

CUTTING & GRINDING DISCS

RHODIUS®



Josco

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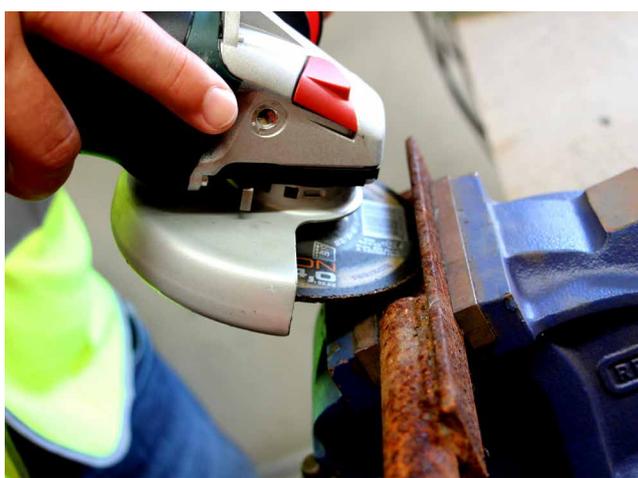
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About Rhodius

History

Founded in 1952 by Manfred Rhodius and headquartered in Burgbrohl – Germany, the family-run business Rhodius Schleifwerkzeuge is today a manufacturer of tools for the machining of metal and stone with an international presence. Rhodius has a wealth of expertise in manufacturing and the distribution of tools for the professional user around the world. Rhodius is an innovative company in the global tool market.



Technical Information

Safe Tools – Quality Made in Germany

Commitment to your safety

If used incorrectly, grinding tools can be a life-threatening hazard. For this reason, European manufacturers, represented by German Abrasives Association (VDS) and the Federation of European Producers of Abrasives (FEPA), have drawn up a set of safety guidelines for you as the user. These help to ensure health and safety and minimise the risk of workplace accidents.

You can download the FEPA safety guidelines free of charge from www.rhodium-abrasives.com

Safety Guaranteed – by oSa Manufacturers

The members of the international Organisation for the Safety of Abrasives (oSa) are leading manufacturers of quality abrasives who subscribe to a common goal, namely that the high safety standards of quality branded tools should be both documented and standardised. As a founding member, Rhodius is actively involved in oSa activities.



What does the oSa mark mean for you?

Tools with the oSa quality mark are manufactured according to the stringent oSa standards, which are valid worldwide. All Rhodius cutting and grinding tools bear the oSa quality mark and therefore meet the highest safety standards.

The Rhodius Promise

As one of the leading manufacturers of grinding tools, Rhodius is fully compliant with all national and international legislation, standards and directives. Our quality management system is certified to EN ISO 9001 and therefore guarantees full compliance with applicable regulations.

Ultimate performance for the toughest of jobs

Superior cutting efficiency and maximum stock removal are the key features of the heavy-duty CERAMICON range. Aiming to exploit the full potential of self-sharpening ceramic grains, we have created a bond that is the perfect match for the properties of the grain. The impressiveness of the results last well beyond the first cut. In metalworking processes featuring high-volume grinding and measurable performance, productivity is boosted by the comprehensive CERAMICON range.

Key Features:

- Improved cutting efficiency
- Shorter working times
- Longer lifetime

Protecting your performance

Resin-bonded abrasive discs age and their performance degrades with time, even if they are not being used. Since moisture accelerates ageing, Rhodius has developed HydroProtect, a formula that slows the ageing process while retaining abrasive disc performance over the long term. This offers key benefits for buying departments and dealer stock-keeping while ensuring long-term high performance for trade professionals.

Key Features:

- Lasts longer in storage
- Longer-lasting performance
- Improved cutting performance

Technical Information

Selecting the perfect cutting disc

For maximum efficiency, choose a cutting disc that matches your machine and application.

XT – Extra-thin cutting discs

With a maximum width of 1.9mm, 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.

FT – Sturdy cutting discs

Sturdy cutting discs consist of a width greater than 1.9mm. Their fabric reinforcement and high stability makes them suitable for tough jobs such as freehand cutting of structural and tool steel. For stationary cutting, use cutting discs with the code 'ST'.

Ideal discs for machine types

Powerful machines range from:						
Machine Type	Disc Diameter	Ø100	Ø115	Ø125	Ø180	Ø230
	Compressed-air	>450 W	>650 W	>850W	>1,600W	>1,900W
	Electrical	>550 W	>1,000W	>1,200W	>2,000W	>2,200W

For low-powered machines

Select a softer disc. The softer bond releases new abrasive grit more easily. They are characterised by their high cutting ability. Weaker machines do not provide enough power for hard discs to release new abrasive grit. If you use a weaker machine with hard discs, 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. These discs provide longer life and cutting ability on efficient machines. If you use soft discs with powerful machines, the discs lifetime is shortened significantly due to a fast disintegration of the bond.



Technical Information

Grinding Discs

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.

Rhodium grinding discs are made in a thickness of 7mm 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 weld seams

Advantages of the special top layer:

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



Quality Systems

BRAINTOOLS® BRAINTOOLS are particularly innovative products with unique user benefits and a high-problem solving competence.



TOPline products offer professional users maximum product benefits, reliability and comfort in treatment and an optimum price-performance ratio.



PROline products have been designed for very high quality demands and frequent use in industry and trades. They offer a good price-performance ratio and a high efficiency.



ALPHAline products are reliable grinding tools with an attractive price-performance ratio for the price-conscious expert.



CERAMICON high-performance line have sharp-edged ceramic grain and thus cut through metal faster. Offers the highest cutting efficiency and maximum stock removal thus increasing productivity.



HYDRO PROTECT slows down the ageing process caused by moisture and retains the performance of grinding wheels sustainably. Offers longer lasting high performance.

Product Guide – Cutting Discs

Material	Workpiece Material Strength	Machine Performance	Hardness/ Lifetime	Range	Part No.									
						XT8EXACT	XTK35 CROSS	XT10	XT70	FT33	FT44	ST56	ST34	
Stainless Steel	<3mm	weak	●●●●○○	BRAINTOOLS	●	○	○	○						
		strong	●●●●○○	BRAINTOOLS	●	○	○	○						
	>3mm	weak	●●●●○○	TOPLINE	○	○	○	○						
		strong	●●●●○○	ALPHALINE	○	○	○	○						
Structural Steel/Sheet Metal	<3mm	weak	●●●●○○	BRAINTOOLS	●	○	○	○	○					
		strong	●●●●○○	BRAINTOOLS	●	○	○	○	○					
	>3mm	weak	●●●●○○	TOPLINE	○	○	○	○	●		○	●		
		strong	●●●●○○	ALPHALINE	○	○	○	○	○		●	○		
Rebar	weak	●●●●○○	BRAINTOOLS		○	○	○	●		○	●			
	strong	●●●●○○	TOPLINE		●	○	○	●	○	●	○			
High-strength/ High-alloy Steel	weak	●●●●○○	BRAINTOOLS	○	○	○	○	○		○	●			
	strong	●●●●○○	TOPLINE	○	○	○	○	○		○	○			
Tool Steel	weak	●●●●○○	BRAINTOOLS	●	○	○	○	○		○	●			
	strong	●●●●○○	TOPLINE	○	○	○	○	○		○	○			
Hardened Steel	weak	●●●●○○	BRAINTOOLS	○	○	○	○	○		○	●			
	strong	●●●●○○	TOPLINE	○	○	○	○	○		○	○			
Hardox	weak	●●●●○○	BRAINTOOLS	○	○	○	○	○		○	●			
	strong	●●●●○○	TOPLINE	○	○	○	○	○		○	○			
Plastic-coated Sheet Metal	<3mm			BRAINTOOLS	●	○	○	○						
Refined-grain Construction Steel				ALPHALINE	○	○		○	○			●		
Aluminium	<3mm			BRAINTOOLS	○		○	○	○					
	>3mm			TOPLINE	○		○	○	○	○				
Bronze/Brass				BRAINTOOLS	○		○	○	○					
Titanium				ALPHALINE	○	○	○	○	○	○				
Cast Iron				TOPLINE		○				●	●			
Natural/Artificial Stone				ALPHALINE						○				
Masonry				PROLINE						●				
Plastics				BRAINTOOLS	●									

- Stainless Steel
- Steel
- Masonry
- Best Combination
- Suitable Combination
- Less Suitable

Cutting Discs

XTK8 EXACT CUT-OFF DISC

BRAINTOOLS®



Shape 42

A60U9BF1433

- Precise cut without requiring excessive force
- Minimal burr formation means less rework
- Cool cut minimises tarnish colours and material distortion
- Ultra low-noise operation



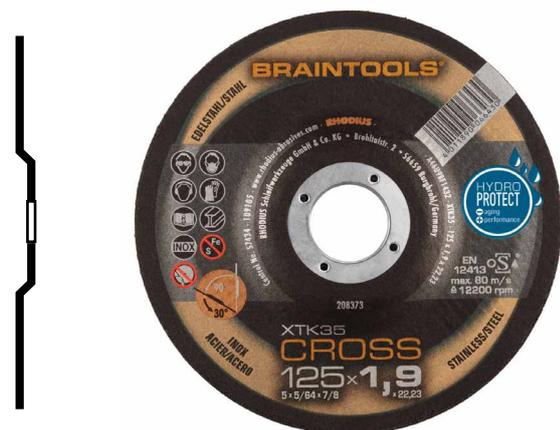
- ● ● ● ● ○ ○ Lifetime
- ● ○ ○ ○ ○ Cutting ability for solid material
- ● ● ● ● ● Cutting ability for thin-walled material



Part No.	Measurements	Max RPM	MOQ
R206683	115 x 0.8 x 22.23	13,285	50
R206684	125 x 0.8 x 22.23	12,200	50

XTK35 COMBINATION DISC

BRAINTOOLS®



Shape 42

A46U9BF1432

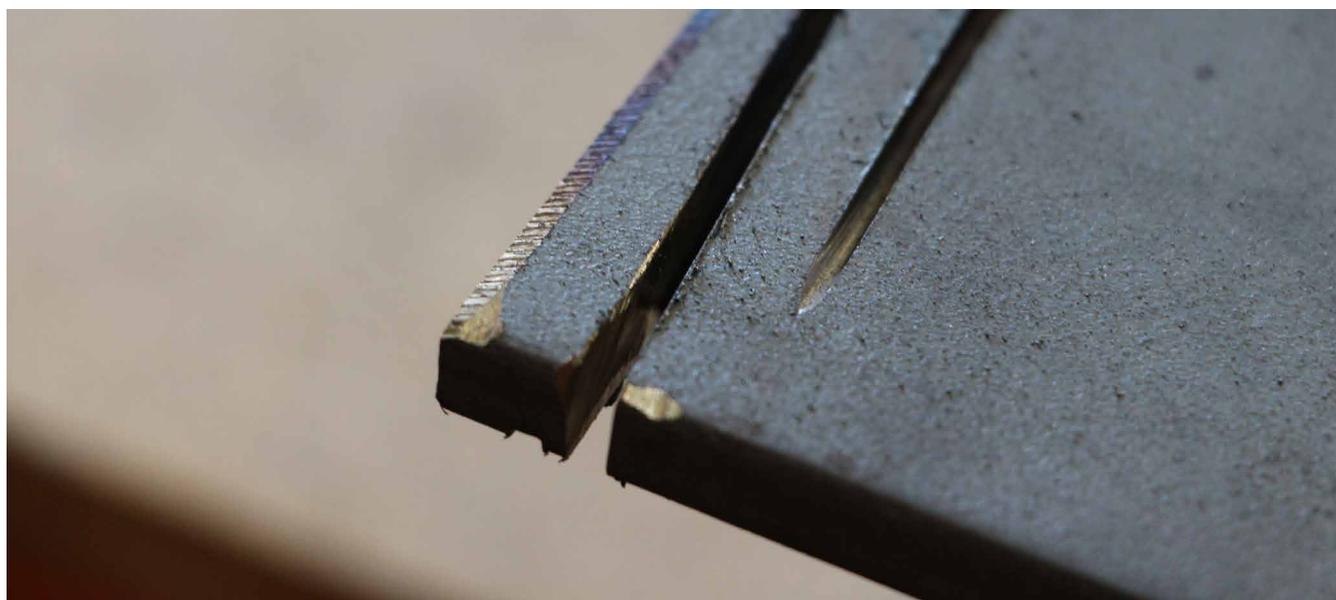
- Extra-thin cutting and rough grinding with a single disc
- No disc change needed
- Three full-face fabric layers for extra safety
- Enables cutting and grinding in one step – with a disc thickness of 1.9mm



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



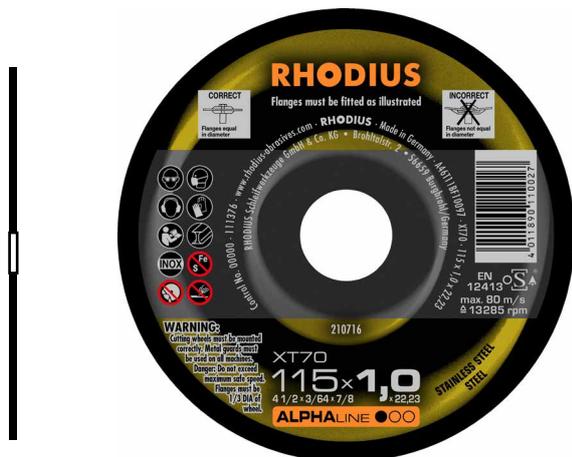
Part No.	Measurements	Max RPM	MOQ
R208373	125 x 1.9 x 22.23	12,200	25



Cutting Discs

XT70 CUT-OFF DISC

ALPHALINE ●○○



- Reduced burr formation
- High cutting speed with fewer sparks
- Ideal for low-power machines



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

Part No.	Measurements	Max RPM	MOQ
R210714	100 x 1.0 x 16	15,280	100
R210716	115 x 1.0 x 22.23	13,285	100
R210715	125 x 1.0 x 22.23	12,200	100

Shape 41

A46T11BF10097

XT70 CUT-OFF DISC 10 PACK

ALPHALINE ●○○



- Reduced burr formation
- High cutting speed with fewer sparks
- Ideal for low-power machines



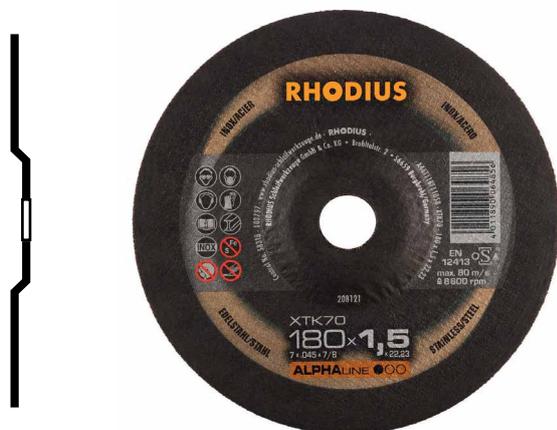
- ● ● ● ○ ○ Lifetime
- ● ● ○ ○ ○ Cutting ability for solid material
- ● ● ● ● ○ Cutting ability for thin-walled material

Part No.	Measurements	Max RPM	MOQ
R210722 (10PK)	100 x 1.0 x 1.6	15,280	10
R210718 (10PK)	115 x 1.0 x 22.23	13,285	10
R210720 (10PK)	125 x 1.0 x 22.23	12,200	10

Shape 41

XTK70 CUT-OFF DISC

ALPHALINE ●○○



- Reduced burr formation
- High cutting speed with fewer sparks
- Ideal for low-power machines



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

Part No.	Measurements	Max RPM	MOQ
R208121	180 x 1.5 x 22.23	8,600	25
R208122	230 x 1.9 x 22.23	6,600	25

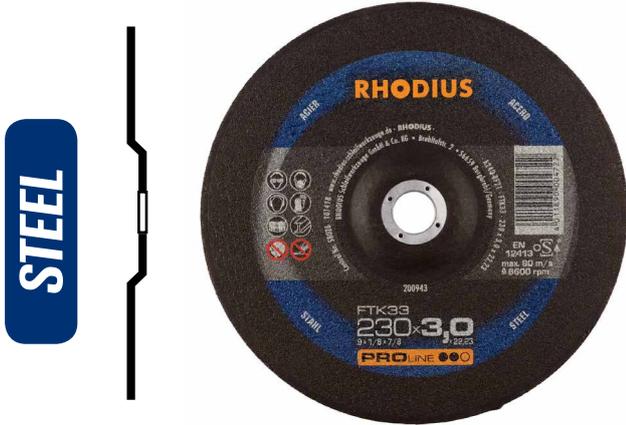
Shape 42

A46T11BF11058

Cutting Discs

FTK33 CUT-OFF DISC

PROLINE ●●●○



- High cutting speed
- Comfortable cutting behaviour
- Cuts easily
- Versatile cutting disc



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

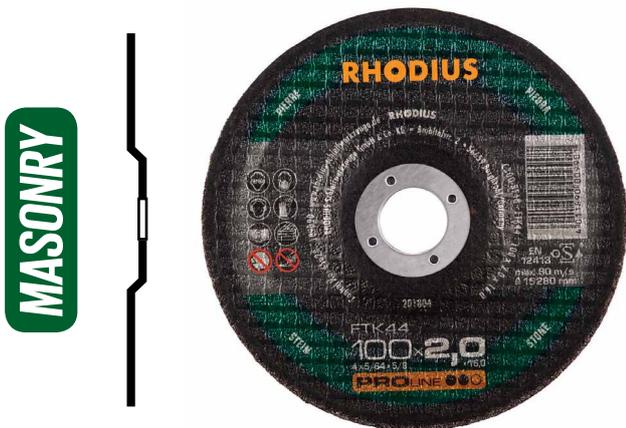
Part No.	Measurements	Max RPM	MOQ
R200840	100 x 2.0 x 16.00	15,280	25
R200983	115 x 2.0 x 22.23	13,285	25
R200891	125 x 3.0 x 22.23	12,200	25
R200943	230 x 3.0 x 22.23	6,600	25

Shape 42

A24Q-BF21

FTK44 CUT-OFF DISC

PROLINE ●●●○



- Dependable freehand cutting disc
- Less edge chipping
- High cutting speed
- Cool cut and cuts easily



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

Part No.	Measurements	Max RPM	MOQ
R201804	100 x 2.0 x 16.00	15,280	25
R201810	115 x 3.0 x 22.23	13,285	25
R201838	125 x 3.0 x 22.23	12,200	25
R201873	230 x 3.0 x 22.23	6,600	25

Shape 42

C30Q-BF48



Cutting Discs

Stationary Cutting Discs

ST56 CUT-OFF DISC



Shape 41

A24R-BF564

PROLINE ●●○

- Stationary, high efficiency cutting disc
- High cutting speed and cuts easily
- Exterior reinforcement for use at high working speeds



HIGH SPEED

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

Part No.	Measurements	Max RPM	MOQ
R201415	350 x 3.5 x 25.40	5,460	10

ST34 CUT-OFF DISC



Shape 41

A36N8BF348

ALPHALINE ●○○

- Stationary, high efficiency cutting disc
- High cutting speed and cuts easily
- Especially designed for chopsaws



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

Part No.	Measurements	Max RPM	MOQ
R201510	300 x 2.5 x 25.40	5,100	10
R201518	350 x 2.5 x 25.40	4,365	10
R201504	400 x 3.0 x 25.40	3,820	10



Product Guide – Grinding Discs

Material	Applications	Machine Performance			Part No.			
		Hardness/ Lifetime	Range					
		●●●○○○	BRAINTOOLS [®]	XTK35 CROSS				
		●●●●●●	BRAINTOOLS [®]	FS1 FUSION				
		●●●●○○	CEFRAMICON	RS480				
		●●●●○○	PRO LINE	RS2				
		●●●●●●	ALPHA LINE	KSM				
			TOP LINE	RS66				
Stainless Steel	Edge	weak	●	●	○	○	○	
		strong	●	●	○	●	○	
	Surface	weak	○	○	○	○	○	
		strong	○	○	●	●	○	
	Fillet Weld	all	●	●		○	○	
Steel	Edge	weak	●	●	○	○	●	
		strong	○	○	○	○	○	
	Surface	weak	○	○	●	○	●	
		strong	○		○	○	○	
	Fillet Weld	all	○		●	○	○	
Refined-grain Construction Steel	Universal	weak	○	○	○	○	○	
		strong	○	○	●	●	○	
Aluminium	Universal	all	○	●	○	○	○	○
Bronze/Brass	Universal	all	○	○	○	○	○	●
Titanium	Universal	all	○	○	○	○	○	●
Cast Iron	Universal	all		○	○	○	○	●*
Concrete/Granite	Universal	all		○	○	○	○	○
Building Materials	Universal	all		○	○	●	○	○
Abrasive Materials/ Floor Pavement	Universal	all		●	○	○	○	○

- Stainless Steel
- Steel
- Masonry
- Best Combination
- Suitable Combination
- Less Suitable

*For metal penetration

Grinding Discs

XTK35 COMBINATION DISC

BRAINTOOLS



- Extra-thin cutting and rough grinding with a single disc
- No disc change needed
- Three full-face fabric layers for extra safety
- Enables cutting and grinding in one step – with a disc thickness of 1.9mm



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

Part No.	Measurements	Max RPM	MOQ
R208373	125 x 1.9 x 22.23	12,200	25

Shape 42

A46U9BF1432

FS1 FUSION GRINDING DISC

BRAINTOOLS



- Can be profiled on the edge area to allow individual processing
- Ideal for fillet weld grinding
- Fine surface finish
- Durable
- 60 Grit

Scan for FS1 demonstration:



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

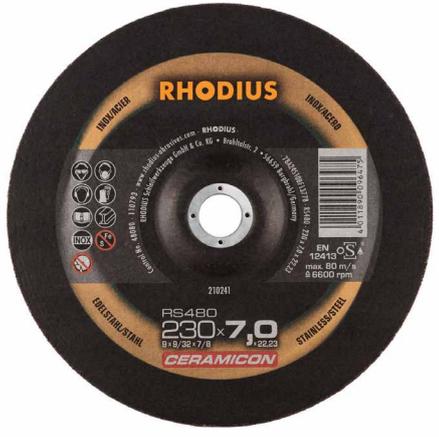
Part No.	Measurements	Max RPM	MOQ
R207830	125 x 4.0 x 22.23	12,200	10

Shape 27

37A46910BF1347

RS480 GRINDING DISC

CERAMICON



- High stock removal performance
- Additional fabric flange above 180mm for high frequency grinders and air grinders
- Three full-face fabric layers for extra safety



- ● ● ● ● ● Lifetime
- ● ● ● ● ● Stock Removal
- ● ● ● ● ● Hardness

Part No.	Measurements	Max RPM	MOQ
R210239	125 x 7.0 x 22.23	12,200	25
R210241	230 x 7.0 x 22.23	6,600	10

Shape 27

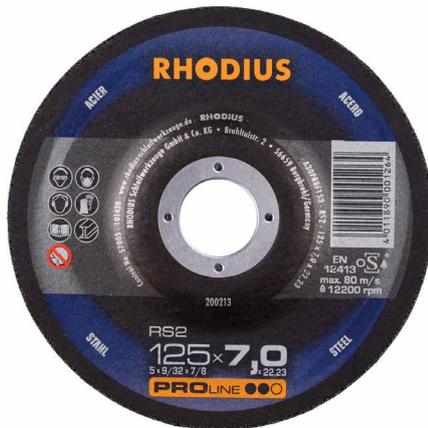
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Grinding Discs

RS2 GRINDING DISC

PROLINE ●●○

STEEL



Shape 27

A30P8BF153

- Versatile rough grinding disc
- Excellent for hard materials
- High stock removal performance
- Long life



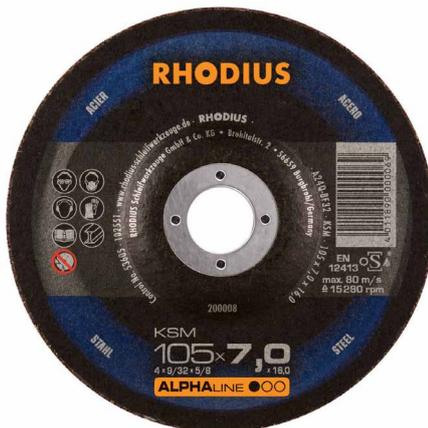
- ● ● ● ○ ○ Lifetime
- ● ● ● ● ○ Stock removal
- ● ● ○ ○ ○ Hardness

Part No.	Measurements	Max RPM	MOQ
R200167	100 x 7.0 x 16.0	15,280	25
R200184	115 x 7.0 x 22.23	13,285	25
R200213	125 x 7.0 22.23	12,200	25
R200274	230 x 7.0 x 22.23	6,600	10

KSM GRINDING DISC

ALPHALINE ●○○

STEEL



Shape 27

A24Q-BF32

- Comfortable grinding
- Great stock removal
- Long life



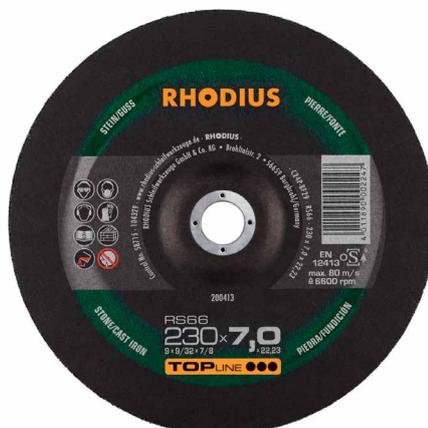
- ● ● ● ○ ○ Lifetime
- ● ● ○ ○ ○ Stock Removal
- ● ● ● ○ ○ Hardness

Part No.	Measurements	Max RPM	MOQ
R200008	100 x 7.0 x 16.0	15,280	25
R200013	115 x 7.0 x 22.23	13,285	25
R200018	125 x 7.0 22.23	12,200	25
R200056	180 x 7.0 x 22.23	8,600	10
R200090	230 x 7.0 x 22.23	6,600	10

RS66 GRINDING DISC

TOPLINE ●●●

MASONRY



Shape 27

C24P-BF29

- Versatile rough grinding disc
- Excellent for hard materials
- High stock removal performance
- Long life



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

Part No.	Measurements	Max RPM	MOQ
R200382	100 x 7.0 x 16.0	15,280	25
R200386	115 x 7.0 x 22.23	13,285	25
R200393	125 x 7.0 22.23	12,200	25
R200413	230 x 7.0 x 22.23	6,600	10

Ordering Information

Part No.	Description	MOQ	Barcode
R206683	XTK8 EXACT CUTTING DISC 115x0.8x22.23	50	4011890057780
R206684	XTK8 EXACT CUTTING DISC 125x0.8x22.23	50	4011890061534
R208373	COMBINATION DISC XTK35 125x 1.9	25	4011890066478
R206517	CUT-OFF DISC XT10 100X1,0X16	50	4011890057322
R206436	CUT-OFF DISC XT10 115X1,0X22,2	50	4011890056578
R206431	CUT-OFF DISC XT10 125X1,0X22,2	50	4011890056561
R206263	CUT-OFF DISC XTK10 230x1,9x22,2	25	4011890056783
R206799	CUT-OFF DISC XT10 MINI 50 X 1,0 X 10	50	4011890058787
R206803	CUT-OFF DISC XT10 MINI 75 X 1,0 X 10	50	4011890058688
R210714	CUT-OFF DISC XT70 100x1,0x16	100	4011890110003
R210716	CUT-OFF DISC XT70 115x1,0x22,23	100	4011890110027
R210715	CUT-OFF DISC XT70 125x1,0x22,23	100	4011890110041
R120722	10 PK CUT-OFF DISC XT70 100x1,0x16	10	4011890110065
R210718	10 PK CUT-OFF DISC XT70 115x1,0x22,23	10	4011890110089
R210720	10 PK CUT-OFF DISC XT70 125x1,0x22,23	10	4011890110102
R208121	CUT-OFF DISC XTK70 180x1,5x22,23	25	4011890065327
R208122	CUT-OFF DISC XTK70 230x1,9x22,23	25	4011890065303
R200840	CUT-OFF DISC FTK 33 100x2,0x16	25	4011890044834
R200983	CUT-OFF DISC FTK 33 115x2,0x22,23	25	4011890047828
R200891	CUT-OFF DISC FTK 33 125x3,0x22,23	25	4011890044858
R200943	CUT-OFF DISC FTK 33 230x3,0x22,23	25	4011890044896
R201804	CUT-OFF DISC FTK 44 100x2,5x16,0	25	4011890045800
R201810	CUT-OFF DISC FTK 44 115x3,0x22,23	25	4011890045817
R201838	CUT-OFF DISC FTK 44 125x3,0x22,23	25	4011890043660
R201873	CUT-OFF DISC FTK 44 230x3,0x22,23	25	4011890045824
R201415	CUT-OFF DISC ST 56 350x3,5x25,4	10	4011890047460
R201510	CUT-OFF DISC ST34 300X2.5X25,4MM	10	4011890045565
R201518	CUT-OFF DISC ST34 350X2.5X25,4MM	10	4011890045589
R201504	CUT-OFF DISC ST34 400x3.0 x 25.4	10	4011890048405
R207830	FS1 FUSION GRINDING DISC 127x7.0x22.23	10	4011890063101
R210239	RS480 CERAMICON GRINDING DISC 125x7.0x22.23	25	4011890096635
R210241	GRINDING DISC RS480 230 x 7.0 x 22,23	10	4011890096666
R200167	GRINDING DISC RS2 105x7,0x16,0	25	4011890044254
R200184	GRINDING DISC RS2 115x7,0x22,23	25	4011890043677
R200213	GRINDING DISC RS2 125x7,0x22,23	25	4011890044278
R200274	GRINDING DISC RS2 230x7,0x22,23	10	4011890044346
R200008	GRINDING DISC KSM 105x7,0x16,0	25	4011890044049
R200013	GRINDING DISC KSM 115x7,0x22,23	25	4011890044063
R200018	GRINDING DISC KSM 125x7,0x22,23	25	4011890044070
R200056	GRINDING DISC KSM 180x7,0x22,23	10	4011890044117
R200090	GRINDING DISC KSM 230x7,0x22,23	10	4011890044131
RR200382	GRINDING DISC RS66 100x7,0x16	25	4011890002094
R200386	GRINDING DISC RS66 115x7,0x22,23	25	4011890044476
R200393	GRINDING DISC RS66 125x7,0x22,23	25	4011890044483
R200413	GRINDING DISC RS66 230x7,0x22,23	10	4011890044520

Notes

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RHODIUS®

Josco's extensive product range spans across a broad range of categories:

- Wire Brushes
- Grinding & Sanding
- Cutting
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- Hand Tools & Engineering
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