aluminium oxide or silicon carbide

## Quality system

**BRAINTOOLS®**

Very innovative products with a unique problem-solving competence.

**TOPLINE** ●●●

Best products for their category for maximum performance and quality.

**PROLINE** ●●○

For particularly high demands and frequent use in industry and trades.

















**ALPHALINE** ●○○

Efficient grinding tools for the cost-conscious.



# Explanation of symbols








## Machines

- |   |   |
|---|---|
|  Freehand angle grinder                   |  Stationary cutting and grinding machine |
|  Freehand angle grinder with special hood |  Drill                                   |
|  Straight grinder                         |  Rotary sander                           |
|  Petrol driven cutting machine            |  Satin finishing machine                 |
|  Chop saw                                 |  Belt grinder                            |
|  Stone and joint saw                      |  Air grinder                             |
|  Stationary polishing machine             |  Wall chaser                             |
|  Stationary belt grinder                  |  Table saw                               |














## Safety and application identification

- |   |  |
|---|--|
|  Pay attention to the safety instructions |  Iron and sulphur free $\leq 0.1\%$ |
|  Protective gloves                      |  No freehand grinding             |
|  Eye protection                         |  No face grinding                 |
|  Dust protection                        |  Do not use damaged disc          |
|  Ear protection                         |  |

## Product details

- |   |  |
|---|--|
|  Dimension            |  Packing Unit |
|  Article/order number |  Grit         |
|  Revolutions          |  Wire width   |
|  Cut                  |  |

## Shapes

- |  |   |
|--|---|
|  Cutting disc flat (shape 41)      |  Supporting plate                              |
|  Cutting disc depressed (shape 42) |  Diamond cutting disc flat                     |
|  Grinding disc (shape 27)          |  Diamond cutting disc depressed                |
|  Grinding disc flat (shape 1)      |  Diamond cup wheel                             |
|  Cup wheel (shape 11)              |  Diamond cutting discs for triple milling unit |
|  Grinding disc flat                |  Diamond cutting discs for dual milling unit   |
|  Grinding disc angled              |   |

## Types of wire

- |   |  |
|---|--|
|  flat wire    |  crimped wire |
|  knotted wire |  |

Simplify your work.



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