



# Consumables for cutting



# Precision cutting

Precision cutting enables cutting directly next to significant analysis areas and also for materials with particularly complex material properties. Precision cut-off wheels are significantly thinner than larger diameter cut-off wheels. With QPREP, you can choose from aluminum oxide, silicon carbide, diamond or CBN abrasives. The abrasives can be either electroplated, resin bonded, rubber bonded or bronze bonded. QPREP precision cut-off wheels are the ideal solution for cutting requirements with high surface quality and exact cutting accuracy.

## PRODUCT ADVANTAGES

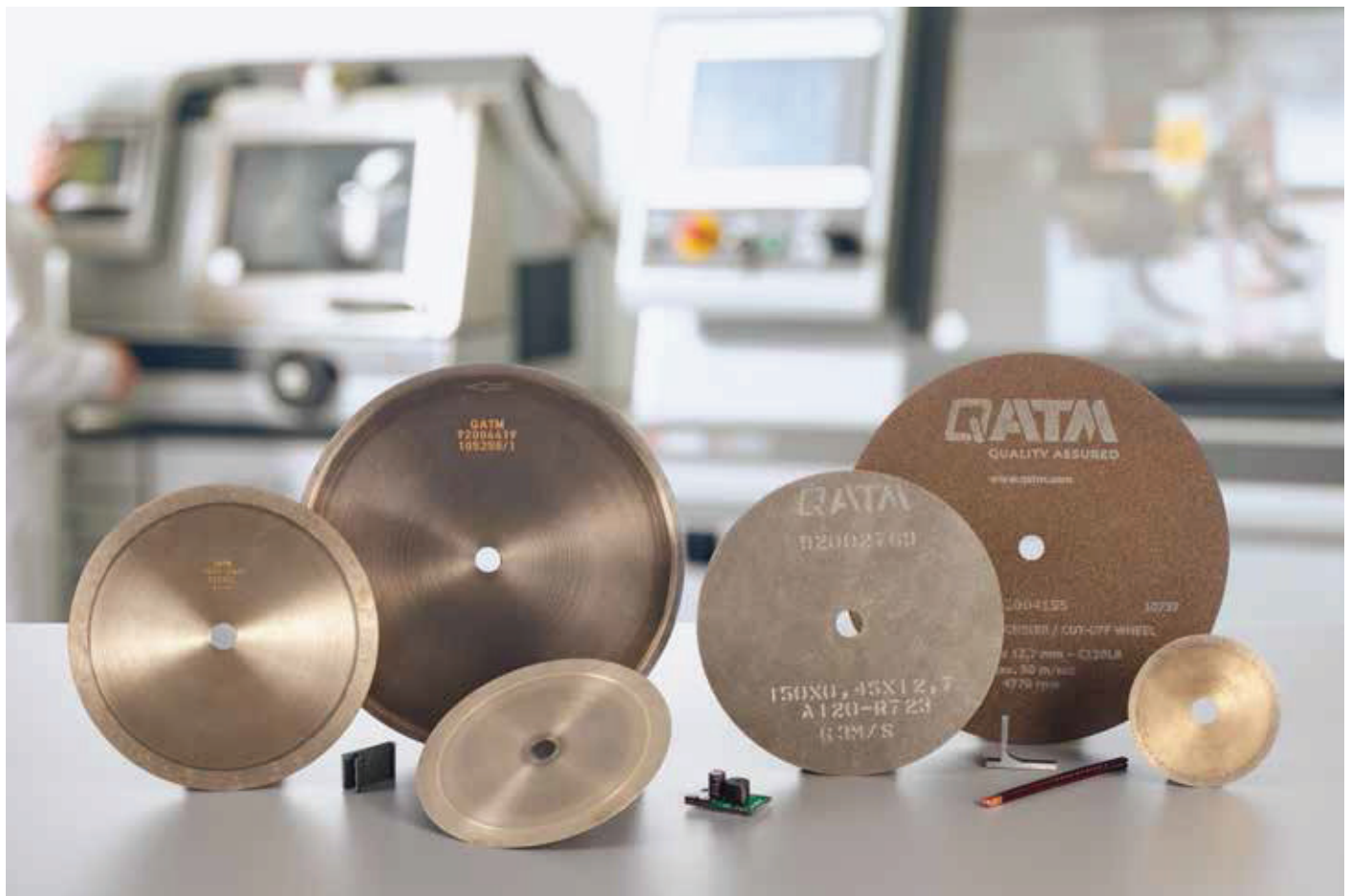
- Minimal material loss due to thin cut-off wheel thickness
- Allows cutting closer to the desired surface
- Allows cutting of small, sensitive, and very brittle specimens

## RECOMMENDED APPLICATIONS

- Target and defect preparation
- Electronic component segmentation
- Preparing for thin sectioning specimens

### ARBOR SIZE AND WHEEL DIAMETER (MAX.) FOR QATM PRECISION CUT-OFF MACHINES

Cut-off machine	Arbor size	Wheel diameter (max.)
Qcut 150 M	12,7 mm	203 mm/8 "
Qcut 150 A	12,7 mm	203 mm/8 "
Qcut 200 A	12,7 mm	203 mm/8 "



**prep** – CUTTING – PRECISION CUT-OFF WHEELS

## PRODUCT ADVANTAGES

- ## RECOMMENDED APPLICATIONS

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- A photograph showing two large, circular, brown abrasive discs with the GATA logo and the number 400-4254. They are placed on a light-colored surface. In the background, a person in a white lab coat is working with a machine, and a computer monitor is visible. A small metal part is also on the surface in the foreground.

## Notes

## Qprep Aluminum oxide precision cut-off wheels

For precision cutting of ferrous materials, QPREP Aluminum oxide precision cut-off wheels are the optimal choice. This cut-off wheel is available in two different grain types (fine and coarse).



### PRODUCT ADVANTAGES

- ▮ The dense structure of the disc allows a longer lifetime
- ▮ Less wear and less heat between specimen and cut-off wheel

### RECOMMENDED APPLICATIONS

- ▮ Suitable for a wide range of materials, especially various steel samples
- ▮ Cutting of high alloy steel
- ▮ Cutting of nitrided steel
- ▮ Allows cutting through mounted samples

Item No.	Unit	Description
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### ALUMINUM OXIDE PRECISION CUT-OFF WHEELS

Ø	Thickness	Arbor Size	Grain size	Bond
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#### Fine-grained • for universal application of materials of higher hardness

92002643	5 Pcs.	100 mm	0.25 mm	12.7 mm	fine grid	rubber
92002645	5 Pcs.	100 mm	0.4 mm	12.7 mm	fine grid	rubber
92002644	5 Pcs.	125 mm	0.45 mm	12.7 mm	fine grid	rubber
92002769	5 Pcs.	150 mm	0.45 mm	12.7 mm	fine grid	rubber
<b>NEW</b> 95014126	5 Pcs.	200 mm	0.45 mm	12.7 mm	fine grid	rubber

#### Coarse-grained • for universal application of materials of lower hardness and mounted samples

92002646	5 Pcs.	125 mm	0.8 mm	12.7 mm	coarse grid	rubber
92002770	5 Pcs.	150 mm	0.6 mm	12.7 mm	coarse grid	rubber
92002647	5 Pcs.	200 mm	0.8 mm	12.7 mm	coarse grid	rubber
92004159	5 Pcs.	150 mm	1 mm	12.7 mm	coarse grid	resin

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## Qprep Diamond precision cut-off wheels

For cutting hard materials, QPREP Diamond precision cut-off wheels are the optimal choice, as they cut materials such as ceramics without smearing. The bond is made of bronze. The diamonds can be "dressed" to take full advantage of the cutting performance of the diamond particles again after a longer period of use.



### PRODUCT ADVANTAGES

- Diamond as abrasive enables cutting of hardest materials
- Separates hard material without smearing
- The dressing functionality of our QATM cut-off machines ensures that the diamonds always maintain maximum cutting performance

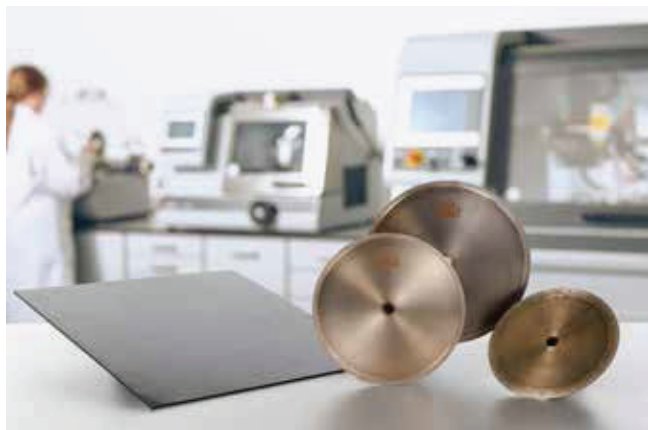
### RECOMMENDED APPLICATIONS

- Cutting hard and brittle materials such as ceramics and glass
- Cutting of mineral samples like rocks
- Cutting of specimens with brittle plasma coating

Item No.	Unit	Description					
DIAMOND PRECISION CUT-OFF WHEELS							
Ø	Thickness	Arbor Size	Grain size	Concentration	Bond		
• for universal application							
92002397	1 Pc.	75 mm	0.3 mm	12.7 mm	D181	HC	bronze
92002401	1 Pc.	100 mm	0.3 mm	12.7 mm	D181	HC	bronze
92002405	1 Pc.	125 mm	0.5 mm	12.7 mm	D213	HC	bronze
92002409	1 Pc.	150 mm	0.5 mm	12.7 mm	D213	HC	bronze
NEW 95016591	1 Pc.	175 mm	0.65 mm	12.7 mm	D213	HC	bronze
NEW 95004814	1 Pc.	200 mm	0.5 mm	12.7 mm	D213	HC	bronze
• for glass, minerals and brittle structural ceramics							
92002398	1 Pc.	75 mm	0.3 mm	12.7 mm	D181	LC	bronze
92002402	1 Pc.	100 mm	0.3 mm	12.7 mm	D181	LC	bronze
92002406	1 Pc.	125 mm	0.5 mm	12.7 mm	D213	LC	bronze
92002410	1 Pc.	150 mm	0.5 mm	12.7 mm	D213	LC	bronze
NEW 92006368	1 Pc.	200 mm	0.6 mm	12.7 mm	D213	LC	bronze
• for hard metals and hard ceramic materials							
NEW 95010518	1 Pc.	150 mm	0.5 mm	12.7 mm	D213	LC	bronze
NEW 95008773	1 Pc.	150 mm	0.5 mm	12.7 mm	D213	LC	resin
95015121	1 Pc.	200 mm	1.0 mm	12.7 mm	D151	LC	bronze
• for assembled printed circuit boards and filigree component geometries							
92002400	1 Pc.	75 mm	0.3 mm	12.7 mm	D91/107	HC	bronze
92002404	1 Pc.	100 mm	0.3 mm	12.7 mm	D91/107	HC	bronze
92002408	1 Pc.	125 mm	0.5 mm	12.7 mm	D91/107	HC	bronze
92002412	1 Pc.	150 mm	0.5 mm	12.7 mm	D91/107	HC	bronze
• for mounted samples, composites, CFRP, GFRP and plastics							
NEW 95007077	1 Pc.	200 mm	1.2 mm	12.7 mm	D126	LC	galvani

**Qprep** CBN precision cut-off wheels

QPREP CBN precision cut-off wheels like the diamond precision cut-off wheels, are edged with a cubic boron nitride (CBN) abrasive in a bronze bond. The properties of CBN make it particularly suitable for composite and tough materials.



## PRODUCT ADVANTAGES

- The best cutting performance when cutting soft and hard materials
- Separates hard material without smearing
- The dressing functionality of our QATM cut-off machines ensures that the CBN particles always maintain the highest cutting performance

## RECOMMENDED APPLICATIONS

- Composites and materials with a combination of soft and hard materials
- Ductile materials
- Cutting hard ferrous materials

Item No.	Unit	Description
CBN PRECISION CUT-OFF WHEELS BOND: BRONZE		
		Ø Thickness Arbor Size
• for composites and rigid materials		
92002442	1 Pc.	75 mm 0.9 mm 12.7 mm
92002443	1 Pc.	100 mm 0.5 mm 12.7 mm
92002444	1 Pc.	125 mm 0.5 mm 12.7 mm
92002445	1 Pc.	150 mm 0.65 mm 12.7 mm
92002446	1 Pc.	175 mm 0.9 mm 12.7 mm
92006419	1 Pc.	200 mm 0.5 mm 12.7 mm

## Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

The QPREP Saw blade cut-off wheel is particularly suitable for cutting materials with a high tendency to smearing.



- ! The best performance when cutting non-metallic material
- ! Lower heat generation due to single engagement of the saw teeth during cutting
- ! Since there is no binding of abrasives, the disc is odor and dust free

- | Separation of non-metallic materials
- | Separation of plastic materials
- | Separation of polymers e.g., carbon fiber reinforced polymers

Item No.	Unit	Description
		SAW BLADE CUT-OFF WHEEL
		<div> <div>Ø</div> <div>Thickness</div> <div>Arbor Size</div> </div> <div>• for plastics, non-ferrous metals</div>
95009083	1 Pc.	150 mm 1.4 mm 30 mm (reduction ring 12.7 mm necessary)
01811035	1 Pc.	Reduction ring 12.7 mm to 30 mm

## This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

# Cutting

The process of cutting, specifically wet abrasive cutting, is essential for materialographic sectioning of samples. In this process, cut-off wheels of different material thicknesses, abrasive particles and bonds are used on a corresponding wet abrasive cutting machine. These bond types can be synthetic resin, rubber, or metal. For the abrasives, aluminum oxide, silicon carbide, diamond or CBN is used. These abrasive particles are enclosed in a bond matrix.

## PRODUCT ADVANTAGES

- ! Low thermal influence on the specimen during the cutting process
- ! Wet abrasive cutting achieves very fine surface finishes after cutting
- ! Optimum cutting shortens the further preparation process

## RECOMMENDED APPLICATIONS

- ! Separation of relevant inspection areas
- ! Plane-parallel segmentation of semi-finished products and components
- ! Investigation of geological and mineralogical samples

## AS A RULE, THE FOLLOWING PRINCIPLE APPLIES:

- ! For hard materials, a cut-off wheel with soft bond is recommended.  
➔ This ensures fast breaking out of worn abrasive particles.
- ! For medium-hard materials, a cut-off wheel with a medium-hard bond is recommended.  
➔ This ensures worn abrasive particles break out evenly.
- ! For soft materials, a cut-off wheel with hard bond is recommended.  
➔ This ensures slow breaking out of worn abrasive particles.

## ARBOR SIZE AND WHEEL DIAMETER (MAX.) FOR QATM CUT-OFF MACHINES

Cut-off machine	Arbor size	Wheel diameter (max.)
Brillant 230	32 mm	305 mm/12 "
Brillant 255	32 mm	406 mm/16 "
Qcut 250 M	32 mm	254 mm/10 "
Qcut 250 A	32 mm	254 mm/10 "
Qcut 350 A	32 mm	356 mm/14 "
Qcut 400 A	32 mm	406 mm/16 "
Qcut 500 A	32 mm	508 mm/20 "
Qcut 600 A	32 mm	610 mm/24 "
Qcut 600 BOT	32 mm	610 mm/24 "

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# Premium cut-off wheels

Significant properties for cut-off wheels are wear (i.e., abrasion resistance), long lifetime and cutting performance. Characteristics of the wheel composition are the abrasive used (aluminum oxide, silicon carbide, diamond, cubic boron nitride (CBN)) and the bond type (metal, resin or rubber). The goal of any cut is to separate the material with minimal deformation and temperature effect. For a clean cut, the abrasive particles and bond type of the cut-off wheel should be matched to the material being cut.

QPREP Premium cut-off wheels offer the optimal solution for a wide range of applications.

- ! Achieve a fine cutting surface
- ! Wide range of cut-off wheels for cutting all materials
- ! The best cutting function fitting to the material
- ! Low deformation and temperature during the cutting process
- ! Very good cutting performance with long lifetime

The color coding of the premium cut-off wheels enables quick, visual assignment and identification of the several types:

## CUT-OFF WHEEL SELECTION ACCORDING TO MATERIAL HARDNESS

		Resin bonded									
			100	200	300	400	500	600	700	800	
Type description	NF-	A	non-ferrous metals								
	Ti-	A	ductile metals								
		A	soft, ferrous metals (30-300 HV)								
		B	medium soft, ferrous metals	200 - 450 HV							
	FS-	FR	medium soft up to hard ferrous metals	250 - 600 HV							
		C	medium hard, ferrous metals	300 - 550 HV							
		D	hard, ferrous metals	400 - 700 HV							
		E						very hard, ferrous metals	>650 HV		
		Rubber bonded									
Type description	A	50 - 500 HV Universal wheel, soft and hard metals, Superalloys									
	B	for high-speed steels, heat-treated steels, non-corrosive steels				400 - 700 HV					
			soft	medium soft	medium hard	hard		very hard			
HV			50 - 250	250 - 350	350 - 500	500 - 700		700 - 940			
HRC				24 - 35	35 - 49	49 - 60		60 - 68			

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## Qprep Premium Silicon Carbide cut-off wheels

Due to the lower hardness of silicon carbide particles compared to aluminum oxide particles, these premium cut-off wheels are the optimal choice for cutting soft as well as non-ferrous materials.



### PRODUCT ADVANTAGES

- Optimized cutting performance for non-ferrous metals and ductile metals
- Long lifetime and low wear of the cut-off wheel

### RECOMMENDED APPLICATIONS

- QPREP Premium Silicon Carbide cut-off wheel **NF-A** are suitable for cutting soft and medium hard non-ferrous metals as well as hard non-metallic materials (glass, stone).
- QPREP Premium Silicon Carbide cut-off wheel **Ti-A** for cutting non-ferrous metals, Ti alloys and refractory metals

Item No.	Unit	Description			
PREMIUM SILICON CARBIDE CUT-OFF WHEELS BOND: RESIN					
		Ø	Thickness Arbor Size		
Type NF-A, Purple • for non-ferrous metals (30-300 HV)					
95012531	10 Pcs.	250 mm	1.5 mm	32 mm	
95012538	10 Pcs.	300 mm	2.0 mm	32 mm	
95012545	10 Pcs.	350 mm	2.5 mm	32 mm	
95012552	10 Pcs.	400 mm	3.0 mm	32 mm	
95012566	5 Pcs.	500 mm	4.0 mm	32 mm	
95012573	5 Pcs.	600 mm	4.5 mm	32 mm	
Type Ti-A, Pink • for titanium and alloys, refractory metals (30-300 HV)					
92002417	10 Pcs.	230 mm	1.5 mm	32 mm	
95012530	10 Pcs.	250 mm	1.5 mm	32 mm	
95012537	10 Pcs.	300 mm	2.0 mm	32 mm	
92002427	10 Pcs.	350 mm	2.5 mm	32 mm	
92002428	10 Pcs.	400 mm	3.0 mm	32 mm	

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## Qprep Premium Aluminum Oxide cut-off wheels

QPREP Premium Aluminum Oxide cut-off wheels cover a wide range of materials from 30 HV to >650 HV.



### PRODUCT ADVANTAGES

- Wide range of application for various materials with different hardness's
- Long lifetime as well as low wear of the cut-off wheel
- Premium abrasive particles enable the finest cutting surfaces, which shortens the following grinding steps
- The synthetic resin bond allows dull abrasive particles to break out evenly during the cutting process

### RECOMMENDED APPLICATIONS

- Cutting of all materials
- Cutting of polymers with the hard-bonded cut-off wheel **FS-A**
- FS-FR** low-wear cut-off wheel in the 250 to 600 HV range, especially suitable for manual cutting
- Cutting of very hard steels with the soft-bonded cut-off wheel **FS-E**

Item No.	Unit	Description
<b>PREMIUM ALUMINUM OXIDE CUT-OFF WHEELS BOND: RESIN</b>		
<b>Ø</b>	<b>Thickness</b>	<b>Arbor Size</b>

#### Type FS-A, Red

- for soft steel (30-300 HV), non-ferrous metals, polymer

95012529	10 Pcs.	250 mm	1.5 mm	32 mm
95012536	10 Pcs.	300 mm	2.0 mm	32 mm
95012543	10 Pcs.	350 mm	2.5 mm	32 mm
95012550	10 Pcs.	400 mm	3.0 mm	32 mm
95012564	5 Pcs.	500 mm	4.0 mm	32 mm
95012571	5 Pcs.	600 mm	4.5 mm	32 mm

#### Type FS-B, Orange

- for medium soft steel (200-450 HV)

95012528	10 Pcs.	250 mm	1.5 mm	32 mm
95012535	10 Pcs.	300 mm	2.0 mm	32 mm
95012542	10 Pcs.	350 mm	2.5 mm	32 mm
95012549	10 Pcs.	400 mm	3.0 mm	32 mm
95012563	5 Pcs.	500 mm	4.0 mm	32 mm
95012570	5 Pcs.	600 mm	4.5 mm	32 mm

#### Type FS-FR, fabric reinforced (250-600 HV)

- for medium soft to hard steels
- > 30% wear reduction

<b>NEW</b>	95017540	10 Pcs.	250 mm	1.5 mm	32 mm
<b>NEW</b>	95017541	10 Pcs.	300 mm	2.0 mm	32 mm
<b>NEW</b>	95017542	10 Pcs.	350 mm	2.5 mm	32 mm
<b>NEW</b>	95017543	10 Pcs.	400 mm	3.0 mm	32 mm

Item No.	Unit	Description		
<b>Type FS-C, Yellow</b> • for medium hard steel (300-550 HV), case hardened, nitrided steels				
95012527	10 Pcs.	250 mm	1.5 mm	32 mm
95012534	10 Pcs.	300 mm	2.2 mm	32 mm
95012541	10 Pcs.	350 mm	2.2 mm	32 mm
95012548	10 Pcs.	400 mm	3.0 mm	32 mm
95012562	5 Pcs.	500 mm	4.0 mm	32 mm
95012569	5 Pcs.	600 mm	4.5 mm	32 mm

<b>Type FS-D, Green</b> • for hard steels (400-700 HV), annealed, carburised steels				
95012526	10 Pcs.	250 mm	1.5 mm	32 mm
95012533	10 Pcs.	300 mm	2.0 mm	32 mm
95012540	10 Pcs.	350 mm	2.5 mm	32 mm
95012547	10 Pcs.	400 mm	3.0 mm	32 mm
95012561	5 Pcs.	500 mm	4.0 mm	32 mm
95012568	5 Pcs.	600 mm	4.5 mm	32 mm

<b>Type FS-E, Blue</b> • for very hard steels (>650 HV)				
95012525	10 Pcs.	250 mm	1.5 mm	32 mm
95012532	10 Pcs.	300 mm	2.0 mm	32 mm
95012539	10 Pcs.	350 mm	2.5 mm	32 mm
95012546	10 Pcs.	400 mm	3.0 mm	32 mm
95012560	5 Pcs.	500 mm	4.0 mm	32 mm
95012567	5 Pcs.	600 mm	4.5 mm	32 mm



Item No.	Unit	Description		
PREMIUM ALUMINUM OXIDE CUT-OFF WHEELS BOND: RUBBER				
		Ø	Thickness	Arbor Size
Type A, Brown				
• universal wheel, soft and hard metals, superalloys (50-500 HV)				
92002413	10 Pcs.	229 mm	0.8 mm	32 mm
92002599	10 Pcs.	254 mm	1.0 mm	32 mm
92002441	10 Pcs.	305 mm	1.0 mm	32 mm
92002436	10 Pcs.	356 mm	1.6 mm	32 mm
92002439	10 Pcs.	400 mm	1.6 mm	32 mm
92008537	10 Pcs.	500 mm	2.4 mm	32 mm
92004007	10 Pcs.	600 mm	4.3 mm	40 mm

<b>Typ B, Black</b> • for high-speed steels, heat-treated steels, non-corrosive steels (400-700 HV)				
92002414	10 Pcs.	229 mm	1.6 mm	32 mm
92002600	10 Pcs.	254 mm	1.6 mm	32 mm
92002434	10 Pcs.	305 mm	1.6 mm	32 mm
92002437	10 Pcs.	356 mm	2.4 mm	32 mm
92002440	10 Pcs.	400 mm	2.4 mm	32 mm
92008874	10 Pcs.	500 mm	3.0 mm	32 mm

## Qprep Premium Diamond cut-off wheels

QPREP Premium Diamond cut-off wheels are used for hard materials (ceramics, glass fiber reinforced plastics, minerals and rocks, glass or similar). There are two different bond variants to choose from: metallic, in which the diamonds are usually bound in a bronze bond, or the bond with synthetic resin.



### PRODUCT ADVANTAGES

- Two different bond types (bronze and resin) for a wide range of applications.
- The dressing functionality of our QATM cut-off machines ensures that the diamonds always maintain maximum cutting performance
- Long lifetime as well as low wear of the cut-off wheel

### RECOMMENDED APPLICATIONS

- Cutting of ceramic materials as well as composites with bronze-bonded diamond premium cut-off wheels
- Cutting of hard and brittle materials with resin-bonded diamond cutting discs
- Cutting of brittle coating surfaces

Item No.	Unit	Description				
PREMIUM DIAMOND CUT-OFF WHEELS BOND: BRONZE						
Ø	Thickness	Arbor Size	Grain size	Concentration		
• for ceramic materials						
92002452	1 Pc.	250 mm	1.2 mm	32 mm	D181	LC
92002453	1 Pc.	300 mm	1.6 mm	32 mm	D181	LC
95003433	1 Pc.	350 mm	1.6 mm	32 mm	D181	LC
92008751	1 Pc.	400 mm	2.4 mm	32 mm	D181/213	LC
• for composite materials (hard/soft combinations)						
95002102	1 Pc.	250 mm	1.3 mm	32 mm	D126/151	HC
92004719	1 Pc.	300 mm	1.3 mm	32 mm	D126/151	HC
92008619	1 Pc.	350 mm	1.4 mm	32 mm	D126/151	HC
95006793	1 Pc.	400 mm	1.3 mm	32 mm	D126/151	HC
other diameters on request						

other diameters on request

PREMIUM DIAMOND CUT-OFF WHEELS BOND: RESIN						
Ø	Thickness	Arbor Size	Grain size	Concentration		
• for hard metals, generally for materials of high hardness						
92002451	1 Pc.	250 mm	1.2 mm	32 mm	D126/151	HC
92002454	1 Pc.	300 mm	1.6 mm	32 mm	D126	HC
95003049	1 Pc.	350 mm	1.6 mm	32 mm	D126	HC
95010131	1 Pc.	400 mm	1.6 mm	32 mm	D126	HC
other diameters on request						

other diameters on request

- The good thermal conductivity of CBN abrasives can dissipate heat generated during cutting much more effectively
- Long lifetime as well as low wear of the cut-off wheel
- The dressing functionality of our QATM cut-off machines ensures that the CBN particles always maintain the highest cutting performance

- For the cutting of composite materials
- For cutting very hard steels

## Notes



## Qprep Aluminum Oxide cut-off wheels

QPREP Aluminum Oxide cut-off wheels are to be used for varied materials depending on the type.



### PRODUCT ADVANTAGES

- Long lifetime as well as low wear of the cut-off wheel
- The synthetic resin bond enables even breaking out of blunt abrasive particles during the cutting process

### RECOMMENDED APPLICATIONS

- Type C is universally applicable for materials with high and very high hardnesses
- Type-D for cutting medium-hard materials and case-hardened steel
- Type-I for cutting mild steel and cast materials

Item No.	Unit	Description		
ALUMINUM OXIDE CUT-OFF WHEELS BOND: RESIN				
		Ø	Thickness	Arbor Size
<b>Type C</b> • universal wheel for materials of high to very high hardness				
92001554	10 Pcs.	250 mm	1.5 mm	32 mm
92001558	10 Pcs.	300 mm	2 mm	32 mm
92001669	10 Pcs.	350 mm	2 mm	32 mm
92001783	10 Pcs.	400 mm	3 mm	32 mm
<b>Type D</b> • universal wheel for medium hard materials, case-hardened steels				
92001555	10 Pcs.	250 mm	1.5 mm	32 mm
92001559	10 Pcs.	300 mm	2 mm	32 mm
92001670	10 Pcs.	350 mm	2 mm	32 mm
92001784	10 Pcs.	400 mm	3 mm	32 mm
<b>Type I</b> • for construction steels and cast material				
92006066	10 Pcs.	250 mm	1.6 mm	32 mm
92005863	10 Pcs.	300 mm	2 mm	32 mm
92005862	10 Pcs.	350 mm	2.5 mm	32 mm
92008504	10 Pcs.	400 mm	3 mm	32 mm

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## Qprep Coolant and anti-corrosion agent

Optimum cooling is essential during cutting. Excessive heat generation during the cutting process damages the specimen as well as the cutting wheel. QPREP coolant and anti-corrosion agent help to dissipate the heat and remove chips at the cutting point. A corrosion inhibitor must be added to the coolant, otherwise there is a risk of oxidation on the cut-off surface of the specimen as well as on machine components.



### PRODUCT ADVANTAGES

- QPREP coolant and anti-corrosion agent are suitable for all types of cut-off machines
- QPREP ATM CoolCut is known for its environmentally and user-friendly handling
- QPREP coolant and anti-corrosion agent minimize the risk of thermal damage and corrosion during the cutting process

### RECOMMENDED APPLICATIONS

- Cutting additive for all and especially corrosive sensitive materials
- When cutting coated samples that have been coated in a salt bath, the QPREP Defoamer should be used
- For cutting polymers and composites, the use of the QPREP coolant and anti-corrosion agent for plastics and composites is recommended
- QPREP ATM-CoolAdd CU is an additive to the cooling lubricant for specific requirements when cutting specific materials

Item No.	Unit	Description
<b>ATM-COOLCUT, ENVIRONMENT- AND USER-FRIENDLY</b> <b>Mixing ratio 1:25 (4%) – 1:17 (6%) / refractometer: 2.0%/°Bx</b>		
<b>RECOMMENDATION</b> <ul style="list-style-type: none"> <li>for steel, cast iron, light and non-ferrous metal, glass and ceramics, composites</li> <li>free of oil, boron, nitride and formaldehyde</li> <li>optimized anti-corrosion protection and cutting properties</li> </ul>		
95004145	1 l	ATM-CoolCut, concentrate
95004146	5 l	ATM-CoolCut, concentrate
95004147	10 l	ATM-CoolCut, concentrate
<b>ANTI CORROSION COOLANT FOR POLYMERS AND COMPOSITES</b> <b>Mixing ratio: 1:66 (1.5%) - 1:33 (3%) / refractometer: 2.4%/°Bx</b>		
<ul style="list-style-type: none"> <li>optimized for polymers and composites</li> <li>free of nitride and oil</li> <li>also suitable for steels, non-ferrous metals, ceramics and glasses</li> </ul>		
95007864	1 l	Concentrate
<b>ANTI CORROSION COOLANT, STANDARD</b> <b>Mixing ratio 1:35 / refractometer: 1.4%/°Bx</b>		
<ul style="list-style-type: none"> <li>for steel, cast iron, non-ferrous metal</li> </ul>		
95014280	1 l	Concentrate
95014281	5 l	Concentrate
95014282	10 l	Concentrate

Item No.	Unit	Description
<b>COOLING AGENT ADDITIVES</b>		
<b>ATM-CoolAdd CU</b>		
95008731	1 l	ATM-CoolAdd CU, additive for cutting of non-ferrous materials like Cu and its alloys. Mixing concentration in aqueous coolant approx. 0.05 - 0.2%
<b>Defoaming agent</b>		
95014584	200 ml	Defoaming agent, additive for water-based coolants Mixing concentration in aqueous coolant approx. 0.005 - 0.05%
95014583	1 l	Defoaming agent, additive for water-based coolants Mixing concentration in aqueous coolant approx. 0.005 - 0.05%
<b>ATM-PreClean</b>		
92006502	1 kg	ATM-PreClean, cleaning concentrate/system cleaner for circulating cooling units and cutting machines

## QATM Accessories & Tools

For inspection as well as effective working with QPREP cut-off wheels and QPREP cooling and anti-corrosion agents, QATM offers accessories & tools.



Item No.	Unit	Description
<b>ACCESSORIES FOR MAINTENANCE AND CARE OF COOLANTS</b>		
<b>Maintenance and testing set</b>		
95007866	1 Set	Maintenance and testing set for anti-corrosion coolant (case with handheld refractometer, plastic cup for extraction of sample, test strips, thermometer)
<b>Accessories for maintenance and testing set</b>		
92005616	100 Pcs.	pH test strips
92005613	100 Pcs.	Nitrate test strips
92005614	100 Pcs.	Nitrite test strips
95007865	100 Pcs.	Water hardness test strips



<b>ACCESSORIES FOR MAINTENANCE AND CARE OF CUT-OFF MACHINES</b>		
<b>Corrosion protection- and care spray</b>		
95016408	400 ml	Corrosion protection- and care spray, fully synthetical, silicon-free corrosion protection oil, for metal surfaces (e.g. clamping vices)
<b>Anti-fog spray</b>		
95008900	100 ml	Anti-fog spray (prevents steaming up the viewing window by splash water)



<b>ACCESSORIES FOR CUT-OFF WHEELS</b>		
<b>Dressing stone</b>		
92002460	1 Pc.	Dressing stone for diamond cut-off wheels, CBN cut-off wheels and cup wheels

## Qprep Filter systems

During cutting, various residual materials are produced from the specimen (chips) and from the cut-off wheel (wear/tear). To prevent these residual materials from entering the cooling water / waste water system or the pump mechanism, the use of filter systems is required. A suitable filter system with the correct mesh size, filter material and dimension has a significant influence on the cleanliness of the coolant.



### PRODUCT ADVANTAGES

- Various QPREP filter systems for different cut-off machines, from precision machines to floor standing machines.
- QPREP filter systems protect the cutting machine and thus increase its lifetime.
- The different mesh sizes of the filters offer an application-oriented selection of the appropriate filter system for the corresponding recirculating cooling unit.

### RECOMMENDED APPLICATIONS

- The use of a filter system keeps the coolant significantly longer clean and prevents damage to the pump and machine.

Item No.	Unit	Description		
<b>FILTER INSERTS</b>				
			Dimensions	Mesh size
<b>for Brilliant 255 / Qcut 400 A (Brillant 265) / Brilliant 270 / Qcut 500 A (Brillant 275) / Brilliant 280</b>				
95017301	5 Pcs.	Filter cloth and fleece	490 x 290 x 190 mm	60 µm
95017302	5 Pcs.	Filter cloth and fleece	490 x 290 x 190 mm	100 µm
95017303	5 Pcs.	Filter cloth and fleece	490 x 290 x 190 mm	800 µm
<b>for recirculation cooling system 45 Ltr. (until year of construction 2012)</b>				
95017304	5 Pcs.	Filter cloth and fleece	290 x 150 x 190 mm	60 µm
95017305	5 Pcs.	Filter cloth and fleece	290 x 150 x 190 mm	100 µm
95017306	5 Pcs.	Filter cloth and fleece	290 x 150 x 190 mm	800 µm
<b>for recirculation cooling system 45 Ltr. (from year of construction 2013)</b>				
95017307	5 Pcs.	Filter cloth and fleece	250 x 200 x 155 mm	60 µm
95017308	5 Pcs.	Filter cloth and fleece	250 x 200 x 155 mm	100 µm
95017309	5 Pcs.	Filter cloth and fleece	250 x 200 x 155 mm	800 µm



NEW

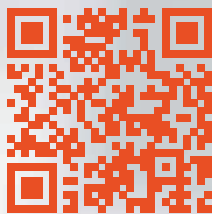
FILTER BASKET			
Dimensions (WxHxD)			
<b>Hanging basket made of stainless steel for the collection of the chip abrasion</b>			
<b>• can be hooked into 45 liter recirculating cooling unit</b>			
Z5800008	1 Pc.	Filter Basket	140 x 80 x 200 mm



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