RHODIUS

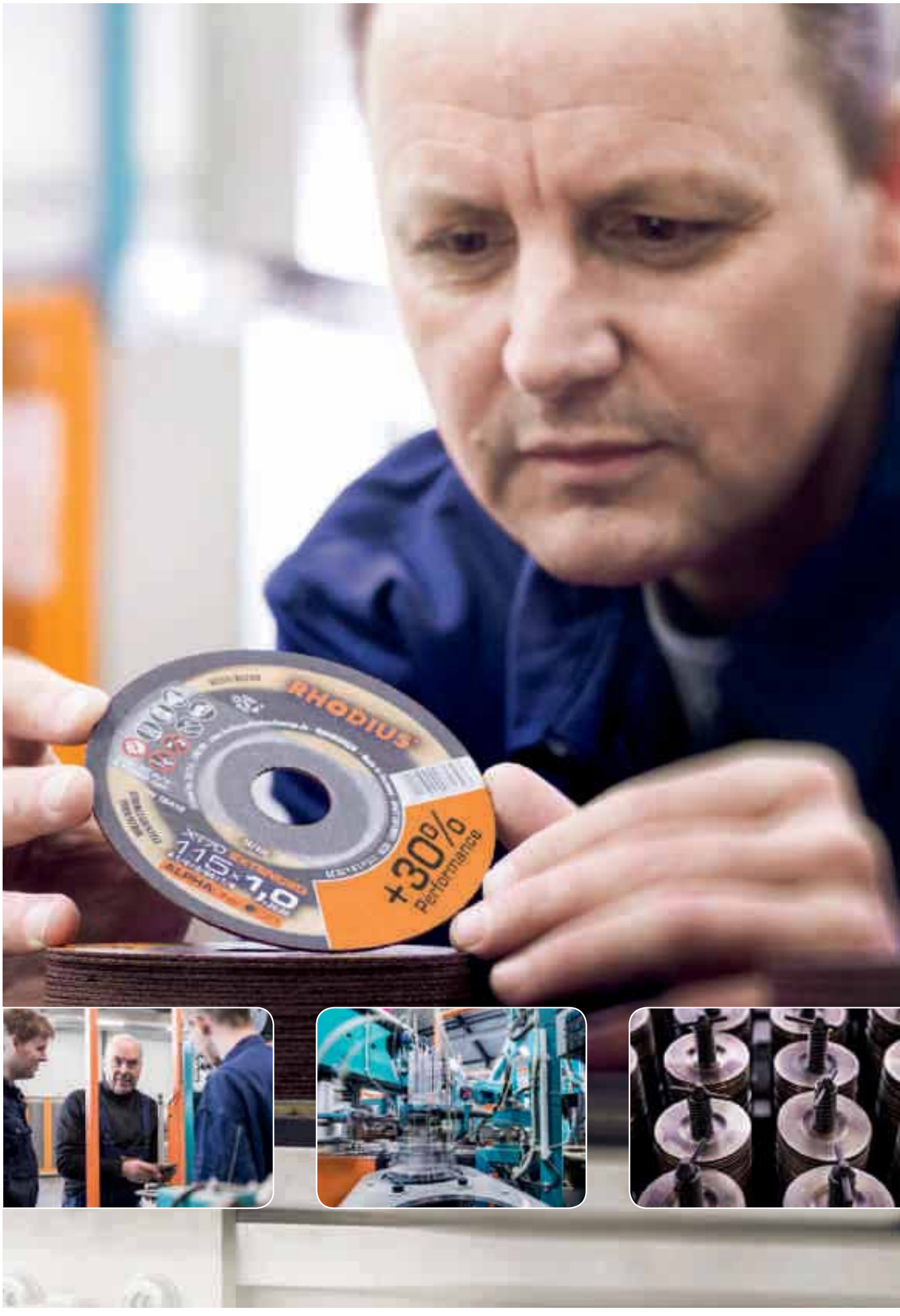
more simple
simply more

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.

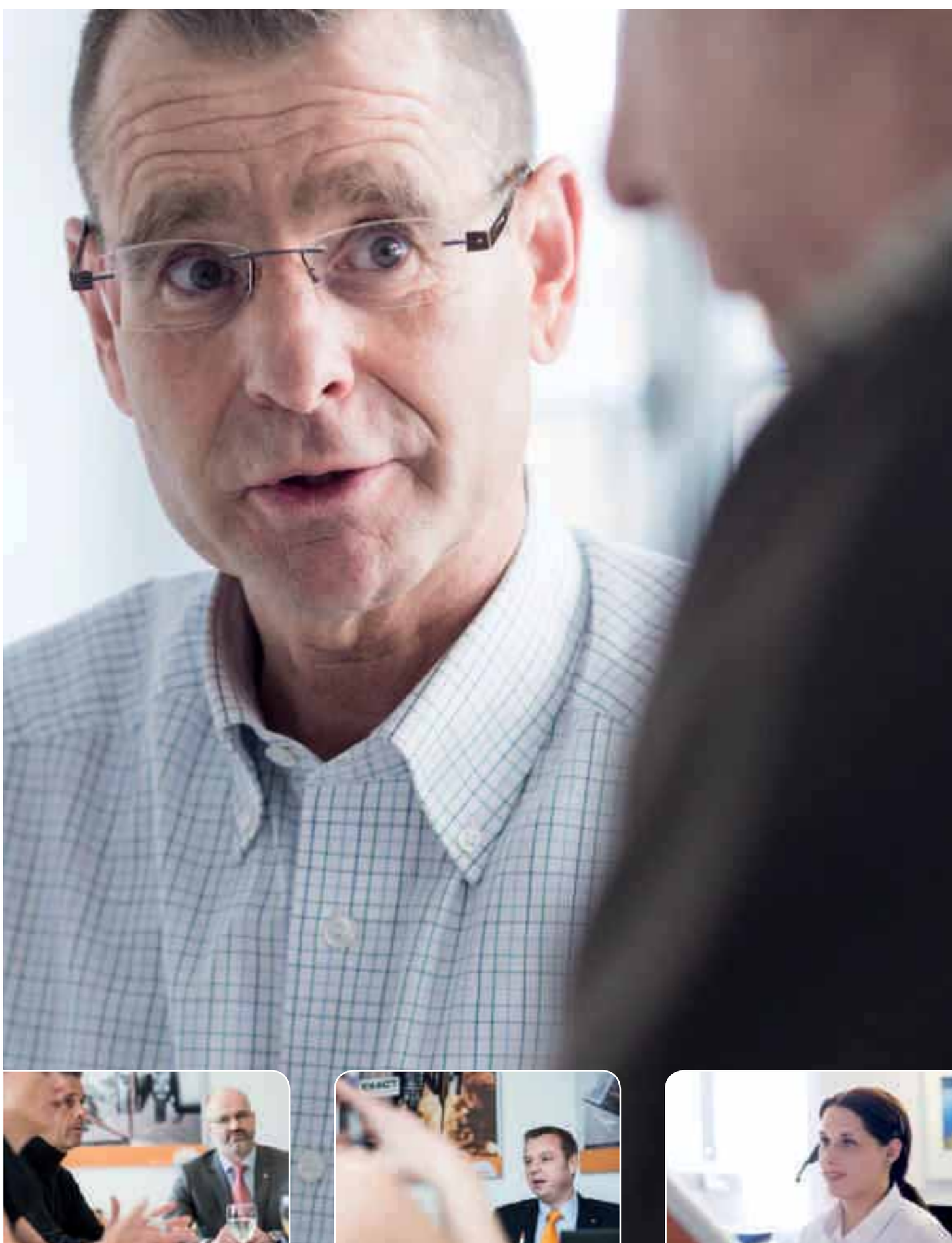

RHODIUS
+30%
performance

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.rhodius-abrasives.com** and **www.vds-bonn.de**

oSa-manufacturers guarantee safety.

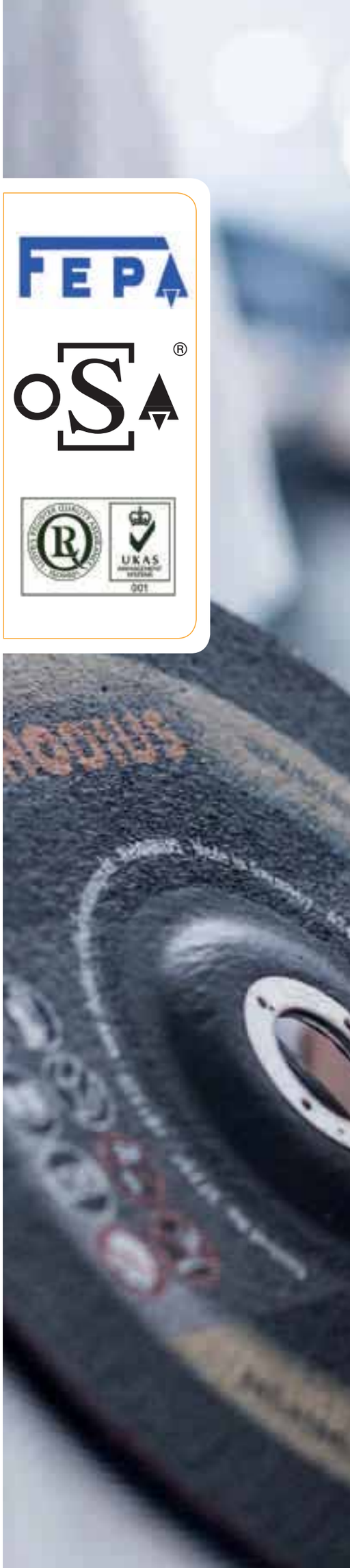
oSa stands for "Organisation for the Safety of Abrasives". Leading manufacturers of quality abrasives have joined together in this international organisation to document the high safety standard of their brand and quality products. Rhodius is a founder member of the oSa and is participant in ensuring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

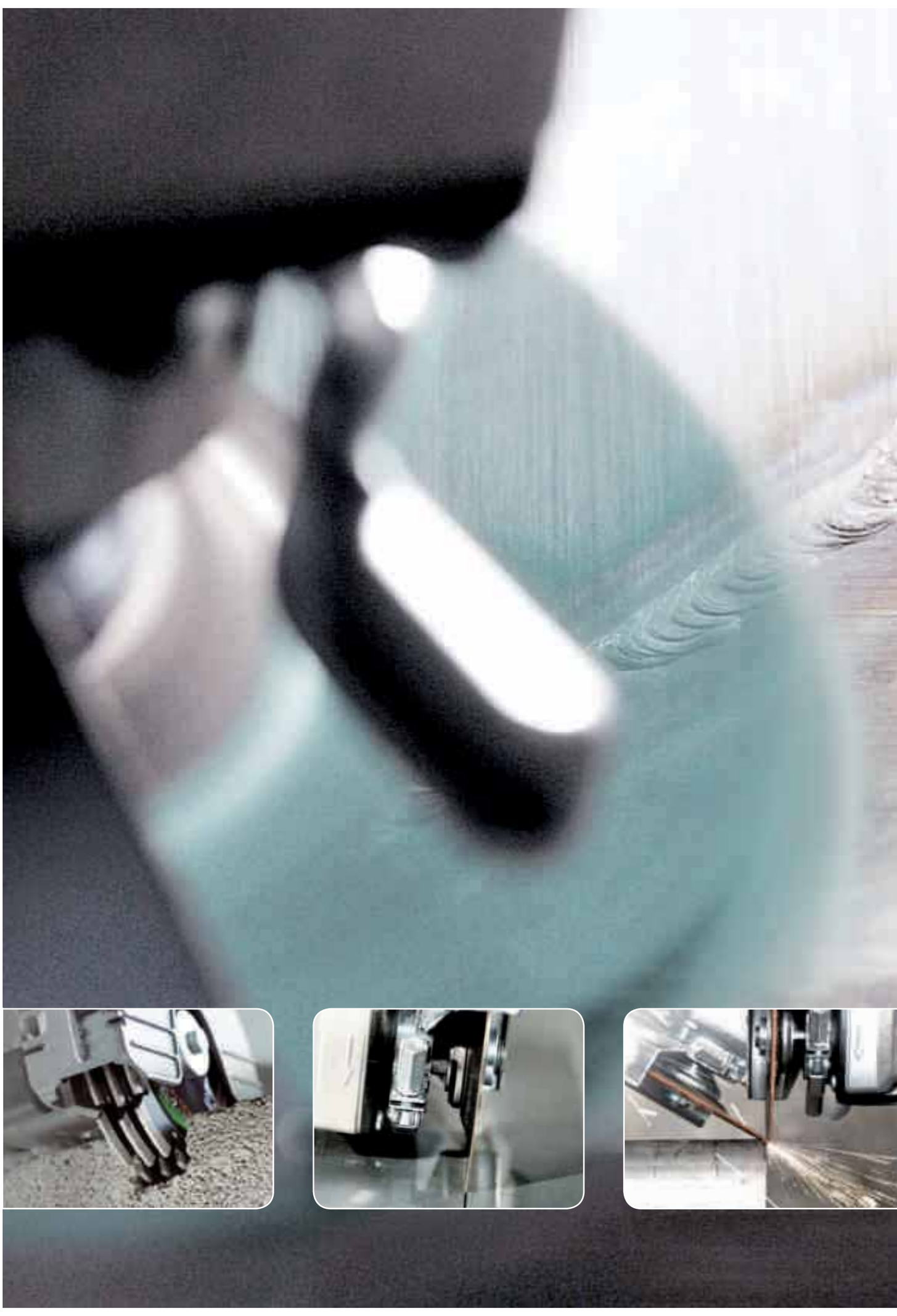
Your advantages:

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

= 100 % satisfaction

SATISFACTION
RHODIUS
100%
60 DAYS
GUARANTEE
www.rhodius-guarantee.info

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

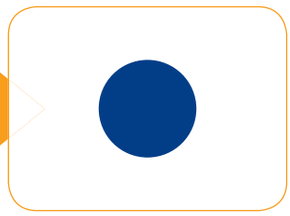
Five steps to the right product

Structure of catalogue

1 **Select processing type**
e.g. Cutting

2 **Select product type**
e.g. Extra thin cutting discs

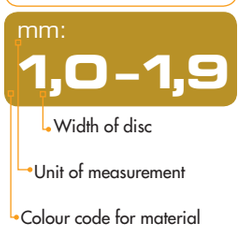
3 **Select material to be processed**
e.g. Steel



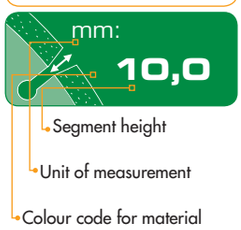
4 **Select quality level**
e.g. TOPline

5 **Select dimensions and types**
Width / cutting edge / form / grain / wire thickness

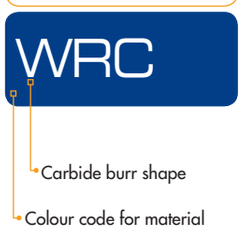
e.g.
Cutting and grinding discs



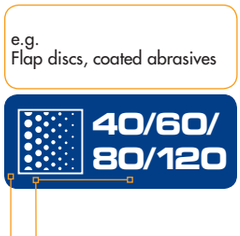
e.g.
Diamond cutting dics



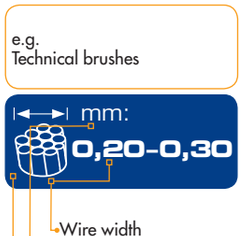
e.g.
Tungsten carbide burrs



e.g.
Flap discs, coated abrasives



e.g.
Technical brushes



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

Stainless steel
Steel
Non-ferrous metals
Stone

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

Quick product finder: Cleaning

	Product reference	Page	Cleaning			
			Stainless steel	Steel	Non-ferrous metals	Wood
Non-woven cleaning tools	SVS	68		■	■	■
	SVS GS					
	SVS Mini					
Wheel brushes	ERBZ	74	■	■		
	ERBW					
	SRBZ	75		■		
	SRBZGS					
	SRBWGS					
	SRBWBM					
	SRBWST					
	HRB	77	■	■	■	■
Cup brushes	ETBZ	78	■	■		
	ETBW					
	STBZ	79		■		
	STBZ S					
	STBW					
	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		■	■		
	SHBG	90		■		
	BSBG					
	SKNB					
	MHBW	92			■	
	BSBW					
	ZKB					

Quick product finder: Rough grinding

Stainless steel
Steel
Non-ferrous metals
Stone

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

Quick product finder: Grinding / finishing

Product reference		Page	Grinding / Finishing			
			Stainless steel	Steel	Non-ferrous metals	Wood
Flap discs	LSZ F VISON	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	132		●		
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					

Product reference		Page	Grinding / Finishing			
			Stainless steel	Steel	Non-ferrous metals	Wood
Drum	SVSW	146		●		●
	LW	146	●	●		●
	BW					
	VWK	147	●	●		
	VW					
	FW / FBW					
Rolls	SPBR	148	●	●		●
	KERR					
	KFPR	149				●
	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					
	POL SET					
Polishing paste	PASTE	160	●	●		

* 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

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

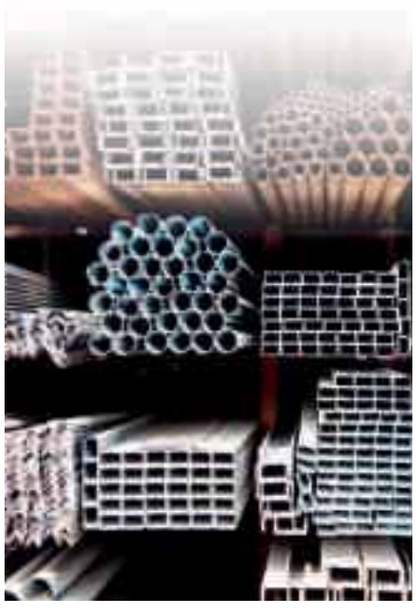
Safety goggles SE10
Find more on page 180

Leather gloves SE30
Find more on page 180

Dust mask SE40
Find more on page 181

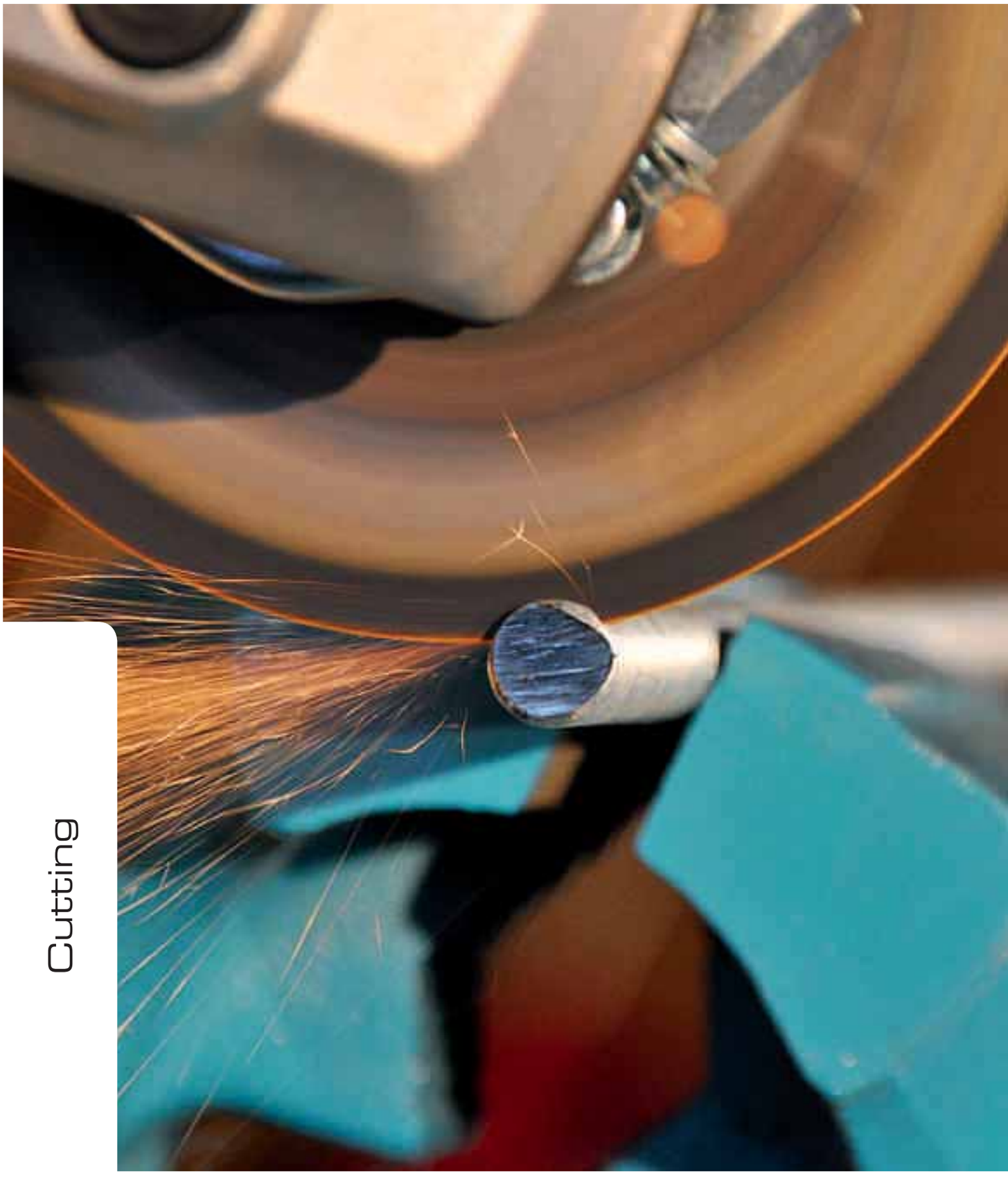
Cutting

Extra thin cutting discs ____ 28
Freehand cutting discs ____ 38
Stationary cutting discs ____ 44
Diamond cutting dics ____ 50



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

● = particularly suitable
◐ = suitable
○ = limited suitability

Stainless Steel
Steel
Non-ferrous metals
Stone
Cast-iron

Material	Workpiece's material thickness	Machine performance see page 26	Hardness / Lifetime	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
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 ●●●	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 ●○○
Stainless Steel	<3mm	weak	○●●●●	●	○	◐	●	◐						○	◐											
		strong	○●●●●	●	◐	●	◐	○						◐	○								◐			
	>3mm	weak	○○●●●	◐	◐	○	●	◐						◐	●											
		strong	○○●●●	○	●	●	●	○						●	○								●			
Structural steels / metal sheets	<3mm	weak	○●●●●	●	◐	○	◐	◐	◐	●	●			○	○	○	○	○								
		strong	○●●●●	●	●	◐	◐	○	●	●	◐			◐	○	◐	◐	◐								
	>3mm	weak	○○●●●	○	◐	○	◐	◐	◐	●	●			◐	◐	◐	●	◐					○	◐	●	◐
		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

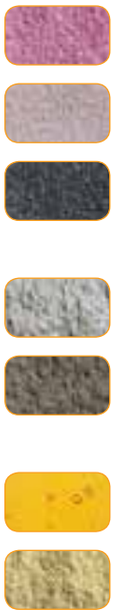
1 Metal ring with expiry date
centred and secure fixing in the machine

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

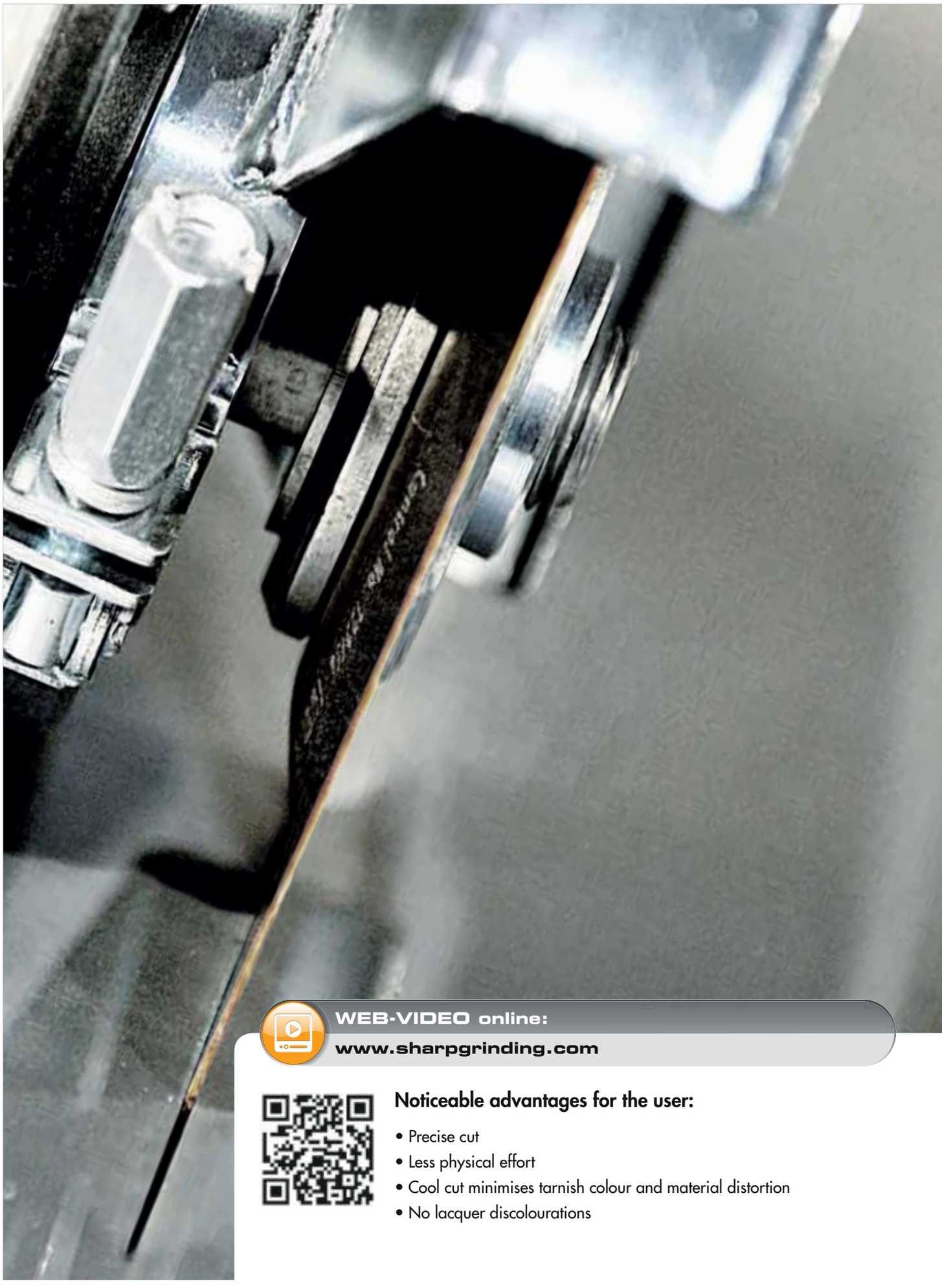
V[m/sec]	50	63	80	100
d1[mm]	rpm			
30	31830	40105	50900	63660
40	23870	30080	38200	47750
50	19100	24060	30560	38200
65	14690	18510	23500	29380
75	12565	15830	20100	25130
100	9550	12030	15280	19100
110	8680	10940	13890	17360
115	8300	10460	13285	16610
125	7640	9630	12200	15280
150	6370	8020	10185	12730

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.sharpgrinding.com**

Maximum precision when cutting



WEB-VIDEO online:
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.

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

XTK8 EXACT A60U9BF1433

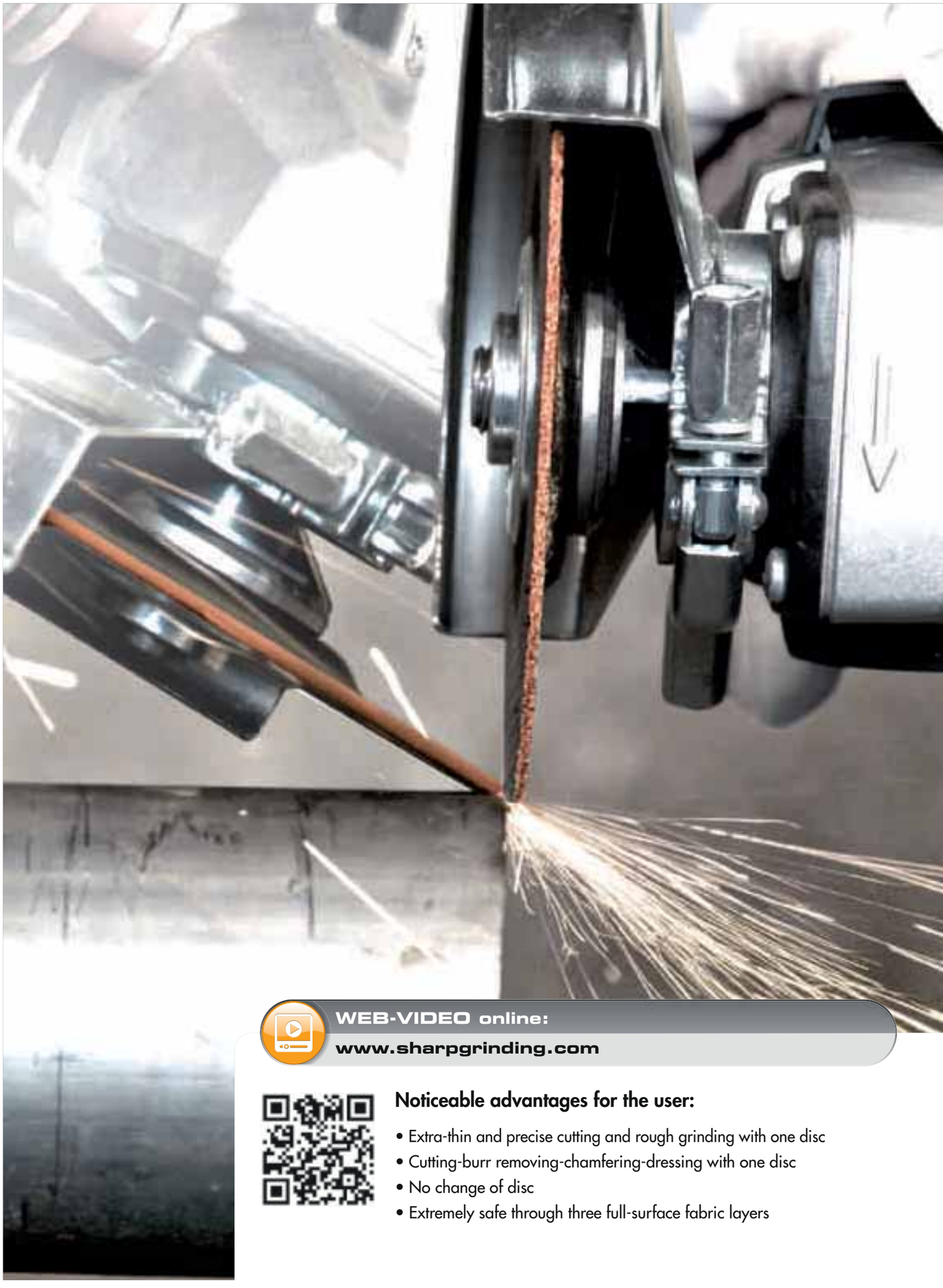
	Shape 42	
115 x 0.8 x 22.23	50	206683
125 x 0.8 x 22.23	50	206684

Burr-free cutting of thread rods

Ideal for secture 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

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.

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

Application examples:
- Cutting
- Bevelling
- 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

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		
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 [1)]	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		
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

[1)] Reducing bush - 10.00 mm - is included

mm: 1,0–1,9 XT38

PROLINE ●●○

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

Ideal for low power machines

XT38 A46T11BF1415

Shape 41		
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		
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

Ideal for low power machines

XT70 A46T11BF10097

Shape 41		
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		
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

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

80 m/s

TOPLINE ●●●

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

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

80 m/s

TOPLINE ●●●

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

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

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

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

80 m/s

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

80 m/s

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

80 m/s

ALPHALINE ●○○

●●●●○○ 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

mm:
3,0–4,0 FT30

≤ 300 mm 80 m/s ≥ 350 mm 100 m/s

PROLINE ●●○

●●●●●● 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

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

80 m/s

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

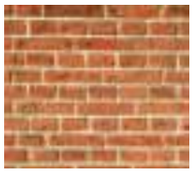
FTK24 A24P-BF34

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



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

≤ 300 mm 80 m/s ≥ 350 mm 100 m/s

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 dics / 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

TOPLINE ●●●

●●●●●○ 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

100 m/s

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

80 m/s

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

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

Diamond cutting dics

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.

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

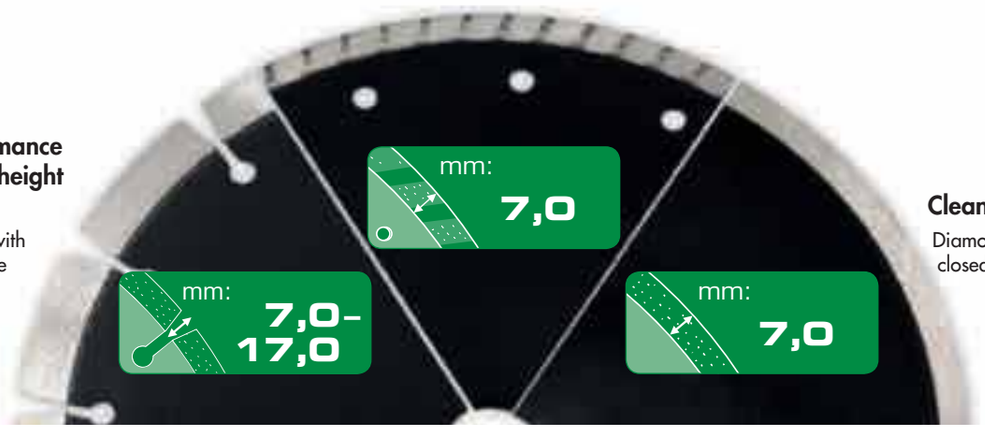
The shape of the cutting edge is also of decisive importance for the stock removal performance of the diamond cutting disc and the impression of the cut during use. Generally, we differentiate between three cutting edge types:

Short cutting times

Diamond cutting disc with turbo cutting edge

Maximum performance through segment height up to 17.0 mm

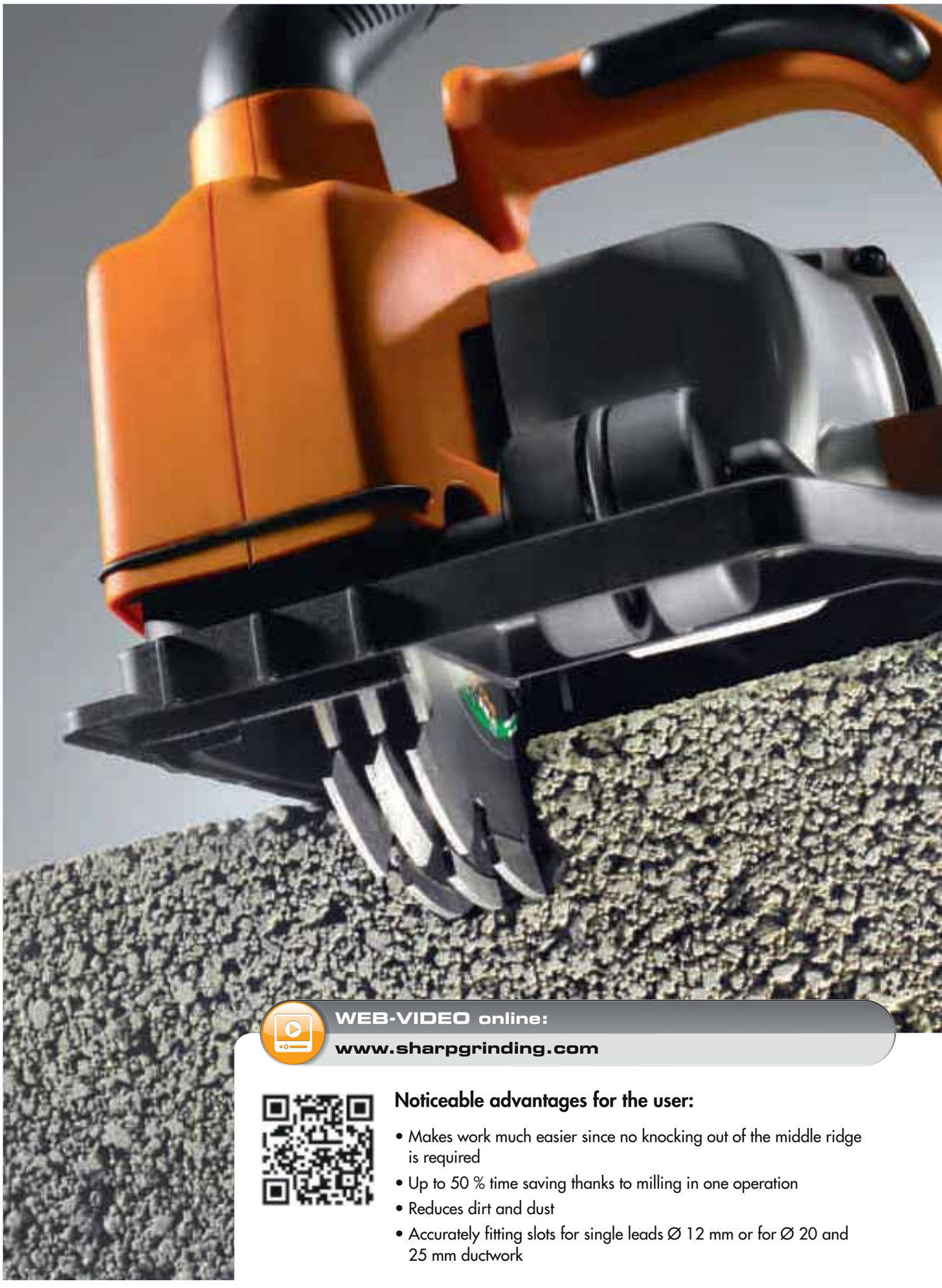
Diamond cutting disc with segmented cutting edge



Clean cutting edges

Diamond cutting disc with closed cutting edge

Easy milling in one operation



WEB-VIDEO online:
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 Ø 12 mm or for Ø 20 and 25 mm ductwork

BRAINTOOLS® **ALL IN ONE**

mm: 7,0

BRAINTOOLS®

Lifetime
Cutting ability

LD402/LD403 ALL IN ONE

≤ 150 mm | 80 m/s

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.

EISEN 2012 INNOVATION AWARD WINNER

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

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

18 mm 28.5 mm

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

You can find our recommendation for suitable wall chasing machines at **www.sharpgrinding.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

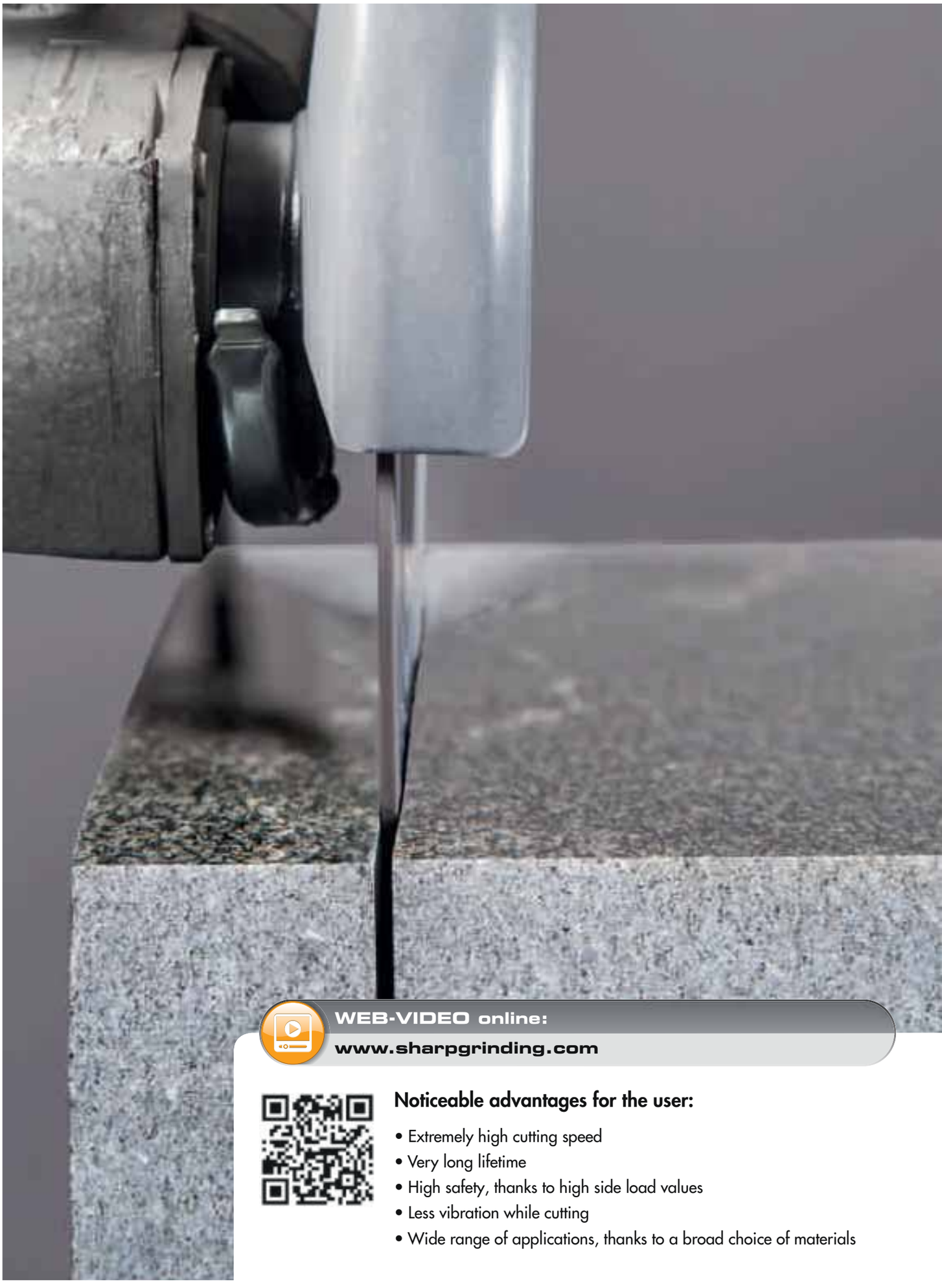
Fast assembly through firmly joined disc system.
Double-system for 20 mm slot width.
Triple-system for 30 mm slot width.

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

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

BRAINTOOLS®

LD410
SPEED

≤ 230 mm 80 m/s ≥ 300 mm 100 m/s

Lifetime
Cutting ability

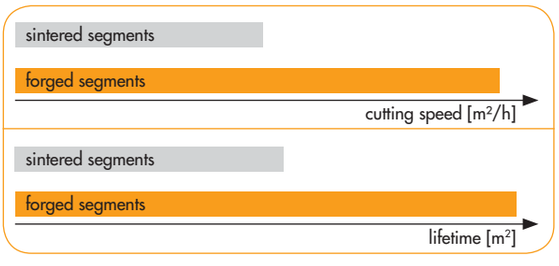
The LD410 SPEED cuts even the hardest natural stone, such as granite, cleanly and extremely fast. The outstanding cutting ability has been made possible by a new manufacturing process for forged segments with a high-density and pore-free bond. The LD410 SPEED has a very high cutting speed and long lifetime 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.

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

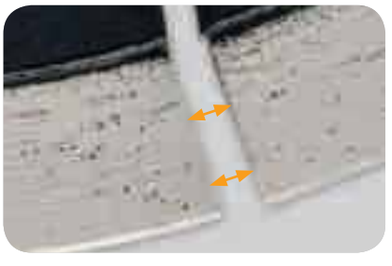
Application examples:
- Road kerb
- Pumice stone
- Structural plaster
- Wall openings
- Cutting of floor slabs
- Window sills
- Stairs

LD410 SPEED

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



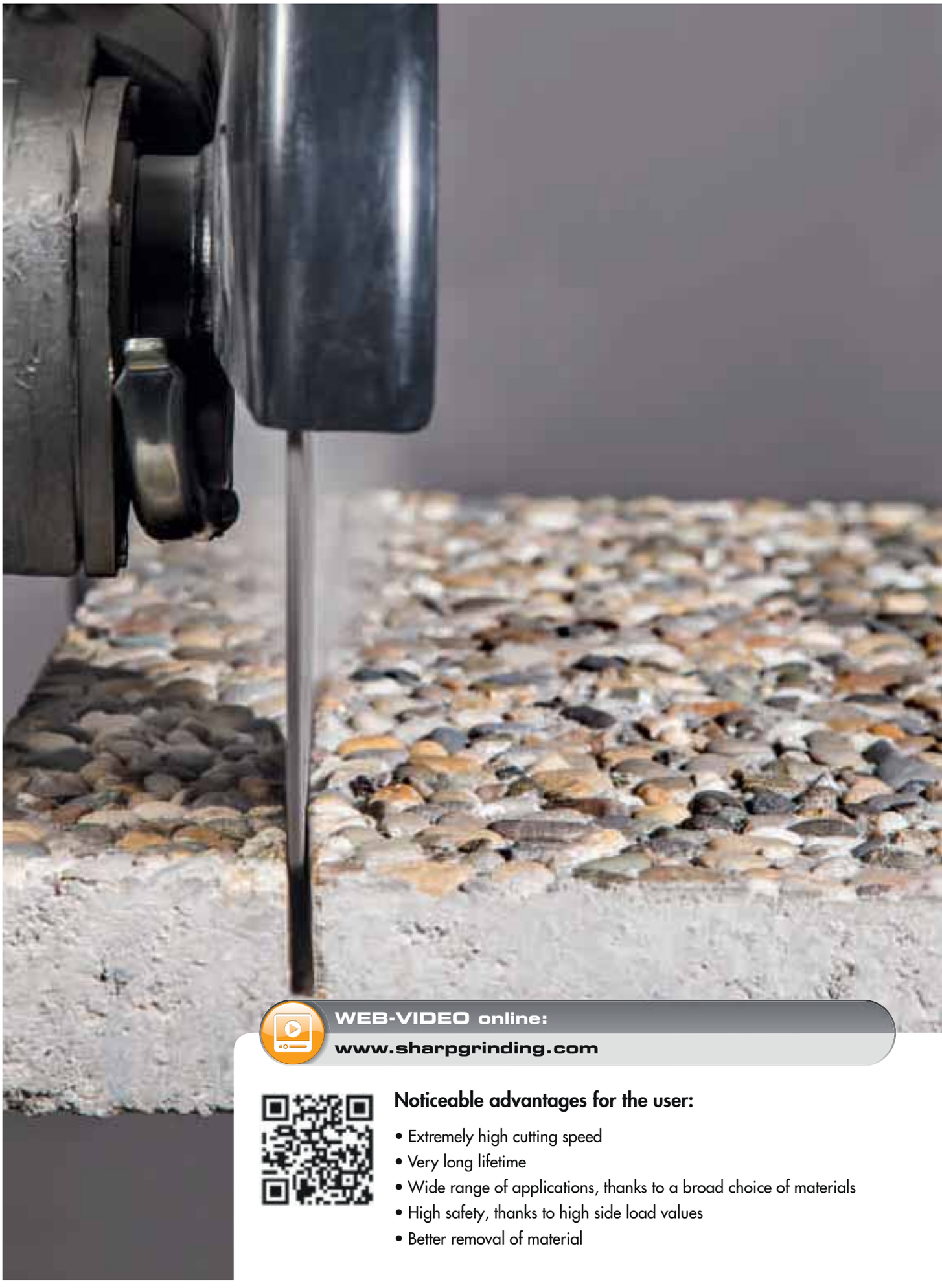
Comparison of cutting speed and lifetime for forged and sintered segments



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

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

≤ 230 mm 80 m/s ≥ 300 mm 100 m/s

BRAINTOOLS®

Lifetime
Cutting ability

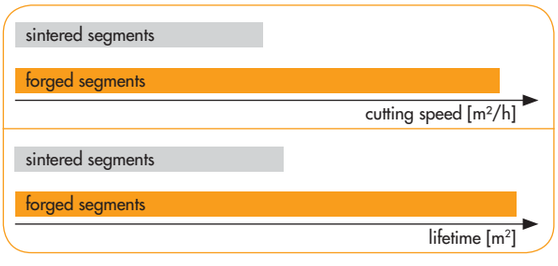
The forged diamond segments of the LD200 SPEED allow higher performances at a high cutting speed and long lifetime compared to conventionally sintered segments. Under high pressure, forging produces high-density and pore-free segments. The LD200 SPEED combines outstanding cutting ability with a long 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.

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

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

Material examples	Quality	BRAINTOOLS®	TOPLINE ●●●	PROLINE ●●○	ALPHALINE ●○○
Granite / Hard natural stone	very hard	LD410 SPEED	LD100 MATRIX	LD40	LD50
Reinforced concrete			LD4		
Washed-out concrete	soft	LD200 SPEED			
Concrete			LD2		
Building materials / Bricks / Fireclay					
Abrasive materials / (Lime) sand stones / Asphalt / Floor pavement	abrasive				

suitable
particularly suitable

mm: 10,0–12,0 — LD100 MATRIX

≤ 230 mm (80 m/s) ≥ 300 mm (100 m/s)

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

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 [1)]	1	303376
350 x 12.0 x 3.2 x 25.40 [1)]	1	303377

[1)] Reducing bushes - 20.00 and 22.23 mm - are included

Systematic arrangement for consistent high performance

mm: 12,0 — LD4

≤ 230 mm (80 m/s) ≥ 300 mm (100 m/s)

TOPLINE ●●●

●●●●○ Lifetime
●●●●○ Cutting ability

LD4

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 [1)]	1	303428
350 x 12.0 x 2.8 x 20.00	1	303166
350 x 12.0 x 2.8 x 25.40 [1)]	1	303429

[1)] 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

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 [1)]	1	303437
350 x 10.0 x 2.8 x 20.00	1	302514
350 x 10.0 x 2.8 x 25.40 [1)]	1	303438

[1)] Reducing bushes - 20.00 and 22.23 mm - are included

mm: 7,0

LD50

ALPHALINE ●○○

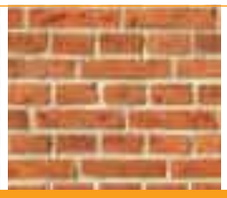
●●○○○○ Lifetime
●●○○○○ Cutting ability

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 [1)]	1	303446
350 x 7.0 x 2.8 x 25.40 [1)]	1	303447

[1)] Reducing bushes - 20.00 and 22.23 mm - are included

Diamond cutting disc / ALLCUT
Application matrix



Material examples		BRAINTOOLS	TOPLINE ●●●	PROLINE ●●○	ALPHALINE ●○○
		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

≤ 230 mm 80 m/s ≥ 300 mm 100 m/s

TOPLINE ●●●

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

DG210 ALLCUT

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 [1]	1	303366
350 x 3.0 x 3.1 x 25.40 [1]	1	303368
400 x 3.0 x 3.3 x 25.40 [1]	1	303369
500 x 3.0 x 3.9 x 25.40 [1]	1	303370
600 x 3.0 x 4.1 x 25.40 [1]	1	303371

[1] Reducing bushes - 20.00 and 22.23 mm - are included

Diamond cutting dics / asphalt
Application matrix

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

● particularly suitable

mm: 10,0-13,0

LD70

TOPLINE ●●●

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

High safety through oblique protective segments

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 [1]	1	303512
350 x 13.0 x 3.0 x 20.00	1	393474
350 x 13.0 x 3.0 x 25.40 [1]	1	303489
400 x 13.0 x 3.2 x 20.00	1	303742
400 x 13.0 x 3.2 x 25.40 [1]	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

[1] Reducing bush 20.00 mm is included

mm: 10,0

LD60

PROLINE ●●○

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

High safety through oblique protective segments

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 [1]	1	303494
350 x 10.0 x 3.2 x 20.00	1	303747
350 x 10.0 x 3.2 x 25.40 [1]	1	303496
400 x 10.0 x 3.5 x 20.00	1	303748
400 x 10.0 x 3.5 x 25.40 [1]	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

[1] Reducing bush 20.00 mm is included

Diamond cutting dics / natural and artificial stone
Application matrix

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

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

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

≤ 230 mm 80 m/s ≥ 300 mm 100 m/s

TOPLINE ●●●

●●●●○ Lifetime
●●●●○ Cutting ability

LD8

230 x 13.0 x 2.6 x 22.23	1	303749
300 x 13.0 x 2.8 x 30.00 [1)]	1	303750
350 x 13.0 x 3.0 x 30.00 [1)]	1	303751
400 x 13.0 x 3.0 x 30.00 [1)]	1	303752

[1)] 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

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 dics / tiles, ceramic
Application matrix

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

● particularly suitable

mm: 7,5 — DG10

≤ 230 mm (80 m/s) ≥ 300 mm (100 m/s)

TOPLINE ●●●

●●●●○ Lifetime
●●●●● Cutting ability

DG10

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

mm: 5,0 — LD1

(80 m/s)

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 1)		1	303101
125 x 5.0 x 1.2 x 22.23 1)		1	303102
180 x 5.0 x 1.4 x 22.23 2)		1	303103
230 x 5.0 x 1.4 x 22.23 2)		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
- Steel
- Non-ferrous metals
- Stone
- Cast-iron

Dimensions
in mm and inches

125 x 1,0

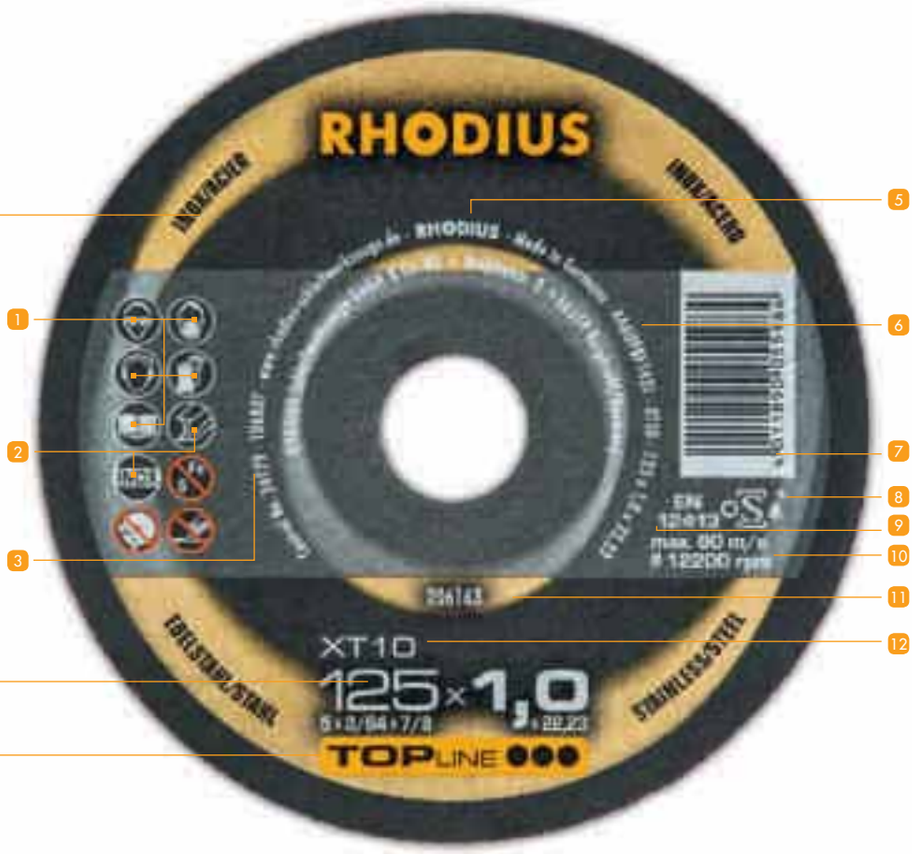
Disc diameter in mm — **Width of disc**

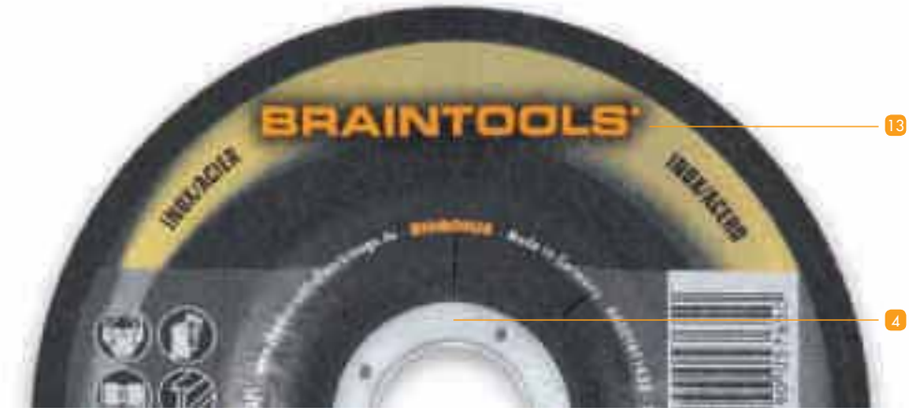
Quality reference
(this code is not found on any BRAINTOOLS product)

TOPLINE ●●●

PROLINE ●●○

ALPHALINE ●○○





General overview

1. Safety pictograms > See overview on fold-out page at end of catalogue
2. Material pictograms > See overview on fold-out page at end of catalogue
3. Traceability code
4. Info ring with expiry date
5. Manufacturer
6. ISO name > p 65
7. Barcode
8. oSa identification > p 10
9. European Standard for Bonded Grinding Tools
10. Maximum permissible working speed > p 27
11. Article Number
12. Product reference
13. Identification BRAINTOOLS > p 13

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

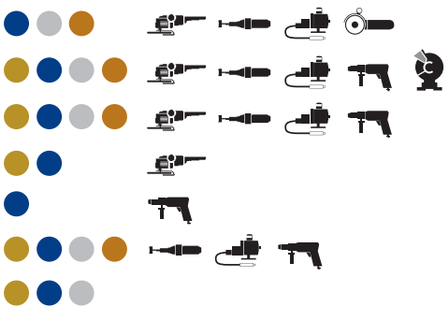
Structure

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
- 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 ≤ 0.1 %
- No freehand grinding
- No face grinding
- Do not use damaged disc

Cleaning



Non-woven cleaning tools ____ 68
Wheel brushes ____ 74
Cup brushes ____ 78
Bevel brushes ____ 82
Flap wheel brushes ____ 84
End brushes ____ 85
Hand scratch brushes ____ 88

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.

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

	U/min		
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^{-1}	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		180 150					
Cup brush, abrasive							adjustable 150					

Working speed for Ø:

- Ø 115 mm (4 ½") 12.500 U/min^{-1}
- Ø 125 mm (5") 11.000 U/min^{-1}
- Ø 150 mm (6") 8.500 U/min^{-1}
- Ø 180 mm (7") 8.500 U/min^{-1}
- Ø 230 mm (9") 6.500 U/min^{-1}

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

115 x 12 x 23 x 22.23	12,500	0.50	1	353004
115 x 12 x 23 x 22.23	12,500	0.35	1	353005
125 x 13 x 28 x 22.23	12,500	0.50	1	353006
115 x 12 x 23 x 22.23	12,500	0.50	10	353080
115 x 12 x 23 x 22.23	12,500	0.35	10	353081
125 x 13 x 28 x 22.23	12,500	0.50	10	353082

mm: 0,20

ERBW

TOPLINE

ERBW

30 x 6 x 6 x 6.0	20,000	0.20	10	353049
40 x 7 x 10 x 6.0	18,000	0.20	10	353051
60 x 12 x 15 x 6.0	15,000	0.20	10	353124
60 x 18 x 15 x 6.0	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.

mm: 0,50

SRBZ

TOPLINE

SRBZ

	V/min			
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

mm: 0,50

SRBZGS

TOPLINE

SRBZGS

	V/min			
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

TOPLINE ●●●

SRBWGS

SRBWGS

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

TOPLINE ●●●

SRBWBM

SRBWBM

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

PROLINE ●●○

SRBWST

SRBWST

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.

fine/coarse
46/60/
80/120

HRB

TOPLINE

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.

mm: 0,35-0,50

STBZ

PROLINE

STBZ

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

mm: 0,50

STBZ S

TOPLINE

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

STBZ S

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

mm: 0,30

STBW

PROLINE

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

TOPLINE

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

TOPLINE

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.

fine/coarse
46/60/
80/120

HTB

TOPLINE

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

100 x 13 x 22 x M14 x 2.0	12,500	0.50	1	353023
115 x 15 x 20 x M14 x 2.0	12,500	0.50	1	353024
100 x 13 x 22 x M14 x 2.0	12,500	0.50	10	353092
115 x 15 x 20 x M14 x 2.0	12,500	0.50	8	353093

mm: 0,30

EKBW

TOPLINE

EKBW

100 x 20 x 20 x M14 x 2.0	12,500	0.30	1	353026
100 x 20 x 20 x M14 x 2.0	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

TOPLINE

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

EPBZ

TOPLINE

The brush expands when the machine is running

EPBZ

20 x 29 x 6.0	22,000	0.26	12	353053

mm: 0,30

EPBW

TOPLINE

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

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.

fine/ coarse

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

PROLINE ●●○

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

TOPLINE ●●●

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.

mm: 0,30

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

mm: 0,30

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 discs ____ 98
Grinding cups / cup wheels, resin-bonded ____ 106
Diamond cup wheels ____ 108
Core drill ____ 110

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.

Explanation of symbols

● = particularly suitable
◐ = suitable
○ = limited suitability

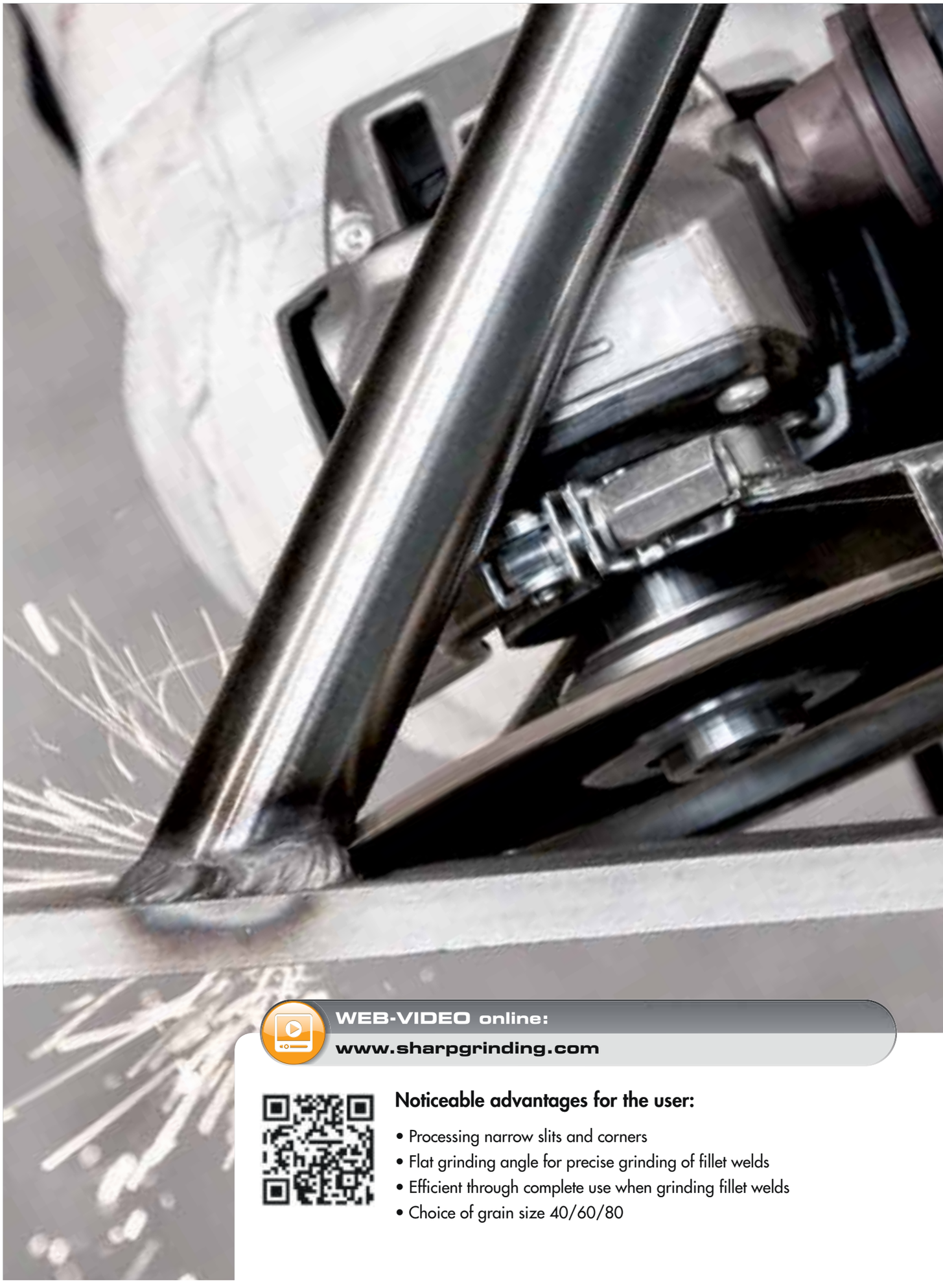
Stainless Steel
Steel
Non-ferrous metals
Stone
Cast-iron

				Grinding discs										Cup wheels	
			Reference	FS1 FUSION	RS48	RS38	RS28	RS67	RS2	RS22	KSM	RS24	RS66	NK	SIC
			Page	99	101	101	101	102	102	103	103	104	105	106	107
			Quality reference	BRAINTOOLS®	TOP LINE ●●●	PRO LINE ●●○	ALPHA LINE ●○○	TOP LINE ●●●	PRO LINE ●●○	PRO LINE ●●○	ALPHA LINE ●○○	TOP LINE ●●●	TOP LINE ●●●	PRO LINE ●●○	PRO LINE ●●○
Material		Application	Machine performance see p 26	Hardness / Lifetime ○○○ ●●● ●●●●●											
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

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

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

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

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

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

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

80 m/s

TOPLINE ●●●

●●●○○○ Lifetime
●●●●●● Stock removal
●●●○○○ Hardness

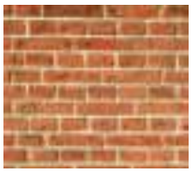
RS24 A24N-BF28

	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



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

80 m/s

TOPLINE

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

50 m/s

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

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

16/24/ 36/60

NK

PROLINE ●●○

●●●●○○ Lifetime
●●●○○○ Stock removal
●●●●○○ Hardness

NK

			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

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

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

Material examples		BRAINTOOLS®	TOPLINE ●●●	PROLINE ●●○	ALPHALINE ●○○
		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

mm: 5,0

DS10

50 m/s

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

mm: 5,0

DS40

50 m/s

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

mm: 5,0

DS41

50 m/s

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

Material examples		BRAINTOOLS®	TOPLINE ●●●	PROLINE ●●○	ALPHALINE ●○○
		Quality			
Concrete / Dense limestone	hard			CD10	
Masonry	soft			CD20	

● particularly suitable

not suitable for percussion drills

mm: 10,0

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

mm: 10,0

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

PROLINE ●●○

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
- Steel
- Non-ferrous metals
- Stone
- Cast-iron

Dimensions
in mm and inches

125 x 7,0

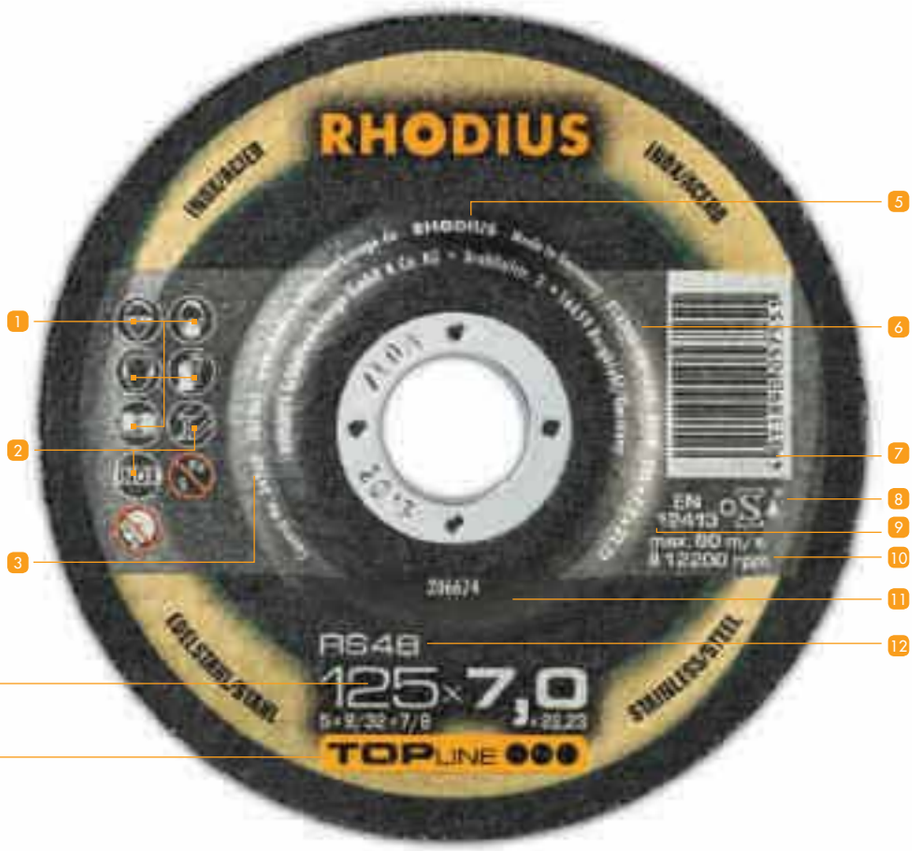
Disc diameter in mm — **Width of disc**

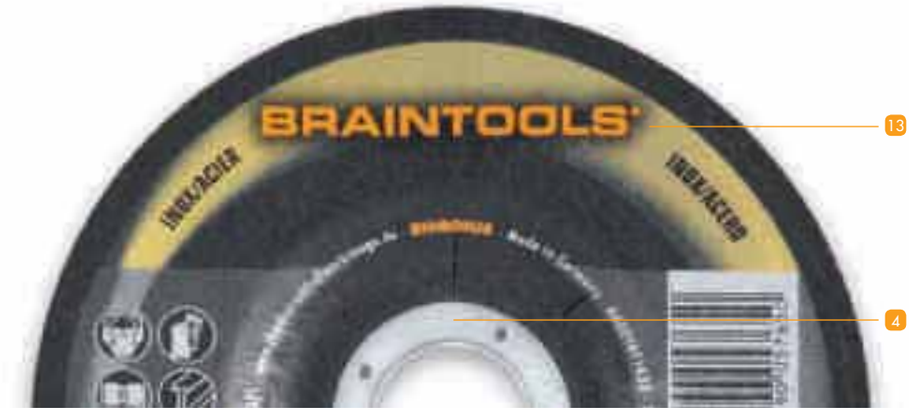
Quality reference
(this code is not found on any BRAINTOOLS product)

TOPLINE ●●●

PROLINE ●●○

ALPHALINE ●○○



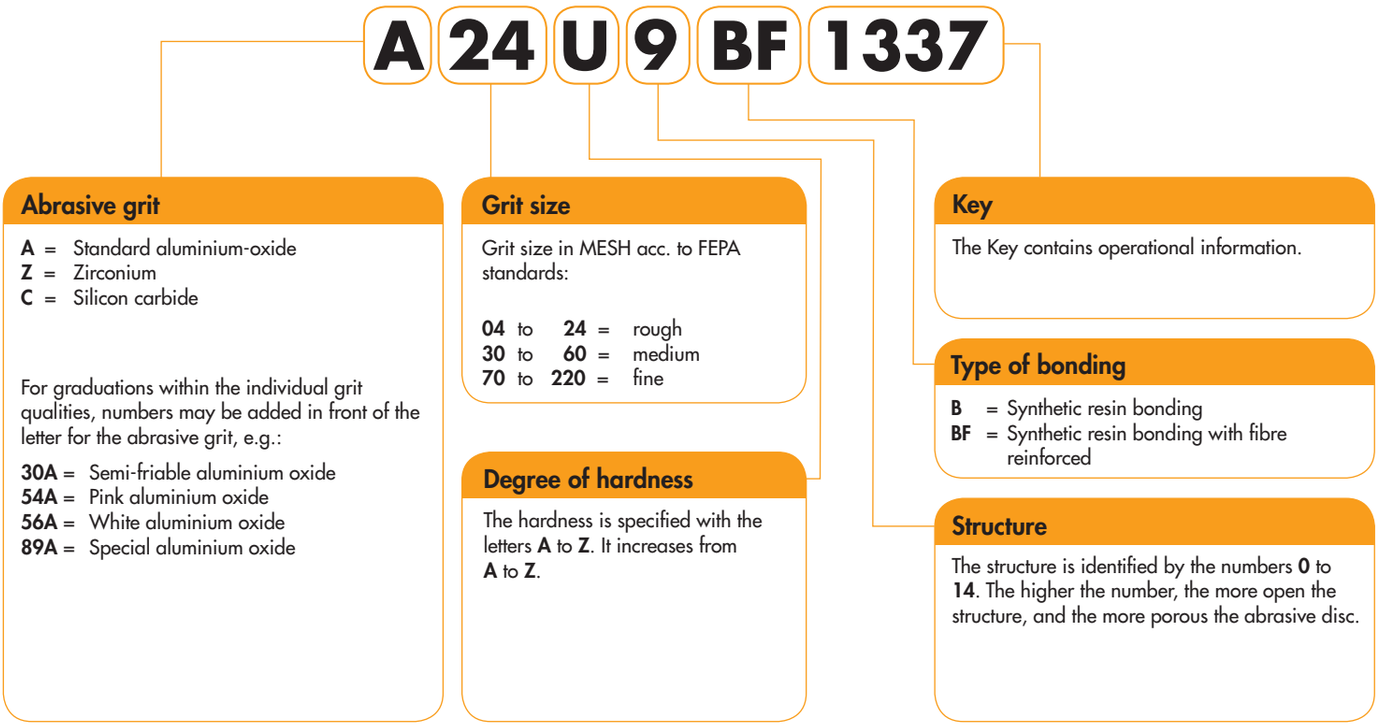


General overview

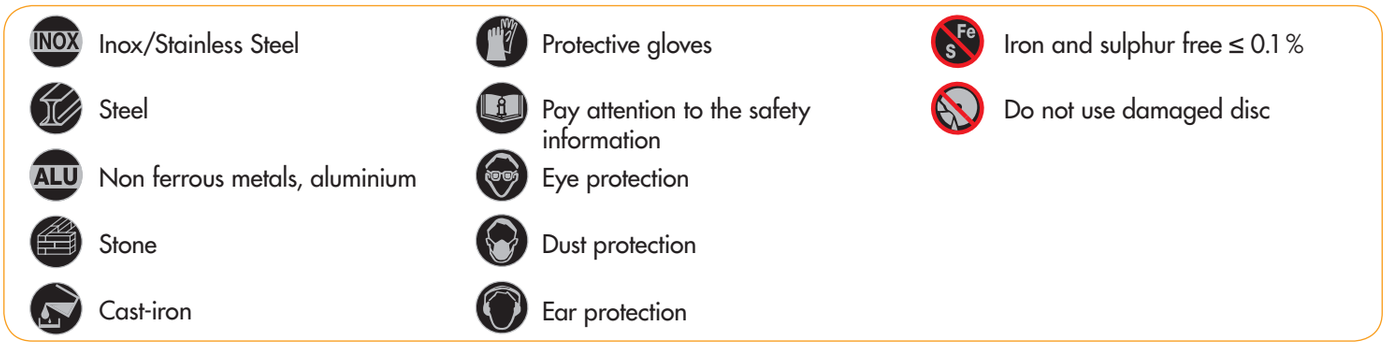
1. Safety pictograms > See overview on fold-out page at end of catalogue
2. Material pictograms > See overview on fold-out page at end of catalogue
3. Traceability code
4. Info ring with expiry date
5. Manufacturer
6. ISO name > p 113
7. Barcode
8. oSa identification > p 10
9. European Standard for Bonded Grinding Tools
10. Maximal permissible working speed > p 100
11. Article Number
12. Product reference
13. Identification BRAINTOOLS > p 13

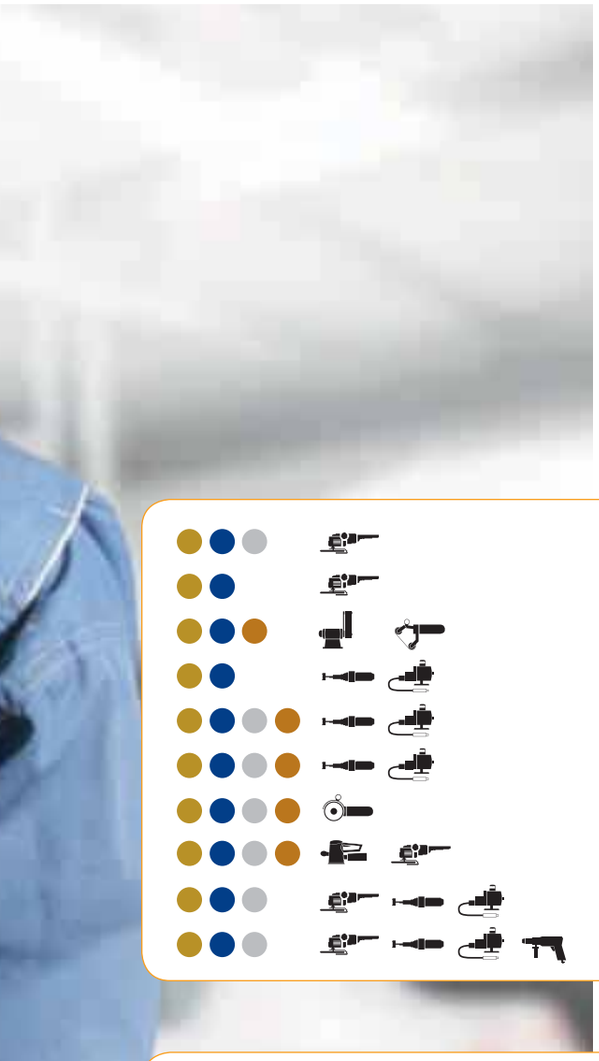
Designation of abrasive discs

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





Flap discs ____ 120
Fibre discs ____ 130
Abrasive belts ____ 134
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Fine Grinding / Finishing

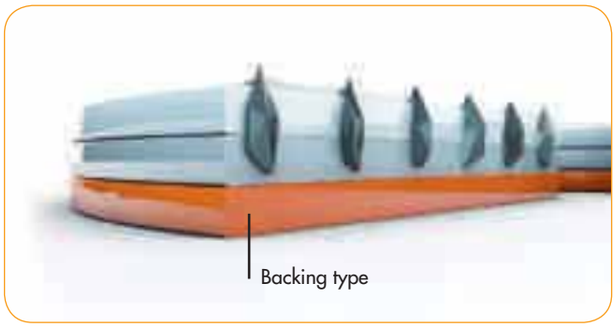
Coated abrasives

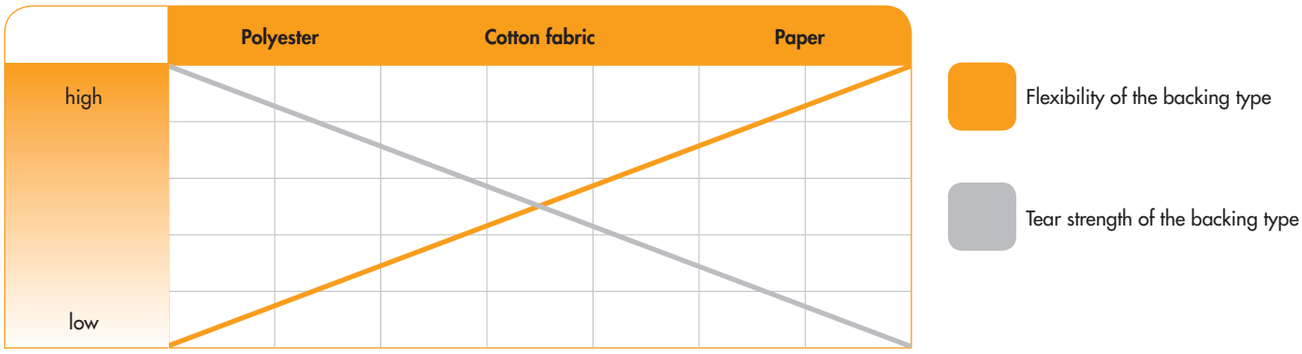
Performance factors for perfect results

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

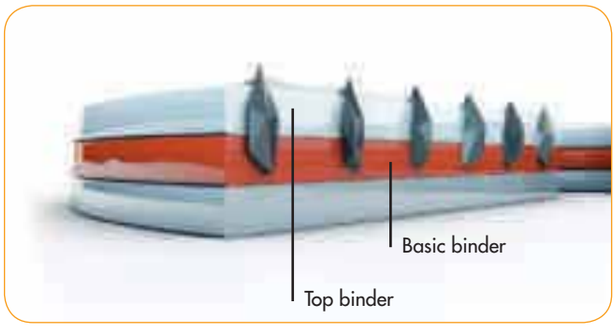
You have to choose a flexible or sturdy base depending on how the abrasive is to be used. Paper and cotton fabric are used as flexible carrier materials for manual grinding. Polyester and vulcanised fibre or a combination of fabric and polyester, serve as a sturdy and tear-proof base for heavy-duty applications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

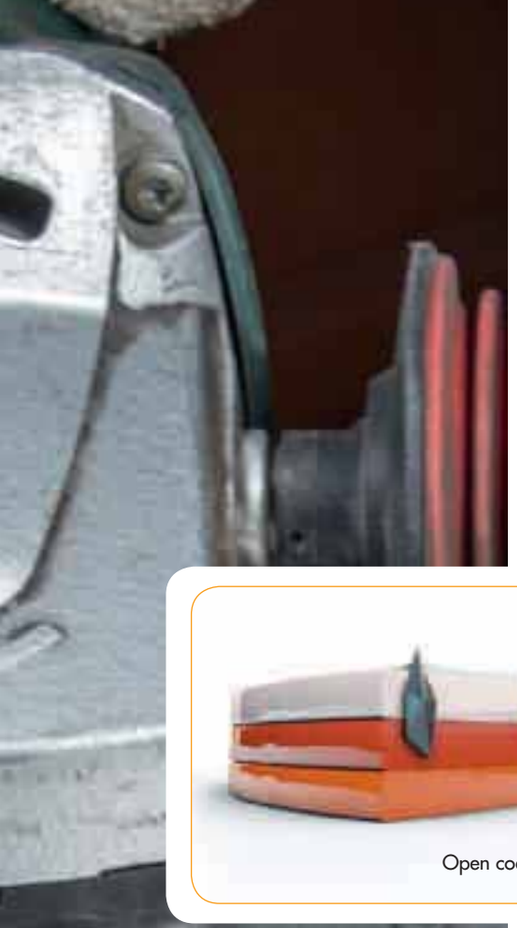




The bond determines the result

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
Shape	Cubic, angular	Conical, sharp-edged	Sharp-edged
Hardness (Mohs)	9.0	9.6	6.5 – 7.5 (very tough)
Application	• Leather • Wood • Filler • Stainless steel • Aluminium • Steel	• Chip board • Varnishes • Stone • Plastic • Glass	• Stainless steel • Steel • Aluminium
Grit			

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).

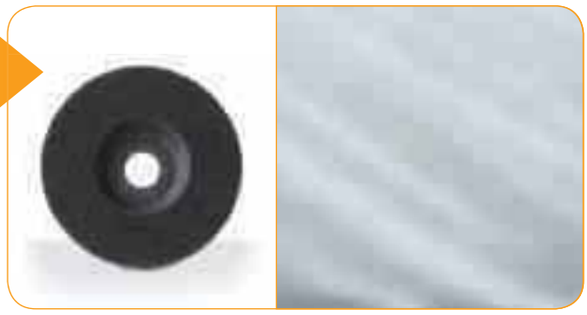
Perfect results in three steps

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.

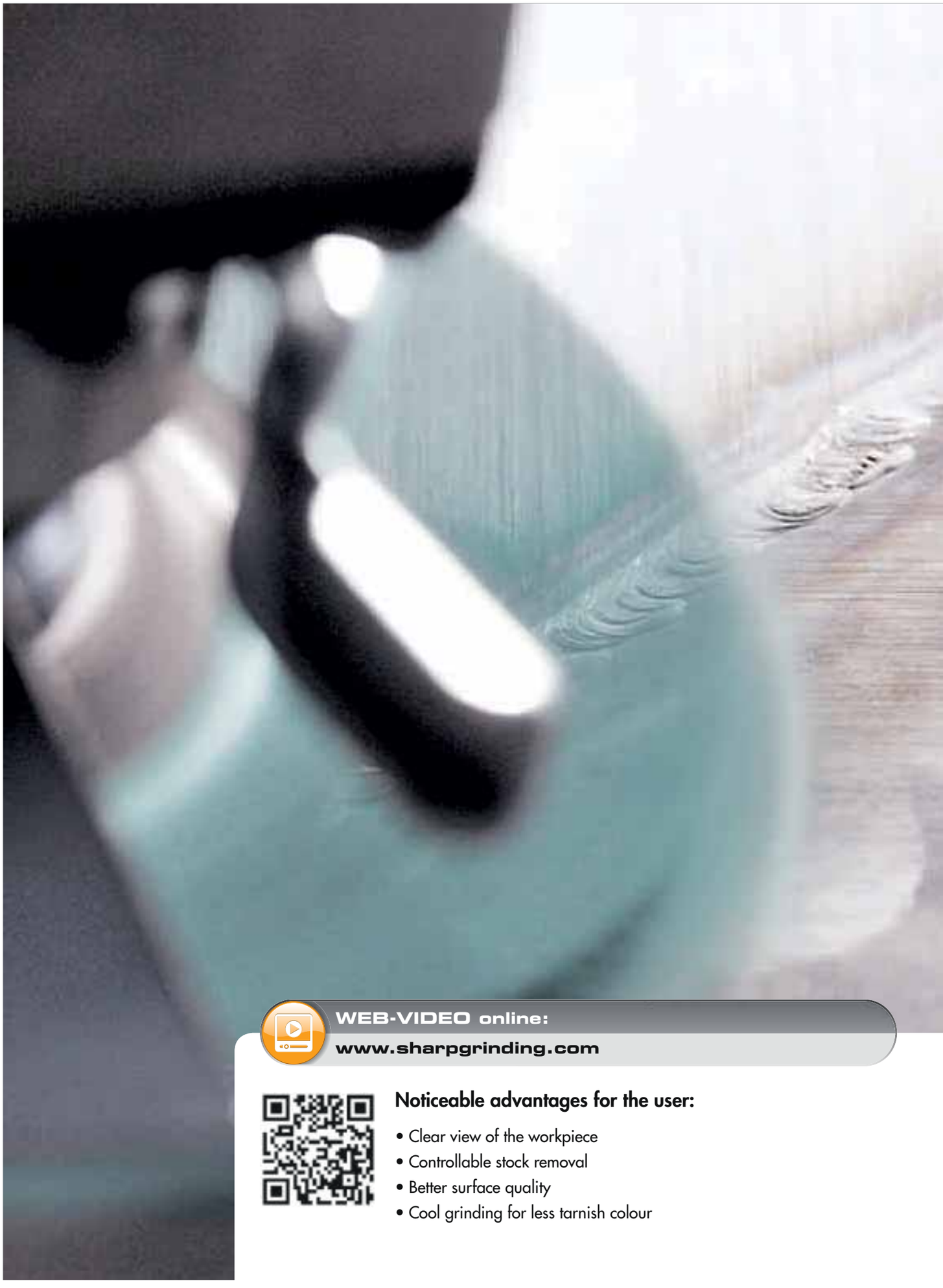
Note:

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

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

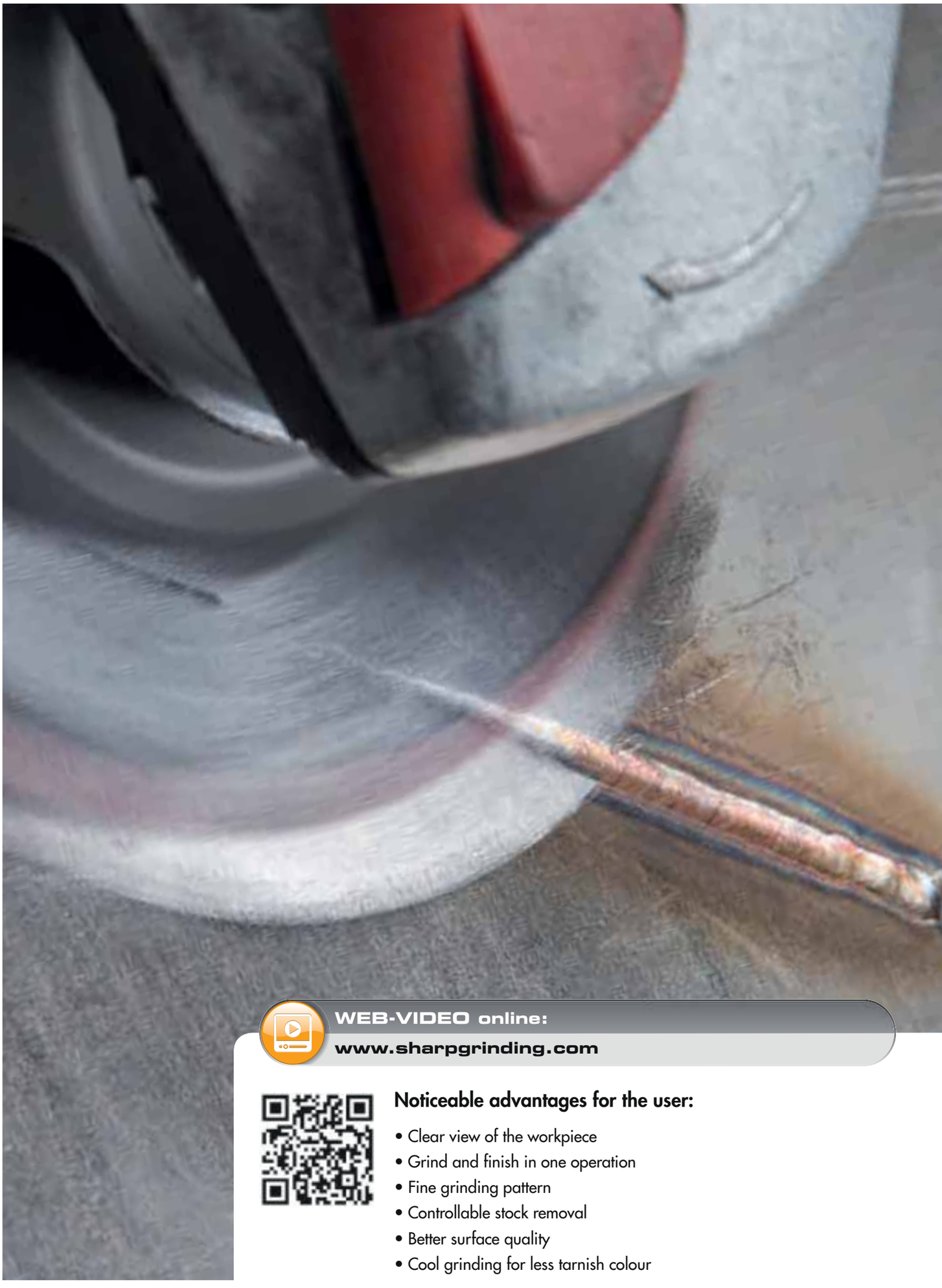
115 x 22.23	40	10	207083
115 x 22.23	60	10	207084
115 x 22.23	80	10	207085
125 x 22.23	40	10	207077
125 x 22.23	60	10	207078
125 x 22.23	80	10	207079

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

... better surface quality

... and controlled material removal.

Optical check for a fast finish



WEB-VIDEO online:
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.

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

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

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

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

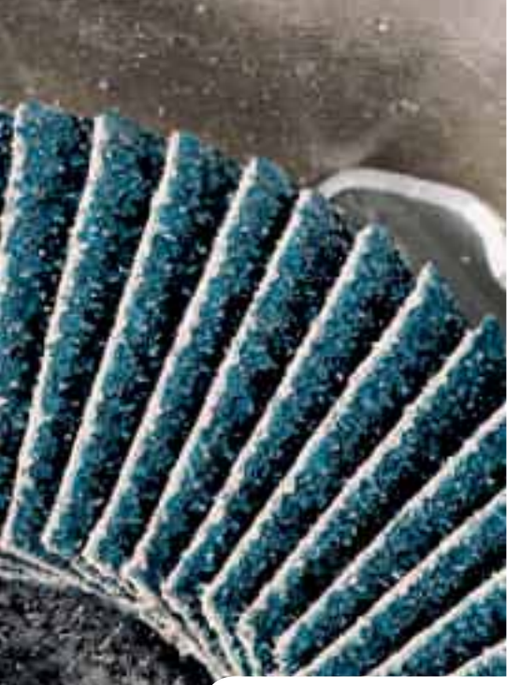
TOPLINE

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, tinder areas and titanium. They provide a high stability when treating edges.

JUMBO SPEED

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

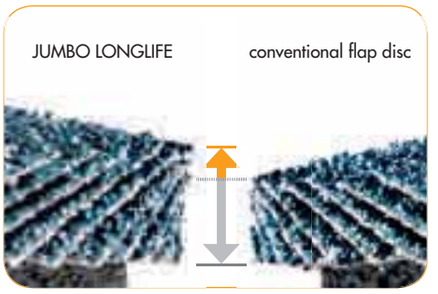
Some of the river cruise ships of Neptun's shipyards in Rostock are more than 130 m long. This means that there is a lot to cut and grind while building the ship's rump. The flaps on the **JUMBO LONGLIFE** and **JUMBO SPEED** are also very long. Their long flaps increase the efficiency in professional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

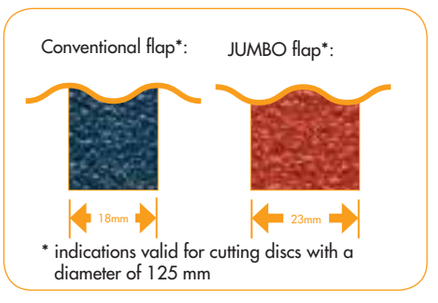
Copyright: Neptun shipyard

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.



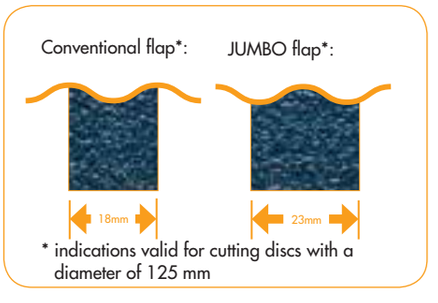


* indications valid for cutting discs with a diameter of 125 mm

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.



* 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

40/60/80/120 LSA F1

80 m/s

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

40/60/80/120 LSA P1

80 m/s

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

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.

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

80 m/s

TOPLINE

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

Ceramic grains are especially advantageous when treating hardened and tempered steel, tinder 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

KFZ

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

16/24/36/
40/50/60/
80/100/120

KFS

80 m/s

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
100 x 560	AEG	HBS 100; HBSE 100; BBS 1100; BBSE 1100
	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.

40 – 120 ESB ZL

TOPLINE

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

ESB ZL

10 x 330	40	20	304109
10 x 330	60	20	304110
10 x 330	80	20	304111
10 x 330	120	20	305582

13 x 457	40	20	304113
13 x 457	60	20	304114
13 x 457	80	20	305583
13 x 457	120	20	304116

6 x 520	40	20	305546
6 x 520	60	20	305547
6 x 520	80	20	305548
6 x 520	120	20	305549

12 x 520	40	20	305550
12 x 520	60	20	305551
12 x 520	80	20	305552
12 x 520	120	20	305553

20 x 520	40	20	305584
20 x 520	60	20	304118
20 x 520	80	20	304119
20 x 520	120	20	305585

9 x 533	40	20	305558
9 x 533	60	20	305559
9 x 533	80	20	305560
9 x 533	120	20	305561

13 x 533	40	20	305562
13 x 533	60	20	305563
13 x 533	80	20	305564
13 x 533	120	20	305565

30 x 533	40	20	305566
30 x 533	60	20	305567
30 x 533	80	20	305568
30 x 533	120	20	305569

6 x 610	40	20	305570
6 x 610	60	20	305571
6 x 610	80	20	305572
6 x 610	120	20	305573

13 x 610	40	20	305574
13 x 610	60	20	305575
13 x 610	80	20	305576
13 x 610	120	20	305577

40 x 760	40	20	305578
40 x 760	60	20	305579
40 x 760	80	20	305580
40 x 760	120	20	305581

40-120

ESB ZX

TOPLINE ●●●

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

ESB ZX

75 x 2000	40	10	303692
75 x 2000	60	10	303693
75 x 2000	80	10	303694
75 x 2000	120	10	303695

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

100 x 2000	40	10	305591
100 x 2000	60	10	305592
100 x 2000	80	10	305593
100 x 2000	120	10	305594

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

40-150

ESB KK

PROLINE ●●○

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

ESB KK

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

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 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

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

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

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

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

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

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

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.

50/80

ESH

TOPLINE

Type of abrasive used: Zirconium

ESH

10 x 10	38,000	50	100	305209
10 x 10	38,000	80	100	305210
13 x 25	30,000	50	100	305214
13 x 25	30,000	80	100	305215
15 x 30	26,000	50	100	305219
15 x 30	26,000	80	100	305220
22 x 20	17,000	50	100	305224
22 x 20	17,000	80	100	305225
25 x 25	15,000	50	100	305229
25 x 25	15,000	80	100	305230
30 x 30	13,000	50	100	305234
30 x 30	13,000	80	100	305235

38 x 25	10,000	50	100	305439
38 x 25	10,000	80	100	305440
45 x 30	8,500	50	100	305480
45 x 30	8,500	80	100	305481
51 x 25	7,500	50	100	305444
51 x 25	7,500	80	100	305445
60 x 30	6,500	50	50	305449
60 x 30	6,500	80	50	305450
75 x 30	5,000	50	50	305454
75 x 30	5,000	80	50	305455
100 x 40	4,000	50	25	305459
100 x 40	4,000	80	25	305460

SSH

PROLINE ●●○

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
13 x 25	30,000	50	100	305211
13 x 25	30,000	80	100	305212
13 x 25	30,000	150	100	305213
15 x 30	26,000	50	100	305216
15 x 30	26,000	80	100	305217
15 x 30	26,000	150	100	305218
22 x 20	17,000	50	100	305221
22 x 20	17,000	80	100	305222
22 x 20	17,000	150	100	305223
25 x 25	15,000	50	100	305226
25 x 25	15,000	80	100	305227
25 x 25	15,000	150	100	305228
30 x 30	13,000	50	100	305231
30 x 30	13,000	80	100	305232
30 x 30	13,000	150	100	305233
38 x 25	10,000	50	100	305236
38 x 25	10,000	80	100	305237
38 x 25	10,000	150	100	305238
45 x 30	8,500	50	100	305477
45 x 30	8,500	80	100	305478
45 x 30	8,500	150	100	305479
51 x 25	7,500	50	100	305441
51 x 25	7,500	80	100	305442
51 x 25	7,500	150	100	305443
60 x 30	6,500	50	50	305446
60 x 30	6,500	80	50	305447
60 x 30	6,500	150	50	305448
75 x 30	5,000	50	50	305451
75 x 30	5,000	80	50	305452
75 x 30	5,000	150	50	305453
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

PROLINE ●●○

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.

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

D51	23,000	extra coarse	10	305403
D76	18,000	extra coarse	10	305404

KFZ QUICK

36 – 120

TOPLINE ●●●

Backing type: Y cloth
Type of abrasive used: Zirconium

KFZ QUICK

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

PROLINE

VLS QUICK

Non-woven abrasive

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

VLS QUICK

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

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

TOPLINE

VKS QUICK

Unitized disc

VKS QUICK

D51	22,100	3sf	10	305287
D51	22,100	6am	10	305288
D76	15,100	3sf	10	305289
D76	15,100	6am	10	305290

PROLINE

RH QUICK

Backing pad for discs with quick-action chuck system

RH QUICK

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.

40-320 SLR

PROLINE

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

80-150 FS MINI

TOPLINE

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

TOPLINE

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

FSB

TOPLINE ●●●

Type of abrasive used: Aluminium oxide

FSB

	V/min			
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.

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

coarse – very fine

TOPLINE

VSK

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

coarse – very fine

TOPLINE

VS

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

PROLINE ●●○

Non-woven cleaning tools

SVSW

100 x 100 x 19	5,000	1	305409

LW

40-320

TOPLINE ●●●

Type of abrasive used: Aluminium oxide

LW

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

BW

60-120

TOPLINE ●●●

Type of abrasive used: Aluminium oxide

BW

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

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

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

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

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.

40-600

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

40-240

KERR

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

40-320

KFPR

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

60-180

SLPR

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.

60 – 400

KKBR

PROLINE ●●○

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

60 – 1200

WSP

PROLINE ●●○

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

40 – 400

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

60 – 180

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

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

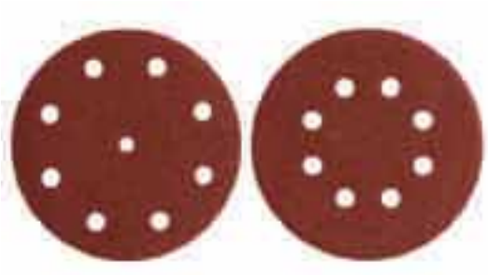
Self-adhesive grinding discs of cloth and nylon with a Velcro backing. Velcro discs are available with and without dust holes for the most common types of tool.

40-240

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

40 – 120

KERR VELCRO

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

coarse – very fine

VLS VELCRO

PROLINE

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

VLS VELCRO

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

RH VELCRO

80 m/s

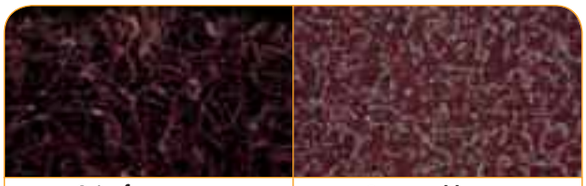
PROLINE

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

PROLINE ●●○

VLSR

VLSR

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

PROLINE ●●○

VLS PAD

VLS PAD

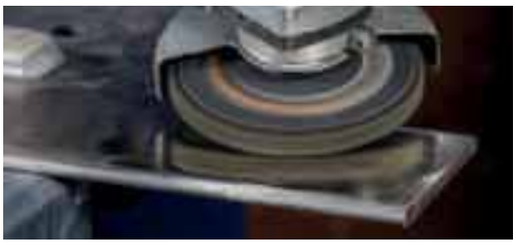
152 x 229	medium	10	305366
152 x 229	fine	10	305367
152 x 229	very fine	10	305368
152 x 229	ultra fine	10	305369

Unitized discs

Degree of hardness: 3 /4 (medium)	Degree of hardness: 6 / 7 (hard)
Fields of application	**Fields of application**
• Creation of decorative surfaces • Surface-levelling • Preparation for polishing or coating • Removal of surface defects	• Burr removing & rounding • Cleaning of metal contacts • Removing adhesives and resins

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.

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

coarse – very fine

VKSG WS

TOPLINE

VKSG WS

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

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

medium – very fine

VKS GS

TOPLINE

VKS GS

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	H40	hard, prepolishing
D5	5 mm		

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.

D5 / H25 – H40

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

D2 – D5 / H25 – H40

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

	U/min			
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.

SAT coarse
Aluminium oxide, coarse

SAT medium
Aluminium oxide, medium

SAT fine
Silicon carbide, fine

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:

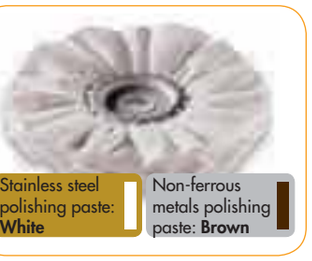
- High-quality randomly oriented fibre
- No interfering seams
- Low temperature development
- Homogeneous wear
- 30 % less paste consumption compared to conventional cloth rings

Material:

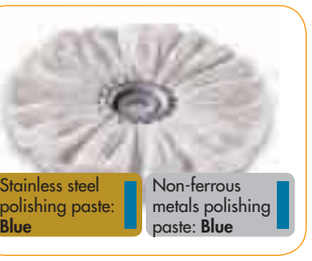
- Rust and acid-proofed steels
- Steel
- Non-ferrous metals
- Varnishes
- Plastics
- Varnished metal sheets

1 **Pre-polishing**
POL "Sisal cloth"
The next step after grinding.
High stock removal

2 **Polishing**
POL "Hard fleece"
Helps to achieve a uniform surface



3 **High-gloss polishing**
POL "Soft fleece"
Short processing time and low pressure to produce high gloss



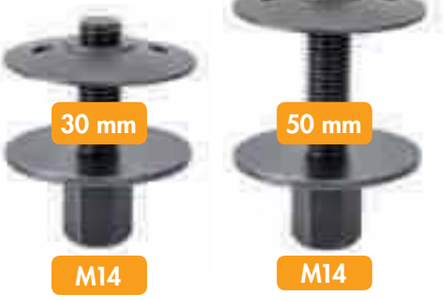
The mandrel

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



Up to 3 / 5 polishing 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

Rhodius 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

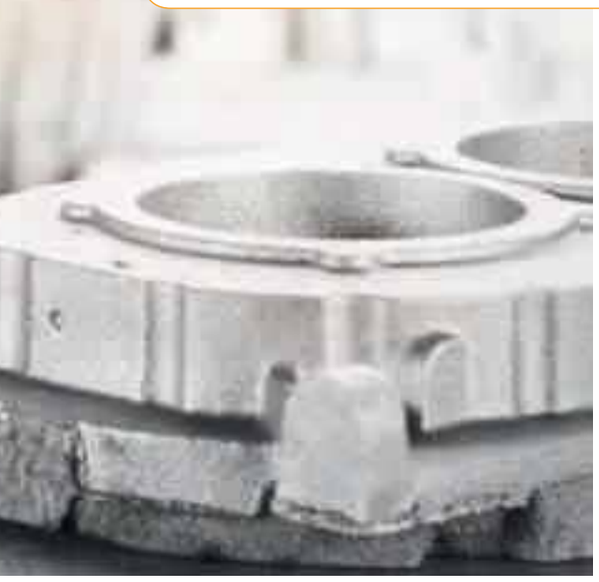
PASTE

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



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

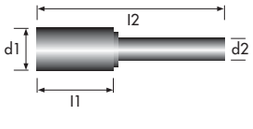
The recommended operating speed

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-1]					
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 x 14.0 x 3.0 x 38.0			



ZYA HF A

TOPLINE

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	Z 3	1	305658
6.3 x 12.7 x 3 x 45	Z6	1	305001
6.3 x 12.7 x 3 x 45	Z 3	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	Z 3	1	305660
8 x 19 x 6 x 64	Z6	1	305004
8 x 19 x 6 x 64	Z 3	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	Z 3	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	Z 3	1	305663
16 x 25 x 6 x 70	Z6	1	305009
16 x 25 x 6 x 70	Z 3	1	305664

ZYAS HF B

TOPLINE

Form B: Cylinder with end cut

HF B

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

9.6 x 19 x 6 x 64	Z ALU	1	305015
9.6 x 19 x 6 x 64	Z 6	1	305016
9.6 x 19 x 6 x 64	Z 3	1	305669
12.7 x 25 x 6 x 70	Z ALU	1	305017
12.7 x 25 x 6 x 70	Z 6	1	305018
12.7 x 25 x 6 x 70	Z 3	1	305670
16 x 25 x 6 x 70	Z 6	1	305019
16 x 25 x 6 x 70	Z 3	1	305671

WRC HF C

TOPLINE

Form C: Ball Nosed Cylinder

HF C

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

9.6 x 19 x 6 x 64	Z ALU	1	305025
9.6 x 19 x 6 x 64	Z 6	1	305026
9.6 x 19 x 6 x 64	Z 3	1	305676
12.7 x 25 x 6 x 70	Z ALU	1	305027
12.7 x 25 x 6 x 70	Z 6	1	305028
12.7 x 25 x 6 x 70	Z 3	1	305677
12.7 x 25 x 8 x 70	Z 6	1	305502
16 x 25 x 6 x 70	Z 6	1	305029
16 x 25 x 6 x 70	Z 3	1	305678

KUD HF D

TOPLINE

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

TRE HF E

TOPLINE

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

RBF HF F

TOPLINE

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

SPG HF G

TOPLINE

Form G: Tree

HF G

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

FLF HF H

TOPLINE

Form H: Flame

HF H

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

KSJ HF J

TOPLINE

Form J: Countersink 60° deg.

HF J

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

TOPLINE

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

TOPLINE

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

TOPLINE

Form M: Cone

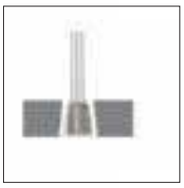
HF M

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

WKN HF N

TOPLINE

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

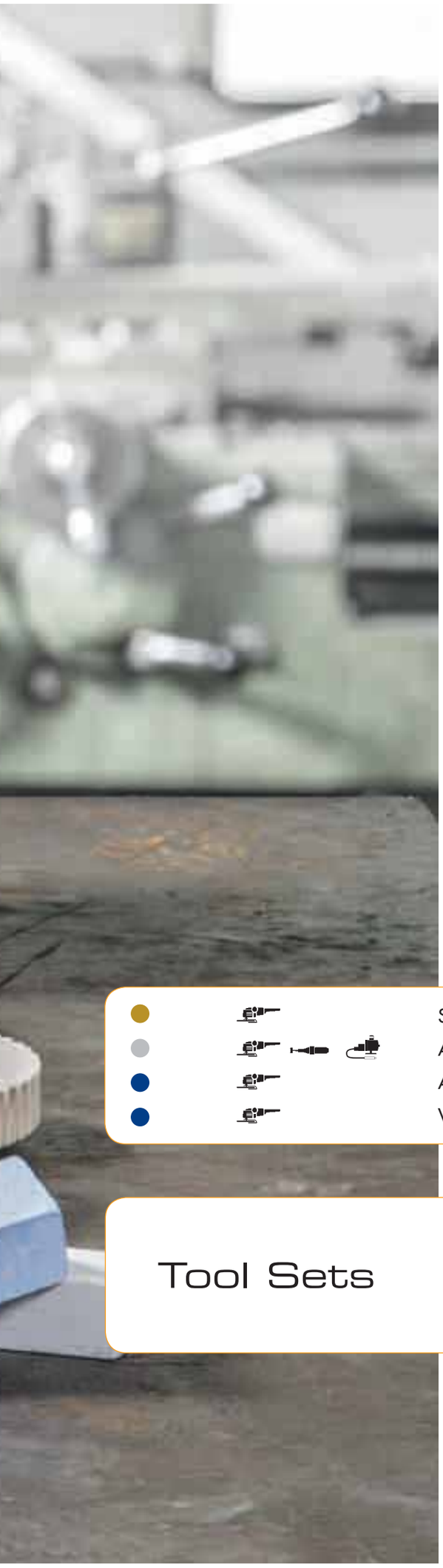
TOPLINE

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
PROFI SET
Edelstahl Polier
KIT PROFESSIONNEL
Polissage d'acier inoxidable
JUEGO DE HERRAMIENTAS PRO
Pulido d'acero inoxidable
RHODIUS
PROFESSIONAL TOOL SET Stainless steel polishing
RHODIUS



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.

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.

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.

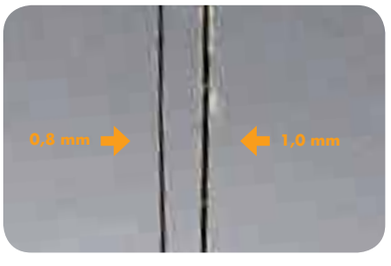
Content:

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.

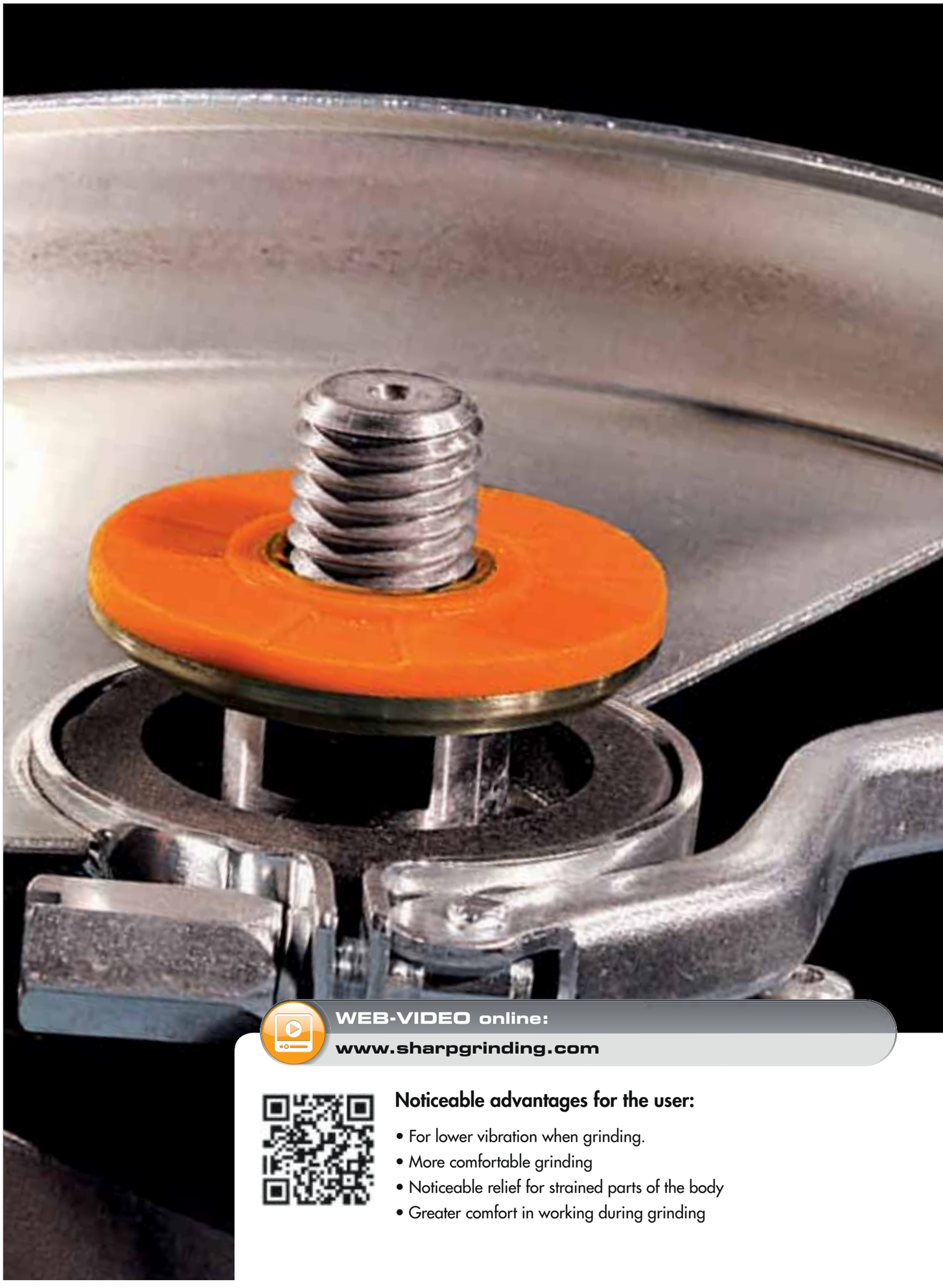
The LSZ F VISION provides with three clever recesses an unobstructed view of the workpiece.

RHODIUS
FFP2

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

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

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

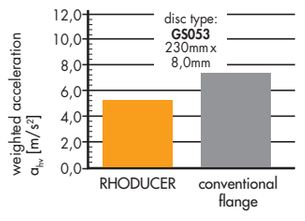
RHODUCER

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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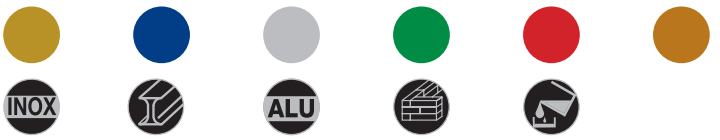
Explanation of symbols

Material symbols and colour codes



Stainless Steel | Steel | Non-ferrous metals | Stone | Cast-iron | Wood

Dimensions and types

Width in mm for cutting and roughing wheels

Granulation of non-woven with abrasive grains

Grain of flap discs / Coated abrasives

Wire width

Form according to norm DIN for tungsten carbide burrs

Segment height for segmented diamond discs

Segment height of diamond discs with a closed cutting edge

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

Safety and application identification

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

Product details

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

Shapes

- Cutting disc flat (shape 41)
- Cutting disc depressed (shape 42)
- Grinding disc (shape 27)
- Grinding disc flat (shape 1)
- Cup wheel (shape11)
- Grinding disc flat
- Grinding disc angled
- Supporting plate
- Diamond cutting disc flat
- Diamond cutting disc depressed
- Diamond cup wheel
- Diamond cutting discs for triple milling unit
- Diamond cutting discs for dual milling unit

Types of wire

- flat wire
- knotted wire
- crimped wire

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