Industrial supply
Tools catalog

English

Premium grinding tools since 1919
www.tyrolit.com

Cutting

Cutting Information
Angle grinder
Straight grinder
Circular saw
Gas cutting saw
Stationary cutting machines and chop saw

Grinding

Grinding information
Angle grinder
Straight grinder

Brushes

Brushes information
Angle grinder
Straight grinder
Floorstand grinder
Hand-guided grinding

Coated abrasives

Grinding Information
Angle grinder
Straight grinder
Belt grinder
Hand sanding and super finishing

Precision grinding

Floorstand grinding

Notes

Four steps to the **right product**

1. Select the application

e.g. cutting, grinding, etc.

2. Select the machine

e.g. angle grinder, straight grinder, etc.

3. Which material is being machined?

Each performance level is further subdivided into different materials, such as stainless steel, steel, etc.

Items with grey lettering are only available on request.

4. Performance level

We offer 3 different performance levels: Premium, Standard and Basic

Other search options

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TYROLIT Group
A global company

As one of the world's leading manufacturers of bonded grinding, cutting, sawing, drilling and dressing tools and a system supplier of tools and machines for the construction industry, the family-run TYROLIT company has been synonymous with superior quality, innovative spirit and outstanding service since 1919.

Day in, day out the experts at TYROLIT are busy working on solutions that accommodate the individual requirements of customers around the world; thus contributing to their business success. Some 80,000 available products set the standard in various industrial sectors.

Business units

TYROLIT offers its customers cost-efficient and "green" solutions in four business units. Moreover, with its global sales network and a team of experienced application engineers, TYROLIT provides top-quality service.

Trade

Thanks to its global sales network, in addition to premium product solutions in the three core areas of cutting, grinding and finishing, TYROLIT's Trade business unit guarantees truly customer-focused marketing support.

Metal / Precision

From precision machining in the engine and gear industry to the production of cut-off wheels with diameters up to 2,000 mm for the steel industry – the TYROLIT product range in the Metal & Precision business unit includes high-tech tools for a huge variety of applications.

Construction

In the Construction business unit TYROLIT is a leading system supplier of sophisticated drilling systems, wall and wire saws, floor saws and for grinding uneven surfaces such as motorways made of concrete.

Stone–Ceramics–Glass

Our customized diamond tools and grinding solutions in the Stone – Ceramics – Glass business unit cannot fail to impress through their exceptional performance and quality.

Quality and Innovation

TYROLIT is one of the world's market leaders in this sector. For us, maximum precision is paramount – both in the quality of the manufactured products and where innovation is concerned. Continuous further development and improvement of products in all business units is one of our primary corporate objectives.

Expertise for our customers

TYROLIT offers its customers a first-class service in the form of ongoing advice and support. In each of our business units a team of specialists with years of experience in the industry assists and supports our customers worldwide with individual on-site expertise.

Customized products

TYROLIT has a huge and varied product range for numerous fields of application. These include both standard products for everyday use and individually adapted, made-to-order products for customer-specific processes. Together with our customers, we find the most cost-effective solution for the task with which we are entrusted.

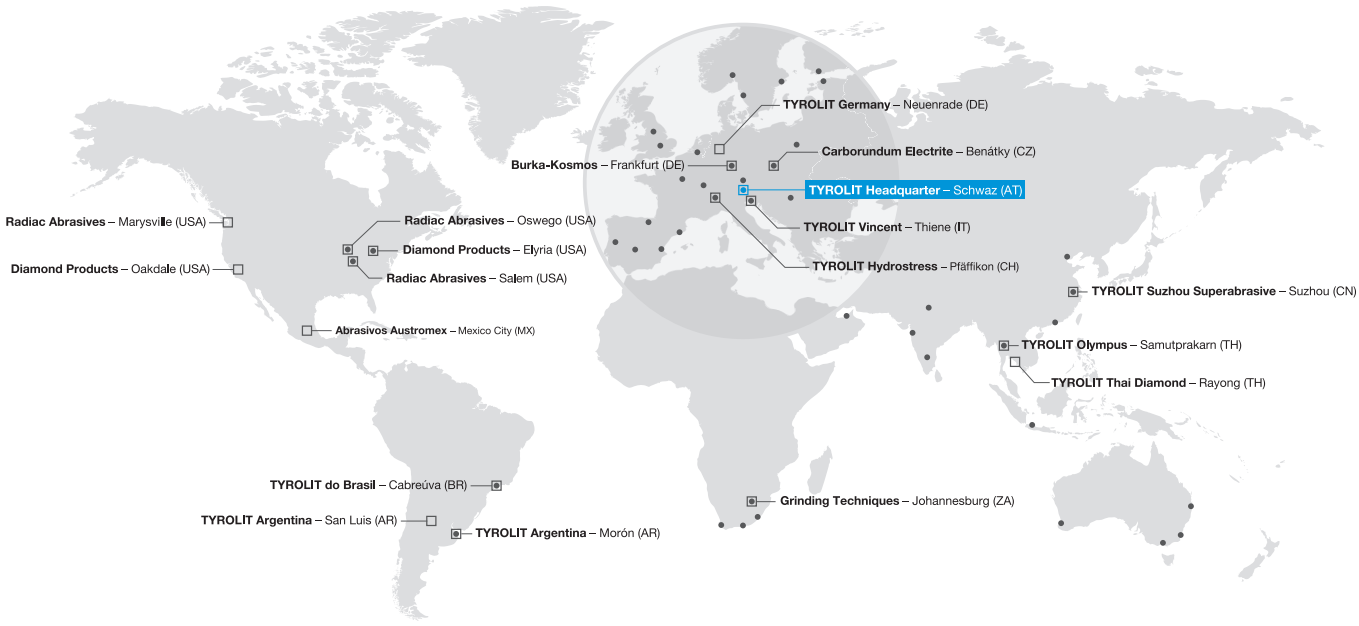
International production and sales locations

TYROLIT is represented in 29 countries through its own production and sales companies and cooperates in a further 65 countries with local partners.

Everyday our several hundred field service colleagues are working hard in the market alongside our end customers, in order to be able to provide them with advice and support whenever they need it. Of course, with these countless visits we constantly witness new challenges for application technology, which we view as opportunities for new products.

Sales companies in Argentina, Australia, Austria, Belgium, Brazil, Canada, China, Czech Republic, Denmark, Estonia, Finland, France, Germany, Hungary, India, Indonesia, Italy, Netherlands, Norway, Poland, Portugal, South Africa, Spain, Sweden, Switzerland, Thailand, UK, UAE and the USA.

Distributors in more than 65 countries across the globe



TYROLIT production locations (sites are only named once)

TYROLIT sales locations (sites are only named once; includes service centres)

Global focus

TYROLIT believes in thinking and acting globally. With a worldwide sales network currently in 65 countries and with production plants in 12 countries, we offer our customers all the advantages of a globally active company.

Local availability

Think globally, act locally – in your local language and right on your premises. This is the principle we follow as we grow hand-in-hand with our customers. Local contacts and technical distribution in numerous countries guarantee you the best possible customer support.

Customer service

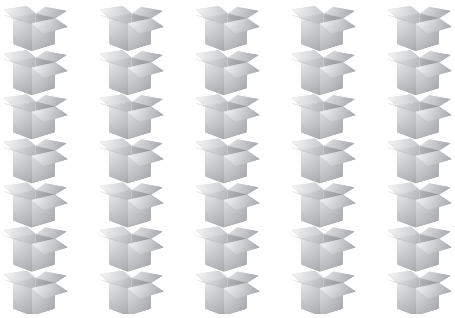
A coordinated supply chain – from production to delivery – guarantees on-time delivery for customers. Moreover, the use of modern planning systems and a team of specialized customer service employees ensures orders are processed quickly and smoothly.

Global logistics

With 10 warehouses around the world, we ensure the best possible product availability for customers 365 days a year.

TYROLIT warehouses

- Argentina
- Brazil
- France
- Spain
- Thailand
- Czech Republic
- Great Britain
- USA
- Austria
- South Africa



3,300,000
consignments leave the Benatky site every year.

7,700,000
consignments leave the Schwaz site every year.

From a good idea
to an excellent product

What happens at TYROLIT
when we get a good idea for a new product?

First of all, our product management team comes to grips with it. We have to find out precisely what is involved. Once our product managers have analyzed all aspects and consider them to be good enough, a well-established process is initiated in which they take a leading role.

Of course, we do not leave our product managers to deal with this mammoth task on their own. To assist them, there are no fewer than 100 colleagues on hand in Research & Development. From fundamental research in the chemistry lab to questions pertaining to physics, whether theoretical or in the form of actual tests in the workshop, our employees in this department are constantly looking for new solutions.

Thus there are over 400 different abrasive types and combinations available to our product managers, which we can integrate in several hundred different bond systems.

From this unimaginable wealth of possibilities, the first test wheels are then produced. We prefer to try many variations so that we can work on a solution in a truly comprehensive way.

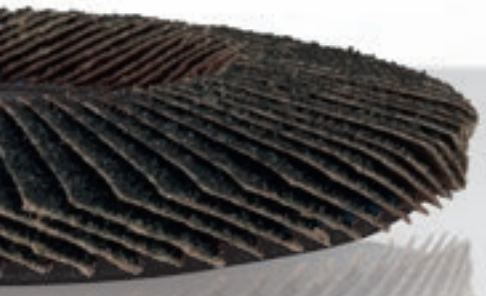
Then testing begins. Not only is the work result tested, but also whether the relevant solution can later be produced in larger quantities. We test whether the prospective products can be produced to a consistently high level of quality, as well as important aspects such as imbalance, lateral load and bursting speed values, to ensure we produce products for our customers that not only demonstrate high quality, but are also safe.

And finally it comes to the material. But not just any material. Here too we are very precise, in order to achieve reliable and above all comparable results. Every test material therefore needs a test certificate.

Once comprehensive testing both off-hand and also with stationary machines has been completed, and the best abrasive grain and bond system have been found, we can start with production.

It is not enough for us to simply start with a new product, we want to guarantee a consistently high level of quality. We owe that to our name and to our customers. For this reason, we continue to take and test samples from every production batch in order to guarantee our high quality standards.

Ultimately it is our most important promise to our customers that we can regularly offer new and excellent innovations at the highest quality level, because that is what the name TYROLIT represents.



Videos

What may often require hours of training can be explained by videos in just a few minutes. We consequently produce new product and demonstration videos on an ongoing basis in order to communicate the advantages of our products quickly and efficiently. As a premium partner, you also benefit from this. Use our videos for your next sales talk and for visits to end customers. You can find all the videos on YouTube under TYROLIT Group. Alternatively, you can also download videos direct from Vimeo.

Online

You can obtain information on our products from our website and our Apprasive app 24 hours a day and, as a premium partner, shop at our B2B Web Shop. Subscribe to our newsletter, and receive information on relevant topics such as new products, campaigns and trade fairs. Not regularly, but only when we actually have something important to say.

Support for in-house exhibitions

To assist at your in-house exhibitions, we come to your premises armed with professional materials, ensuring your end customers get the best possible information.

Joint visits to end customers

In keeping with our motto "Successful together", we accompany premium partners on visits to their most important end customers, and are at your side giving advice and support.

Training courses

With our extensive training program, as a premium partner you will always be up to date to ensure profitable sales with our products.

TYROLIT E-Learning
Online learning made easy

In addition to our regular training program, we now also support you with extensive online courses. TYROLIT e-learning provides you with all the basics that can help you in your everyday sales of TYROLIT products.

Get to know the TYROLIT product range any time, anywhere at your convenience, and then test your knowledge in an online test. We especially recommend our e-learning before attending one of our classroom courses, to build up the relevant basic knowledge beforehand.

TYROLIT e-learning takes you through several stages. In the Learning section, you gain fundamental knowledge in cutting, grinding, brushing, coated abrasives and diamond tools. You can then Take a test to put what you have learned to the test, with eight different multiple-choice question sheets. Finally, complete your e-learning with a final test.

Once you have finished, you will be thoroughly familiar with the basics of conventional abrasives at TYROLIT. Ask your TYROLIT colleague today about free access to our e-learning offerings.

POS – Even with a PREMIUM product, presentation is what brings you that extra turnover!

Despite the increase in online sales, a well equipped showroom is no less important these days. On the contrary: end customers react as we do. Their first impression when they enter your showroom is what counts: if it looks clean, well organized and attractive, they simply feel more at home.

These days, the bandwidth of products in specialist industry retail is enormous. This makes it all the more important to help your staff with sales promotion in their everyday work. Not everyone can know as much about each and every product as our end customers would like.

But we have a lucrative solution to this problem: our growing range of magnetic signs and strips, which can be mounted on existing displays, make it easier to find the right product. And a self-explanatory goods presentation system is your number one shop assistant and a great advertisement for TYROLIT!

Quality lines

TYROLIT has been one of the leading manufacturers of tools for every professional and application for almost 100 years.

To make your search for the ideal tool easier, we have divided our range into three performance levels. This enables us to offer the perfect solution for every application!

★★★
PREMIUM

- Maximum cutting ability and stock removal rate
- Above-average lifetime
- The best work results
- Maximum economic efficiency
- Extensive product range - the perfect product for every application
- Use of the most innovative technology and the best raw materials
- Maximum comfort for the user thanks to low vibration and noise levels

★★
STANDARD

- Excellent cutting ability and stock removal rate
- Excellent service life
- Exceptional work results
- High level of economic efficiency
- Large product range - for the most important applications

★
BASIC

- Good cutting ability and stock removal rate
- Good service life
- Good work results

Symbols

Safety

- Wear gloves
- Wear a mask
- Only permitted for wet grinding
- Not permitted for side grinding
- Wear eye protection
- Wear protective clothing
- Not permitted for wet grinding
- Not permitted for off-hand and hand-guided grinding
- Wear ear protection
- Observe the instructions
- Do not use damaged wheels
- Free from Fe, S, Cl

Material

- Steel
- 2in1 steel/stainless steel
- High-speed steel
- Universal
- Abrasive materials
- 2in1 aluminum/stone
- Rails
- All in One
- Asphalt
- 3in1 cast iron/steel/stainless steel
- Tiles
- Stainless steel
- 2in1 aluminum/stainless steel
- Carbide metal
- Concrete
- Paint/lacquer
- Gel coat
- Plastic
- Marble
- Wood
- Cast iron
- Stone
- Titanium
- Hard stone
- Composites
- Nonferrous metals

Machines

- Belt grinder
- Angle grinder with brush
- Gas cutting saw
- Chop saw
- Floorstand grinder
- Angle grinder
- Hand-guided grinding
- Circular saw
- Angle grinder with cup wheel
- Pneumatic angle grinder
- Straight grinder
- Stationary cutting machine

TYROLIT

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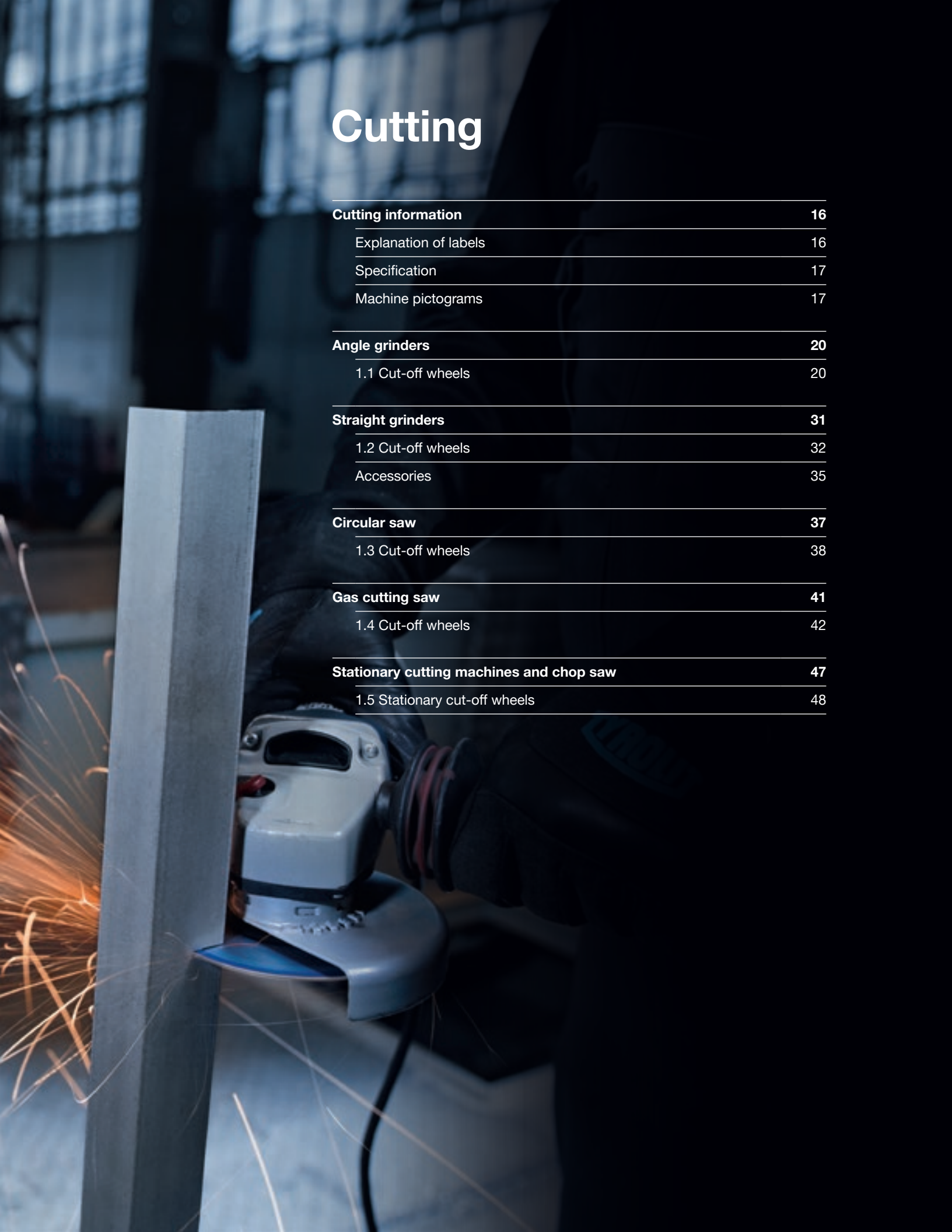
Notes



Cutting

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Specific information
Resin-bonded cut-off wheels

Cut-off wheels product label

Max. speed

Performance level

Application and safety pictograms

Type number

Material suitability

Registered trademark

Expiry date

Dimensions DxTxH in mm and inches

Shape and specification

EAN code

Color codes

Label	Steel	2in1	INOX	Nonferrous metals	Cast iron	Stone
Color code	Blue	Blue	Red	Orange	Purple	Green
Material	Steel	2in1 = Steel and stainless steel, 3in1 = Steel, stainless steel and cast iron	Stainless steel	Aluminum, copper, zinc, brass, bronze, stone	Cast materials	Stone

Cut-off wheels specification

A46N-BFXA

A	External reinforcement: with external reinforcement
X	TYROLIT internal designation
F	Fibre-reinforced: Fibre glass (safety, lateral load, operating speed)
B	Bond: V = vitrified bonded, B = resin bonded, E = elastic bonded, G = galvanic bonded
N	Designation of hardness: N = soft – T = hard
46	Grit size indication in mesh (sieve size per inch) 14 - 36 coarse 46 - 60 medium 80 - 220 fine 800 - 1200 very fine Grit size in mesh
A	Abrasive: A ... Regular aluminum oxide, C ... Silicon carbide, ZA ... Zirconia alumina, CA ... Ceramic

Pictograms for machines

Angle grinder

Straight grinder

Circular saw

Gas cutting saw

Chop saw

Stationary cutting machines

TROLLY

1.1 Angle grinder
Cut-off wheels

Cut-off wheels **for angle grinders**

Working with an angle grinder is one of the most important processes in the handicraft and industrial sectors for machining all types of metals. TYROLIT offers the ideal cut-off wheels for convenient and quick use with small and large angle grinders.

The benefits of our cut-off wheels in terms of innovation and economy can be clearly seen when it comes to cutting thin metal sheets and profiles. Our PREMIUM products in particular offer you the ultimate performance and lifetime, very clean cutting areas and low thermal load. This means there is only a limited amount of rework required, saving you time and money.

However, the highest priority here at TYROLIT is the health of our customers. TYROLIT cut-off wheels therefore meet the highest safety standards and contribute significantly to improving your working conditions. Reduced vibration and noise considerably improve your level of comfort while working.

On the following pages you will find the perfect tool for your requirements thanks to the uniform color code for all materials.

Shapes

1 Cut-off wheels (straight design)

27 Cut-off wheel (depressed-center design)

Application recommendation

Performance Level	Specification	Design	Steel	2in1	Stainless steel	NF metals	Pages
★★★ PREMIUM	A60S-BFKA	LONGLIFE	●				22
	A46S-BFKA	LONGLIFE	●				22
	A30S-BFXA	LONGLIFE	●				22/23
	TA60P-BFXA			●			24/25
	A60Q-BFKA			●			24
	A46Q-BFKA			●			24
	CA60Q-BFKA	CERABOND		●			26
	CA46Q-BFKA	CERABOND		●			26
	CA30Q-BFKA	CERABOND		●			26
	A46Q-BFXA			●			27
	A60R-BFKA				●		28
	A46R-BFKA				●		28
	A30R-BFKA				●		28
	A60N-BFXA					●	29
	A46N-BFXA					●	29
★ BASIC	A60Q-BF			●			27
	A46Q-BF			●			27
	A30Q-BF			●			27

★★★ PREMIUM

Cut-off wheels

Super-thin LONGLIFE cut-off wheels for steel

+ **Enhanced economic efficiency**
Significant increase in lifetime and cutting ability, which is particularly evident in their first-cut performance. The wheel delivers the best results with shorter cutting times right from the very first cut.

+ **Reduced working times**
A low load on the workpiece and short cutting times allow you to quickly achieve the best result. No supplementary reworking, such as cleaning or deburring.

+ **Maximum comfort while working**
The tool operates consistently and without a jamming tendency, producing 30% less cutting dust. Additional sound and vibration damping are features that make the super-thin TYROLIT cut-off wheels a safe and convenient tool.

The next generation of TYROLIT PREMIUM*** cut-off wheels achieves a better performance than other PREMIUM wheels, and with considerably reduced tool wear. In thicknesses of 1.0 to 1.6 mm, these super-thin cut-off wheels are suitable for all types of steel and impress with exceptional results without compromise. As well as a clear improvement in productivity, these cut-off wheels also promote environmentally friendly use thanks to reduced waste production.

★★★ PREMIUM

Cut-off wheels

Super-thin LONGLIFE cut-off wheels for steel

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34163158	34163158	4 1/2“x.040“x7/8“	A60S-BFKA	13,300	25
		34163160	34163160	4 1/2“x.060“x7/8“	A46S-BFKA	13,300	25
		34163159	34163159	5“x.040“x7/8“	A60S-BFKA	12,250	25
		34163161	34163161	5“x.060“x7/8“	A46S-BFKA	12,250	25
		34331311	34331311	6"x.045"7/8"	A46S-BFKA	10,200	25
		34163163	34163163	7“x.060“x7/8“	A46S-BFKA	8,600	25
		34331318	34331318	9“x.075“x7/8“	A30S-BFKA	6,650	25

▶

Shape		Type no. new	Dimension	Specification	RPM	PU
	27	34332418	4 1/2“x3/32“x7/8“	A30S-BFXA	13,300	25
		34333889	4 1/2“x3/32“x5/8-11“	A30S-BFXA	13,300	5
		34332900	5“x3/32“x7/8“	A30S-BFXA	12,250	25
		34333890	5“x3/32“x5/8-11“	A30S-BFXA	12,250	5
		34332921	7“x1/8“x7/8“	A30S-BFXA	8,600	25
		34333901	7“x1/8“x5/8-11“	A30S-BFXA	8,600	5
		34332922	9“x1/8“x7/8“	A30S-BFXA	6,650	25
		34333902	9“x1/8“x5/8-11“	A30S-BFXA	6,650	5

★★★
PREMIUM

Cut-off wheels

Super-thin 2in1 cut-off wheels for steel and stainless steel

+ **Enhanced economic efficiency**
Significant increase in lifetime and cutting ability, which is particularly evident in their first-cut performance. The wheel delivers the best results with shorter cutting times right from the very first cut.

+ **Reduced working times**
A low load on the workpiece and short cutting times allow you to quickly achieve the best result. No supplementary reworking, such as cleaning or deburring.

+ **Maximum comfort while working**
The tool operates consistently and without a jamming tendency, producing 30% less cutting dust. Additional sound and vibration damping are features that make the super-thin TYROLIT cut-off wheels a safe and convenient tool.

With the next generation PREMIUM*** 2in1 cut-off wheels you can enhance performance while significantly reducing tool wear. In thicknesses of 1.0 to 1.6 mm, these super-thin 2in1 cut-off wheels have been developed for machining steel and stainless steel. The chemical purity makes this tool ideal for machining stainless steel. In this way, impairments to the material, such as corrosion, pitting corrosion or a reduction in the fatigue strength, can be avoided. As well as a clear improvement in productivity, these cut-off wheels also promote environmentally friendly use thanks to reduced waste production.

★★★ PREMIUM

Cut-off wheels

Super-thin 2in1 cut-off wheels for steel and stainless steel

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34162818	34162818	4 1/2“x.040“x7/8“	A60Q-BFKA	13,300	25
		34162816	34162816	4 1/2“x.045“x7/8“	TA60P-BFXA	13,300	25
		34162820	34162820	4 1/2“x.060“x7/8“	A60Q-BFKA	13,300	25
		34162819	34162819	5“x.040“x7/8“	A60Q-BFKA	12,250	25
		34162817	34162817	5“x.045“x7/8“	TA60P-BFXA	12,250	25
		34162821	34162821	5“x.060“x7/8“	A46Q-BFKA	12,250	25
		34331319		6“x.045“x7/8“	A46Q-BFKA	10,200	25
		34162823	34162823	6“x.060“x7/8“	A46Q-BFXA	10,200	25
		34162825	34162825	7“x.060“x7/8“	A46Q-BFKA	8,600	25
		34331346		9“x.075“x7/8“	A30Q-BFXA	6,650	25
	27	34162799	34162799	4 1/2“x3/32“x7/8“	A30Q-BFXA	13,300	25
		34162798	34162798	4 1/2“x3/32“x5/8-11“	A30Q-BFXA	13,300	5
		34162811	34162811	5“x3/32“x7/8“	A30Q-BFXA	12,250	25
		34162800	34162800	5“x3/32“x5/8-11“	A30Q-BFXA	12,250	5
		34162813	34162813	6“x1/8“x7/8“	A30Q-BFXA	10,200	25
		34162812	34162812	6“x1/8“x5/8-11“	A30Q-BFXA	10,200	5
		34162815	34162815	7“x1/8“x7/8“	A30Q-BFXA	8,600	25
		34162814	34162814	7“x1/8“x5/8-11“	A30Q-BFXA	8,600	5

★★★ PREMIUM

Cut-off wheels

2in1 with DEEP Cut Protection for steel and stainless steel

+ **Enhanced safety**
The DEEP Cut protection metal bushing we have developed prevents the crown being removed from the wheel and thus a break out of the bore.

+ **Greater economic efficiency**
The longer range of application means that wheel changes are reduced.

+ **Versatile application options**
It is ideal for small sheet metal, profile and pipe cross-sections. Rods and metal reinforcements can also be cut effortlessly.

Using newly developed technology and new materials we have succeeded in taking another step towards improved user safety. The PREMIUM*** cut-off wheel with DEEP Cut Protection enables the user to achieve maximum insertion depths into the workpiece without damaging the wheel. There is no risk of sharp workpiece edges removing the crown.

★★★ PREMIUM

Cut-off wheels

2in1 with DEEP Cut Protection for steel and stainless steel

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27	34332928	34042238	4 1/2“x.045“x7/8“	TA60P-BFXA	13,300	25
		34332929	34042239	5“x.045“x7/8“	TA60P-BFXA	12,250	25
		34332930	34042240	6“x.045“x7/8“	TA60P-BFXA	10,200	25

★★★ PREMIUM

CERABOND Cut-off wheels

2in1 for steel and stainless steel

+ **Shorter working processes**
Working times are substantially reduced through improved abrasiveness.

+ **Improved productivity**
A special structural composition offers maximum system performance.

+ **Lower production costs**
The unique bond technology, optimized for ceramic grain, prevents the grain break-out and leads to a longer lifetime for the tool.

TYROLIT FILM
The product film can be found on YouTube at **www.youtube.com/TYROLITgroup**

The CERABOND bond system developed by TYROLIT combines an easy cutting ceramic grain with a unique bond structure. This prevents premature break-out of the grain and increases the abrasiveness many times over. The CERABOND cut-off wheel range is particularly suitable for optimum machining of extremely hard, sophisticated workpieces and solid materials. The range stands for a long lifetime and shorter working processes with maximum economic efficiency.

Through the introduction of the 0.40" cut-off wheel with CERABOND system, the product family has been extended by a powerful member. The CERABOND product line has thus been completed and is now available in the specialist retail worldwide.

★★★ PREMIUM

CERABOND Cut-off wheels

2in1 for steel and stainless steel

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34332941		4 1/2“x.040“x7/8“	CA60Q-BFKA	13,300	15
		34332942	34059903	4 1/2“x.045“x7/8“	CA60Q-BFKA	13,300	15
		34332943		5“x.040“x7/8“	CA60Q-BFKA	12,250	15
		34332944	34059904	5“x.045“x7/8“	CA60Q-BFKA	12,250	15
		34332945	34059905	6“x.045“x7/8“	CA60Q-BFKA	10,200	15
		34332946	34059906	7“x.060“x7/8“	CA46Q-BFKA	8,600	15
		34332947	34059907	9“x.075“x7/8“	CA30Q-BFKA	6,650	15
	27	34332915	34059908	4 1/2“x.045“x7/8“	CA60Q-BFKA	13,300	15
		34332916	34059909	5“x.045“x7/8“	CA60Q-BFKA	12,250	15
		34332917	34059910	6“x.045“x7/8“	CA60Q-BFKA	10,200	15

★★★ PREMIUM

CUT AND GRIND

With DEEP Cut Protection for steel and stainless steel

With the introduction of the PREMIUM*** CUT AND GRIND it has become possible to perform applications such as grinding, deburring and shaping as well as cutting and plunging with only one tool. TYROLIT has refined this technology. The wheels now have a thinner width of 2.0 mm and offer additional safety for the user with the new DEEP Cut Protection. The risk of sharp workpiece edges removing the crown from the wheel and the consequent break out of the bore is prevented.

Shape		Type no.	Dimension	Specification	RPM	PU
	27	34337537	4 1/2“x.075“x7/8“	A46Q-BFXA	13,300	25
		34337538	5“x.075“x7/8“	A46Q-BFXA	12,250	25

★ BASIC

Cut-off wheels

2in1 for steel and stainless steel

This tool is designed for use on both steel and stainless steel. Our BASIC* cut-off wheel 2in1 has an excellent lifetime and stability. The tool is suitable for cutting metal sheets, profiles, pipes, rods and solid material.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34163027	34163027	4“x.040“x5/8“	A60Q-BF	15,300	25
		396110	396110	4 1/2“x.040“x7/8“	A60Q-BF	13,300	25
		34162827	34162827	5“x.040“x7/8“	A60Q-BF	12,250	25
		34331611	591956	6“x.045“x7/8“	A46Q-BF	10,200	25
		34162828	34162828	6“x.060“x7/8“	A46Q-BF	10,200	25
		34162829	34162829	7“x.060“x7/8“	A46Q-BF	8,600	25
		34162830	34162830	9"x.075"x7/8"	A46Q-BF	6,650	25
	27	34331624	34162831	4 1/2“x.040“x7/8“	A60Q-BF	13,300	25
		396486	396486	4 1/2"x3/32"x7/8"	A30Q-BF	13,300	25
		34162835	34162835	4 1/2"x3/32"x5/8-11"	A30Q-BF	13,300	5
		34331626	34162832	5“x.040“x7/8“	A60Q-BF	12,250	25
		396487	396487	5"x3/32"x7/8"	A30Q-BF	12,250	25
		34162837	34162837	5"x3/32"x5/8-11"	A30Q-BF	12,250	5
		34331654	34162833	6“x.060“x7/8“	A46Q-BF	10,200	25

★★★ PREMIUM

Cut-off wheels

Super-thin cut-off wheels for stainless steel

+ **Enhanced performance**
Enormous improvement in performance through a newly available specification and a new thickness of 1.2 mm.

+ **Sustainability**
Through the high performance levels of our cut-off wheels, wheel consumption is reduced and the environment is protected.

+ **Reduced working times**
Cutting times are significantly reduced when used on aluminum, aluminum bronze, aluminum base alloys, copper, bronze, brass, nickel silver and titanium.

In order to cut nonferrous metals, the tool must have a high cutting ability. To this end, TYROLIT has developed a special formula and production method in order to achieve short cutting times with NF metals too. New specifications prevent the clogging and dulling of the grinding wheel which used to be a common result of material abrasion.

★★★ PREMIUM

Cut-off wheels

Super-thin cut-off wheels for stainless steel

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34163112	34163112	4 1/2“x.030“x7/8“	A60R-BFXA	13,300	25
		34163117	34163117	4 1/2“x.040“x7/8“	A60R-BFKA	13,300	25
		34163135	34163135	4 1/2“x.060“x7/8“	A46R-BFKA	13,300	25
		34163116	34163116	5“x.030“x7/8“	A60R-BFXA	12,250	25
		34163134	34163134	5“x.040“x7/8“	A60R-BFKA	12,250	25
		34163136	34163136	5“x.060“x7/8“	A46R-BFKA	12,250	25
		34163138	34163138	6“x.045“x7/8“	A46R-BFKA	10,200	25
		34163140	34163140	7“x.060“x7/8“	A46R-BFKA	8,600	25
		34163151	34163151	9“x.075“x7/8“	A30R-BFKA	6,650	25
	27	34163152	34163152	4 1/2“x.030“x7/8“	A60R-BFXA	13,300	25
		34163154	34163154	4 1/2“x.060“x7/8“	A46R-BFKA	13,300	25
		34163153	34163153	5“x.030“x7/8“	A60R-BFXA	12,250	25
		34163155	34163155	5“x.060“x7/8“	A46R-BFKA	12,250	25
		34163156	34163156	6“x.060“x7/8“	A46R-BFKA	10,200	25
		34163157	34163157	7“x.060“x7/8“	A46R-BFKA	8,600	25

★★★ PREMIUM

Cut-off wheels

For nonferrous metals

+ **Enhanced performance**
Enormous improvement in performance through a newly available specification and a new thickness of 1.2 mm.

+ **Sustainability**
Through the high performance levels of our cut-off wheels, wheel consumption is reduced and the environment is protected.

+ **Reduced working times**
Cutting times are significantly reduced when used on aluminum, aluminum bronze, aluminum base alloys, copper, bronze, brass, nickel silver and titanium.

In order to cut nonferrous metals, the tool must have a high cutting ability. To this end, TYROLIT has developed a special formula and production method in order to achieve short cutting times with NF metals too. New specifications prevent the clogging and dulling of the grinding wheel which used to be a common result of material abrasion.

★★★ PREMIUM

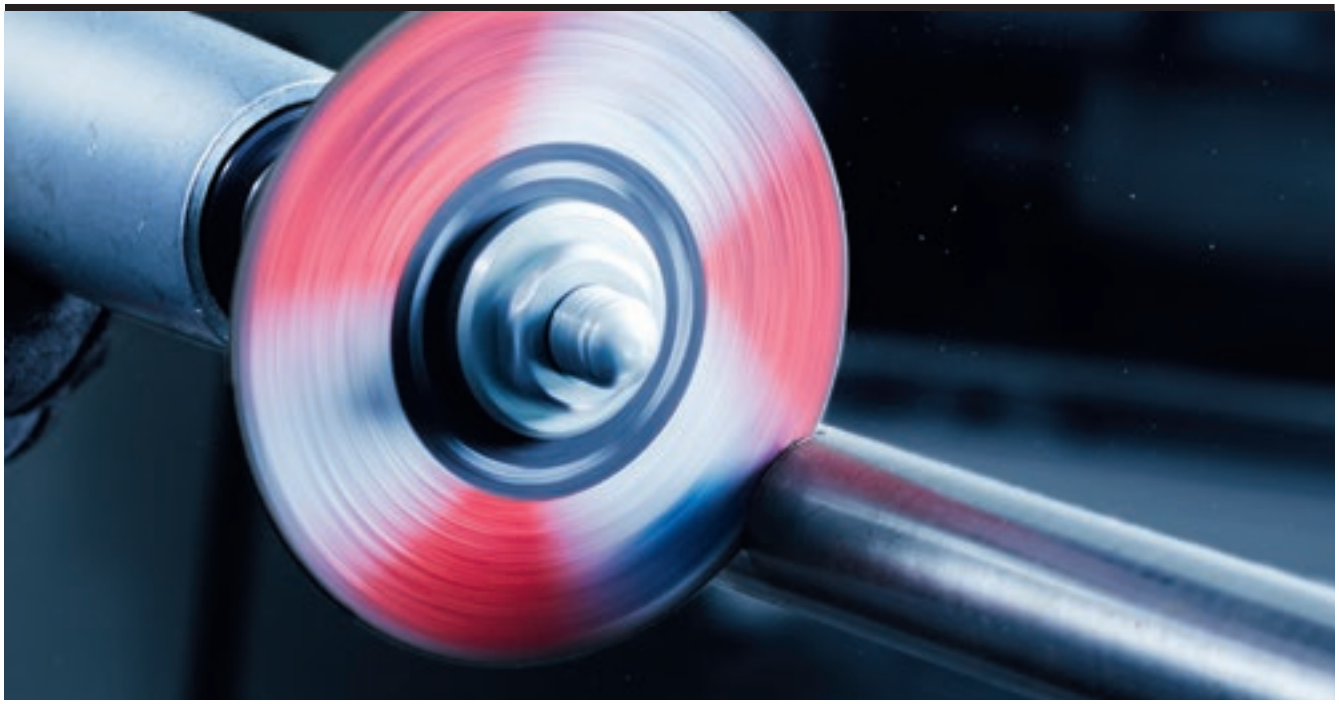
Cut-off wheels

For nonferrous metals

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34163165	34163165	4 1/2“x.040“x7/8“	A60N-BFXA	13,300	25
		34331659		4 1/2“x.060“x7/8“	A46N-BFXA	13,300	25
		34163166	34163166	5“x.040“x7/8“	A60N-BFXA	12,250	25
		34331663		5“x.060“x7/8“	A46N-BFXA	12,250	25
		34163167	34163167	6“x.045“x7/8“	A46N-BFXA	10,200	25

BOLT

1.2 Cut-off wheels **for straight grinders**



Cut-off wheels **for straight grinders**

Straight grinders are always in high demand when precise results are required on difficult-to-access areas. Their versatile application options make straight grinders a popular tool.

In order to fulfil the high standards it sets for itself, TYROLIT has developed wheels for particularly quick low-burr cutting with maximum lifetimes. These high-performance tools are perfect for cutting metal sheets, profiles, pipes and rods even in difficult-to access locations. For TYROLIT, the most stringent safety standards for our cut-off wheels – as with all of our products – are of the highest priority. Reduced vibration and noise considerably improve your level of comfort while working.
On the following pages you will find the perfect tool for your requirements thanks to the uniform color code for all materials.

Shapes

1 Cut-off wheels
(straight design)

Application recommendation

Performance Level	Specification	2in1	Pages
★ BASIC	A36TBF	●	34
	A60TBF	●	34

★ BASIC

Cut-off wheels

For steel and stainless steel

+ **Maximum economic efficiency**
  For fast, convenient cutting with the longest lifetime.

+ **Universal use**
  Designed for steel and stainless steel applications and delivering the best results.

The chemical purity of this tool is a requirement of machining stainless steel in order to avoid impairments to the material, such as corrosion, pitting corrosion or a reduction in the fatigue strength. The BASIC* cut-off wheel in small diameters is designed for use on straight grinders.

This tool is suitable for cutting metal sheets, profiles, pipes, rods and solid material.

★ BASIC

Cut-off wheels

For steel and stainless steel

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
1	34312885	20008031	3"x1/32"x1/4"	A60TBF	25,000	75
	34312886	20006719	3"x1/32"x3/8"	A60TBF	25,000	75
	34312842	20008032	3"x1/16"x1/4"	A36TBF	25,000	100
	34312887	20006720	3"x1/16"x1/4"	A60TBF	25,000	40
	34312843	20006721	3"x1/16"x3/8"	A36TBF	25,000	40
	34312888	20008026	3"x1/16"x3/8"	A60TBF	25,000	40
	34312844	20010548	3"x3/32"x1/4"	A36TBF	25,000	25
	34312890	20010566	3"x3/32"x1/4"	A60TBF	25,000	25
	34312846	20006735	3"x3/32"x3/8"	A36TBF	25,000	50
	34312892	20006736	3"x3/32"x3/8"	A60TBF	25,000	50

▶

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34312848	20006737	3"x1/8"x3/8"	A36TBF	25,000	50
		34312895	20006722	3"x1/8"x3/8"	A60TBF	25,000	50
		34312898	20006723	4"x1/32"x1/4"	A60TBF	19,100	100
		34312899	20006724	4"x1/32"x3/8"	A60TBF	19,100	75
		34312902	20006725	4"x1/32"x5/8"	A60TBF	19,100	75
		34312855	20006726	4"x1/16"x1/4"	A36TBF	19,100	100
		34312904	20006727	4"x1/16"x1/4"	A60TBF	19,100	100
		34312856	20006728	4"x1/16"x3/8"	A36TBF	19,100	40
		34312905	20006729	4"x1/16"x3/8"	A60TBF	19,100	100
		34312857	20006730	4"x1/16"x5/8"	A36TBF	19,100	40
		34312908	20006731	4"x1/16"x5/8"	A60TBF	19,100	40
		34312909	20010573	4"x1/16"x3/4	A60TBF	19,100	40
		34312863	20010556	4"x3/32"x5/8"	A36TBF	19,100	25
		34312929	20010577	4"x3/32"x5/8"	A60TBF	19,100	25
		34312862	20006738	4"x3/32"x3/8"	A36TBF	19,100	25
		34312928	20006739	4"x3/32"x3/8"	A60TBF	19,100	50
		34312858	20010554	4"x1/8"x1/4"	A36TBF	19,100	25
		34312923	20010574	4"x1/8"x1/4"	A60TBF	19,100	25
		34312859	20006732	4"x1/8"x3/8"	A36TBF	19,100	25
		34312925	20006733	4"x1/8"x3/8"	A60TBF	19,100	50

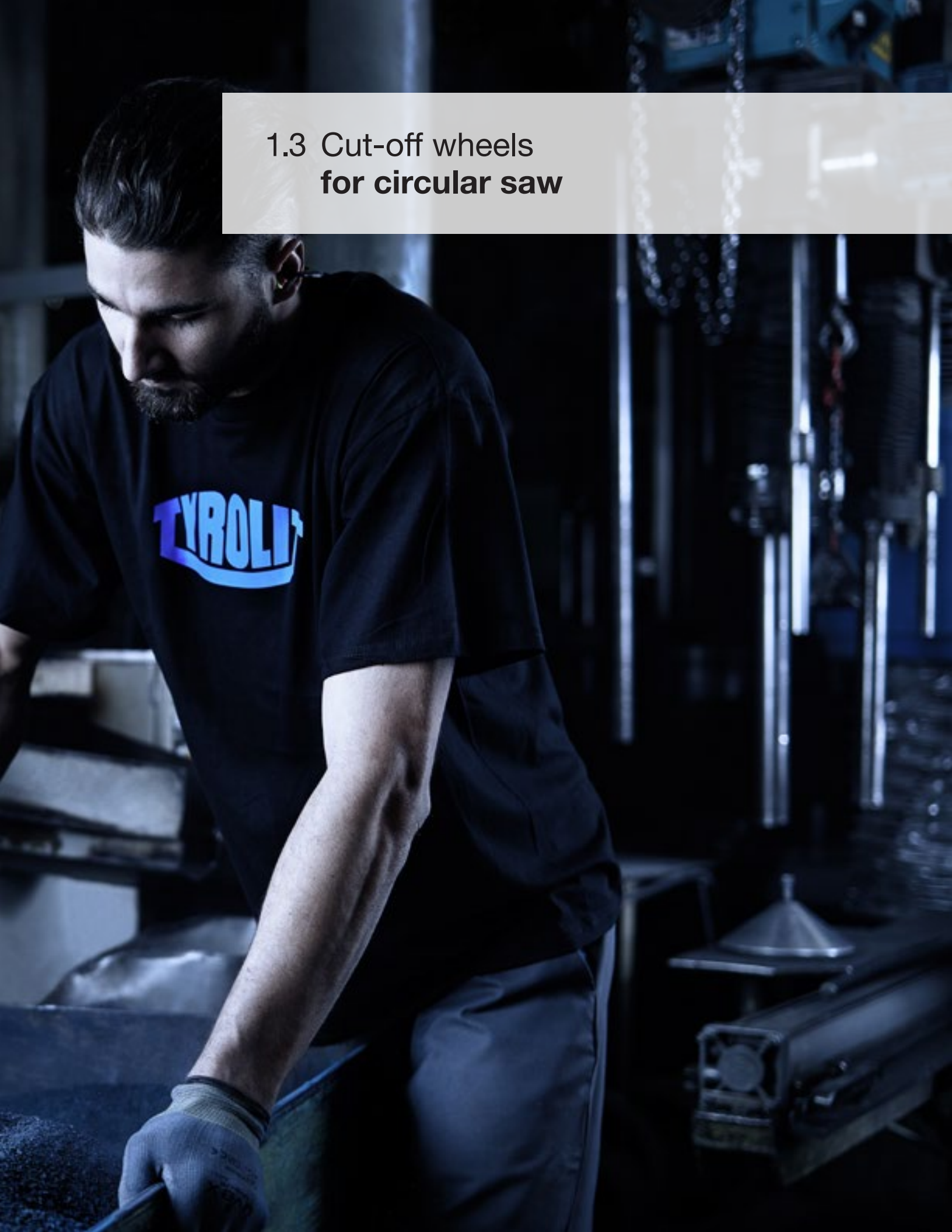
Accessories

For cut-off wheels with a small diameter

These accessories enable cut-off wheels with small diameters to be clamped onto straight grinders. Easy handling and the highest possible levels of safety are guaranteed for the operator. Please observe the maximum permissible speed.

	Type no.	Description	PU
	20021895	Flush-Mount Mandrel for wheels - 1/4 or 3/8 arbour holes	1

1.3 Cut-off wheels **for circular saw**



Cut-off wheels **for circular saw**

Circular saw wheels are commonly used by the professional contractor for both metal and concrete applications.

These tools are typically used on building or job sites where the circular saw is a common tool. Tyrolit's circular saw wheels are designed to meet the demands of the professional contractor.

On the following pages you will find the perfect tool for your requirements thanks to the uniform color code for all materials.

Shapes

1 Cut-off wheels (straight design)

Application recommendation

Performance Level	Specification	Steel	Stone	Pages
★ BASIC	A30S-BF	●		39
	C30S-BF		●	39

★ BASIC

Cut-off wheels
For steel

Our A30S-BF is specially designed for metal-cutting applications such as sheet metal, shapes, and profiles. Despite extreme application conditions, such as humidity, cold and temperature fluctuations, the steel cut-off wheel from TYROLIT offers short cutting times coupled with minimal effort. Exceptionally clean, non-discolored surfaces reduce reworking tasks and working times. Developed for use on circular saws.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34301855	20006710	7"x1/8"x<>(5/8)"	A30S-BF	8,600	25
		34301859	20006711	8"x1/8"x<>(5/8)"	A30S-BF	7,650	25

★ BASIC

Cut-off wheels
For stone

Our C30S-BF is specially designed for fast cutting of concrete, brick, block, and other masonry products. The stone cut-off wheel from TYROLIT offers short cutting times coupled with minimal effort. Exceptionally clean, non-discolored surfaces reduce reworking tasks and working times. Developed for use on circular saws.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34301858	20006713	7"x1/8"x<>(5/8)"	C30S-BF	8,600	25
		34342488	20006714	8"x1/8"x<>(5/8)"	C30S-BF	7,650	25

1.4 Cut-off wheels **for gas cutting saws**

Cut-off wheels **for gas saws**

Cutting materials on building sites with no electricity or limited infrastructure is a common challenge. Whether the material is reinforced steel, pipes or rails, a gas-powered cut-off grinder provides a quick and efficient solution. Gas cutting saws are particularly popular machines for cutting large cross-sections and are frequently used tools.

TYROLIT offers the perfect tools for these varied cutting tasks. Whether for use on steel, stainless steel, stone or rails, thanks to the clear color coding and application tips, you will always be able to find the right product for your application and the material to be cut. TYROLIT guarantees optimum cutting results and maximum levels of safety in all situations.

Shapes

1 Cut-off wheels
(straight design)

Application recommendation

Performance Level	Specification	Steel	Rails	Stone	Cast iron	Ductile	Asphalt	Pages
★ BASIC	A30S-BF	●						44
	A30S-BF100	●						44
	A30S-BFRAIL 100		●					45
	AC30U-BF				●	●	●	45
	AC30U-BF100				●	●	●	45
	C30S-BF			●				45
	C30S-BF100			●				45

★ BASIC

Cut-off wheels

For steel

+ **Reduced working times**
Working times are reduced due to its good cutting ability.

+ **Universal use**
It is possible to cut profiles, solid material and large cross-sections.

+ **Less rework**
Clean, non-discolored surfaces reduce reworking tasks for the operator.

The BASIC* cut-off wheel for steel is suitable for cutting profiles, solid material and large cross-sections due to its design with two external reinforcements. With the BASIC* wheel, you can achieve reduced cutting times coupled with minimal effort. Developed for use on manual cut-off machines with electric or petrol engines. Suitable for pure off-hand and guided off-hand applications.

★ BASIC

Cut-off wheels

For steel

Shape		Type no.	Dimension	Specification	RPM	PU
	1	34169155	12"x1/8"x1"-20mm UB	A30S-BF	5,500	10
		34169156	14"x1/8"x1"-20mm UB	A30S-BF100	5,100	10
		34169157	16"x1/8"x1"-20mm UB	A30S-BF100	4,700	10

★ BASIC

Cut-off wheels
For rails

This wheel has been developed specially based on specifications for cutting rails. Despite extreme application conditions, such as humidity, cold and temperature fluctuations, the rail cut-off wheel from TYROLIT offers short cutting times coupled with minimal effort. Exceptionally clean, non-discolored surfaces reduce reworking tasks and working times. Developed for use on manual cut-off machines with electric or gas engines. Suitable for pure off-hand and guided off-hand applications.

Shape		Type no.	Dimension	Specification	RPM	PU
	1	34163819	14"x1/8"x1"	A30S-BFRAIL 100	5,100	10
		34163820	16"x1/8"x1"	A30S-BFRAIL 100	4,700	10

★ BASIC

Cut-off wheels
For cast iron and ductile

The TYROLIT BASIC cut-off wheels for asphalt, ductile iron, and cast iron are produced using a blend of aluminum oxide and silicon carbide grains. All TYROLIT BASIC cut-off wheels for high speed gas saws are designed with three layers of fiberglass to provide ultimate safety and stability. The AC wheels offer exception life and reduced cutting times.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34169183	34169183	12"x1/8"x1"-20mm UB	AC30U-BF	5,500	10
		34169184	34169184	14"x1/8"x1"-20mm UB	AC30U-BF100	5,100	10
		34169185	34169185	16"x1/8"x1"-20mm UB	AC30U-BF100	4,700	10

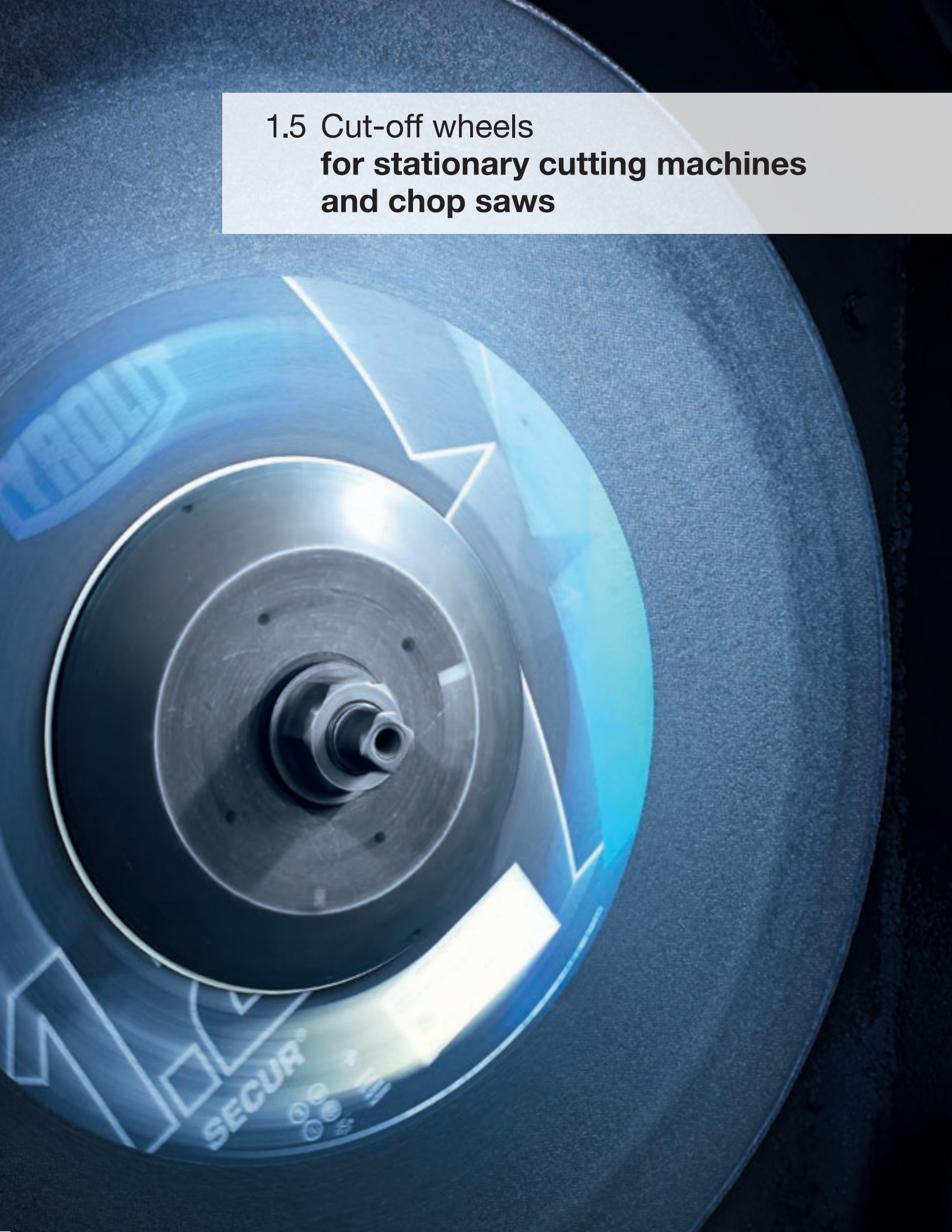
★ BASIC

Cut-off wheels
For stone

The technology from TYROLIT makes it possible to use three layers of reinforcements for cutting solid material and large cross-sections. The BASIC* cut-off wheel therefore offers good stability and cutting ability, reducing the work of the operator. Developed for use on manual cut-off machines with electric or petrol engines. Suitable for pure off-hand and guided off-hand applications.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34169159	34169159	12"x1/8"x1"-20mm UB	C30S-BF	5,500	10
		34169160	34169160	14"x1/8"x1"-20mm UB	C30S-BF100	5,100	10
		34169182	34169182	16"x1/8"x1"-20mm UB	C30S-BF100	4,700	10

1.5 Cut-off wheels **for stationary cutting machines and chop saws**



Cut-off wheels
for stationary cutting machines and chop saws

Stationary cutting machines are most commonly used in workshops. They ensure precision cutting of all materials, regardless of diameter.

TYROLIT offers cut off wheels with reinforcement, cut-off wheels with reinforcement that can be used to cut profiles, pipes and solid material. Whether for use on steel, stainless steel, stone or rails, thanks to the clear color coding and application tips, you will always be able to find the right product for your application and the material to be cut.

TYROLIT guarantees optimum cutting results and maximum levels of safety in all situations.

Shapes

1 Cut-off wheels (straight design)

Application recommendation chop saws

Performance Level	Specification	Steel	NF metals	Pages
★★★ PREMIUM	A30P4BF59M		●	50
★ BASIC	A36S-BF	●		51

Application recommendation stationary cutting

Performance Level	Specification	Stone	Stone	Pages
★ BASIC	C30S-BF	●		51
	A30S-BF		●	51

★★★ PREMIUM

Cut-off wheels

For nonferrous metals

+ **Reduced working times**
Cutting times are reduced when used on aluminum, aluminum bronze, aluminum base alloys, copper, bronze, brass, nickel silver and titanium.

+ **Enhanced performance**
Enormous improvement in performance through a newly available specification and a new thickness of 1.2 mm.

+ **Reduced working times**
Using a special specification, clogging of the wheel is prevented and the need for wheel changes is also reduced.

In order to cut nonferrous metals, the tool must have a high cutting ability. To this end, TYROLIT has developed a special formula and production method in order to be able to perform stationary cutting on NF metals too. New specifications prevent the clogging and dulling of the grinding wheel which used to be a common result of material abrasion.

As with all TYROLIT PREMIUM*** cut-off wheels, this tool has been optimized to achieve the best possible cutting ability and lifetime.

★★★ PREMIUM

Cut-off wheels

For nonferrous metals

Shape		Type no.	Dimension	Specification	RPM	PU
	1	34333754	12"x1/8"x1"	A30P4BF59M	5,100	10
		34337539	14"x1/8"x1"	A30O4BF59M	4,400	10

★ BASIC

Cut-off wheels
For steel

This special tool is ideal for cutting workpieces with large cross-sections, as well as solid material and profiles. The internal reinforcement and rough side surfaces enable low burr cutting of workpieces.

As with all TYROLIT BASIC* cut-off wheels, this tool has been optimized to achieve excellent cutting ability and lifetime.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34301872	30013029	12"x3/32"x1"	A36S-BF	5,100	10
		34301875	20006707	12"x7/64"x1"	A36S-BF	5,100	10
		34301891	30011735	14"x3/32"x1"	A36S-BF	4,400	10
		34301893	20006708	14"x7/64"x1"	A36S-BF	4,400	10
		34301895	30013030	16"x3/32"x1"	A36S-BF	3,850	10
		34301896	20006709	16"x7/64"x1"	A36S-BF	3,850	10

★ BASIC

Cut-off wheels
For stone

With this tool you obtain the ideal solution for stationary cutting of common building materials. This BASIC* cut-off wheel achieves the best results for large cross-sections due to its excellent cutting ability that reduces the work of the operator. As with all TYROLIT BASIC* cut-off wheels, this tool has been optimized to achieve the best possible cutting ability and lifetime.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34337103	20006706	12"x1/8"x1"	C30S-BF	5,100	10
		34301894	20008024	14"x1/8"x1"	C30S-BF	4,400	10

★ BASIC

Cut-off wheels
For steel

This special tool is ideal for cutting workpieces with large cross-sections, as well as solid material and profiles. The internal reinforcement and rough side surfaces enable low burr cutting of workpieces.

As with all TYROLIT BASIC* cut-off wheels, this tool has been optimized to achieve excellent cutting ability and lifetime.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	1	34337101	20006697	10"x1/8"x5/8"	A30S-BF	6,150	10
		34337102	20006698	10"x1/8"x1"	A30S-BF	6,150	10
		34312945	20006699	12"x1/8"x1"	A30S-BF	5,100	10
		34301892	20006700	14"x1/8"x1"	A30S-BF	4,400	10
		34301897	20006701	16"x1/8"x1"	A30S-BF	3,850	10
		34301898	20006702	16"x5/32"x1"	A30S-BF	3,850	10
		34301899	20006703	18"x1/8"x1"	A30S-BF	3,400	10
		34301900	20006704	20"x1/8"x1"	A30S-BF	3,100	10

Grinding

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Specific information
Resin-bonded grinding wheels

Grinding wheels product label

Color codes

Label	Steel	2in1/3in1	INOX	Nonferrous metals	Cast iron	Stone
Color code	Blue	Blue	Red	Orange	Purple	Green
Material	Steel	2in1 = Steel and stainless steel, 3in1 = Steel, stainless steel and cast iron	Stainless steel	Aluminum, copper, zinc, brass, bronze, stone	Cast materials	Stone

Grinding wheels specification

A24Q-BFX

X	TYROLIT internal designation
F	Fibre-reinforced: Fibre glass (safety, lateral load, operating speed)
B	Bond: V = vitrified bonded, B = resin bonded, E = elastic bonded, G = galvanic bonded
Q	Designation of hardness: N = soft, O, P, Q, R, S, T = hard
24	Grit size indication (sieve size per inch) 14 - 36 coarse 46 - 60 medium 80 - 220 fine 800 - 1200 very fine Grit size indication in mesh
A	Abrasive: A ... Regular aluminum oxide, C ... Silicon carbide, ZA ... Zirconia alumina, CA ... Ceramic

Pictograms for machines

Angle grinder

Pneumatic angle grinder

Angle grinder with cup wheels

Straight grinder

TYROLIT FILM

The product film can be found on YouTube at **www.youtube.com/TYROLITgroup**

2.1 Rough grinding wheels **for angle grinders**

Rough grinding wheels **for angle grinders**

Working with an angle grinder is one of the most important processes in the handicraft and industrial sectors for machining all types of metals. TYROLIT offers the perfect rough grinding wheels for convenient and quick use with small and large angle grinders.

The TYROLIT range of rough grinding wheels meets the most stringent demands for cost-effective working, high stock removal rates, simple handling and above-average life-times. Our high-performance rough grinding wheels deliver the best results in both standard and special applications.

Continuous developments, such as the introduction of the “Comfort Start” edge, with which every user can achieve optimum results right from the start, make our rough grinding wheels one of the most advanced tools in the sector.

Working safety and comfort, provided for example by the vibration-damped VIBSTAR rough grinding wheel and the noise reducing SILENTIO, are also of great importance to us.

All TYROLIT rough grinding wheels are manufactured and tested in accordance with EN12413. Uniform color coding helps you to find the appropriate product for your application.

Shapes

27 rough grinding wheel

29T rough grinding wheel (Basic Touch)

28 rough grinding wheel

Application recommendation

Performance Level	Specification	Design	Steel	2in1	Stainless steel	NF metals	Cast iron	Stone	Pages
★★★ PREMIUM	A30S-BFX	LONGLIFE	●						60
	CA24Q-BFK	CERABOND		●					62/63
	A24Q-BFX			●					64
	A30Q-BFX			●					64
	ZA24R-BFP			●					61
	A30R-BFX				●				75
	A36N-BFX					●			66
	ZA24S-BFX		●				●		66
	ZZA24T-BFK	T-GRIND 2in1	●				●		67
	ZA24R-BFX	FOCUR EXTRA					●		68
	ZZA24S-BFX	FOCUR EXTRA					●		68
★ BASIC	A30S-BF		●						60/61
	A30Q-BF			●					65
	ZA30S-BF						●		68
	C30S-BF							●	69
	WA46-BF	TOUCH			●	●			69

★★★ PREMIUM

Rough grinding wheel
LONGLIFE for steel

The PREMIUM*** LONGLIFE is a high-performance rough grinding wheel for surface and edge grinding. The 1/8” thick rough grinding wheel achieves the highest stock removal rates, such as in pipeline construction applications.

The 1/4” thick LONGLIFE rough grinding wheels offer enhanced dimensional stability for welding and root welding.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27	772336	772336	4 1/2"x1/4"x7/8"	A30S-BFX	13,300	10
		898122	898122	4 1/2"x1/4"x5/8-11"	A30S-BFX	13,300	5
		772703	772703	5"x1/4"x7/8"	A30S-BFX	12,250	10
		240428	240428	5"x1/4"x5/8-11"	A30S-BFX	12,250	5
		772711	772711	6"x1/4"x7/8"	A30S-BFX	10,200	10
		772714	772714	6"x1/4"x5/8-11"	A30S-BFX	10,200	5
		772720	772720	7"x1/4"x7/8"	A30S-BFX	8,600	10
		898123	898123	7"x1/4"x5/8-11"	A30S-BFX	8,600	5
		772722	772722	9"x1/4"x7/8"	A30S-BFX	6,650	10
		898124	898124	9"x1/4"x5/8-11"	A30S-BFX	6,650	5
		772333	772333	4 1/2"x1/8"x7/8"	A30S-BFX	13,300	10
		34163273	34163273	4 1/2"x1/8"x5/8-11"	A30S-BFX	13,300	5
		772338	772338	5"x1/8"x7/8"	A30S-BFX	12,250	10
		240434	240434	5"x1/8"x5/8-11"	A30S-BFX	12,250	5
		772704	772704	6"x1/8"x7/8"	A30S-BFX	10,200	10
		772709	772709	6"x1/8"x5/8-11"	A30S-BFX	10,200	5
		772719	772719	7"x1/8"x7/8"	A30S-BFX	8,600	10
		34163274	34163274	7"x1/8"x5/8-11"	A30S-BFX	8,600	5
		772721	772721	9"x1/8"x7/8"	A30S-BFX	6,650	10
		34163275	34163275	9"x1/8"x5/8-11"	A30S-BFX	6,650	5

★ BASIC

Rough grinding wheel
For steel

This rough grinding wheel is particularly suitable for steel applications due to its softer design. In addition, the BASIC* wheel is quick and convenient to use and requires minimal effort. This tool can be used universally and is equally suitable for surface and edge grinding applications. These products also come in a 4 mm version. Their main application is in pipeline construction and in peripheral surface grinding.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27	34301985	20008271	3"x1/8"x3/8"	A30S-BF	20,100	10
		34301902	20006667	4"x1/8"x3/8"	A30S-BF	15,300	10
		34301904	20006668	4"x1/8"x5/8"	A30S-BF	15,300	10
		34301921	20006669	4 1/2"x1/8"x7/8"	A30S-BF	13,300	10
		34301910	20006670	4 1/2"x1/8"x5/8-11"	A30S-BF	13,300	5
		34301938	20006671	5"x1/8"x7/8"	A30S-BF	12,250	10

▶

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27	34312946	20010579	5"x1/8"x5/8-11"	A30S-BF	12,250	5
		34301955	20006672	7"x1/8"x7/8"	A30S-BF	8,600	10
		34301954	20006673	7"x1/8"x5/8-11"	A30S-BF	8,600	5
		34301968	20006674	9"x1/8"x7/8"	A30S-BF	6,650	10
		34301966	20006675	9"x1/8"x5/8-11"	A30S-BF	6,650	5

★★★ PREMIUM

Rough grinding wheel
Z-FORCE

The PREMIUM*** Z-FORCE is a high-performance zirconium rough grinding wheel for surface and edge grinding. It is distinguished by its excellent lifetime.

The 1/4” thick Z-FORCE rough grinding wheels also provide enhanced dimensional stability during welding.

Shape		Type no.	Dimension	Specification	RPM	PU
	27	34343742	4 1/2"x1/4"x7/8"	ZA24R-BFP	13,300	10
		34344089	4 1/2"x1/4"x5/8-11"	ZA24R-BFP	13,300	5
		34344090	5"x1/4"x7/8"	ZA24R-BFP	12,250	10
		34344121	5"x1/4"x5/8-11"	ZA24R-BFP	12,250	5
		34344122	6"x1/4"x7/8"	ZA24R-BFP	10,200	10
		34344123	6"x1/4"x5/8-11"	ZA24R-BFP	10,200	5
		34344124	7"x1/4"x7/8"	ZA24R-BFP	8,600	10
		34344125	7"x1/4"x5/8-11"	ZA24R-BFP	8,600	5
		34344126	9"x1/4"x7/8"	ZA24R-BFP	6,650	10
		34344127	9"x1/4"x5/8-11"	ZA24R-BFP	6,650	5

★★★ PREMIUM

Rough grinding wheel

CERABOND 2in1 for steel and stainless steel

+ **Shorter work processes**
Working times are substantially reduced through improved abrasiveness.

+ **Lower production costs**
The unique bond technology, optimized for ceramic grain, prevents the grain break-out and leads to a longer lifetime for the tool.

+ **Improved productivity**
A special structural composition offers maximum system performance.

TYROLIT FILM
The product film can be found on YouTube at **www.youtube.com/TYROLITgroup**

The TYROLIT CERABOND system brings almost 100 years of experience to a new generation of highest performance tools. With the rough grinding wheels from the CERABOND family, we have succeeded in achieving an ideal combination of specially treated ceramic grain and bond structure. Thus it is possible to keep the abrasiveness and the lifetime of the wheel at the highest level. The unique bond system prevents premature grain break-out in order to guarantee the full grinding power of the individual grains. This rough grinding wheel is particularly suitable for steel and stainless steel applications.

★★★ PREMIUM

Rough grinding wheel

CERABOND 2in1 for steel and stainless steel

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27	34216385	34019874	4 1/2"x1/4"x7/8"	CA24Q-BFX	13,300	5
		34216752	34216752	4 1/2"x1/4"x5/8-11"	CA24Q-BFX	13,300	5
		34216387	34019876	5"x1/4"x7/8"	CA24Q-BFX	12,250	5
		34216753	34216753	5"x1/4"x5/8-11"	CA24Q-BFX	12,250	5
		34216388	34019877	6"x1/4"x7/8"	CA24Q-BFX	10,200	5
		34216754	34216754	6"x1/4"x5/8-11"	CA24Q-BFX	10,200	5
		34216389	34019878	7"x1/4"x7/8"	CA24Q-BFX	8,600	5
		34216755	34216755	7"x1/4"x5/8-11"	CA24Q-BFX	8,600	5
		34216390	34019879	9"x1/4"x7/8"	CA24Q-BFX	6,650	5
		34216756	34216756	9"x1/4"x5/8-11"	CA24Q-BFX	6,650	5

Cutting
Grinding
Brushes
Coated abrasives
Precision grinding
Notes

◀

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
	34216441	34060373	4 1/2"x1/8"x7/8"	CA24Q-BFX	13,300	5
	34216757	34216757	4 1/2"x1/8"x5/8-11"	CA24Q-BFX	13,300	5
	34216442	34060374	5"x1/8"x7/8"	CA24Q-BFX	12,250	5
	34216758	34216758	5"x1/8"x5/8-11"	CA24Q-BFX	12,250	5
	34216443	34060375	6"x1/8"x7/8"	CA24Q-BFX	10,200	5
	34216759	34216759	6"x1/8"x5/8-11"	CA24Q-BFX	10,200	5
	34216444	34060376	7"x1/8"x7/8"	CA24Q-BFX	8,600	5
	34216760	34216760	7"x1/8"x5/8-11"	CA24Q-BFX	8,600	5
	34216751	34060377	9"x1/8"x7/8"	CA24Q-BFX	6,650	5
	34216831	34216831	9"x1/8"x5/8-11"	CA24Q-BFX	6,650	5

★★★
PREMIUM

Rough grinding wheel

2in1 for steel and stainless steel

+ **Enhanced economic efficiency**
High abrasiveness coupled with a significantly longer lifetime.

+ **Less work required**
The destruction of the workpiece as a result of plunging with the tool is prevented, thus avoiding rework.

+ **Enhanced comfort while working**
With the “Comfort Start” function, plunging into the workpiece is prevented, thus making the start of the process simpler and more convenient.

TYROLIT FILM
The product film can be found on YouTube at **www.youtube.com/TYROLITgroup**

This rough grinding wheel is particularly suitable for steel and stainless steel applications. Due to its softer design, the PREMIUM*** 2in1 is quick and convenient to use and requires minimal effort. This is made possible by a new bond with coarser grain and a new layer composition. What makes our 2in1 rough grinding wheel so unique is the bevelled and defined edge of the tool. With the "Comfort Start” edge, the user can achieve a pleasant start to grinding and the level of comfort while working is increased many times over.

▶

★★★ PREMIUM

Rough grinding wheel

2in1 for steel and stainless steel

Shape		Type no.	Dimension	Specification	RPM	PU
	27	34251162	4 1/2"x1/4"x7/8"	A24Q-BFX	13,300	10
		34251265	4 1/2"x1/4"x5/8-11"	A24Q-BFX	13,300	5
		34251163	5"x1/4"x7/8"	A24Q-BFX	12,250	10
		34251266	5"x1/4"x5/8-11"	A24Q-BFX	12,250	5
		34251164	6"x1/4"x7/8"	A24Q-BFX	10,200	10
		34251267	6"x1/4"x5/8-11"	A24Q-BFX	10,200	5
		34251165	7"x1/4"x7/8"	A24Q-BFX	8,600	10
		34251268	7"x1/4"x5/8-11"	A24Q-BFX	8,600	5
		34251166	9"x1/4"x7/8"	A24Q-BFX	6,650	10
		34251269	9"x1/4"x5/8-11"	A24Q-BFX	6,650	5
		771406	4 1/2"x1/8"x7/8"	A30Q-BFX	13,300	10
		898115	4 1/2"x1/8"x5/8-11"	A30Q-BFX	13,300	5
		771410	5"x1/8"x7/8"	A30Q-BFX	12,250	10
		771408	5"x1/8"x5/8-11"	A30Q-BFX	12,250	5
		771417	6"x1/8"x7/8"	A30Q-BFX	10,200	10
		771415	6"x1/8"x5/8-11"	A30Q-BFX	10,200	5
		771422	7"x1/8"x7/8"	A30Q-BFX	8,600	10
		898116	7"x1/8"x5/8-11"	A30Q-BFX	8,600	5
		771430	9"x1/8"x7/8"	A30Q-BFX	6,650	10
		898118	9"x1/8"x5/8-11"	A30Q-BFX	6,650	5

★ BASIC

Rough grinding wheel
2in1 for steel and stainless steel

This rough grinding wheel is particularly suitable for steel and stainless steel applications due to its softer design. In addition, the BASIC* 2-in-1 is quick and convenient to use and requires minimal effort. This tool can be used universally and is equally suitable for surface and edge grinding applications. These products also come in a 4 mm version. Their main application is in pipeline construction and in peripheral surface grinding.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27	34301986	20008290	3"x1/4"x3/8"	A30Q-BF	20,100	10
		34301905	20006651	4"x1/4"x3/8"	A30Q-BF	15,300	10
		34301907	20006652	4"x1/4"x5/8"	A30Q-BF	15,300	10
		34301926	20006653	4 1/2"x1/4"x7/8"	A30Q-BF	13,300	10
		34301924	20006655	4 1/2"x1/4"x5/8-11"	A30Q-BF	13,300	5
		34301943	20006657	5"x1/4"x7/8"	A30Q-BF	12,250	10
		34301942	20010581	5"x1/4"x5/8-11"	A30Q-BF	12,250	5
		34301952	20016035	6"x1/4"x7/8"	A30Q-BF	10,200	10
		34301951	20016036	6"x1/4"x5/8-11"	A30Q-BF	10,200	5
		34301959	20006659	7"x1/4"x7/8"	A30Q-BF	8,600	10
		34301958	20006661	7"x1/4"x5/8-11"	A30Q-BF	8,600	5
		34301981	20006663	9"x1/4"x7/8"	A30Q-BF	6,650	10
		34301970	20006665	9"x1/4"x5/8-11"	A30Q-BF	6,650	5
	28	34301990	20006676	7"x1/4"x7/8"	A30Q-BF	8,600	10
		34301989	20006677	7"x1/4"x5/8-11"	A30Q-BF	8,600	5
		34337106	20006678	9"x1/4"x7/8"	A30Q-BF	6,650	10
		34302023	20006679	9"x1/4"x5/8-11"	A30Q-BF	6,650	5

★★★ PREMIUM

Rough grinding wheel
For stainless steel

The high-performance rough grinding wheel has been specially designed for stainless steel applications. The PREMIUM*** INOX rough grinding wheel combines a long lifetime and the best cutting ability.

To achieve this special mixture of regular aluminum oxide and zirconium, aluminum oxide is used. This rough grinding wheel is specially designed for stainless steel applications.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27	401257	401257	4 1/2"x1/4"x7/8"	A30R-BFX	13,300	10
		401259	401259	4 1/2"x1/4"x5/8-11"	A30R-BFX	13,300	5
		401260	401260	5"x1/4"x7/8"	A30R-BFX	12,250	10
		401262	401262	5"x1/4"x5/8-11"	A30R-BFX	12,250	5
		34163245	34163245	6"x1/4"x7/8"	A30R-BFX	10,200	10
		34163246	34163246	6"x1/4"x5/8-11"	A30R-BFX	10,200	5
		34163247	34163247	7"x1/4"x7/8"	A30R-BFX	8,600	10
		34163248	34163248	7"x1/4"x5/8-11"	A30R-BFX	8,600	5
		34163249	34163249	9"x1/4"x7/8"	A30R-BFX	6,650	10
		34163250	34163250	9"x1/4"x5/8-11"	A30R-BFX	6,650	5

★★★ PREMIUM

Rough grinding wheel
For nonferrous metals

The PREMIUM*** rough grinding wheel developed specifically for nonferrous metals prevents clogging of the tool in order to reduce loading or dulling. Even at very low pressure, the wheel achieves extremely high abrasiveness. TYROLIT's formula and production methods enable exceptionally high stock removal rates to be obtained for nonferrous metal applications. These rough grinding wheels are available in the hard N grade for surface and edge grinding, or in the softer cutting L grade for surface grinding.

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
27	773067	773067	4 1/2"x1/4"x7/8"	A36N-BFX	13,300	10
	913325	913325	4 1/2"x1/4"x5/8-11"	A36N-BFX	13,300	5
	773419	773419	5"x1/4"x7/8"	A36N-BFX	12,250	10
	773418	773418	5"x1/4"x5/8-11"	A36N-BFX	12,250	5
	34163253	34163253	6"x1/4"x7/8"	A36N-BFX	10,200	10
	34163254	34163254	6"x1/4"x5/8-11"	A36N-BFX	10,200	5
	773420	773420	7"x1/4"x7/8"	A36N-BFX	8,600	10
	913331	913331	7"x1/4"x5/8-11"	A36N-BFX	8,600	5
	773422	773422	9"x1/4"x7/8"	A36N-BFX	6,650	10
	913333	913333	9"x1/4"x5/8-11"	A36N-BFX	6,650	5
	773068	773068	4 1/2"x1/8"x7/8"	A36N-BFX	13,300	10
	913335	913335	4 1/2"x1/8"x5/8-11"	A36N-BFX	13,300	5
	34163259		7"x1/8"x7/8"	A36N-BFX	8,600	10
	913339		7"x1/8"x5/8-11"	A36N-BFX	8,600	5

★★★ PREMIUM

Rough grinding wheel
PIPELINER for steel and cast iron

The PREMIUM*** PIPELINER has been developed for V-groove applications. Specifically in pipeline construction, it is necessary to chamfer the pipe ends in order to subsequently weld them together. As they only comprise one grain layer, they provide for even wear on the workpiece. The PIPELINER is a rough grinding wheel suitable for steel and cast iron

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
27	352336	352336	4 1/2"x1/8"x7/8"	P1-ZA24S-BFX	13,300	10
	352334	352334	4 1/2"x1/8"x5/8-11"	P1-ZA24S-BFX	13,300	5
	356632	356632	5"x1/8"x7/8"	P1-ZA24S-BFX	12,250	10
	356633	356633	5"x1/8"x5/8-11"	P1-ZA24S-BFX	12,250	5
	352339	352339	7"x1/8"x7/8"	P1-ZA24S-BFX	8,600	10
	352338	352338	7"x1/8"x5/8-11"	P1-ZA24S-BFX	8,600	5
	352341	352341	9"x1/8"x7/8"	P1-ZA24S-BFX	6,650	10
	352340	352340	9"x1/8"x5/8-11"	P1-ZA24S-BFX	6,650	5

★★★ PREMIUM

Rough grinding wheel

T-GRIND for steel and cast iron

+ **Cost-effective**
Due to the above-average lifetime of the T-GRIND, purchase and disposal costs are reduced.

+ **Highest demands**
Meets the highest demands of powerful pneumatic angle grinders.

+ **High productivity**
The combination of a long lifetime and high abrasiveness significantly increases the productivity of this rough grinding wheel.

The PREMIUM*** T-GRIND has been developed for the high demands exerted when using turbine and vane-type pneumatic grinders. The long lifetime ensures this rough grinding wheel provides a vast reduction in abrasive waste, making it an environmentally-friendly product.

At the same time, the aggressive stock removal rate ensures more comfort and relief for the user while working.

★★★ PREMIUM

Rough grinding wheel

T-GRIND for steel and cast iron

Shape		Type no.	Dimension	Specification	RPM	PU
	27	34333163	7"x1/4"x7/8"	ZZA24T-BFK	8,600	10
		34333786	7"x1/4"x5/8-11"	ZZA24T-BFK	8,600	5
		34333164	9"x1/4"x7/8"	ZZA24T-BFK	6,650	10
		34333888	9"x1/4"x5/8-11"	ZZA24T-BFK	6,650	5

★★★ PREMIUM

Rough grinding wheel
FOCUR Extra for cast iron

The PREMIUM*** FOCUR Extra offers maximum stock removal rates coupled with the longest lifetime. Innovative production technology combined with high-quality zirconium aluminum oxide makes this possible. This high-performance tool has been developed for application on all cast materials and can be used for surface grinding, deburring work and rendering. ZA24N-BFX: particularly for surface grinding, ZA24P-BFX: universal type, ZZA24R-BFX: the deburring specialist and ZZA24S-BFX: for long lifetimes.

Shape	Type no.	Dimension	Specification	RPM	PU
27	34345920	7"x1/4"x7/8"	ZA24R-BFX	8,600	10
	34345947	7"x1/4"x5/8-11"	ZA24R-BFX	8,600	5
	34345948	9"x1/4"x7/8"	ZA24R-BFX	6,650	10
	34345949	9"x1/4"x5/8-11"	ZA24R-BFX	6,650	5
	34337631	7"x1/4"x7/8"	ZZA24S-BFX	8,600	10
	34337632	7"x1/4"x5/8-11"	ZZA24S-BFX	8,600	5
	34337633	9"x1/4"x7/8"	ZZA24S-BFX	6,650	10
	34337634	9"x1/4"x5/8-11"	ZZA24S-BFX	6,650	5

★ BASIC

Rough grinding wheel
For cast iron

With the BASIC* rough grinding wheel for cast iron, you will obtain a tool that has been specially designed for rendering and offers a high level of dimensional stability. Even with low pressure, the tool is easy cutting and durable. This tool has been developed for application on all cast materials and is particularly suitable for smoothing cast materials.

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
27	34301987	20010212	3"x1/4"x3/8"	ZA30S-BF	20,100	10
	34337104	20006680	4"x1/4"x3/8"	ZA30S-BF	15,300	10
	34301909	20006681	4"x1/4"x5/8"	ZA30S-BF	15,300	10
	34301936	20006682	4 1/2"x1/4"x7/8"	ZA30S-BF	13,300	10
	34301934	20006683	4 1/2"x1/4"x5/8-11"	ZA30S-BF	13,300	5
	34301949	20006684	5"x1/4"x7/8"	ZA30S-BF	12,250	10
	34301948	20010582	5"x1/4"x5/8-11"	ZA30S-BF	12,250	5
	34301964	20006685	7"x1/4"x7/8"	ZA30S-BF	8,600	10
	34301962	20006686	7"x1/4"x5/8-11"	ZA30S-BF	8,600	5
	34301984	20006687	9"x1/4"x7/8"	ZA30S-BF	6,650	10
	34301983	20006688	9"x1/4"x5/8-11"	ZA30S-BF	6,650	5

Rough grinding wheel
For stone

The abrasive BASIC* rough grinding wheel for stone is quick and convenient to use and requires minimal exertion. It is ideal for soft to hard stone, natural and artificial stone and concrete. This rough grinding wheel with silicon carbide is specifically for stone and short-chipping materials.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27	34301908	20007745	4"x1/4"x5/8"	C30S-BF	15,300	10
		34301929	20006654	4 1/2"x1/4"x7/8"	C30S-BF	13,300	10
		34301927	20006656	4 1/2"x1/4"x5/8-11"	C30S-BF	13,300	5
		34301945	20006658	5"x1/4"x7/8"	C30S-BF	12,250	10
		34301944	20010584	5"x1/4"x5/8-11"	C30S-BF	12,250	5
		34301961	20006660	7"x1/4"x7/8"	C30S-BF	8,600	10
		34301960	20006662	7"x1/4"x5/8-11"	C30S-BF	8,600	5
		34342489	20006664	9"x1/4"x7/8"	C30S-BF	6,650	10
		34301982	20006666	9"x1/4"x5/8-11"	C30S-BF	6,650	5
		34301923	20010585	4 1/2"x1/8"x7/8"	C30S-BF	13,300	10
		34301922	20010586	4 1/2"x1/8"x5/8-11"	C30S-BF	13,300	5
	28	34302022	20016031	7"x1/4"x7/8"	C30S-BF	8,600	10
		34302021	20016032	7"x1/4"x5/8-11"	C30S-BF	8,600	5
		34337108	20016033	9"x1/4"x7/8"	C30S-BF	6,650	10
		34302024	20016034	9"x1/4"x5/8-11"	C30S-BF	6,650	5

Rough grinding wheel
TOUCH for stainless steel and nonferrous metals

The semi-flexible BASIC* TOUCH combines the advantages of various products in one tool. The “waffle” structure enables cool grinding with good chip transport. In addition, the risk of material discoloration is reduced. The unique structure and low weight of the TOUCH suppresses vibrations, ensuring quiet operation and sound reduction. The wheel also facilitates ideal adaptation to workpieces for grinding, deburring and shaping work. It is also possible to cut nonferrous metals.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27T	34333451	236317	4”x1/8”X5/8”	WA46-BF	13,300	25
		34333418	236318	4 1/2”x1/8”x7/8”	WA46-BF	13,300	25
		34223914	34223914	4 1/2”x1/8”x5/8-11”	WA46-BF	13,300	5
		34333419	236319	5”x1/8”x7/8”	WA46-BF	12,250	25
		34223918	34223918	5”x1/8”x5/8-11”	WA46-BF	12,250	5
		34333420	236320	7”x1/8”x7/8”	WA46-BF	8,600	25
		34223919	34223919	7”x1/8”x5/8-11”	WA46-BF	8,600	5

2.2 Rondeller®
for angle grinders

Rondeller®
for angle grinders

Working with an angle grinder is one of the most important processes in the handicraft and industrial sectors for machining all types of metals. TYROLIT has developed a special tool for use on an angle grinder that combines the product advantages of different grinding tools. It is not necessary to use any special accessories with the Rondeller®, so simple handling is guaranteed.

Its unique geometry and stud pattern enable outstanding stock removal, cool, material-protecting grinding and ergonomic working. Vibration-free working and perfect adaptation to the workpiece is guaranteed when grinding, deburring and shaping curved surfaces.

Shapes

29 RON
Rondeller®

Application recommendation

Performance Level	Specification	2in1	NF Metals	Pages
★★★ PREMIUM	A36Q-BF	●		74/75
	A60Q-BF	●		74/75
	A36N_BF		●	75

★★★ PREMIUM

RONDELLER®

2in1 for steel and stainless steel

+ **Universal use**
Ideal for use on steel and stainless steel, as well as for all grinding, deburring and shaping applications on curved surfaces.

+ **Simple handling**
Easy assembly - no need to use special accessories, such as back up pads and clamping nuts.

+ **High level of comfort while working**
These tools make vibration-free, ergonomic use possible and protect both user and machine.

The TYROLIT PREMIUM*** RONDELLER® combines the product advantages of different grinding tools with the easiest handling. The unique geometry of the Rondeller® enables cool, ergonomic grinding that is kind to materials. Absolutely vibration-free use and optimal adaptation to the workpiece for all grinding, deburring and shaping applications means that curved surfaces can be perfectly machined.

★★★ PREMIUM

RONDELLER®

2in1 for steel and stainless steel

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	29RON	401420	908225	4 1/2"x1/8"x7/8"	A36Q-BF	13,300	25
		938451	938451	4 1/2"x1/8"x5/8-11"	A36Q-BF	13,300	5
		401424	980226	4 1/2"x1/8"x7/8"	A60Q-BF	13,300	25
		938452	938452	4 1/2"x1/8"x5/8-11"	A60Q-BF	13,300	5
		401421	980227	5"x1/8"x7/8"	A36Q-BF	12,250	25
		17311	980229	5"x1/8"x5/8-11"	A36Q-BF	12,250	5
		401426		5"x1/8"x7/8"	A60Q-BF	12,250	25
		17313		5"x1/8"x5/8-11"	A60Q-BF	12,250	5
		34315471	170599	6"x1/8"x7/8"	A36Q-BF	10,200	25

▶

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	29RON	34315479	938455	6"x1/8"x5/8-11"	A36Q-BF	10,200	5
		401422	908230	7"x1/8"x7/8"	A36Q-BF	8,600	25
		938453	938453	7"x1/8"x5/8-11"	A36Q-BF	8,600	5
		401427	908231	7"x1/8"x7/8"	A60Q-BF	8,600	25
		938454	938454	7"x1/8"x5/8-11"	A60Q-BF	8,600	5

★★★ PREMIUM

Rough grinding wheel

For nonferrous metals

With the TYROLIT PREMIUM*** RONDELLER® you get a tool that combines the benefits of a rough grinding, flap and fiber disc in one product. The new development means that it is now also possible to machine nonferrous metals such as aluminum, copper, brass and bronze. The tools are used in tool making, metalware production, foundries and in apparatus engineering and ship building. The cool grinding action of the RONDELLERS® reduces the risk of overheating, particularly with soft materials. TYROLIT has also developed special formulas and production methods for processing nonferrous metals in order to achieve high stock removal values and short grinding times. A specification developed in-house prevents clogging and dulling of the wheel as a result of material abrasion. This increases the lifetime of the wheel, while waste and wheel consumption are significantly reduced.

Shape		Type no.	Dimension	Specification	RPM	PU
	29RON	34331062	4 1/2"x1/8"x7/8"	A36N-BF	13,300	25
		34331225	4 1/2"x1/8"x5/8-11"	A36N-BF	13,300	5
		34331133	5"x1/8"x7/8"	A36N-BF	12,250	25
		34331229	5"x1/8"x5/8-11"	A36N-BF	12,250	5
		34331135	6"x1/8"x7/8"	A36N-BF	10,200	25
		34331230	6"x1/8"x5/8-11"	A36N-BF	10,200	5
		34331136	7"x1/8"x7/8"	A36N-BF	8,600	25
		34331241	7"x1/8"x5/8-11"	A36N-BF	8,600	5

TYROLIT
WORK WEAR

2.3 Cup wheels **for angle grinders**

Cup wheels **for angle grinders**

Working with an angle grinder is one of the most important processes in the handicraft and industrial sectors for machining all types of metals. The use of cup wheels is recommended when grinding large and heavy components in particular, as they are exceptionally robust and durable.

It is particularly important to ensure that cup wheels are only used on angle grinders for 178 mm diameters. Smaller machines rotate too quickly, while larger ones rotate too slowly. In addition, a special protection cover is required to ensure sufficient levels of working safety. With cup wheels from TYROLIT you can achieve high stock removal rates and long lifetime. The composition of the cup wheels makes them suitable for large-area machining of welding seams or for grinding imperfections on concrete surfaces.

TYROLIT cup wheels can not only be used for metal machining, but also on marble, slate and granite. Uniform color coding helps you to find the appropriate product for your application.

Shapes

11BT Cup wheel

Application recommendation

Performance Level	Specification	Steel	Cast iron	Stone	Pages
★★★ PREMIUM	A20	●			80
	C20			●	80
	ZA16		●		80

★★★ PREMIUM

Resin cup wheel
For steel

Cup wheels achieve maximum stock removal rates and lifetime for grinding jobs on large areas. The PREMIUM*** cup wheel for steel is ideal for edge grinding, bevelling and grinding welding seams.

There is a choice of bore design 22.23 and thread design M14 for fitting to the tool. Observe operating speed: max. 50 m/s

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
11ZB	20039228	20039228	4"x2"x5/8-11"	A20	9,540	2
	20039229	20039229	5"x2"x5/8-11"	A16	7,630	2
	20039230	20039230	6"x2"x5/8-11"	A16	6,360	2

★★★ PREMIUM

Resin cup wheel
For stone

Cup wheels achieve maximum stock removal rates and lifetime for grinding jobs on large areas. The stone cup wheel is particularly suitable for pre-grinding imperfections on concrete surfaces, bevelling and pre-grinding artificial stone and patio slabs, surface grinding on marble, slate and granite. There is a choice of bore design 22.23 and thread design M14 for fitting to the tool. Observe operating speed: max. 50 m/s

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
11ZB	20039234	20039234	4"x2"x5/8-11"	C20	9,540	2
	20039235	20039235	5"x2"x5/8-11"	C20	7,630	2
	20039236	20039236	6"x2"x5/8-11"	C20	6,360	2

★★★ PREMIUM

Resin cup wheel
For cast iron

Cup wheels achieve maximum stock removal rates and lifetime for grinding jobs on large areas. The PREMIUM*** cup wheel for steel is ideal for edge grinding and bevelling.

There is a choice of bore design 22.23 and thread design M14 for fitting to the tool. Observe operating speed: max. 50 m/s

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
11ZB	20039231	20039231	4"x2"x5/8-11"	ZA16	9,540	2
	20039232	20039232	5"x2"x5/8-11"	ZA16	7,630	2
	20039233	20039233	6"x2"x5/8-11"	ZA16	6,360	2

2.4 Plugs and cones **for straight grinders**

Plugs and cones **for straight grinders**

Straight grinders are always in high demand when precise results are required on difficult-to-access areas. Their versatile application options make straight grinders a popular tool. So that there is always a solution for the numerous applications, TYROLIT offers a wide range of mounted point shapes.

Our resin-bonded plugs and cones offer you vibration-reducing solutions for the highest quality requirements. The wide range of applications also requires ceramic points that strike a perfect balance in terms of chip performance, surface finish and lifetime. Ceramic points are often used in foundries and in mold making.

For fine machining, our range also includes elastic and polishing plugs and cones tailored to your needs.

Shapes

16
Mounted point

17
Mounted point

18
Mounted point

18R
Mounted point

Application recommendation

Performance Level	Specification	Steel	Cast iron	Pages
★★★ PREMIUM	A20	●	●	84
	ZA20	●	●	84

★★★ PREMIUM

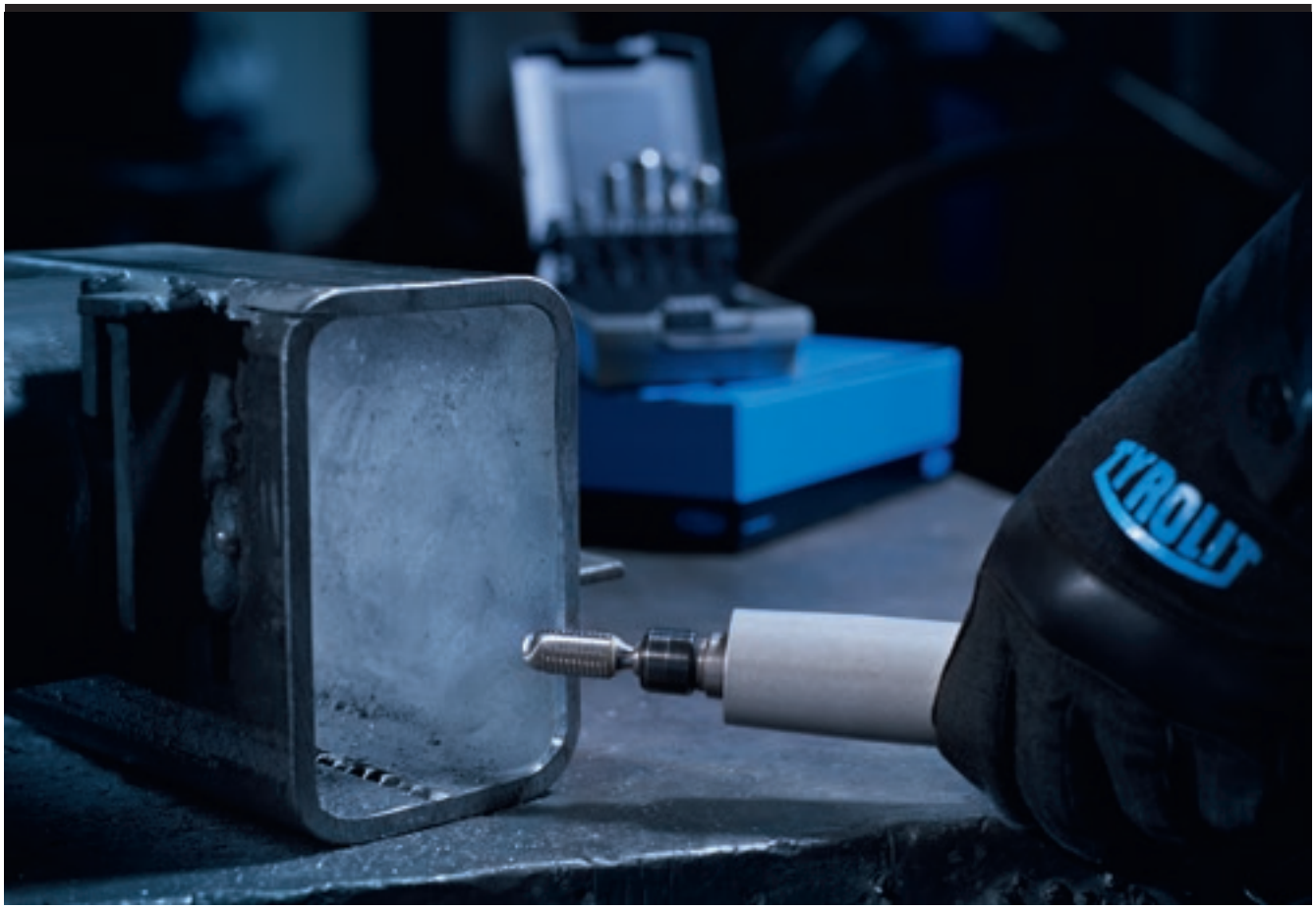
Resin bonded plugs and cones

For Steel and cast iron

The PREMIUM*** resin plugs and cones with aluminum oxide for economical perfarmance. Premium zirconia for heavy duty grinding. One of the most widely used forms of metal removal, portable grinding removes excess weld bead; notches, gates and risers; grinds off fins and parting line; cleans metal before welding, painting or plating, smooths rough surface.

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	16	20039207	20039207	1 1/2"x3"x5/8-11"	A20	24,000	10
		20039208	20039208	2"x3"x5/8-11"	A20	18,100	10
		20039209	20039209	2 3/4"x3 1/2"x5/8-11"	A20	13,200	10
		20039240	20039240	1 1/2"x3"x5/8-11"	ZA20	24,000	10
		20039210	20039210	1 1/2"x3"x5/8-11"	ZA20	24,000	10
		20039211	20039211	2 3/4"x3 1/2"x5/8-11"	ZA20	13,200	10
	17	20039212	20039212	1 1/2"x3"x5/8-11"	A20	24,000	10
		20039213	20039213	2"x3"x5/8-11"	A20	13,200	10
		20039214	20039214	1 1/2"x3"x5/8-11"	ZA20	24,000	10
	18	20039215	20039215	1 1/2"x3"x5/8-11"	A20	24,000	10
		20039216	20039216	1 1/2"x4"x5/8-11"	A20	24,000	10
		20039217	20039217	2"x3"x5/8-11"	A20	13,200	10
		20039218	20039218	1 1/2"x3"x5/8-11"	ZA20	24,000	10
		20039219	20039219	1 1/2"x4"x5/8-11"	ZA20	24,000	10
		20039220	20039220	2"x3"x5/8-11"	ZA20	13,200	10
	18R	20039221	20039221	1 1/2"x3"x5/8-11"	A20	24,000	10
		20039222	20039222	1 1/2"x4"x5/8-11"	A20	24,000	10
		20039223	20039223	2"x3"x5/8-11"	A20	13,200	10
		20039224	20039224	1 1/2"x3"x5/8-11"	ZA20	24,000	10
		20039225	20039225	1 1/2"x4"x5/8-11"	ZA20	24,000	10
		20039226	20039226	2"x3"x5/8-11"	ZA20	13,200	10

2.5 Tungsten carbide burrs **for straight grinders**



Tungsten carbide burrs **for straight grinders**

Straight grinders are always in high demand when precise results are required on difficult-to-access areas. Their versatile application options make straight grinders a popular tool. So that there is always a solution for the full spectrum of applications, TYROLIT offers a wide range of PREMIUM quality tungsten carbide burr shapes.

TYROLIT burrs are made from tried-and-tested, high-quality cemented carbide types on the most modern CNC grinding machines. Our tungsten carbide burrs are then used on a wide range of handheld, pneumatic and electronic machines, as well as on industrial robots. Thanks to their versatility, the cutters can be used on a variety of materials.

Application recommendation

Performance Level	Specification	Steel	Stainless steel	NF metals	Cast iron	HSS	Tooth shape	Pages
★★★ PREMIUM	MX	●	●		●	●		90/91
	ALU			●				91

Segmentations:

ALU: For aluminum machining (standard with 8 cutting edges)

MX: For high-alloyed steels, rust, acid and heat-resistant cast metals and plastics (diamond)

Shapes

52TRE
Oval

52KEL
Ball Nose Cone

52WRC
Ball Nose Cyl.

52ZYA
Cylinder

52KUD
Ball

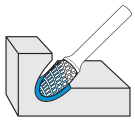
52ZYA-S
Cyl. End Cutte

52RBF
RND Nose Tree

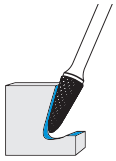
52SKM
Pointed Tree

52SPG
Pointed Tree

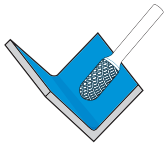
Areas of application



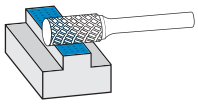
52TRE
Oval



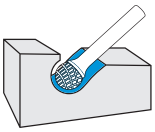
52KEL
Ball Nose Cone



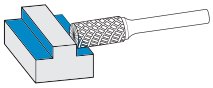
52WRC
Ball Nose Cyl.



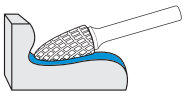
52ZYA
Cylinder



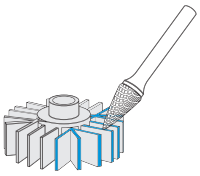
52KUD
Ball



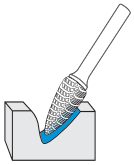
52ZYA-S
Cyl. End Cutter



52RBF
RND Nose Tree



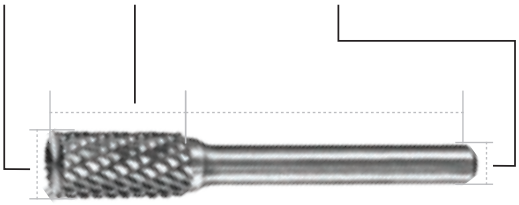
52SKM Pointed Tree
Combined cone and ball cutter



52SPG
Pointed Tree

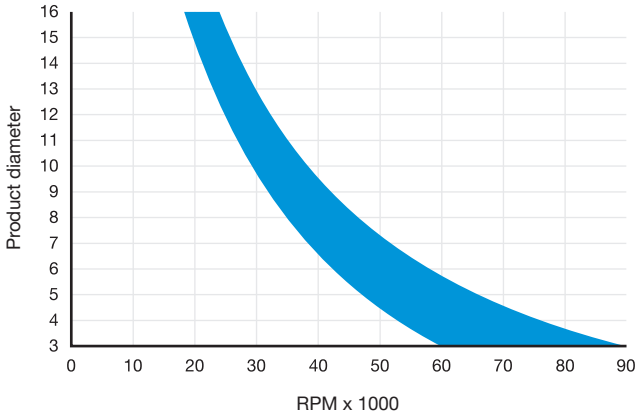
Tungsten carbide burr dimensions

3/8” x 3/4” – 1/4”

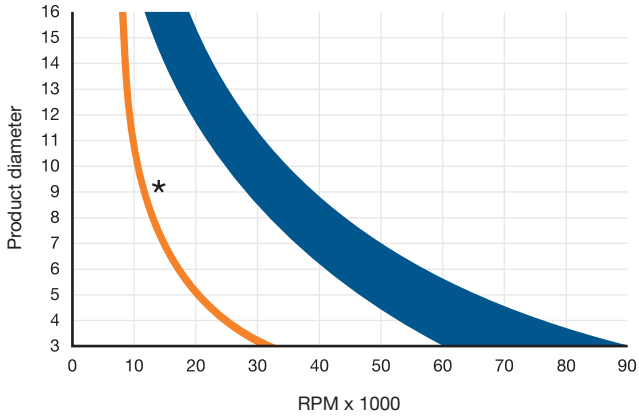


Recommended speeds

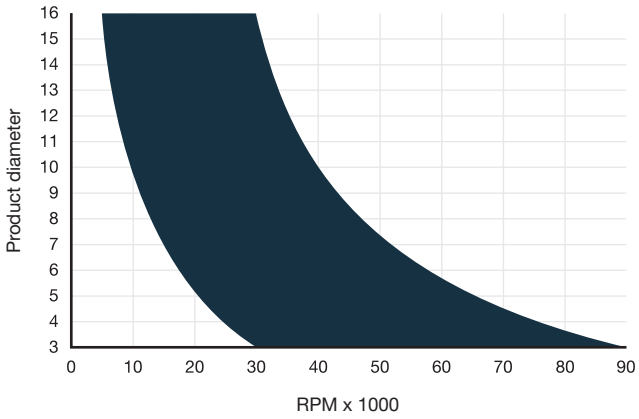
Unhardened steel



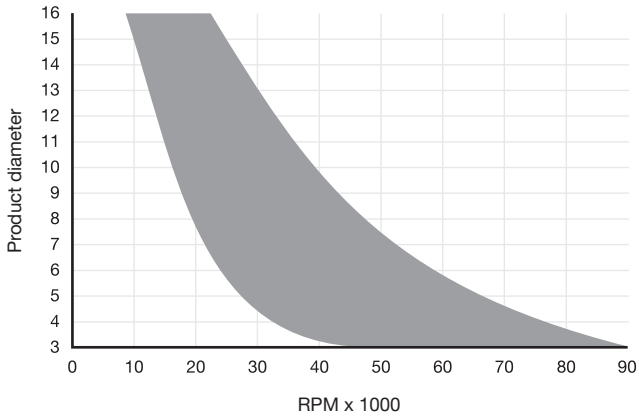
Ceramics, hardened steels, stainless steels, nickel-based alloy, titanium



Soft long-chipping materials, aluminum, fiberglass-reinforced plastic, plastics, zinc-based alloy



Brass, cast iron, copper, bronze



★★★ PREMIUM

Tungsten carbide burrs

For cast iron, steel and stainless steel

Production of the TYROLIT PREMIUM*** burrs is performed on modern CNC grinding machines. The result is a highly efficient precision tool that achieves optimum grinding results. With this tungsten carbide burr you can achieve the longest lifetimes when used on practically any material.

By choosing the right machine, the correct revolutions per minute and operating speed, and the appropriate cutting and tooth profile, you will pave the way for PREMIUM results.

	Shape		Type no.	Dimension	Specification	RPM	PU
		52KUD	20019789	1/8"x1/8"x1/8"	BALL (MX)	100,000	1
			20019726	1/4"x1/4"x1/4"	BALL (MX)	65,000	1
			20019727	3/8"x3/8"x1/4"	BALL (MX)	55,000	1
			20019729	1/2"x1/2"x1/4"	BALL (MX)	35,000	1
		52RBF	20019791	1/8"x1/2"x1/8"	RND NOSE TREE (MX)	100,000	1
			20019753	1/4"x5/8"x1/4"	RND NOSE TREE (MX)	65,000	1
			20019754	3/8"/3/4"x3/4"	RND NOSE TREE (MX)	55,000	1
			20019756	1/2"x1"x1/4"	RND NOSE TREE (MX)	35,000	1
		52SKM	20019794	1/8"3/8"x1/8"	POINTED CONE (MX)	100,000	1
			20019784	1/4"x1/2"x1/4"	POINTED CONE (MX)	65,000	1
			20019785	3/8"x5/8"x1/4"	POINTED CONE (MX)	55,000	1
			20019786	1/2"x7/8"x1/4"	POINTED CONE (MX)	35,000	1
		52KEL	20019793	1/8"x5/16"x1/8"	BALL NOSE CONE (MX)	100,000	1
			20019781	1/4"x5/8"x1/4"	BALL NOSE CONE (MX)	65,000	1
			20019782	3/8"x1"x1/4"	BALL NOSE CONE (MX)	55,000	1
			20019783	1/2"x13/16"x1/4"	BALL NOSE CONE (MX)	35,000	1
		52SPG	20019792	1/8"x1/2"x1/8"	POINTED TREE (MX)	100,000	1
			20019758	1/4"x5/8"x1/4"	POINTED TREE (MX)	65,000	1
			20019759	3/8"x3/4"x1/4"	POINTED TREE (MX)	55,000	1
			20019780	1/2"x1"x1/4"	POINTED TREE (MX)	35,000	1
		52TRE	20019790	1/8"x1/4"x1/8"	OVAL (MX)	100,000	1
			20019741	1/4"x3/8"x1/4"	OVAL (MX)	65,000	1
			20019742	3/8"x5/8"x1/4"	OVAL (MX)	55,000	1
			20019743	1/2"x7/8"x1/4"	OVAL (MX)	35,000	1
		52WRC	20019788	1/8"x1/2"x1/8"	BALL NOSE CYL. (MX)	100,000	1
			20019710	1/4"x3/4"x1/4"	BALL NOSE CYL. (MX)	65,000	1
			20019711	3/8"x3/4"x1/4"	BALL NOSE CYL. (MX)	55,000	1
			20019713	1/2"x1"x1/4"	BALL NOSE CYL. (MX)	35,000	1

	Shape		Type no.	Dimension	Specification	RPM	PU
		52ZYA	20019787	1/8"x1/2"x1/8"	CYLINDER (MX)	100,000	1
			20019701	1/4"x3/4"x1/4"	CYLINDER (MX)	65,000	1
			20019702	3/8"x3/4"x1/4"	CYLINDER (MX)	55,000	1
			20019705	1/2"x1"x1/4"	CYLINDER (MX)	35,000	1
		52ZYAS	20019707	1/4"x3/4"x1/4"	CYL.-END CUTTE (MX)	65,000	1
			20019708	3/8"x3/4"x1/4"	CYL.-END CUTTE (MX)	55,000	1
			20019709	1/2"x1"x1/4"	CYL.-END CUTTE (MX)	35,000	1

★★★ PREMIUM

Tungsten carbide burrs

For nonferrous metals

	Shape		Type no.	Dimension	Specification	RPM	PU
		52RBF	20019755	3/8"x3/4"x1/4"	RND NOSE TREE (ALU)	55,000	1
			20019757	1/2"x1"x1/4"	RND NOSE TREE (ALU)	35,000	1
		52WRC	20019712	3/8"x3/4"x1/4"	BALLNOSE CYL. (ALU)	55,000	1
			20019714	1/2"x1"x1/4"	BALLNOSE CYL. (ALU)	35,000	1
		52KUD	20019728	3/8"x3/8"x1/4"	BALL (ALU)	55,000	1
			20019740	1/2"x1/2"x1/4"	BALL (ALU)	35,000	1
		52ZYA	20019704	3/8"x3/4"x1/4"	CYLINDER (ALU)	55,000	1
			20019706	1/2"x1"x1/4"	CYLINDER (ALU)	35,000	1

★★★ PREMIUM

Tungsten carbide burr set

For cast iron, steel and stainless steel

The PREMIUM*** tungsten carbide burr set contains common burrs for machining cast iron, steel and stainless steel materials. Production on CNC machines results in a highly efficient precision tool that achieves optimum grinding results. With this tungsten carbide burr you can achieve the longest lifetimes when used on practically any material. By choosing the right machine, the correct revolutions per minute and operating speed, and the appropriate cutting and tooth profile, you will pave the way for PREMIUM results.

	Type no.	Content	PU
	20039144	5pc BURR KIT	1
	20039145	10pc BURR KIT	1

TYROLIT

Brushes

Brushes information	**93**
Explanation of labels	94
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Shaft mounted round brushes	113
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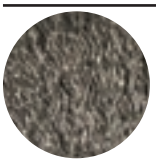
3.3 Round brushes	116
Hand-guided grinding	**119**
3.4 Hand brushes	120

Specific information
Tool brushes

Brushes product label

Wire types

	Abbreviation	Description	Application
	DW	Knotted wire	Suitable for soft materials such as nonferrous metals, sensitive surfaces and slight impurities
	DZ	Twisted wire	Suitable for heavy work, severe dirt and removing layers of paint or varnish

	Abbreviation	Description	Application
	DK	Wire with grain	Suitable for deburring gears, valve parts, cutting edges of aluminum profiles and pipes
	DG	Straight wire	For cleaning workpieces with hand tools

Pictograms for machines

Angle grinder

Straight grinder

Floorstanding grinder

Hand-guided grinding

Brushes specification

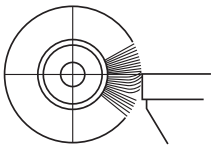
6T DZ SH 0,5

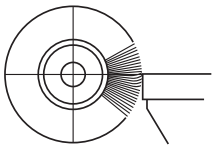
0.020	Thickness
SH	Specification (wire type)
DZ	Wire type
6T	Shape

S	Steel wire	**E**	Stainless steel wire	**M**	Brass wire	**C**	Wire with silicon carbide grain
SZ	Hardened and tough steel wire			**C**	Wire with silicon carbide grain		

Pressure

Brushes need only light pressure, as the wire tips do all the work. Heavy pressure does not improve the brushing result. Heavy pressure shortens the lifetime and requires more force.


Excessive pressure


Correct pressure

TYROLIT
Wolfgang Gründler
TYROLIT

3.1 Brushes **for angle grinder**

Brushes
for angle grinders

Working with an angle grinder is one of the most important processes in the trade and industrial sectors for processing all types of metals. TYROLIT offers a comprehensive assortment of brushes for angle grinders.

Brushes are generally very versatile and can be used for a wide range of applications such as deburring, cleaning welding seams or the surfaces of virtually any material. The wide assortment of TYROLIT tool brushes has the right shape, wire type and specification for every job.

Application recommendation

Performance Level	Specification	Steel	Stainless steel	Pages
★★★ PREMIUM	S…	●		101
	SH…	●		104
	SZ	●		102/103/104
	E… INOX		●	102/103/104/105

Shapes

11TDW
cup brush

For removing rust, paint and dirt and for smooth finishing

11TDZ
cup brush

Ideal for preparing surfaces before painting, removing slag, rust, scale and concrete residues

6TDW/6TDZ
cup brush

For heavy work and removal of rust, paint, dirt or scale

28KDW
Tapered brush

For hard-to-reach areas, for removal of rust, paint, dirt and for smooth finishing

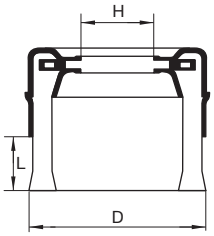
28KDZR
Tapered brush

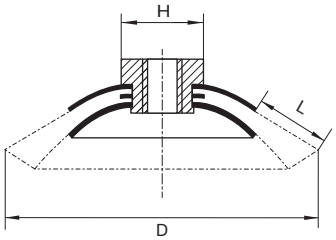
For hard-to-reach areas, for removal of slag, rust and scale

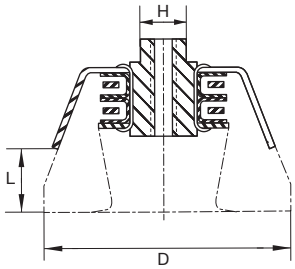
1RDZ
Round brush

For welding and for removal of scale and paint

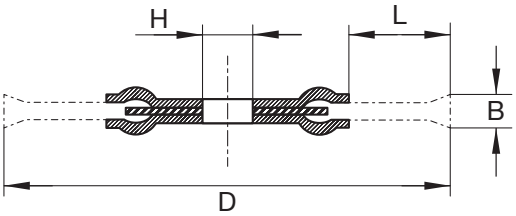
Dimensions
Cup and tapered brushes







Round brushes



Maximum speeds

The max. rpm is the speed at which the brushes can be safely used. This must not be exceeded.
In most cases it is advantageous to use a lower speed in order to achieve better results.

Caution: Before each use, compare the speeds of the tool and of the machine.

Ø	60	65	75	80	90	100	115	125	150	178	200
Round brush, twisted						11,000	11,000	9,000	9,000	8,500	6,500
Cup brush, knotted	11,000		11,000	9,000				6,500	6,500		
Cup brush, twisted, shape 11		11,000	11,000	11,000	11,000	6-8,500		6,500			
Cup brush, twisted, shape 6				6-8,500		6-8,500		6,500			
Tapered brush, knotted						11,000					
Tapered brush, twisted						11,000	11,000				

Optimum peripheral speed

Application	Peripheral speed in m/s							
	5	15	20	25	30	35	40	45
Deburring								
Processing of welding seams								
Descaling								
Polishing								
Processing of plastic								
Cleaning								
Rust removal								

★★★ PREMIUM

SHIELD cup brushes

For steel

+ **Enhanced user safety**
The protective plastic flaps provide protection from undesired wire breakages and dust.

+ **Broad assortment**
SHIELD cup brushes from TYROLIT are available in various shapes and wire types.

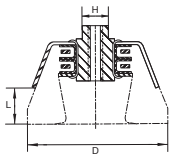
+ **No restriction**
The protection is transparent and therefore makes it easier to have a clear view of the surface being worked on. Even difficult-to-access areas are no longer a challenge thanks to the flexibility and pliability of the plastic.

With SHIELD cup brushes, TYROLIT offers a protective coating against dust and wire breakages combined with user-friendly use. The transparent protection allows the operator an unrestricted view of the workpiece even when performing edge and corner grinding. In addition, the plastic flaps offer a high level of flexibility, making it possible to machine difficult-to-reach places. SHIELD brushes are available in various designs and wire types, and offer the highest safety levels when working on steel applications. Our products are also frequently used to clean welding seams.

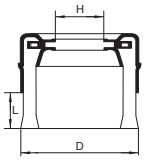
★★★ PREMIUM

SHIELD cup brushes

For steel



Shape 11TDW

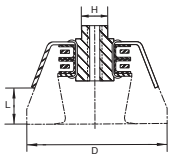


Shape 6TDZ

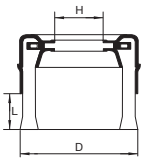
	Shape		Type no. new	Type no. old	Dimension	Specification	PU	RPM
		11TDW	34023778	20020127	2 9/16"x3/4"x5/8-11	S0,020	1	12,000
		6TDW	34023827		3 1/4"x1 3/16"x5/8-11	S0.012	1	8,500

★★★ PREMIUM

Cup brushes
For steel



Shape 11TDW, 11TDZ



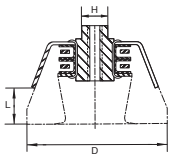
Shape 6TDZ

Wire brushes are universal tools for all applications. Cup brushes in particular are among the most commonly-used brush tools. TYROLIT will provide you with the appropriate wire brush for your application depending on the wire type. Twisted wire brushes are used for preparing surfaces and removing rust, scales and concrete residue. Wire brushes with knotted wire can also be used to remove rust and paint, as well as for fine grinding. Our products are also frequently used to clean welding seams.

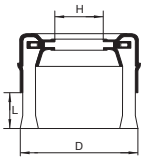
	Shape		Type no. new	Type no. old	Dimension	Specification	PU	RPM
		11TDW	34342445	20040086	3"x3/4"x5/8-11"	SZ0,014	1	14,000
			34348098	20020102	4"x1 1/4"x5/8-11"	SZ0,018	1	10,000
		11TDZ	34342670	20040083	2 3/4"x3/4"x5/8-11"	SZ0,020	1	15,000
			34342682	20040084	2 3/4"x3/4"x5/8-11"	SZ0,014	1	15,000
		6TDZ	34342683	20040099	4"x1"x5/8-11"	SZ0,014	1	10,000
			34342684		4"x1"x5/8-11"	SZ0,020	1	10,000
			34342685		5 1/2"x1"x5/8-11"	SZ0,020	1	6,500

★★★ PREMIUM

Cup brushes
For stainless steel



Shape 11TDZ



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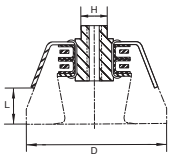
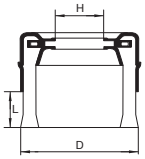
	Shape		Type no. new	Type no. old	Dimension	Specification	PU	RPM
		11TDZ	34342686	20040087	3"x3/4"x5/8-11"	E0,012INOX	1	14,000
			34342687		4"x1 1/4"x5/8-11"	E0,020INOX	1	10,000
		6TDZ	34342688		2 3/4"x3/4"x5/8-11"	E0,014INOX	1	15,000
			34342689	20040085	2 3/4"x3/4"x5/8-11"	E0,015INOX	1	15,000

★★★ PREMIUM

SHIELD cup brushes
For stainless steel



Shape 11TDZ



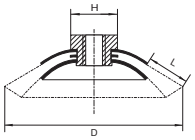
Shape 6TDZ

The transparent protection allows the operator an unrestricted view of the workpiece even when performing edge and corner grinding. In addition, the plastic flaps offer a high level of flexibility, making it possible to machine difficult-to-reach places.

Shape		Type no.	Dimension	Specification	PU	RPM
	11TDZ	34023813	2 9/16“x3/4“x5/8-11	E0,020INOX	1	15,000
	6TDZ	34023826	4“x1“x5/8-11	E0,020INOX	1	8,500

★★★ PREMIUM

Tapered brushes
For steel



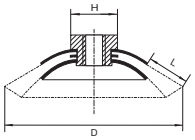
Shape 28KDW, 28KDZ

These PREMIUM*** wire brushes are particularly suitable for machining hard-to-reach parts due to their shape. TYROLIT will provide you with the appropriate wire brush for your application depending on the wire type. Twisted wire brushes are used for preparing surfaces and removing rust, scales and concrete residue. Wire brushes with knotted wire can also be used to remove rust and paint, as well as for fine grinding. Our products are also frequently used to clean welding seams.

Shape		Type no. new	Type no. old	Dimension	Specification	PU	RPM
	28KDW	34342691		4"x3/4"x5/8-11"	SZ0,014	1	15,000
	28KDZR	34342693		4"x3/4"x5/8-11"	SZ0,014	1	15,000
		34342695	20021810	4 1/2"x1 1/8"x5/8-11"	SZ0,020	1	15,000

★★★ PREMIUM

Tapered brushes
For stainless steel



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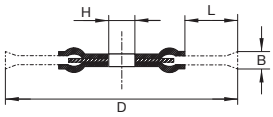
Shape		Type no.	Dimension	Specification	PU	RPM
	28KDW	34342699	4"x3/4"x5/8-11"	E0,012INOX	1	15,000
	28KDZR	34342701	4 1/2"x1 1/8"x5/8-11"	E0,014INOX	1	15,000

★★★ PREMIUM

Round brushes
For steel



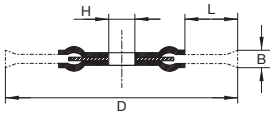
1RDZ

The PREMIUM*** round brushes are ideal for welding. TYROLIT will provide you with the appropriate wire brush for your application depending on the wire type. Twisted wire brushes are used for preparing surfaces and removing rust, scales and concrete residue. Wire brushes with knotted wire can also be used to remove rust and paint, as well as for fine grinding. Our products are also frequently used to clean welding seams.

Shape		Type no. new	Type no. old	Dimension	Specification	PU	RPM
	1RDZ	34342702	20020058	4"x7/16"x7/8"x5/8-11"	SZ0,020	1	13,000
		34342703	20020091	4 1/2"x7/16"x7/8"x5/8-11"	SZ0,020	1	15,000
		34348100		6"x1/2"x1 1/4"x5/8-11"	SZ0,020	1	11,000
		34342704		7"x1/2"x1 1/2"x5/8-11"	SZ0,020	1	11,000

★★★ PREMIUM

Pipeline round brush
For steel



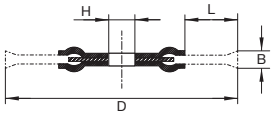
1RDZ

The PREMIUM*** Pipeliner brushes were specially developed for quick cleaning of pipe connections. Pipelines are often subject to demanding requirements and are therefore welded in several steps. Individual welding seams must first be cleaned in order to superimpose additional welding seams. Our pipeline brushes offer you a reliable and durable tool for this type of application.

Shape		Type no. new	Type no. old	Dimension	Specification	PU	RPM
	1RDZ	34348118	20020058	4"x1/4"x7/8"x 5/8"-11	SH0,020	1	20,000
		34346296		4-1/2"x1/4"x1"x 5/8"-11	SH0,020	1	11,000
		34348119	20040080	7"x1/4"x1-1/8"x 5/8"-11	SH0,020	1	9,000

★★★ PREMIUM

Round brushes
For stainless steel



1RDZ

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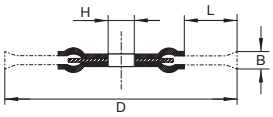
Shape		Type no.	Dimension	Specification	PU	RPM
	1RDZ	34345501	4"x7/16"x7/8"x5/8-11"	E0,020INOX	1	15,000
		34346297	4 1/2"x7/16"x7/8"x5/8-11"	E0,014INOX	1	15,000
		34346298	5"x1/2"x1"x5/8-11"	E0,014INOX	1	15,000
		34348115	6"x1/2"x1 1/4"x5/8-11"	E0,020INOX	1	11,000
		34346299	7"x5/8"x1 1/4"x5/8-11"	E0,020INOX	1	11,000

★★★ PREMIUM

Pipeline round brush

For stainless steel



1RDZ

The PREMIUM*** Pipeliner brushes were specially developed for quick cleaning of pipe connections. Pipelines are often subject to demanding requirements and are therefore welded in several steps.

Individual welding seams must first be cleaned in order to superimpose additional welding seams. Our pipeline brushes offer you a reliable and durable tool for this type of application.

	Shape		Type no. new	Type no. old	Dimension	Specification	PU	RPM
		1RDZ	34348123	20020060	4”x1/4”x7/8”x 5/8”-11	E0,020INOX	1	20,000
			34348125		4-1/2”x1/4”x1-1/8”x 5/8”-11	E0,020INOX	1	15,000

TYADUT

3.2 Brushes **for straight grinder**

Brushes
for straight grinder

Straight grinders are needed when precise results are required in hard-to-reach areas such as the inside of pipes. Their versatility makes them a popular tool.

That's why TYROLIT offers a comprehensive assortment of cup, round and wire brushes which can also be used on other machines, such as drilling machines. The range of applications is very wide. Shaft mounted brushes are used for surface treatment such as cleaning rust, deburring, texturing and removing layers such as paint or rubber.

Shapes

52TDW/52TDK
Cup brushes

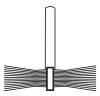
Suitable for cleaning work, such as removing paint or rust or for deburring

52RDW
Round brushes

For removing rust, cleaning, smoothing, polishing, matting and roughening

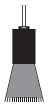
52RDZ
Round brushes

Designed for welding and removing scale and paint



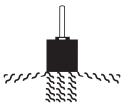
52RDK
Round brushes

For matting and glazing, coated with grain



52TDW/52TDK
Wire brushes

Suitable for roughening, deburring, descaling and cleaning. The plastic coating ensures a long tool life



52PDZ
Wire brushes

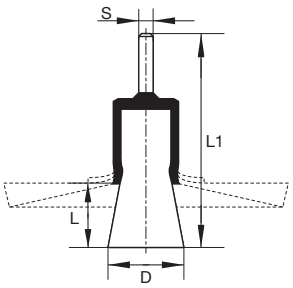
Suitable for roughening, deburring, descaling, matting and cleaning. These wire brushes are characterized by their high level of flexibility. The wire brush opens due to centrifugal force. They are also particularly suitable for cleaning the inside of pipes.

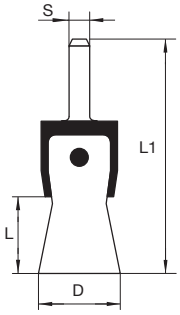
Application recommendation

Performance Level	Specification	Steel	Stainless steel	All in one	Pages
★★★ PREMIUM	SZ…	●			111/112
	E… INOX		●		111/113
	C…			●	113

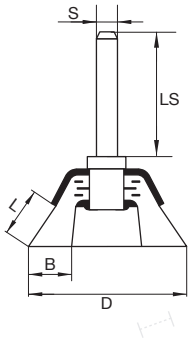
Dimensions

Wire brushes

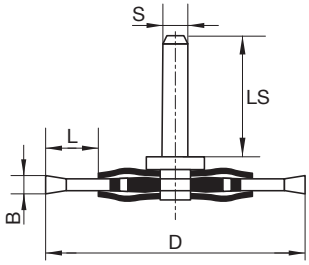


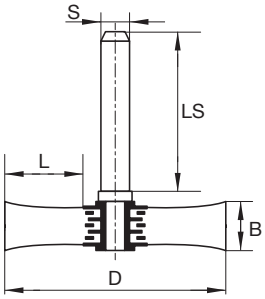


Shaft mounted cup brushes



Shaft mounted round brushes



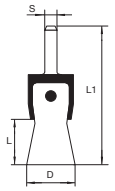


Optimum peripheral speed

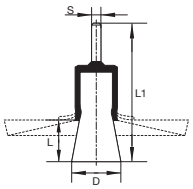
Application	Peripheral speed in m/s							
	5	15	20	25	30	35	40	45
Deburring								
Processing of welding seams								
Descaling								
Polishing								
Processing of plastic								
Cleaning								
Rust removal								

★★★ PREMIUM

Wire brushes
For steel



Shape 52PDW



Shape 52PDZ

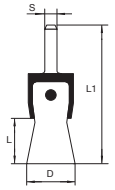
Wire brushes are ideal for machining hard-to-reach parts. With this product you will obtain a tool that can be used on both straight grinders and drilling machines. Twisted wire brushes are suitable for roughening, deburring, descaling, matting and cleaning. These wire brushes are characterized by their high level of flexibility.

The wire brush opens due to centrifugal force. They are also particularly suitable for cleaning the inside of pipes. Knotted wire brushes are suitable for roughening, deburring, descaling, matting and cleaning. Also to remove burr, rust, rubber and other impurities in difficult-to-reach areas. Wire brushes with plastic achieve a longer lifetime.

	Shape		Type no.	Dimension	Specification	PU	RPM
		52PDW	34342706	1/2"x3/4"-1/4"x2 3/8"	SZ0,008	25	25,000
			34342707	1/2"x3/4"-1/4"x2 3/8"	SZ0,014	25	25,000
			34342708	11/16"x7/8"-1/4"x2 3/8"	SZ0,014	25	22,000
			34342721	1"x1"-1/4"x2 3/4"	SZ0,014	25	20,000
		52PDZ	34342723	3/4"x1 1/8"-1/4"x2 3/4"	SZ0,010	25	20,000
			34342727	3/4"x 1 1/8"-1/4"x2 3/4"	SZ0,014	25	20,000
			34342728	7/8"x1 1/8"-1/4"x2 3/4"	SZ0,014	25	20,000
			34342729	1 1/8"x1 1/8"-1/4"x2 3/4"	SZ0,010	25	20,000
			34342730	1 1/8"x1 1/8"-1/4"x2 3/4"	SZ0,014	25	20,000

★★★ PREMIUM

Wire brushes
For stainless steel



Shape 52PDW

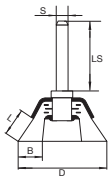
Wire brushes are ideal for machining hard-to-reach parts. With this product you will obtain a tool that can be used on both straight grinders and drilling machines. Twisted wire brushes are suitable for roughening, deburring, descaling, matting and cleaning. These wire brushes are characterized by their high level of flexibility. The wire brush opens due to centrifugal force. They are also particularly suitable for cleaning the inside of pipes. Knotted wire brushes are suitable for roughening, deburring, descaling, matting and cleaning. Also to remove burr, rust, rubber and other impurities in difficult-to-reach areas.

	Shape		Type no.	Dimension	Specification	PU	RPM
		52PDW	34342883	1/2"x3/4"-1/4"x2 3/8"	E0,012INOX	25	25,000
			34342884	11/16"x7/8"-1/4"x2 3/8"	E0,012INOX	25	22,000
			34342885	1"x1"-1/4"x2 3/4"	E0,012INOX	25	20,000
			34348127	3/4"x 1 1/8"-1/4"x2 3/4"	E0,010INOX P	25	20,000
			34348128	7/8"x1 1/8"-1/4"x2 3/4"	E0,010INOX P	25	20,000
			34348130	1 1/8"x1 1/8"-1/4"x2 3/4"	E0,010INOX P	25	20,000

Cutting
Grinding
Brushes
Coated abrasives
Precision grinding
Notes

★★★ PREMIUM

Shaft mounted cup brushes
For steel



Shape 52PDW

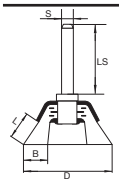
Shaft mounted cup brushes are ideal for machining hard-to-reach parts. With this product you will obtain a tool that can be used on both straight grinders and drilling machines.

Knotted shaft mounted cup brushes are suitable for cleaning work, such as removing paint, rust, scale, crust, or deburring.

	Shape		Type no.	Dimension	Specification	PU	RPM
		52TDW	34342886	2"x3/8"x3/4"-1/4"x1 1/4"	SZ0,014	25	13,000
			34342888	2 3/8"x5/8"x3/4"-1/4"x1 1/4"	SZ0,014	25	5,600
			34342889	2 3/4"x5/8"x1"-1/4"x1 1/4"	SZ0,014	25	5,600

★★★ PREMIUM

Shaft mounted cup brushes
For universal use



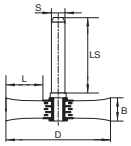
Shape 52TDK

Shaft mounted cup brushes are ideal for machining hard-to-reach parts. With this product you will obtain a tool that can be used on both straight grinders and drilling machines. Shaft mounted cup brushes with silicon carbide are very hard and thus enable very high stock removal rates. Their use includes deburring work on various workpieces made of practically any material, such as steel, aluminum, stainless steel, copper, brass, etc. In addition, silicon carbide is used for wood structuring.

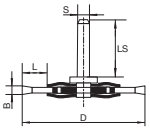
	Shape		Type no.	Dimension	Specification	PU	RPM
		52TDW	34342890	2 3/4"x5/8"x1"-1/4"x1 1/4"	C180	25	5,600

★★★ PREMIUM

Shaft mounted round brushes
For steel



Shape 52RDW



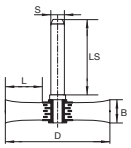
Shape 52RDZ

Shaft mounted round brushes are ideal for machining hard-to-reach parts. With this product you will obtain a tool that can be used on both straight grinders and drilling machines. Knotted wire brushes are suitable for removing rust, cleaning, smoothing, polishing, matting and roughening. Twisted shaft mounted round brushes are designed for welding and removing scale and paint.

	Shape		Type no.	Dimension	Specification	PU	RPM
		52RDW	34342902	2"x5/8"x1/2"-1/4"x1 1/4"	SZ0,008	25	18,000
			34342904	2"x5/8"x1/2"-1/4"x1 1/4"	SZ0,014	25	18,000
			34342906	2 3/4"x5/8"x3/4"-1/4"x1 1/4"	SZ0,014	25	18,000
			34342907	3"x5/8"x3/4"-1/4"x1 1/4"	SZ0,014	25	15,000
		52RDZ	34342446	2 3/4"x1/4"x5/8"-1/4"x1 1/4"	SZ0,012	25	18,000

★★★ PREMIUM

Shaft mounted round brushes
For stainless steel



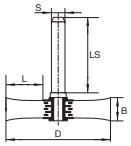
Shape 52RDW

Shaft mounted round brushes are ideal for machining hard-to-reach parts. With this product you will obtain a tool that can be used on both straight grinders and drilling machines. Knotted wire brushes are suitable for removing rust, cleaning, smoothing, polishing, matting and roughening. Twisted shaft mounted round brushes are designed for welding and removing scale and paint.

	Shape		Type no.	Dimension	Specification	PU	RPM
		52RDW	34342908	2"x5/8"x1/2"-1/4"x1 1/4"	E0,008INOX	25	18,000
			34342909	2 3/4"x5/8"x3/4"-1/4"x1 1/4"	E0,012INOX	25	18,000

★★★ PREMIUM

Shaft mounted round brushes
For universal use



Shape 52RDK

Shaft mounted round brushes are ideal for machining hard-to-reach parts. With this product you will obtain a tool that can be used on both straight grinders and drilling machines. Shaft mounted round brushes with silicon carbide are very hard and thus enable very high stock removal rates. Their use includes deburring work on various workpieces made of practically any material, such as steel, aluminum, stainless steel, copper, brass, etc. In addition, silicon carbide is used for wood structuring.

	Shape		Type no.	Dimension	Specification	PU	RPM
		52RDK	34342910	2 3/4"x3/4"x3/4"-1/4"x1 1/4"	C180	25	18,000

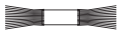
3.3 Brushes
for floorstanding grinder

Brushes
for floorstanding grinders

A floorstanding grinder is a versatile machine used in many workshops to work on different materials. The wide assortment of TYROLIT tool brushes have the right shape, wire type and specification for every application.

Knotted round brushes, with and without grain, are ideal for removing rust, cleaning, smoothing, polishing, matting and roughening. Twisted round brushes, on the other hand, are suitable for rough work such as welding and removing scale and paint.

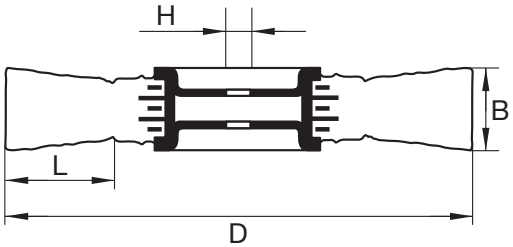
Shapes



1RDW
Round brushes

For removing rust, cleaning, smoothing, polishing, matting and roughening

Dimensions round brushes



Application recommendation

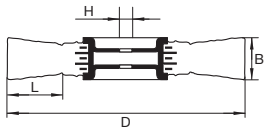
Performance Level	Specification	Steel	Pages
★★★ PREMIUM	SZ...	●	117

Optimum peripheral speed

Application	Peripheral speed in m/s							
	5	15	20	25	30	35	40	45
Deburring				■	■	■		
Processing of welding seams						■	■	■
Descaling						■	■	■
Polishing					■	■	■	
Processing of plastic		■	■					
Cleaning	■	■	■	■				
Rust removal	■	■	■	■				

★★★ PREMIUM

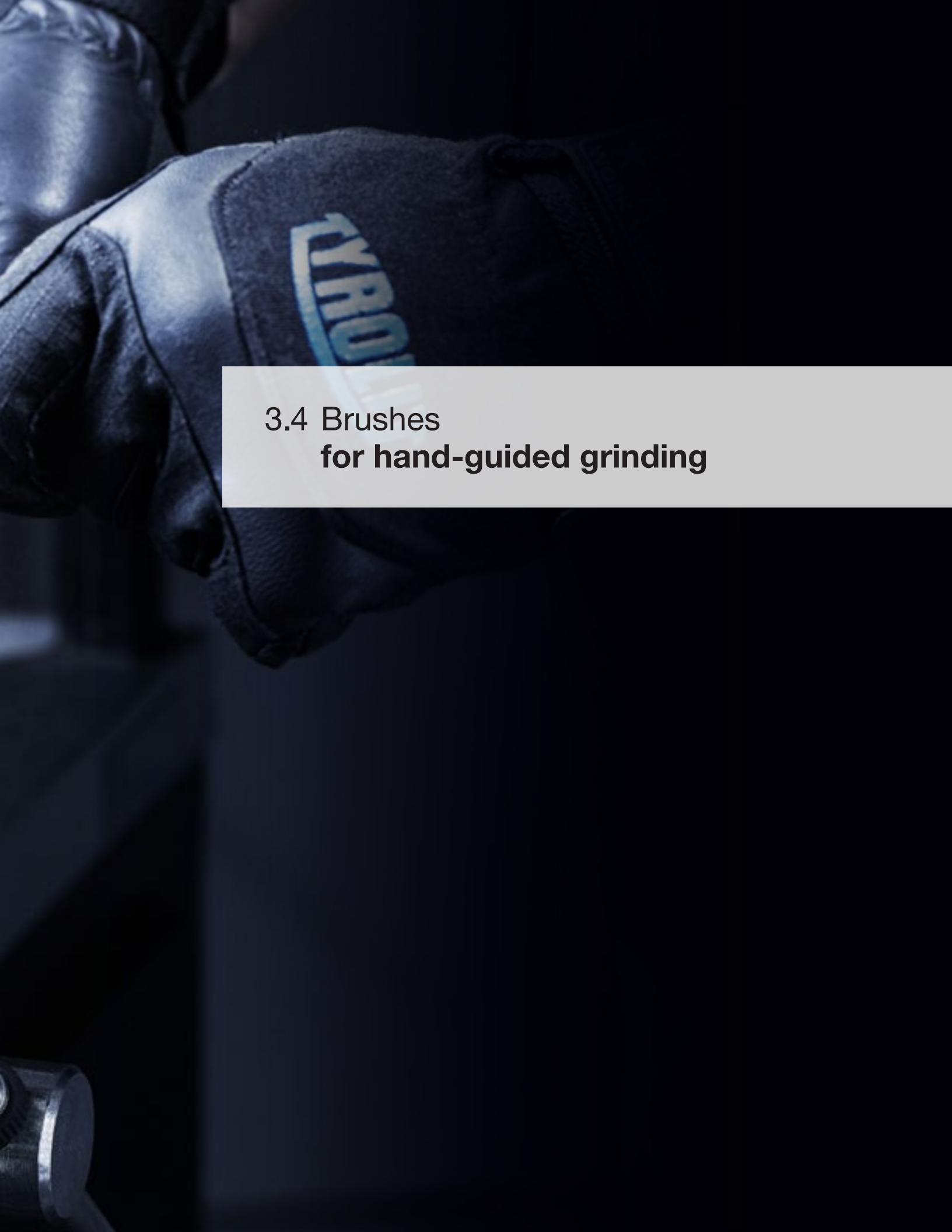
Round brushes
For steel



1RDW

Round brushes for floorstanding grinders. TY-ROLIT will provide you with the appropriate wire brush for your application depending on the wire type. Twisted wire brushes are used for preparing surfaces and removing rust, scales and concrete residue. Wire brushes with knotted wire can also be used to remove rust and paint, as well as for fine grinding. Our products are also frequently used to clean welding seams.

Shape		Type no. new	Type no. old	Dimension	Specification	PU	RPM
	1RDW	34343042	20020114	6"x3/4"x1 1/8"x1 1/4"-1/2"	SZ0,014	1	6,500
		34343043	20020117	8"x3/4"x1 5/8"x1 1/4" - 1/2"	SZ0,014	1	4,500



3.4 Brushes **for hand-guided grinding**

Hand-operated tool brushes

Brushes are suitable for universal use and can be employed in a very wide range of applications: deburring, cleaning welding seams or the surfaces of virtually any material.

With a large selection of shapes, it is possible to clean and work on hard-to-reach areas. Our range even includes a suitable hand brush for cleaning spark plugs. The TYROLIT range of brushes offers the right wire type and specification for every application.

Shapes

90HDG Hand brush

Hand brush for universal use

90SDW Hand brush

For smooth finishing of profiled surfaces

90ZKDW Hand brush

Specially for cleaning spark plugs

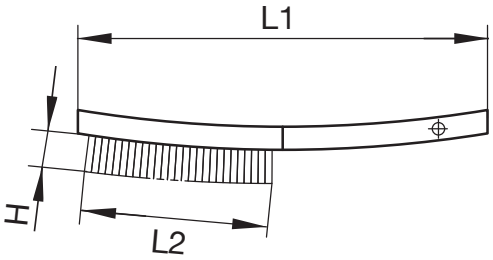
90HKDG Hand brush

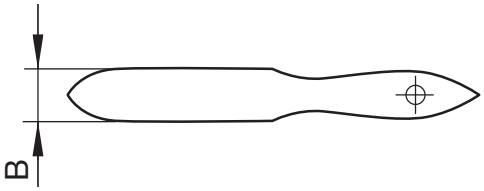
V-shaped, for cleaning hard-to-reach welding seams and fillet welds

90HFDW Hand brush

File brush for cleaning sensitive surfaces

Dimensions Hand brushes



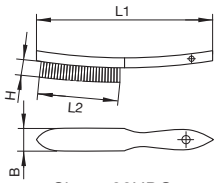


Application recommendation

Performance Level	Specification	Steel	Stainless steel	NF metals	Pages
★★★ PREMIUM	S…	●			121/122/123
	E… INOX		●		121/122/123
	M…			●	122

★★★ PREMIUM

UNIVERSAL HAND BRUSHES
For steel



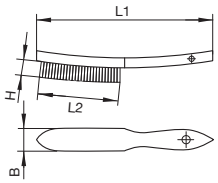
Shape 90HDG

TYROLIT hand brushes are suitable for practically any application. This tool enables the deburring and cleaning of welding seams and surfaces. The assortment consists of wire brushes with a varying number of wire sequences that can be used depending on the application. These products are equipped with a high-quality beech wood handle.

Shape		Type no. new	Type no. old	Dimension	Rows	Specification	PU
	90HDG	895576	20020122	12-1/2"x1-1/8"x1"x5 1/2"	3x19	S0.012	12
		895577	20020124	12-1/2"x1-1/4"x1"x5 1/2"	4x19	S0.012	12

★★★ PREMIUM

UNIVERSAL HAND BRUSHES
For stainless steel



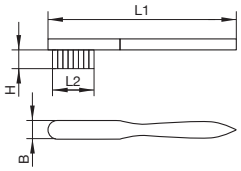
Shape 90HDG

These brushes are stainless steel specialists when it comes to deburring and cleaning welding seams and surfaces. The assortment consists of wire brushes with a varying number of wire sequences that can be used depending on the application. These products are equipped with a high-quality beech wood handle.

Shape		Type no. new	Type no. old	Dimension	Rows	Specification	PU
	90HDG	895580	20020123	12-1/2"x1-1/8"x1"x5 1/2"	3x19	E0.012INOX	12
		896207	20020125	12-1/2"x1-1/4"x1"x5 1/2"	4x19	E0.012INOX	12

★★★ PREMIUM

SPARK BRUSH
For nonferrous metals



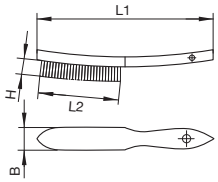
Shape 90ZKDW

Spark brushes are frequently used for precision work requiring a thin wire. Cleaning of contact points; the soft brass filaments do not scratch the surface. This spark brush has been specially designed for cleaning contact points.

	Shape	Type no. new	Type no. old	Dimension	Rows	Specification	PU
		90ZKDW	903434	20020126	5 1/2"x3/4"x5/8"x1 1/4"	3x7	M0.006	12

★★★ PREMIUM

FILLET WELD BRUSH
For steel



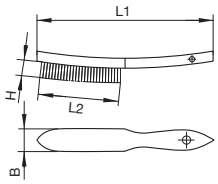
Shape 90HDKG

Hand brushes are a popular tool and are often used in the metal machining sector and on construction sites. TYROLIT fillet weld brush filaments are V-shaped to facilitate the removal of slag and scale from difficult-to-reach places. This tool is particularly suited to the cleaning of fillet welds. This fillet weld brush is specially designed for use on steel and has a robust construction for heavy work

	Shape	Type no.	Dimension	Rows	Specification	PU
		90HDKG	199682	12 1/2"x1 1/4"x1 1/4"x5 1/2	3x15	S0.014	12

★★★ PREMIUM

FILLET WELD BRUSH
For stainless steel



Shape 90HDKG

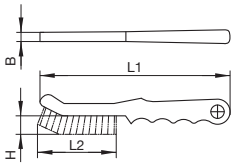
Hand brushes are a popular tool and are often used in the metal machining sector and on construction sites. This fillet weld brush is specially designed for use on stainless steel and has a robust construction for heavy work. The V-shaped filaments facilitate the removal of slag and scale from very difficult-to-reach places. This tool is particularly suited to the cleaning of fillet welds.

	Shape	Type no.	Dimension	Rows	Specification	PU
		90HDKG	199689	12 1/2"x1 1/4"x1 1/4"x5 1/2"	3x15	E0.014INOX	12

★★★ PREMIUM

ALL-PURPOSE WIRE BRUSH

For steel



Shape 90SDW

TYROLIT hand brushes are suitable for practically any application. This tool enables the deburring and cleaning of welding seams and surfaces.

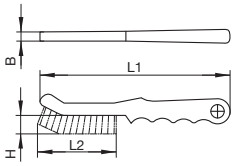
These products are equipped with an ergonomic plastic handle.

	Shape		Type no. new	Type no. old	Dimension	Rows	Specification	PU
		90SDW	896223	20020130	10"x3/8"x1-1/8"x5-1/2"	1	S0,012	24

★★★ PREMIUM

ALL-PURPOSE WIRE BRUSH

For stainless steel



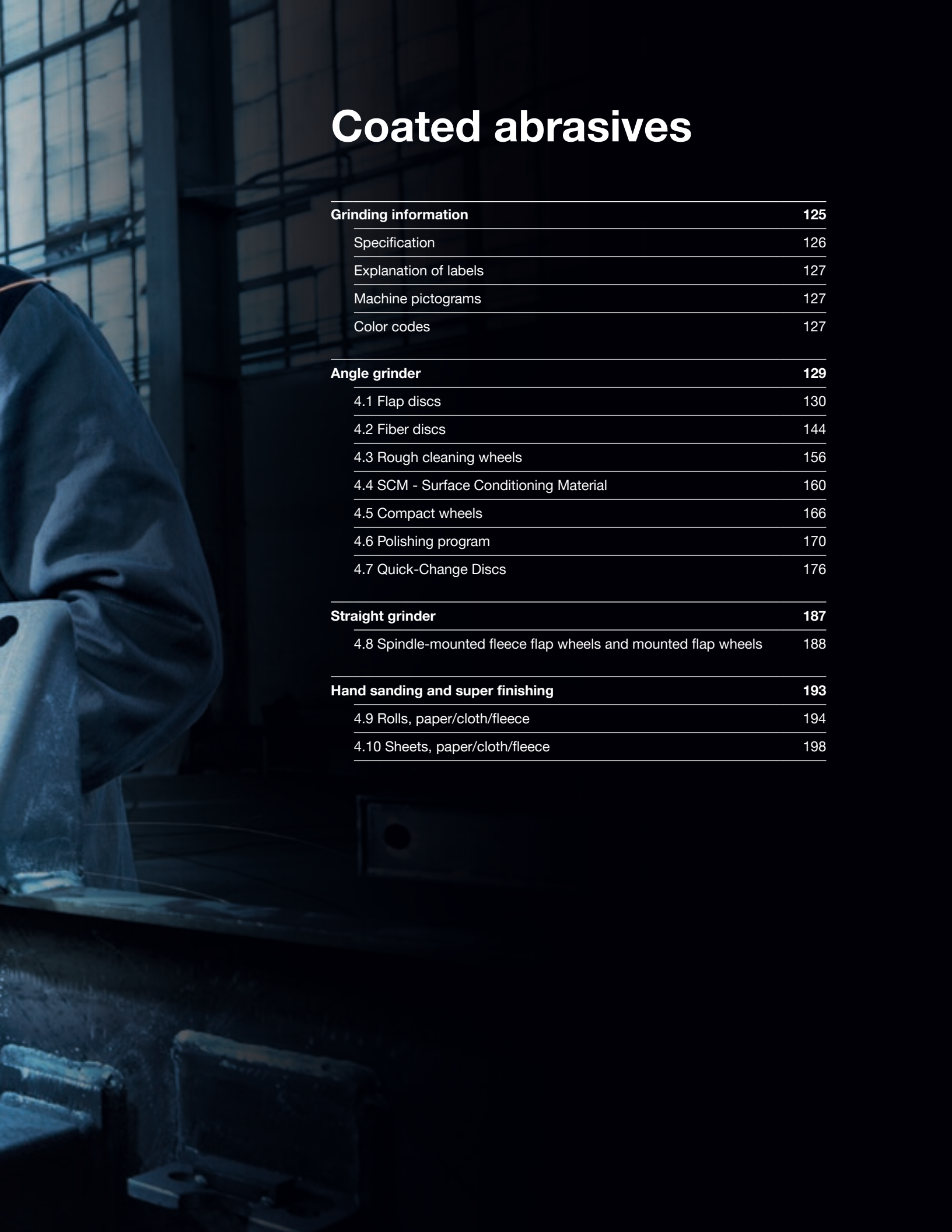
Shape 90SDW

These brushes are stainless steel specialists when it comes to deburring and cleaning welding seams and surfaces.

These products are equipped with an ergonomic plastic handle.

	Shape		Type no. new	Type no. old	Dimension	Rows	Specification	PU
		90SDW	896224	20020131	10"x3/8"x1-1/8"x5-1/2"	1	E0,012INOX	24

TYROLIT



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Specific information
Specification

ZA-P43N

N	Underlay made of natural fibers
V	Underlay made of vulcanized fibers
A/B/C/F	Weight of paper
C J	Cloth – flexible
C JJ	Cloth – very flexible
C JX	Cloth – semi-flexible
PC-X	Polycotton – rigid
PC-Y	Polycotton – very rigid
PE-Y	Polyester – very rigid
FI	Film
01	Structural steel, carbon steel, aluminum, nonferrous metals etc.
02	Structural steel, carbon steel, aluminum, nonferrous metals etc.; with active additives
03	Stainless steel, steel and soft metals; with active additives; wet and dry
06	Structural steel, carbon steel, aluminum, nonferrous metals, wood etc.; with active additives
07	All metals; wet and dry
21	Paint, lacquers, composite materials, gel coat; for universal use; light with stearate layer
22	Paint, lacquers, composites, gel coat; for universal use; aggressive with stearate layer
35	Wood, lacquers, paint, for universal use
41	Structural steel, carbon steel, aluminum etc.; low to medium pressure, active additives
43	Steel, carbon steel, aluminum etc.; medium to high pressure; active additives
45	Steel, carbon steel, stainless steel etc.; low pressure; active additives
47	Stainless steel, high-alloy steel, hardened steel; medium to high pressure; active additives and Topsize
48	Stainless steel, high-alloy steel, hardened steel; medium to high pressure; active additives and Topsize
65	Stone, tiles, composites, gel coat, epoxies, glass etc.
68	Stone; wet and dry
93	Stainless steel, high-alloy steel, hardened steel; medium to high pressure; active additives and Topsize
P	PREMIUM***
B	BASIC*
ZA	Zirconium
A	Aluminum oxide
CA	Sintered aluminum oxide
C	Silicon carbide

Active additives: for cooler grinding
Topsize: for cooler grinding on stainless steel and high-alloy steel
Stearate layer: reduces loading and smearing

Flap discs product label

Registered trademark

Performance level

Special application

EAN code

Application and safety pictograms

Material suitability

Type number

EAN code

Shape and specification

Dimensions, external x bore diameter metric and inches

Max. RPM

Pictograms for machines

Angle grinder

Mini belt grinder

Hand sanding

Color codes

Label	Steel	2in1/3in1	INOX	Nonferrous metals
Color code	Blue	Blue	Red	Orange
Material	Steel	Steel and stainless steel	Stainless steel	Aluminum, copper, zinc, brass, bronze, stone

TYROLIT
WORK WEAR

4.1 Flap discs **for angle grinder**

Flap discs **for angle grinders**

Working with an angle grinder is one of the most important processes in the trade and industrial sectors for processing all types of metals. TYROLIT offers a comprehensive assortment of flap discs for this purpose.

Whatever the application and whichever shape you prefer: we have the right product for you. Since TYROLIT always puts your health first, we offer flap discs with a core made from natural fibers, which can even be trimmed. Innovative and precisely adapted to the application. That's TYROLIT for you! On the following pages you will find the perfect tool for your requirements thanks to the uniform color code for all materials.

TYROLIT FILM
The product film can be found on YouTube at **www.youtube.com/TYROLITgroup**

Shapes

27A Flap disc

Straight design with fiberglass core. This shape ensures optimum use of the abrasive cloth with a grinding angle of 0 – 15°.

27NF Flap disc

Core made from natural fibers for easy trimming-straight.

27N Flap disc

Straight design with plastic core. This shape ensures optimum use of the abrasive cloth with a grinding angle of 0 – 15°. The core can also be reset in order to use the abrasive cloth completely.

29A Flap disc

Depressed-center design with fiberglass core. This shape creates the perfect angle of 15° – 20°.

Application recommendation

Performance Level	Specification	Design	Stainless steel	2in1	NF metals	Pages
★★★ PREMIUM	ZA...-B	LONGLIFE C-TRIM		●		132/133
	ZA...-B	LONGLIFE		●		133
	ZA...-B	HD-MAX		●		134/135
	ZA...-B			●		135/136
	ZA...-B	Cerabond	●			140
	CA...-B				●	141
★ BASIC	ZA...-B			●		136/137/
						138/139

★★★ PREMIUM

LONGLIFE C-TRIM

For steel and stainless steel

+ **Longest lifetime**
The PREMIUM*** LONGLIFE C-TRIM offers the longest lifetime with consistent abrasiveness and performance.

+ **Robust construction**
Through the increased number of closely spaced flaps, this disc can withstand even the highest loads.

+ **100% wheel usage**
The LONGLIFE C-TRIM can be easily trimmed by the plastic core, which enables 100% disc usage. The disc can easily be reset at edges so that new cloth can always be used for grinding.

Thanks to its new design, the PREMIUM*** LONGLIFE C-TRIM ensures an excellent stock removal rate and consistent results with 100% use of the disc thanks to the trimming option. You will attain unbeatable value in terms of lifetime. The LONGLIFE C-TRIM can be used on high alloyed steels and stainless steel, as well as on unalloyed and low alloyed steels. Problem-free welding, and edge and surface grinding, particularly when used on powerful angle grinders. Thanks to its compact design, a long lifetime is guaranteed during deburring of sharp edges on thin metal sheets.

★★★ PREMIUM

LONGLIFE C-TRIM

For steel and stainless steel

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27N	34333927	34239191	4 1/2"x7/8"	ZA40-B	13,300	10
		34333928		4 1/2"x5/8-11"	ZA40-B	13,300	5
		34333965	34239192	4 1/2"x7/8"	ZA60-B	13,300	10
		34334028		4 1/2"x5/8-11"	ZA60-B	13,300	5
		34334029	34239193	4 1/2"x7/8"	ZA80-B	13,300	10

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
27N	34334030		4 1/2"x5/8-11"	ZA80-B	13,300	5
	34334081	34239195	5"x7/8"	ZA40-B	12,250	10
	34334083		5"x5/8-11"	ZA40-B	12,250	5
	34334085	34239196	5"x7/8"	ZA60-B	12,250	10
	34334087		5"x5/8-11"	ZA60-B	12,250	5
	34334089	34239197	5"x7/8"	ZA80-B	12,250	10
	34334091		5"x5/8-11"	ZA80-B	12,250	5
	34334092	34239199	7"x7/8"	ZA40-B	8,600	10
	34334093		7"x5/8-11"	ZA40-B	8,600	5
	34334094	34239200	7"x7/8"	ZA60-B	8,600	10
	34334095		7"x5/8-11"	ZA60-B	8,600	5
	34334096	34239221	7"x7/8"	ZA80-B	8,600	10
	34334097		7"x5/8-11"	ZA80-B	8,600	5

★★★ PREMIUM

Flap disc
LONGLIFE for steel and stainless steel

Problem-free welding as well as edge and surface grinding, particularly when used on powerful angle grinders.

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
27N	395914	680369	4 1/2"x7/8"	ZA40-B	13,300	10
	34334403		4 1/2"x5/8-11"	ZA40-B	13,300	5
	395920	680373	4 1/2"x7/8"	ZA60-B	13,300	10
	34334404		4 1/2"x5/8-11"	ZA60-B	13,300	5
	395923	680376	4 1/2"x7/8"	ZA80-B	13,300	10
	34334405		4 1/2"x5/8-11"	ZA80-B	13,300	5
	395916	680379	5"x7/8"	ZA40-B	12,250	10
	34334406		5"x5/8-11"	ZA40-B	12,250	5
	395921	680380	5"x7/8"	ZA60-B	12,250	10
	34334409		5"x5/8-11"	ZA60-B	12,250	5
	395925	680383	5"x7/8"	ZA80-B	12,250	10
	34334407		5"x5/8-11"	ZA80-B	12,250	5
	395919	680387	7"x7/8"	ZA40-B	8,600	10
	34334408		7"x5/8-11"	ZA40-B	8,600	5
	395922	680388	7"x7/8"	ZA60-B	8,600	10
	34334410		7"x5/8-11"	ZA60-B	8,600	5
	395927	680389	7"x7/8"	ZA80-B	8,600	10
	34334421		7"x5/8-11"	ZA80-B	8,600	5

★★★ PREMIUM

HD-MAX Flap disc

2in1 for steel and stainless steel

+ **Trimmable core**
The plastic core of the HD-MAX can be easily reset at the work-piece edges. This means that all of the disc can be used.

+ **More flaps**
Increased lifetime thanks to more flaps and more cloth on the flap disc.

+ **Maximum comfort**
The increase in the number of flaps has a dampening effect on the disc, which increases the level of comfort when working.

The HD-MAX is characterized by more cloth and more flaps, so HD - High Density for maximum lifetime. It also has a trimmable plastic core that increases the lifetime and productivity. The zirconium aluminum oxide grain ensures fast removal and uniform surfaces with no discoloration. The HD-Max is suitable for processing welding seams, for shaping corners and edges and for surface grinding.

★★★ PREMIUM

HD-MAX Flap disc

2in1 for steel and stainless steel

Shape		Type no.	Dimension	Specification	RPM	PU
	27N	34299592	4 1/2"x7/8"	ZA40-B	13,300	10
		34334098	4 1/2"x5/8-11"	ZA40-B	13,300	5
		34299593	4 1/2"x7/8"	ZA60-B	13,300	10
		34334099	4 1/2"x5/8-11"	ZA60-B	13,300	5
		34299594	4 1/2"x7/8"	ZA80-B	13,300	10
		34334100	4 1/2"x5/8-11"	ZA80-B	13,300	5
		34299595	5"x7/8"	ZA40-B	12,250	10
		34334111	5"x5/8-11"	ZA40-B	12,250	5

Shape		Type no.	Dimension	Specification	RPM	PU
	27N	34299596	5"x7/8"	ZA60-B	12,250	10
		34334112	5"x5/8-11"	ZA60-B	12,250	5
		34299597	5"x7/8"	ZA80-B	12,250	10
		34334113	5"x5/8-11"	ZA80-B	12,250	5

★★★ PREMIUM

Flap disc

2in1 for steel and stainless steel

The PREMIUM*** 2in1 flap disc combines an excellent lifetime with very high specific abrasion. The TYROLIT 2in1 flap disc is used both on high alloyed steels and stainless steel, as well as on unalloyed and low alloyed steels.

Problem-free welding as well as edge and surface grinding, particularly when used on powerful angle grinders.

Shape		Type no.	Dimension	Specification	RPM	PU
	29A	34334120	4 1/2"x7/8"	ZA40-B	13,300	10
		34334141	4 1/2"x5/8-11"	ZA40-B	13,300	5
		34334676	4 1/2"x7/8"	ZA60-B	13,300	10
		34334677	4 1/2"x5/8-11"	ZA60-B	13,300	5
		34334145	4 1/2"x7/8"	ZA80-B	13,300	10
		34334149	4 1/2"x5/8-11"	ZA80-B	13,300	5
		34334678	4 1/2"x7/8"	ZA120-B	13,300	10
		34334679	4 1/2"x5/8-11"	ZA120-B	13,300	5
		34334680	5"x7/8"	ZA40-B	12,250	10
		34334681	5"x5/8-11"	ZA40-B	12,250	5
		34334126	5"x7/8"	ZA60-B	12,250	10
		34334127	5"x5/8-11"	ZA60-B	12,250	5
		34334128	5"x7/8"	ZA80-B	12,250	10
		34334129	5"x5/8-11"	ZA80-B	12,250	5
		34334682	5"x7/8"	ZA120-B	12,250	10
		34334683	5"x5/8-11"	ZA120-B	12,250	5
		34334684	6"x7/8"	ZA40-B	10,200	10
		34334685	6"x5/8-11"	ZA40-B	10,200	5
		34334686	6"x7/8"	ZA60-B	10,200	10
		34334687	6"x5/8-11"	ZA60-B	10,200	5
		34334153	7"x7/8"	ZA40-B	8,600	10
		34334154	7"x5/8-11"	ZA40-B	8,600	5
		34334155	7"x7/8"	ZA60-B	8,600	10
		34334156	7"x5/8-11"	ZA60-B	8,600	5
		34334157	7"x7/8"	ZA80-B	8,600	10
		34334158	7"x5/8-11"	ZA80-B	8,600	5
		34334688	7"x7/8"	ZA120-B	8,600	10
		34334689	7"x5/8-11"	ZA120-B	8,600	5

Shape	Type no.	Dimension	Specification	RPM	PU
27A	34334161	4 1/2"x7/8"	ZA40-B	13,300	10
	34334162	4 1/2"x5/8-11"	ZA40-B	13,300	5
	34334163	4 1/2"x7/8"	ZA60-B	13,300	10
	34334164	4 1/2"x5/8-11"	ZA60-B	13,300	5
	34334165	4 1/2"x7/8"	ZA80-B	13,300	10
	34334167	4 1/2"x5/8-11"	ZA80-B	13,300	5
	34334690	4 1/2"x7/8"	ZA120-B	13,300	10
	34334691	4 1/2"x5/8-11"	ZA120-B	13,300	5
	34334169	5"x7/8"	ZA40-B	12,250	10
	34334170	5"x5/8-11"	ZA40-B	12,250	5
	34334171	5"x7/8"	ZA60-B	12,250	10
	34334172	5"x5/8-11"	ZA60-B	12,250	5
	34334692	5"x7/8"	ZA80-B	12,250	10
	34334693	5"x5/8-11"	ZA80-B	12,250	5
	34334694	5"x7/8"	ZA120-B	12,250	10
	34334695	5"x5/8-11"	ZA120-B	12,250	5
	34334175	7"x7/8"	ZA40-B	8,600	10
	34334176	7"x5/8-11"	ZA40-B	8,600	5
	34334177	7"x7/8"	ZA60-B	8,600	10
	34334178	7"x5/8-11"	ZA60-B	8,600	5
	34334179	7"x7/8"	ZA80-B	8,600	10
	34334180	7"x5/8-11"	ZA80-B	8,600	5
	34334696	7"x7/8"	ZA120-B	8,600	10
	34334697	7"x5/8-11"	ZA120-B	8,600	5

★ BASIC

Flap disc

2in1 for steel and stainless steel

The BASIC* 2-in-1 flap disc offers good specific removal. Thanks to a new upgrade, the BASIC* flap disc achieves an unprecedented lifetime and 30% more power. The TYROLIT 2in1 flap disc is used both on high alloyed steels and stainless steel, as well as on unalloyed and low alloyed steels.

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
29A	34334377	474872	4"x5/8"	ZA40-B	15,300	10
	34335384	474874	4"x5/8"	ZA60-B	15,300	10
	34335385	474875	4"x5/8"	ZA80-B	15,300	10
	34335386	273884	4 1/2"x7/8"	ZA40-B	13,300	10
	34335387	20041736	4 1/2"x5/8-11"	ZA40-B	13,300	5
	34335388	273810	4 1/2"x7/8"	ZA60-B	13,300	10
	34335389	20041737	4 1/2"x5/8-11"	ZA60-B	13,300	5

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	29A	34335390	273871	4 1/2"x7/8"	ZA80-B	13,300	10
		34335421	20041739	4 1/2"x5/8-11"	ZA80-B	13,300	5
		34335422		4 1/2"x7/8"	ZA120-B	13,300	10
		34335423		4 1/2"x5/8-11"	ZA120-B	13,300	5
		34335741	273872	5"x7/8"	ZA40-B	12,250	10
		34335742	20041740	5"x5/8-11"	ZA40-B	12,250	5
		34335743	273873	5"x7/8"	ZA60-B	12,250	10
		34335744	20041741	5"x5/8-11"	ZA60-B	12,250	5
		34335745	273874	5"x7/8"	ZA80-B	12,250	10
		34335746	20041742	5"x5/8-11"	ZA80-B	12,250	5
		34335747		5"x7/8"	ZA120-B	12,250	10
		34335748		5"x5/8-11"	ZA120-B	12,250	5
		34335749		6"x7/8"	ZA40-B	10,200	10
		34335750		6"x5/8-11"	ZA40-B	10,200	5
		34335751		6"x7/8"	ZA60-B	10,200	10
		34335752		6"x5/8-11"	ZA60-B	10,200	5
		34335735		6"x7/8"	ZA80-B	10,200	10
		34335736		6"x5/8-11"	ZA80-B	10,200	5
		34335737		6"x7/8"	ZA120-B	10,200	10
		34335738		6"x5/8-11"	ZA120-B	10,200	5
		34335739		7"x7/8"	ZA40-B	8,600	10
		34335740		7"x5/8-11"	ZA40-B	8,600	5
		34335761		7"x7/8"	ZA60-B	8,600	10
		34335762		7"x5/8-11"	ZA60-B	8,600	5
		34335763		7"x7/8"	ZA80-B	8,600	10
		34335764		7"x5/8-11"	ZA80-B	8,600	5
		34335765		7"x7/8"	ZA120-B	8,600	10
		34335766		7"x5/8-11"	ZA120-B	8,600	5
	27A	34336498	320318	4 1/2"x7/8"	ZA40-B	13,300	10
		34336499	34166305	4 1/2"x5/8-11"	ZA40-B	13,300	5
		34336500	320320	4 1/2"x7/8"	ZA60-B	13,300	10
		34336522	34166307	4 1/2"x5/8-11"	ZA60-B	13,300	5
		34336523	320322	4 1/2"x7/8"	ZA80-B	13,300	10
		34336484	34166308	4 1/2"x5/8-11"	ZA80-B	13,300	5
		34336485		4 1/2"x7/8"	ZA120-B	13,300	10
		34336486		4 1/2"x5/8-11"	ZA120-B	13,300	5
		34336488	320319	5"x7/8"	ZA40-B	12,250	10
		34336489	34166324	5"x5/8-11"	ZA40-B	12,250	5
		34336551	320321	5"x7/8"	ZA60-B	12,250	10
		34336552	34166330	5"x5/8-11"	ZA60-B	12,250	5

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27A	34336553	320323	5"x7/8"	ZA80-B	12,250	10
		34336554	34166332	5"x5/8-11"	ZA80-B	12,250	5
		34336555		5"x7/8"	ZA120-B	12,250	10
		34336556		5"x5/8-11"	ZA120-B	12,250	5
		34336558		6"x7/8"	ZA40-B	10,200	10
		34336559		6"x5/8-11"	ZA40-B	10,200	5
		34336561		6"x7/8"	ZA60-B	10,200	10
		34336562		6"x5/8-11"	ZA60-B	10,200	5
		34336563		6"x7/8"	ZA80-B	10,200	10
		34336564		6"x5/8-11"	ZA80-B	10,200	5
		34336566		6"x7/8"	ZA120-B	10,200	10
		34336568		6"x5/8-11"	ZA120-B	10,200	5
		34336570		7"x7/8"	ZA40-B	8,600	10
		34336572		7"x5/8-11"	ZA40-B	8,600	5
		34336574		7"x7/8"	ZA60-B	8,600	10
		34336576		7"x5/8-11"	ZA60-B	8,600	5
		34336577		7"x7/8"	ZA80-B	8,600	10
		34336578		7"x5/8-11"	ZA80-B	8,600	5
		34336579		7"x7/8"	ZA120-B	8,600	10
		34336580		7"x5/8-11"	ZA120-B	8,600	5
	27N	34336803		4 1/2"x7/8"	ZA40-B	13,300	10
		34336804		4 1/2"x5/8-11"	ZA40-B	13,300	5
		34336805		4 1/2"x7/8"	ZA60-B	13,300	10
		34336806		4 1/2"x5/8-11"	ZA60-B	13,300	5
		34336807		4 1/2"x7/8"	ZA80-B	13,300	10
		34336808		4 1/2"x5/8-11"	ZA80-B	13,300	5
		34336809		4 1/2"x7/8"	ZA120-B	13,300	10
		34336810		4 1/2"x5/8-11"	ZA120-B	13,300	5
		34336821		5"x7/8"	ZA40-B	12,250	10
		34336822		5"x5/8-11"	ZA40-B	12,250	5
		34336823		5"x7/8"	ZA60-B	12,250	10
		34336824		5"x5/8-11"	ZA60-B	12,250	5
		34336825		5"x7/8"	ZA80-B	12,250	10
		34336826		5"x5/8-11"	ZA80-B	12,250	5
		34336827		5"x7/8"	ZA120-B	12,250	10
		34336828		5"x5/8-11"	ZA120-B	12,250	5
		34336829		7"x7/8"	ZA40-B	8,600	10
		34336830		7"x5/8-11"	ZA40-B	8,600	5
		34336841		7"x7/8"	ZA60-B	8,600	10
		34336842		7"x5/8-11"	ZA60-B	8,600	5

Cutting
Grinding
Brushes
Coated abrasives
Precision grinding
Notes

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	27N	34336844		7"x7/8"	ZA80-B	8,600	10
		34336845		7"x5/8-11"	ZA80-B	8,600	5
		34336846		7"x7/8"	ZA120-B	8,600	10
		34336847		7"x5/8-11"	ZA120-B	8,600	5

★★★ PREMIUM

Flap disc

CERABOND flap disc for stainless steel

+ **Enhanced abrasiveness**
A new and broader PREMIUM cloth and the CERABOND bond system offer high stock removal on the workpiece.

+ **Longer lifetime**
The unique bond system prevents premature grain break-out and leads to a long lifetime for the product.

+ **Enhanced economic efficiency**
Thanks to the self-sharpening ceramic grain, the CERABOND flap disc is also ideal for demanding grinding jobs.

TYROLIT FILM
The product film can be found on YouTube at **www.youtube.com/TYROLITgroup**

We at TYROLIT always endeavour to bring our customers innovative products and a comprehensive assortment. For this reason, TYROLIT has now extended the CERABOND family to include the new CERAMIC flap discs. A unique bond system combined with a high-performance PREMIUM cloth offers the operator greater abrasiveness. This flap disc is particularly suitable for stainless steels and demanding grinding applications. In addition, the unique bond system prevents premature grain break-out and leads to a long product lifetime. The additional TOP SIZE coating ensures cooler grinding, allowing a longer lifetime and reducing discoloration on the workpiece surface.

★★★ PREMIUM

Flap disc

CERABOND flap disc for stainless steel

Shape		Type no. new	Type no. old	Dimension	Specification	RPM	PU
	29A	34334384	34043514	4 1/2"x7/8"	CA40-B	13,300	5
		34166351	34166351	4 1/2"x5/8-11"	CA40-B	13,300	5
		34334422	34043515	4 1/2"x7/8"	CA60-B	13,300	5
		34166352	34166352	4 1/2"x5/8-11"	CA60-B	13,300	5
		34335673		4 1/2"x7/8"	CA80-B	13,300	5
		34335674		4 1/2"x5/8-11"	CA80-B	13,300	5
		34334423	34043516	5"x7/8"	CA40-B	12,250	5
		34166354	34166354	5"x5/8-11"	CA40-B	12,250	5
		34334424	34043517	5"x7/8"	CA60-B	12,250	5
		34166355	34166355	5"x5/8-11"	CA60-B	12,250	5
		34335675		5"x7/8"	CA80-B	12,250	5
		34335676		5"x5/8-11"	CA80-B	12,250	5
	27A	34334425		4 1/2"x7/8"	CA40-B	13,300	5
		34334426		4 1/2"x5/8-11"	CA40-B	13,300	5
		34334427		4 1/2"x7/8"	CA60-B	13,300	5
		34334428		4 1/2"x5/8-11"	CA60-B	13,300	5
		34335677		4 1/2"x7/8"	CA80-B	13,300	5
		34335678		4 1/2"x5/8-11"	CA80-B	13,300	5
		34334429		5"x7/8"	CA40-B	12,250	5
		34334430		5"x5/8-11"	CA40-B	12,250	5
		34334441		5"x7/8"	CA60-B	12,250	5
		34334442		5"x5/8-11"	CA60-B	12,250	5
		34335679		5"x7/8"	CA80-B	12,250	5
		34335680		5"x5/8-11"	CA80-B	12,250	5
	27N	34334443		4 1/2"x7/8"	CA40-B	13,300	5
		34334444		4 1/2"x5/8-11"	CA40-B	13,300	5
		34334445		4 1/2"x7/8"	CA60-B	13,300	5
		34334446		4 1/2"x5/8-11"	CA60-B	13,300	5
		34334447		5"x7/8"	CA40-B	12,250	5
		34334448		5"x5/8-11"	CA40-B	12,250	5
		34334449		5"x7/8"	CA60-B	12,250	5
		34334450		5"x5/8-11"	CA60-B	12,250	5

★★★ PREMIUM

Flap disc

For nonferrous metals

With the specification developed specifically for nonferrous metals, smearing and dulling of the flap disc is prevented. The ceramic grain promotes self-cleaning and sharpening of the disc during material abrasion.

This tool offers convenient and high-performance results on difficult-to-grind materials such as aluminum, aluminum bronze, aluminum base alloy, copper, bronze, brass and nickel silver.

Shape	Type no. new	Type no. old	Dimension	Specification	RPM	PU
29A	34334907	707005	4 1/2"x7/8"	CA40-B	13,300	10
	34166334	34166334	4 1/2"x5/8-11"	CA40-B	13,300	5
	34334908	707007	4 1/2"x7/8"	CA60-B	13,300	10
	34166335	34166335	4 1/2"x5/8-11"	CA60-B	13,300	5
	34334909	707008	4 1/2"x7/8"	CA80-B	13,300	10
	34166336	34166336	4 1/2"x5/8-11"	CA80-B	13,300	5
	34334910	707010	4 1/2"x7/8"	CA120-B	13,300	10
	34166338	34166338	4 1/2"x5/8-11"	CA120-B	13,300	5
	34334911	707011	5"x7/8"	CA40-B	12,250	10
	34166339	34166339	5"x5/8-11"	CA40-B	12,250	5
	34334912	707012	5"x7/8"	CA60-B	12,250	10
	34166341	34166341	5"x5/8-11"	CA60-B	12,250	5
	34334913	707013	5"x7/8"	CA80-B	12,250	10
	34166342	34166342	5"x5/8-11"	CA80-B	12,250	5
	34334914	707014	5"x7/8"	CA120-B	12,250	10
	34166343	34166343	5"x5/8-11"	CA120-B	12,250	5
	34334915	707015	7"x7/8"	CA40-B	8,600	10
	34166344	34166344	7"x5/8-11"	CA40-B	8,600	5
	34334916	707016	7"x7/8"	CA60-B	8,600	10
	34166345	34166345	7"x5/8-11"	CA60-B	8,600	5
	34334917	707017	7"x7/8"	CA80-B	8,600	10
	34166347	34166347	7"x5/8-11"	CA80-B	8,600	5
	34334918	707018	7"x7/8"	CA120-B	8,600	10
	34166349	34166349	7"x5/8-11"	CA120-B	8,600	5

4.2 Fiber discs **for angle grinder**

Fiber discs **for angle grinder**

For a number of years, in the coated abrasives range, TYROLIT has offered fiber discs and back up pads for all common and not-so-common grinding jobs.

Fiber discs are used when it is necessary to carry out rough grinding or derust or deburr surfaces. TYROLIT believes in the importance of flexibility and ease of use, and offers a very wide assortment for every conceivable application. The discs come with all accessories needed for assembly. TYROLIT has also developed a more environment-friendly version. Our JUTE DISC, made from eco-friendly jute fiber, is used without any additional core and, being trimmable, offers maximum stock removal right to the very end. Try it for yourself!

Shapes

N DISC
Jute disc

V Disc 4S
Vulcanized fiber disc

PAD UNI
back up pads

PAD BASIC
back up pads

Application recommendation

Performance Level	Specification	Steel	Stainless steel	NF metals	Wood	Pages
★★★ PREMIUM	CA-P93 N	●	●			146
	ZA-P48 N	●	●			147
	ZA-P48 V	●	●			148/149
	CA-P93 V	●	●			150/151
	A-P02 V	●		●		152
★★ STANDARD	A-B02 V	●		●	●	152/153

★★★ PREMIUM

CA-P93 N JUTE disc

For steel and stainless steel

+ **Longest lifetime**
Ceramic aluminum oxide and an additional coolant layer deliver maximum removal rates and the longest lifetime possible.

+ **Extremely high stock removal rate**
The high abrasiveness of the JUTE DISC means it achieves the highest stock removal rates.

+ **Environmentally-friendly**
The jute fiber core not only protects the environment, but also enables the disc to be trimmed.

TYROLIT FILM
The product film can be found on YouTube at **www.youtube.com/TYROLITgroup**

The TYROLIT JUTE disc is a new, unique grinding wheel that combines abrasiveness with a high level of comfort while working thanks to a ceramic grain. The longest lifetime and an environmentally friendly jute fiber core deliver the best performance. An additional back up pad is not required, as there is already one integrated in the product. The natural fiber core can be trimmed, giving it the edge over other discs in terms of its lifetime. This saves the user time and great expense.

★★★ PREMIUM

CA-P93 N JUTE disc

For steel and stainless steel

Shape	Type no. new	Type no. old	Dimension	Grain	RPM	PU
Disc N	712259	712259	4 1/2"x7/8"	36	13,300	10
	712268	712268	5"x7/8"	36	12,250	10
	712269	712269	7"x7/8"	36	8,600	10

★★★ PREMIUM

ZA-P48 N JUTE disc

For steel and stainless steel

The TYROLIT JUTE disc is a new, unique grinding wheel that combines abrasiveness with a high level of comfort while working. This tool can be used on both steel and stainless steel. The longest lifetime and an environmentally friendly jute fiber core deliver the best performance. An additional back up pad is not required, as there is already one integrated in the product. The natural fiber core can be trimmed, giving it the edge over other discs in terms of its lifetime. This saves the user time and great expense.

	Shape		Type no. new	Type no. old	Dimension	Grain	RPM	PU
		Disc N	706128	706128	4 1/2"x7/8"	36	13,300	10
			706129	706129	5"x7/8"	36	12,250	10
			706130	706130	7"x7/8"	36	8,600	10

★★★ PREMIUM

ZA-P48 V vulcanized fiber discs

For steel and stainless steel

+ **Longest lifetime**
Resistant zirconium aluminum oxide and a coolant layer deliver maximum removal rates and the longest lifetime.

+ **Maximum economic efficiency**
Excellent price-performance ratio

+ **Maximum stock removal**
The optimized backing and zirconium aluminum oxide result in an abrasive product with a maximum stock removal rate.

Using fiber discs is a very simple and quick solution for removing material. A low level of vibration means the tools are convenient to use. This fiber disc has been designed for use on steel and stainless steel, and is made of a zirconium aluminum oxide mix. This fiber disc is available from our assortment in grit sizes 24 to 120.

★★★ PREMIUM

ZA-P48 V vulcanized fiber discs

For steel and stainless steel

Shape	Type no.	Dimension	Grain	RPM	PU
Disc V	34162979	4 1/2"x7/8"	24	13,300	25
	34163024	4 1/2"x7/8"	24	13,300	50
	34162980	4 1/2"x7/8"	36	13,300	25
	34163025	4 1/2"x7/8"	36	13,300	50
	34162982	4 1/2"x7/8"	60	13,300	25
	34163888	4 1/2"x7/8"	60	13,300	50
	34162983	4 1/2"x7/8"	80	13,300	25
	34163889	4 1/2"x7/8"	80	13,300	50

Shape		Type no.	Dimension	Grain	RPM	PU
	Disc V	34162985	4 1/2"x7/8"	120	13,300	25
		34163890	4 1/2"x7/8"	120	13,300	50
		34162987	5"x7/8"	24	12,250	25
		34163902	5"x7/8"	24	12,250	50
		34162988	5"x7/8"	36	12,250	25
		34163903	5"x7/8"	36	12,250	50
		34162990	5"x7/8"	60	12,250	25
		34163906	5"x7/8"	60	12,250	50
		34163011	5"x7/8"	80	12,250	25
		34163908	5"x7/8"	80	12,250	50
		34163012	5"x7/8"	120	12,250	25
		34163910	5"x7/8"	120	12,250	50
		34163013	7"x7/8"	24	8,600	25
		34163911	7"x7/8"	24	8,600	50
		34163014	7"x7/8"	36	8,600	25
		34163912	7"x7/8"	36	8,600	50
		34163020	7"x7/8"	60	8,600	25
		34163914	7"x7/8"	60	8,600	50
		34163021	7"x7/8"	80	8,600	25
		34163915	7"x7/8"	80	8,600	50
		34163022	7"x7/8"	120	8,600	25
		34163917	7"x7/8"	120	8,600	50

★★★ PREMIUM

CA-P93 V vulcanized fiber discs

For steel and stainless steel

+ **Maximum abrasiveness**
Ceramic aluminum oxide delivers maximum removal rates and the longest lifetime.

+ **Strong backing**
The 0.80 mm thick backing holds the grain in place, thus ensuring maximum abrasiveness.

+ **Longest lifetime**
An additional layer of active coolants increases the lifetime and reduces heat build-up while grinding is performed on different materials.

Using fiber discs is a very simple and quick solution for removing material. A low level of vibration means the tools are convenient to use. This fiber disc has been designed for use on steel and stainless steel, and is made of a ceramic aluminum oxide mix. This fiber disc is available from our assortment in grit sizes 24 to 120.

★★★ PREMIUM

CA-P93 V vulcanized fiber discs

For steel and stainless steel

Shape	Type no.	Dimension	Grain	RPM	PU
	34163955	4 1/2"x7/8"	24	13,300	25
	34163992	4 1/2"x7/8"	24	13,300	50
	706107	4 1/2"x7/8"	36	13,300	25
	34163993	4 1/2"x7/8"	36	13,300	50
	706108	4 1/2"x7/8"	60	13,300	25
	34163995	4 1/2"x7/8"	60	13,300	50
	706109	4 1/2"x7/8"	80	13,300	25

Shape		Type no.	Dimension	Grain	RPM	PU
	Disc V	34163997	4 1/2"x7/8"	80	13,300	50
		706110	4 1/2"x7/8"	120	13,300	25
		34163998	4 1/2"x7/8"	120	13,300	50
		34163958	5"x7/8"	24	12,250	25
		34163999	5"x7/8"	24	12,250	50
		706111	5"x7/8"	36	12,250	25
		34164000	5"x7/8"	36	12,250	50
		706114	5"x7/8"	60	12,250	25
		34164012	5"x7/8"	60	12,250	50
		706116	5"x7/8"	80	12,250	25
		34164013	5"x7/8"	80	12,250	50
		706117	5"x7/8"	120	12,250	25
		34164014	5"x7/8"	120	12,250	50
		34164002	7"x7/8"	24	8,600	25
		706119	7"x7/8"	36	8,600	25
		706120	7"x7/8"	60	8,600	25
		706123	7"x7/8"	80	8,600	25
		706124	7"x7/8"	120	8,600	25
		34164015	7"x7/8"	24	8,600	50
		34164017	7"x7/8"	36	8,600	50
		34164019	7"x7/8"	60	8,600	50
		34164020	7"x7/8"	80	8,600	50
		34164031	7"x7/8"	120	8,600	50

★★★ PREMIUM

A-P02 V vulcanized fiber discs

For steel and aluminum

Using fiber discs is a very simple and quick solution for removing material. A low level of vibration means the tools are convenient to use. This fiber disc has been designed for general use and is made of an aluminum oxide mix. It can be used for outstanding results on steel and nonferrous metals. This fiber disc is available from our assortment in grit sizes 24 to 120.

Shape		Type no.	Dimension	Grain	RPM	PU
	Disc V	706049	4 1/2"x7/8"	24	13,300	25
		706055	5"x7/8"	24	12,250	25
		706061	7"x7/8"	24	8,600	25
		706050	4 1/2"x7/8"	36	13,300	25
		706056	5"x7/8"	36	12,250	25
		706063	7"x7/8"	36	8,600	25
		706052	4 1/2"x7/8"	60	13,300	25
		706058	5"x7/8"	60	12,250	25
		706065	7"x7/8"	60	8,600	25
		706053	4 1/2"x7/8"	80	13,300	25
		706059	5"x7/8"	80	12,250	25
		706066	7"x7/8"	80	8,600	25
		706054	4 1/2"x7/8"	120	13,300	25
		706060	5"x7/8"	120	12,250	25
		706067	7"x7/8"	120	8,600	25

★ BASIC

A-B02 V vulcanized fiber discs

For steel, aluminum and wood

Using fiber discs is a very simple and quick solution for removing material. A low level of vibration means the tools are convenient to use. This fiber disc has been designed for universal use and is made of an aluminum oxide mix. This fiber disc is available from our assortment in grit sizes 16 to 120.

Shape		Type no.	Dimension	Grain	RPM	PU
	Disc V	706024	4 1/2"x7/8"	24	13,300	25
		706030	5"x7/8"	24	12,250	25
		706036	7"x7/8"	24	8,600	25
		706025	4 1/2"x7/8"	36	13,300	25
		706031	5"x7/8"	36	12,250	25
		706037	7"x7/8"	36	8,600	25

◀

	Shape		Type no.	Dimension	Grain	RPM	PU
		Disc V	706027	4 1/2"x7/8"	60	13,300	25
			706033	5"x7/8"	60	12,250	25
			706039	7"x7/8"	60	8,600	25
			706028	4 1/2"x7/8"	80	13,300	25
			706034	5"x7/8"	80	12,250	25
			706047	7"x7/8"	80	8,600	25
			706029	4 1/2"x7/8"	120	13,300	25
			706035	5"x7/8"	120	12,250	25
			706048	7"x7/8"	120	8,600	25

★★★ PREMIUM

Accessories
For FIBER DISC

With our PREMIUM*** back up pads you will obtain the best support for the highest demands. Regardless of whether you choose a hard or very hard backing, you can influence the stock removal rate on the workpiece.

Thanks to the special design, you will benefit from constant air circulation, preventing heat build-up on the workpiece and the tool.

	Shape		Type no.	Dimension	Mounting	PU
		PAD UNI	20010	4 1/2"x7/8"	5/8-11"	1
			20006	5"x7/8"	5/8-11"	1
			188005	7"x7/8"	5/8-11"	1

★ BASIC

Accessories
For FIBER DISC

The BASIC* back up pad is a good supplement to all our fiber discs. The accessories offer good support in achieving the best results for the surface finish.

	Shape		Type no.	Dimension	Mounting	PU
		PAD BASIC	709999	4 1/2"x7/8"	5/8-11"	1
			710002	5"x7/8"	5/8-11"	1
			710005	7"x7/8"	5/8-11"	1

WEAR
WORK

4.3 Rough cleaning wheel **for angle grinder**

Rough cleaning wheel **for angle grinder**

Working with an angle grinder is one of the most important processes in the trade and industrial sectors for processing all types of metals. Would you like to remove rust, paint and varnish with a minimum of effort? Or do you need to prepare surfaces for welding, soldering or anodising?

The highly porous nylon fibers are evenly treated with aggressive abrasives and are able to meet any challenge. All of our rough cleaning discs resist loading or smearing and offer long life with an even grinding pattern, but also low heat generation and quiet, stress-free working.

Shapes

27GR Rough cleaning wheel (sound insulated)

Application recommendation

Performance Level	Specification	All in one	Pages
★★★ PREMIUM	C COARSE, A EX. COARSE	●	157

★★★ PREMIUM

Rough cleaning wheel

Universal use

+ **Versatile tool**
Not only for removing rust, paint, lacquer and underbody sealant, but also for preparing surfaces for welding, soldering and anodising.

+ **User-friendly**
Enables the user to perform quiet, non-strenuous work.

+ **Powerful**
TYROLIT rough cleaning wheels are characterized by a long lifetime and an excellent grinding surface pattern.

With the TYROLIT rough cleaning wheel you can effortlessly remove rust, paint, lacquer and underbody sealant from your workpiece. The porous nylon fibers, treated with aggressive abrasives, meet any challenge. At the same time, they prevent clogging or loading of the wheel. This wheel offers the user quiet, non-strenuous grinding combined with low generation of heat.

★★★ PREMIUM

Rough cleaning wheel
Universal use

Shape	Type no.	Dimension	Specification	RPM	PU
28VL GR	898014	4 1/2"x7/8"	C COARSE	11,000	5
	34345533	4 1/2"x5/8-11"	C COARSE	11,000	5
	898018	7"x7/8"	C COARSE	7,000	5
	34345849	7"x5/8-11"	C COARSE	7,000	5
	34206236	4 1/2"x7/8"	A EX. COARSE	11,000	5
	34345850	4 1/2"x5/8-11"	A EX. COARSE	11,000	5
	34206238	7"x7/8"	A EX. COARSE	7,000	5
	34345881	7"x5/8-11"	A EX. COARSE	7,000	5

4.4 SCM – Surface Conditioning Material **for angle grinder**

SCM discs
for angle grinders

Working with an angle grinder is one of the most important processes in the trade and industrial sectors for processing all types of metals. TYROLIT now offers the SCM product assortment for use with angle grinders as well.

Surface Conditioning Material discs combine excellent cutting ability with long tool life, so that you can achieve optimum surface quality. This saves you two or three work steps. From simple deburring work without workpiece deformation to perfect surface finishing, SCM can be used universally.

With a wide range of grain sizes, from extra coarse to very fine, TYROLIT products are suitable for many different applications. Our discs offer another special feature: thanks to the removable center hole, our discs can be mounted on the three most popular back up pads. Try it for yourself!

Shapes

DISC SCM disc

Cutting
Grinding
Brushes
Coated abrasives
Precision grinding
Notes

Application recommendation

Performance Level	Specification	All in one	Pages
★★★ PREMIUM	Extra coarse, coarse, Extra medium, medium, very fine	●	162/163

SCM disc assembly

SCM discs are designed for use on an angle grinder and are available in the popular diameters 41/2" – 7", from extra coarse to very fine.

Cleverly designed: Thanks to the removable center hole, each of these discs can be used on all three of the supporting discs in our range.

Colors

	EXTRA COARSE	COARSE	EXTRA MEDIUM	MEDIUM	VERY FINE
Front					
Back					

★★★ PREMIUM

SCM

Universal use

+ **Noticeable cost reduction**
Fewer work steps also means reduced tool costs.

+ **One disc, three options**
Thanks to the removable center hole, this disc can also be mounted on three different back up pads.

+ **Reduces working times**
The working time is significantly reduced through the long lifetime and the saving of one to three work steps.

With the new TYROLIT SCM program, we are now taking a further step towards economic efficiency. With SCM, the machining time of the workpiece can now be greatly reduced. A saving of one to three work steps is thus the key benefit. Thanks to the quick and high stock removal rate, applications such as the reduction of surface roughness, removal of discoloration, smoothing of surfaces and the cleaning and removal of weld seams can be realized. Another advantage of SCM lies in the deburring of tool edges without additional stock removal. Furthermore, the TYROLIT SCM program is yielding the best results in terms of lifetime, which in turn is evidence of the economic efficiency of these products.

★★★ PREMIUM

SCM
Universal use

Shape	Type no.	Dimension	Specification	RPM	Color	PU
Disc	34047714	4 1/2"x7/8"	EXTRA COARSE	13,300	DARK BROWN / PURPLE	20
	34047715	4 1/2"x7/8"	COARSE	13,300	BROWN	20
	34047716	4 1/2"x7/8"	EXTRA MEDIUM	13,300	DARK RED / PURPLE	20
	34047720	4 1/2"x7/8"	MEDIUM	13,300	RED	20
	34047722	4 1/2"x7/8"	VERY FINE	13,300	BLUE	20
	34047734	7"x7/8"	EXTRA COARSE	8,600	DARK BROWN / PURPLE	20

▶

Shape	Type no.	Dimension	Specification	RPM	Color	PU
Disc	34047735	7"x7/8"	COARSE	8,600	BROWN	20
	34047736	7"x7/8"	EXTRA MEDIUM	8,600	DARK RED / PURPLE	20
	34047755	7"x7/8"	MEDIUM	8,600	RED	20
	34047757	7"x7/8"	VERY FINE	8,600	BLUE	20

★★★ PREMIUM

Accessories
For SCM discs

The intelligent design of our SCM discs enables them to be used on all the back up pads available in our assortment. The removable center hole of the SCM disc enables the disc to be fitted to the back up pad in a self-centered position. The discs and back up pads are designed for use on the angle grinder in all common diameters from 115 to 178 mm.

Shape	Type no.	Dimension	Grade	PU
PAD SCM	34050526	4 1/2"x5/8-11"	MEDIUM	1
	34050528	7"x5/8-11"	MEDIUM	1

4.5 Compact wheels **for angle grinder**

Compact wheels **for angle grinders**

Working with an angle grinder is one of the most important processes in the trade and industrial sectors for processing all types of metals. TYROLIT offers a comprehensive assortment of products for this purpose.

With the compact wheel range, TYROLIT offers you an ideal tool for the machining of surfaces without changing the surface geometry, particularly for the removal of rust and dirt. Compact wheels consist of multilayer unitized fleece and are available in coarse to fine specifications depending on the number of layers. On the following pages, you will find our range of unitized compact wheels for angle grinders.

Shapes

1UW Unitized wheel

Cutting
Grinding
Brushes
Coated abrasives
Precision grinding
Notes

Application recommendation

Performance Level	Specification	All in one	Pages
★★★ PREMIUM	8 A coarse, 6 A medium, 6 C fine, 3 C fine, 2 C fine	●	168

★★★ PREMIUM

Unitized wheels

Universal use

+ **High flexibility**
  Particularly well suited to the time-saving machining of difficult-to-reach places.

+ **Versatile**
  This product is extremely versatile and can be used for deburring, removal of scratches, fading, glazing, finishing and machining of welding seams.

+ **High economic efficiency**
  Cool grinding and low clogging of the wheel result in a long lifetime for the product.

With unitized wheels from TYROLIT, especially difficult-to-reach places and corners can be reached on every workpiece. These flexible products do not alter the surface geometry of your workpiece in any way and always achieve the desired surface structure. The cool grinding, low clogging and regular surface results give them the edge over conventional tools.

Application areas are primarily the deburring, cleaning, fading, finishing and machining of welding seams. Material can be easily machined and structured using unitized wheels.

▶

★★★ PREMIUM

Unitized wheels
Universal use

Shape		Type no.	Dimension	Specification	RPM	PU
	1UW	34190121	5"x1/8"x7/8"	3 C FINE	10,000	16
		34190122	5"x1/8"x7/8"	6 A MEDIUM	10,000	16
		34190123	5"x1/4"x7/8"	3 C FINE	10,000	8
		34190124	5"x1/4"x7/8"	6 A MEDIUM	10,000	8
		34190125	6"x1/8"x1"	2 A MEDIUM	5,000	16
		34190206	6"x1/8"x1"	2 C FINE	5,000	16
		34190207	6"x1/8"x1"	3 C FINE	5,000	16
		34190209	6"x1/8"x1"	6 A MEDIUM	7,500	16
		34190210	6"x1/8"x1"	6 C FINE	7,500	16
		34190231	6"x1/8"x1"	8 A COARSE	7,500	16
		34190274	6"x1/4"x1"	2 A MEDIUM	5,000	8
		34190275	6"x1/4"x1"	2 C FINE	5,000	8
		34190276	6"x1/4"x1"	3 C FINE	5,000	8
		34190277	6"x1/4"x1"	6 A MEDIUM	7,500	8
		34190278	6"x1/4"x1"	6 C FINE	7,500	8
		34190279	6"x1/4"x1"	8 A COARSE	7,500	8

4.6 Polishing program **for angle grinder**

Polishing program **for angle grinders**

Working with an angle grinder is one of the most important processes in the trade and industrial sectors for processing all types of metals. TYROLIT offers an optimally tailored package for polishing metal.

There are many suppliers of polishing accessories. But anyone who has ever polished knows how important it is that all components should be perfectly matched to one another. With TYROLIT you can get everything you need from one source. You can tell how perfectly our products are matched from the fact that you can get a mirror finish in only three steps – without unwanted discoloration due to overheating.

Shapes

28PCA
CONDITIONING

28 PUA
PRE-POLISH

28 PWA
POLISH

Application recommendation

★★★ PREMIUM	★★★ PREMIUM	★★★ PREMIUM	★★★ PREMIUM
CONDITIONING	**PRE-POLISH**	**POLISH**	**COMBI**
41/2" – 3,500 rpm	41/2" – 4,000 rpm	41/2" – 1,800 rpm	41/2" – 4,000 rpm
5" – 3,000 rpm	5" – 3,600 rpm	5" – 1,500 rpm	5" – 3,600 rpm

TYROLIT PREMIUM*** Polishing Program

Three steps to a perfect mirror finish

+ **Preparation**
  Preparing the untreated workpiece
  To prepare the untreated material and get a mirror finish, you need:
  PREMIUM*** fiber discs ZA-P48 Page 148
  PREMIUM*** 2in1 flap discs Page 135
  Our recommendation: grit size 120 or 80 depending on the material

+ **Step 1**
  Remove rough scratch marks using the PREMIUM* CONDITIONING disc.**
  It removes all rough scratch marks from the surfaces to be machined.
  A multi-dimensional flap design reduces clogging and prevents unwanted material discoloration.
  Recommendation: “Medium” grain

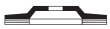
+ **Step 2**
  Prepare for polishing with the PREMIUM* PRE-POLISH disc**
  This provides optimum polishing preparation. The disc adapts flexibly to the material surface.
  Recommendation: “Fine-P” grain

+ **Step 3**
  Polish with the PREMIUM* POLISH disc**
  This allows you finally to achieve a perfect mirror finish.
  Different grinding pastes enable processing of different materials, such as steel, stainless steel and nonferrous metals.
  Recommendation: SHF with “S-POLISH” polishing paste

★★★ PREMIUM

CONDITIONING
For steel and stainless steel

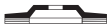
With the PREMIUM*** CONDITIONING wheel you can remove all rough scratch marks from the surface before commencing the polishing process. The three-dimensional flap design reduces clogging of the wheel to a minimum. Using the wheel also prevents discoloration on the workpiece caused by high heat build-up. The tool has been specially developed to achieve the best results even on non-adjustable angle grinders.

Shape		Type no.	Dimension	Specification	RPM	PU
	28PCA	742157	4 1/2"x7/8"	MEDIUM	4	5
		742153	5"x7/8"	MEDIUM	3,6	5

★★★ PREMIUM

PRE-POLISH
For steel and stainless steel

To prepare surfaces for polishing, you require a sturdy, high-quality tool. The PREMIUM*** PRE-POLISH comprises several layers of abrasive fabric to achieve a long lifetime and sturdiness. This allows the tool to be used for smaller deburring jobs as well. The tool has been specially developed to achieve the best results even on non-adjustable angle grinders.

Shape		Type no.	Dimension	Specification	RPM	PU
	28PUA	742380	4 1/2"x7/8"	FINE-P	3,5	5
		742384	5"x7/8"	FINE-P	3	5

★★★ PREMIUM

POLISH
Universal use

Compared to conventional felt wheels, this product uses highly flexible flaps for optimum heat distribution and cool grinding. In doing so, the PREMIUM*** POLISH avoids undesired discoloration. Used in combination with the TYROLIT grinding paste, a perfect mirror finish is achieved on your workpiece. The tool has been specially developed to achieve the best results even on non-adjustable angle grinders.

Shape		Type no.	Dimension	Specification	RPM	PU
	28PWA	742378	4 1/2"x7/8"	SHF	1,8	3
		742375	5"x7/8"	SHF	1,5	3

★★★ PREMIUM

POLISHING PASTES

For steel, stainless steel and nonferrous metals

With the TYROLIT PREMIUM*** polishing paste in different specifications you will achieve the final mirror finish. They can be used to perform precision machining work depending on the desired surface finish. Polishing pastes are available in three specifications. Using the POLISH (white), you will achieve a perfectly smooth finish. To achieve a high-gloss finish, we recommend S-POLISH (blue) while the POLISH-NE paste is perfect for nonferrous metals.

	Shape	Type no.	Dimension	Specification	RPM	PU
	90PP	741291	1.18"x0.80"x3.54"	S-POLISH	Blue	2
		741349	2.36"x1.77"x6.30"	S-POLISH	Blue	1

★★★ PREMIUM

POLISHING PROGRAM

Three steps to a mirror finish

+ **Step 1**
Remove rough scratch marks using the PREMIUM*** CONDITIONING disc. A multi-dimensional flap design reduces clogging and prevents unwanted material discoloration.

+ **Step 2**
Prepare the surface for polishing using the PREMIUM*** PRE-POLISH. The disc adapts to the material surface, providing the perfect basis for polishing.

+ **Step 3**
Using PREMIUM*** POLISH during the last step creates the perfect mirror finish. Different grinding pastes enable the machining of different materials.

TYROLIT FILM
The product film can be found on YouTube at **www.youtube.com/TYROLITgroup**

With the TYROLIT POLISHING PROGRAM you can achieve the perfect high gloss surface in just a few steps. Preventing clogging of the wheels provides an above-average lifetime. Exceptionally cool grinding due to special flaps ensures outstanding surface finishes. Exceptionally high levels of work safety due to low heat build-up, minimal formation of dust and quiet operation.

▶

★★★ PREMIUM

POLISHING PROGRAM

Three steps to a mirror finish

Shape	Type no.	Dimension	Specification	RPM	PU
	21262	27PCA	4 1/2"x7/8"	MEDIIUM	1
		27PUA	4 1/2"x7/8"	FINE-P	1
		27PWA	4 1/2"x7/8"	SHF	1
		90PP	1.18"x0.80"x3.54"	S-POLISH	2
	52433	27PCA	5"x7/8"	MEDIIUM	1
		27PUA	5"x7/8"	FINE-P	1
		27PWA	5"x7/8"	SHF	1
		90PP	1.18"x0.80"x3.54"	S-POLISH	2

4.7 Quick-Change Discs **for mini angle grinder**

Quick Change Discs **for mini angle grinder**

Quick Change Discs are easy to use, without assembly tools being required. Easy handling on the mini angle grinder saves you a lot of time in your day-to-day work and increases your productivity.

A comprehensive assortment offers high-quality products for general grinding work, including fine surface finishing. Two different mountings cover the main fixing systems. Type R can be used for Lockit, PowerLock III and Roloc TR mountings, type S for SocAtt, PowerLock II and Roloc TSM. Another special feature of the S type mounting is that it is made from nylon, making it immune to rust and other types of contamination.

TYROLIT offers Quick Change Discs in a wide range of grit sizes for different materials. Take a look at our wide-ranging assortment and see for yourself.

Shapes

QDISC-R

QDISC-S

QDISC-S

Application recommendation

Performance Level	Specification	Steel	Stainless steel	NF metals	Plastic	Wood	All in One	Pages
★★★ PREMIUM QUICK-CHANGE DISCS	A-P01 PE Y	●		●	●	●		180/181
	ZA-P48 PE Y	●	●					178/179
	CA-P93 PE Y	●	●					179/180
★★★ PREMIUM SCM QUICK-CHANGE DISCS	EXTRA coarse, coarse, EXTRA MEDIUM, MEDIUM, very fine	●	●	●	●	●		182/183
★★★ PREMIUM ROUGH GRINDING WHEEL QUICK-CHANGE DISCS	C coarse, A EX coarse						●	183
★★★ PREMIUM COMPACT WHEELS	2 A MEDIUM, 2 C fine, 3 C fine, 6 A MEDIUM, 6 C fine, 8 A coarse, 8 A MEDIUM						●	184/185

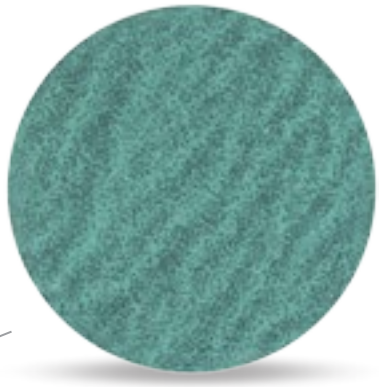
★★★ PREMIUM

ZA-P48 PE Y QUICK CHANGE DISC

For steel and stainless steel

+ **Maximum stock removal rates**
Thanks to its high level of abrasiveness, you can achieve high stock removal on the workpiece.

+ **Broad assortment**
The discs are available in two diameters with different mounting types. Grit sizes 36 to 120 are suitable for all grinding tasks.



+ **Longest lifetime**
The robust three-layer design and reduced grain break-out make this a durable and efficient tool.

With TYROLIT QUICK CHANGE DISCS you can save a considerable amount of time. This specification delivers maximum stock removal rates at the same time as a long lifetime. This is achieved by combining the zirconium and ceramic aluminum oxide with a three-layer product structure. In addition, this product also delivers a high level of stability, low grain break-out and enhanced edge stability.

★★★ PREMIUM

ZA-P48 PE Y QUICK CHANGE DISC

For steel and stainless steel

Shape		Type no.	Dimension	Grain	RPM	PU
	QDisc-R	112398	2"	24	25,000	50
		112401	2"	36	25,000	50
		112406	2"	40	25,000	50
		112411	2"	60	25,000	50
		112413	2"	80	25,000	50
		112418	2"	120	25,000	50
		112432	3"	24	20,000	25
		112438	3"	36	20,000	25
		112440	3"	40	20,000	25
		112447	3"	60	20,000	25
		112449	3"	80	20,000	25
		112452	3"	120	20,000	25

◀

Shape		Type no.	Dimension	Grain	RPM	PU
	QDisc-S	112455	2"	24	25,000	50
		112469	2"	36	25,000	50
		112471	2"	40	25,000	50
		112486	2"	60	25,000	50
		112493	2"	80	25,000	50
		112494	2"	120	25,000	50
		112505	3"	24	20,000	25
		112510	3"	36	20,000	25
		112514	3"	40	20,000	25
		112527	3"	60	20,000	25
		112532	3"	80	20,000	25
		112536	3"	120	20,000	25

★★★
PREMIUM

CA-P93 PE Y QUICK-CHANGE DISC

For steel and stainless steel

+ **Maximum stock removal rates**
Thanks to its high level of abrasiveness, you can achieve high stock removal on the workpiece.

+ **Broad assortment**
The discs are available in two diameters with different mounting types. Grit sizes 36 to 120 are suitable for all grinding tasks.

+ **Longest lifetime**
The robust three-layer design and reduced grain break-out make this a durable and efficient tool.

With TYROLIT QUICK CHANGE DISCS you can save a considerable amount of time. This specification delivers maximum stock removal rates at the same time as a long lifetime. This is achieved by combining the zirconium and ceramic aluminum oxide with a three-layer product structure.

In addition, this product also delivers a high level of stability, low grain break-out and enhanced edge stability.

▶

★★★ PREMIUM

CA-P93 PE Y QUICK-CHANGE DISC

For steel and stainless steel

Shape		Type no.	Dimension	Grain	RPM	PU
	QDisc-R	112917	2"	36	25,000	50
		112918	2"	40	25,000	50
		112923	2"	60	25,000	50
		112924	2"	80	25,000	50
		112928	2"	120	25,000	50
		112934	3"	36	20,000	25
		112935	3"	40	20,000	25
		112937	3"	60	20,000	25
		112947	3"	80	20,000	25
		112948	3"	120	20,000	25
	QDisc-S	112950	2"	36	25,000	50
		112961	2"	40	25,000	50
		112988	2"	60	25,000	50
		113007	2"	80	25,000	50
		113023	2"	120	25,000	50
		113026	3"	36	20,000	25
		113027	3"	40	20,000	25
		113031	3"	60	20,000	25
		113057	3"	80	20,000	25
		113059	3"	120	20,000	25

★★★ PREMIUM

A-P01 PE Y QUICK CHANGE DISC

For steel, nonferrous metals, plastic and wood

With TYROLIT QUICK CHANGE DISCS you can save time and increase productivity. They provide easy handling and can be used without the need for any additional mounting tools. Our QUICK CHANGE DISC assortment includes discs for general grinding tasks on any material. Our two different types cover the main mounting systems.

Shape		Type no.	Dimension	Grain	RPM	PU
	QDisc-R	111562	2"	24	25,000	50
		111567	2"	36	25,000	50
		111570	2"	40	25,000	50
		111577	2"	60	25,000	50
		111584	2"	80	25,000	50
		111585	2"	120	25,000	50
		111611	3"	24	20,000	25
		111631	3"	36	20,000	25

Shape		Type no.	Dimension	Grain	RPM	PU
	QDisc-R	112203	3"	40	20,000	25
		112204	3"	60	20,000	25
		112205	3"	80	20,000	25
		112242	3"	120	20,000	25
	QDisc-S	112253	2"	24	25,000	50
		112254	2"	36	25,000	50
		112268	2"	40	25,000	50
		112273	2"	50	25,000	50
		112279	2"	60	25,000	50
		112283	2"	80	25,000	50
		112298	2"	120	25,000	50
		112308	3"	180	20,000	50
		112309	3"	24	20,000	25
		112312	3"	36	20,000	25
		112320	3"	40	20,000	25
		112322	3"	50	20,000	25
		112337	3"	60	20,000	25
		112339	3"	80	20,000	25
		112359	3"	120	20,000	25

★★★ PREMIUM

SCM QUICK CHANGE DISC

For steel, stainless steel, nonferrous metals, plastic and wood

+ **Reduces working times**
The working time is significantly reduced through the long lifetime and the saving of one to three work steps.

+ **Comprehensive assortment**
The SCM range currently includes discs in the most varied of sizes and specifications.

+ **Noticeable cost reduction**
Fewer work steps also means reduced tool costs.

With the new TYROLIT SCM program, we are now taking a further step towards economic efficiency. Simple handling and mounting save you time. With SCM, the machining time of the workpiece can now be greatly reduced. A saving of one to three work steps is thus the key benefit. Thanks to the quick and high stock removal rate, applications such as the reduction of surface roughness, removal of discoloration, smoothing of surfaces and the cleaning and removal of weld seams can be realized.

★★★ PREMIUM

SCM QUICK CHANGE DISC

For steel, stainless steel, nonferrous metals, plastic and wood

Shape	Type no.	Dimension	Specification	RPM	Color	PU
QDisc-R	34072695	2"	EXTRA COARSE	25,000	DARK BROWN / PURPLE	50
	112543	2"	COARSE	25,000	BROWN	50
	34072696	2"	EXTRA MEDIUM	25,000	DARK RED / PURPLE	50
	112546	2"	MEDIUM	25,000	RED	50
	112550	2"	VERY FINE	25,000	BLUE	50
	34072700	3"	EXTRA COARSE	20,000	DARK BROWN / PURPLE	25
	112551	3"	COARSE	20,000	BROWN	25
	34072701	3"	EXTRA MEDIUM	20,000	DARK RED / PURPLE	25
	112581	3"	MEDIUM	20,000	RED	25
	112588	3"	VERY FINE	20,000	BLUE	25

▶

Shape		Type no.	Dimension	Specification	RPM	Color	PU
	QDisc-S	112589	2"	COARSE	25,000	BROWN	50
		112590	2"	MEDIUM	25,000	RED	50
		112591	2"	VERY FINE	25,000	BLUE	50
		112592	3"	COARSE	20,000	BROWN	25
		112593	3"	MEDIUM	20,000	RED	25
		112599	3"	VERY FINE	20,000	BLUE	25

★★★ PREMIUM

Rough cleaning wheel

For steel, stainless steel and PVC

With the TYROLIT rough cleaning wheel for mini angle grinders you can effortlessly remove rust, paint, lacquer and underbody sealant. The porous nylon fibers, treated with aggressive abrasives, meet any challenge. At the same time, it prevents smearing and loading of the disc. This wheel offers the user quiet, non-strenuous grinding coupled with low generation of heat.

Shape		Type no.	Dimension	Specification	RPM	PU
	QDisc-R	112602	2"	C COARSE	25,000	20
		112603	3"	C COARSE	20,000	10
		34206231	2"	A EX. COARSE	25,000	20
		34206232	3"	A EX. COARSE	20,000	10

★★★ PREMIUM

QUICK CHANGE DISC unitized wheels

Universal use

+ **High flexibility**
  Particularly well suited to the time-saving machining of difficult-to-reach places.

+ **Versatile**
  This product is extremely versatile and can be used for deburring, removal of scratches, fading, glazing, finishing and machining of welding seams.

+ **High economic efficiency**
  Cool grinding and low clogging of the wheel result in a long lifetime for the product.

The unitized wheels from TYROLIT are ideally suited to the machining of small surfaces and corners. The soft surface of the product does not alter the surface geometry of your workpiece in any way and always achieves the desired structure. Application areas are primarily the deburring, cleaning, fading, finishing and machining of welding seams.

Compact wheels offer increased safety and especially cool grinding compared to other deburring tools.

★★★ PREMIUM

QUICK CHANGE DISC unitized wheels

Universal use

Shape	Type no.	Dimension	Grain	RPM	PU
QDisc-R	34190106	2"	2 A MEDIUM	22,000	20
	34190107	2"	2 C FINE	22,000	20
	34190108	2"	3 C FINE	22,000	20
	34190110	2"	6 A MEDIUM	22,000	20
	34190133	2"	6 C FINE	22,000	20
	34190134	2"	8 A COARSE	22,000	20
	34201556	2"	8 A MEDIUM	22,000	20
	34190135	3"	2 A MEDIUM	15,000	10
	34190137	3"	2 C FINE	15,000	10
	34190138	3"	3 C FINE	15,000	10

▶

◀

	Shape		Type no.	Dimension	Grain	RPM	PU
		QDisc-R	34190139	3"	6 A MEDIUM	15,000	10
			34190140	3"	6 C FINE	15,000	10
			34190142	3"	8 A COARSE	15,000	10
			34201558	3"	8 A MEDIUM	15,000	10

★★★ PREMIUM

Accessories

For steel, stainless steel and PVC

With the TYROLIT rough cleaning wheel for mini angle grinders you can effortlessly remove rust, paint, lacquer and underbody sealant. The porous nylon fibers, treated with aggressive abrasives, meet any challenge. At the same time, it prevents smearing and loading of the disc. This wheel offers the user quiet, non-strenuous grinding coupled with low generation of heat.

	Shape		Type no.	Dimension	Mounting	Specification	PU
		PAD Qdisc	34020268	2"x1/4"x1-1/2"	R	MEDIUM	1
			34020269	3"x1/4"x1-1/2"	R	MEDIUM	1
			34020270	2"x1/4"x1-1/2"	S	MEDIUM	1
			34020291	3"x1/4"x1-1/2"	S	MEDIUM	1

TYROLIT

4.8 Spindle-mounted fleece flap wheels and mounted flap wheels **for straight grinder**

Spindle-mounted fleece flap wheels and mounted flap wheels **for straight grinders**

Straight grinders are used when you need to work precisely in hard-to-reach locations. Especially when used in conjunction with TYROLIT spindle-mounted fleece flap wheels and mounted flap wheels, they are a flexible tool for producing optimum workpiece contours.

The fan-shaped, abrasive grain flaps of the mounted flap wheels allow precise work on all surfaces. They can be used not only on electrical but also on pneumatic straight grinders.

The TYROLIT assortment also includes a large number of spindle-mounted fleece flap wheels in different shapes and designs. They are highly adaptable and ensure that no changes occur to the surface integrity. Spindle-mounted fleece flap wheels are available with or without embedded abrasive.

Shapes

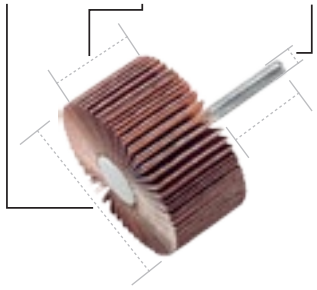
552 LA Mounted flap wheels

Application recommendation

Performance Level	Steel	Stainless steel	NF metals	Pages
★★★ PREMIUM MOUNTED FLEECE FLAP WHEELS	●	●	●	190/191/192

Dimensions

2" x 1" - 1/4"



★★★ PREMIUM

Mounted flap wheels

For steel, stainless steel and nonferrous metals

+ **High flexibility**
Greater precision is made possible as the flaps adjust flexibly to the contours of each workpiece.

+ **Less work required**
The grinding of small and difficult-to-reach areas, for example in container construction and apparatus engineering, is not a problem for TYROLIT mounted flap wheels.

+ **Universal use**
TYROLIT mounted flap wheels can be used on both pneumatic and electric machines for different materials.

These tools adapt optimally to every workpiece contour thanks to their flexibility. The radially arranged flaps of the mounted flap wheels can be used on various materials and permit precise work for different applications, such as matting, pre-polishing and the cleaning of surfaces.

The highly flexible flaps also make light work of machining hard-to-reach areas.

★★★ PREMIUM

Mounted flap wheels

For steel, stainless steel and nonferrous metals

Shape		Type no.	Dimension	Grain	RPM	PU
52LA-C		20019928	1"x1/2"x1/4"	40	26,000	10
		20019929	1"x1/2"x1/4"	60	26,000	10
		20019930	1"x1/2"x1/4"	80	26,000	10
		20019931	1"x1/2"x1/4"	120	26,000	10
		20019932	1"x1/2"x1/4"	180	26,000	10
		20019933	1"x1/2"x1/4"	240	26,000	10
		20019934	1"x1"x1/4"	40	26,000	10
		20019935	1"x1"x1/4"	60	26,000	10
		20019936	1"x1"x1/4"	80	26,000	10
		20019937	1"x1"x1/4"	120	26,000	10
		20019938	1"x1"x1/4"	180	26,000	10
		20019939	1"x1"x1/4"	240	26,000	10

▶

Shape	Type no.	Dimension	Grain	RPM	PU
52LA-C	20019940	1-1/2"x1/2"x1/4"	40	20,000	10
	20019941	1-1/2"x1/2"x1/4"	60	20,000	10
	20019942	1-1/2"x1/2"x1/4"	80	20,000	10
	20019943	1-1/2"x1/2"x1/4"	120	20,000	10
	20019944	1-1/2"x1/2"x1/4"	180	20,000	10
	20019945	1-1/2"x1/2"x1/4"	240	20,000	10
	20019948	1-1/2"x1"x1/4"	40	20,000	10
	20019949	1-1/2"x1"x1/4"	60	20,000	10
	20019950	1-1/2"x1"x1/4"	80	20,000	10
	20019951	1-1/2"x1"x1/4"	120	20,000	10
	20019952	1-1/2"x1"x1/4"	180	20,000	10
	20019953	1-1/2"x1"x1/4"	240	20,000	10
	20019954	2"x1/2"x1/4"	40	16,000	10
	20019955	2"x1/2"x1/4"	60	16,000	10
	20019956	2"x1/2"x1/4"	80	16,000	10
	20019957	2"x1/2"x1/4"	120	16,000	10
	20019958	2"x1/2"x1/4"	180	16,000	10
	20019959	2"x1/2"x1/4"	240	16,000	10
	20019960	2"x3/4"x1/4"	40	16,000	10
	20019961	2"x3/4"x1/4"	60	16,000	10
	20019962	2"x3/4"x1/4"	80	16,000	10
	20019963	2"x3/4"x1/4"	120	16,000	10
	20019964	2"x3/4"x1/4"	180	16,000	10
	20019965	2"x3/4"x1/4"	240	16,000	10
	20019966	2"x1"x1/4"	40	16,000	10
	20019967	2"x1"x1/4"	60	16,000	10
	20019968	2"x1"x1/4"	80	16,000	10
	20019969	2"x1"x1/4"	120	16,000	10
	20019970	2"x1"x1/4"	180	16,000	10
	20019971	2"x1"x1/4"	240	16,000	10
	20019972	2-1/2"x1/2"x1/4"	40	13,500	10
	20019973	2-1/2"x1/2"x1/4"	60	13,500	10
	20019974	2-1/2"x1/2"x1/4"	80	13,500	10
	20019975	2-1/2"x1/2"x1/4"	120	13,500	10
	20019976	2-1/2"x1/2"x1/4"	180	13,500	10
	20019977	2-1/2"x1/2"x1/4"	240	13,500	10
	20019978	2-1/2"x1"x1/4"	40	13,500	10
	20019979	2-1/2"x1"x1/4"	60	13,500	10
	20019980	2-1/2"x1"x1/4"	80	13,500	10
	20019981	2-1/2"x1"x1/4"	120	13,500	10

★★★ PREMIUM

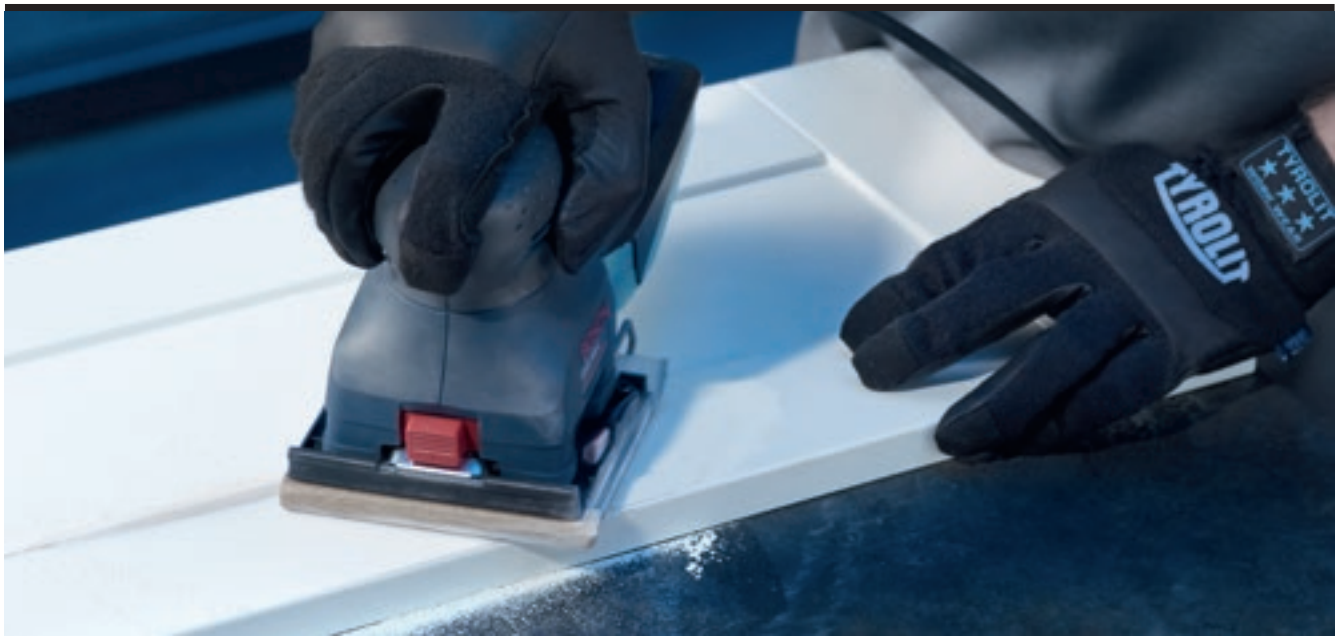
Mounted flap wheels

For steel, stainless steel and nonferrous metals

Shape		Type no.	Dimension	Grain	RPM	PU
52LA-C	20019982	2-1/2"x1"x1/4"	180	13,500	10
	20019983	2-1/2"x1"x1/4"	240	13,500	10
	20019984	3"x1/2"x1/4"	40	10,000	10
	20019985	3"x1/2"x1/4"	60	10,000	10
	20019986	3"x1/2"x1/4"	80	10,000	10
	20019987	3"x1/2"x1/4"	120	10,000	10
	20019988	3"x1/2"x1/4"	180	10,000	10
	20019989	3"x1/2"x1/4"	240	10,000	10
	20019991	3"x3/4"x1/4"	60	10,000	10
	20019992	3"x3/4"x1/4"	80	10,000	10
	20019993	3"x3/4"x1/4"	120	10,000	10
	20019994	3"x3/4"x1/4"	180	10,000	10
	20019996	3"x1"x1/4"	40	10,000	10
	20019997	3"x1"x1/4"	60	10,000	10
	20019998	3"x1"x1/4"	80	10,000	10
	20019999	3"x1"x1/4"	120	10,000	10
	20020000	3"x1"x1/4"	180	10,000	10
	20020001	3"x1"x1/4"	240	10,000	10
	20020002	3"x2"x1/4"	40	10,000	10
	20020003	3"x2"x1/4"	60	10,000	10
	20020004	3"x2"x1/4"	80	10,000	10
	20020005	3"x2"x1/4"	120	10,000	10
	20020006	3"x2"x1/4"	180	10,000	10

4.9 Rolls **for hand sanding**

Cutting
Grinding
Brushes
Coated abrasives
Precision grinding
Notes



Rolls
for hand sanding and superfinishing

Any kind of surface finishing requires thorough preparation. This can be done by hand or using an orbital sander.

Wood, paint or lacquer are usually abraded by hand. Deburring work can also be accomplished by hand. However, for perfect intermediate sanding, we recommend using an orbital sander. This also allows smooth finishing of coatings and smoothing of composite materials. For jobs such as these we offer abrasive rolls in a wide range of designs, such as cloth, paper and fleece rolls. They allow easy and flexible working on virtually any material.

Shapes

Roll

Application recommendation

Performance Level	Specification	All in One	Pages
★ BASIC CLOTH ROLLS	A-B01 C JX	●	195

★ BASIC

Cloth rolls A-B01 C JX

Universal use

With flexible cloth rolls from TYROLIT you can machine almost any material. When finishing surfaces, preparation either by hand or using an orbital sander is required. When machining wood, paint and lacquer, TYROLIT recommends BASIC* cloth rolls for hand-guided grinding. For finishing coatings, smoothing and cleaning composites, and for clean intermediate grinding, we recommend cloth rolls on an orbital sander.

Shape		Type no.	Dimension	Grain	PU
	Roll	705824	1"x54 yards	40	1
		705825	1"x54 yards	60	1
		705826	1"x54 yards	80	1
		705828	1"x54 yards	100	1
		705830	1"x54 yards	120	1
		705831	1"x54 yards	150	1
		705832	1"x54 yards	180	1
		705833	1"x54 yards	220	1
		705834	1"x54 yards	240	1
		705836	1"x54 yards	320	1
		705837	1"x54 yards	400	1
		705854	1 1/2" x 54 yards	40	1
		705855	1 1/2" x 54 yards	60	1
		705856	1 1/2" x 54 yards	80	1
		705857	1 1/2" x 54 yards	100	1
		705858	1 1/2" x 54 yards	120	1
		705859	1 1/2" x 54 yards	150	1
		705860	1 1/2" x 54 yards	180	1
		705861	1 1/2" x 54 yards	220	1
		705862	1 1/2" x 54 yards	240	1
		705863	1 1/2" x 54 yards	320	1
		705864	1 1/2" x 54 yards	400	1
		705885	2" x 54 yards	40	1
		705886	2" x 54 yards	60	1
		705887	2" x 54 yards	80	1
		705888	2" x 54 yards	100	1
		705889	2" x 54 yards	120	1
		705891	2" x 54 yards	150	1
		705892	2" x 54 yards	180	1
		705894	2" x 54 yards	220	1
		705895	2" x 54 yards	240	1
		705896	2" x 54 yards	320	1
		705898	2" x 54 yards	400	1

4.10 Sheets **for hand sanding**

Sheets
for hand sanding and superfinishing

Any kind of surface finishing requires thorough preparation. This can be done by hand or using an orbital sander.

Wood, paint or lacquer are usually abraded by hand. Deburring work can also be accomplished by hand. However, for perfect intermediate sanding, we recommend using an orbital sander. This also allows smooth finishing of coatings and smoothing of composite materials.

For jobs like these we offer abrasive sheets in a wide range of designs, such as cloth, paper and fleece rolls. They allow easy and flexible working on virtually any material.

Shapes

Sheet

Application recommendation

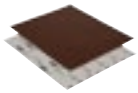
Performance Level	Specification	Steel	NF metals	Paint / lacquer	Wood	All in One	Stone	Wet	Pages
★★★ PREMIUM	A-P07 P C	●	●	●	●			●	199
PAPER SHEETS	C-P68 P C	●	●	●	●		●	●	200
★ BASIC	A-B01 C JJ					●			200
CLOTH SHEETS									
★★★ PREMIUM	A-B01 C JJ					●			201
FLEECE SHEETS									

★★★ PREMIUM

A-P07 P C paper sheets

For steel, nonferrous metals, wood, paints and lacquers

The special feature of the PREMIUM*** paper sheets is a latex-finished backing, which makes them ideal for wet and dry finishing. This is the perfect product for preparing and machining metal, wood, paint and lacquer. The closed coating of the PREMIUM*** paper sheets delivers an excellent surface finish.



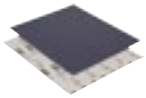
Shape		Type no.	Dimension	Grain	PU
	Sheet	706001	9"x11"	60	50
		706002	9"x11"	80	50
		706003	9"x11"	100	50
		706004	9"x11"	120	50
		706005	9"x11"	150	50
		706006	9"x11"	180	50
		706007	9"x11"	220	50
		706008	9"x11"	240	50
		706009	9"x11"	320	50
		706010	9"x11"	400	50
		706011	9"x11"	600	50
		706012	9"x11"	800	50
		706013	9"x11"	1000	50
		706014	9"x11"	1200	50

★★★ PREMIUM

C-P68 P C paper sheets

For steel, nonferrous metals, wood, paints and lacquers

The paper sheets made of silicon carbide are the perfect product for preparing and machining metal, wood, paint and lacquer. The special feature of the PREMIUM*** sheets is a latex-finished backing, which makes them ideal for wet and dry finishing. The closed coating of the PREMIUM*** paper sheets delivers an excellent surface finish.



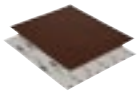
Shape		Type no.	Dimension	Grain	PU
	Sheet	724257	9"x11"	80	50
		724264	9"x11"	100	50
		724267	9"x11"	120	50
		724268	9"x11"	150	50
		724271	9"x11"	180	50
		724272	9"x11"	220	50
		724273	9"x11"	240	50
		724275	9"x11"	320	50
		724276	9"x11"	400	50
		724281	9"x11"	600	50
		724283	9"x11"	800	50
		724284	9"x11"	1000	50
		724285	9"x11"	1200	50

★ BASIC

A-B01 C JJ cloth sheets

Universal use

With highly flexible cloth sheets from TYROLIT you can machine almost any material. When finishing surfaces, preparation either by hand or using an orbital sander is required. When machining wood, paint and lacquer, TYROLIT recommends the BASIC* cloth sheets. However, our products can also be used for finishing coatings, or smoothing and cleaning composites.



Shape		Type no.	Dimension	Grain	PU
	Sheet	20832	9"x11"	60	50
		20833	9"x11"	80	50
		20834	9"x11"	100	50
		20835	9"x11"	120	50
		20836	9"x11"	150	50
		20842	9"x11"	180	50
		20844	9"x11"	220	50
		20851	9"x11"	240	50
		20860	9"x11"	320	50
		20868	9"x11"	400	50

★★★ PREMIUM

Fleece sheets

Universal use

+ **Long lifetime**
Thanks to 100% impregnation, the abrasive grain is not only located on the surface, but also inside the fleece.

+ **Universal use**
The assortment offers a wide selection of possible uses on all common materials.

+ **Flexible use**
The abrasive fabric adapts perfectly to any workpiece surface.

Our fleece sheets are used for cleaning and processing surfaces using orbital sanders or for hand-guided grinding. A wide range of specifications offer the user a variety of surface finish options. The assortment extends from coarse specifications for cleaning weld seams through to ultra-fine and polishing fleece.

★★★ PREMIUM

Fleece sheets
Universal use

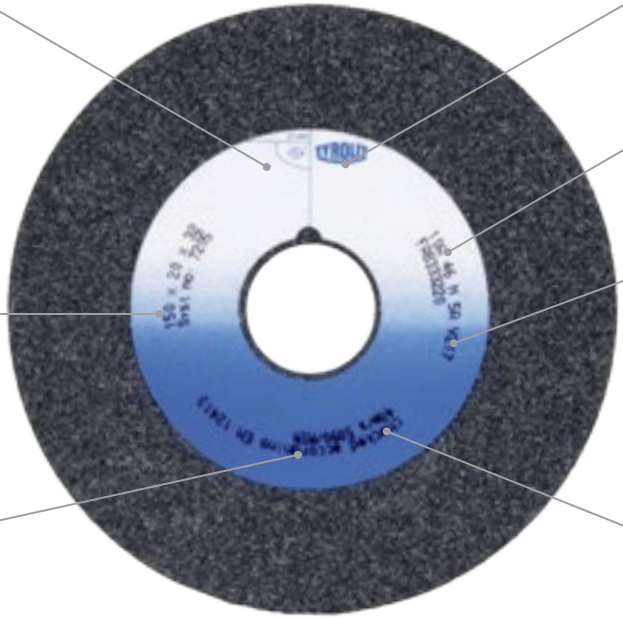
	Shape	Type no.	Dimension	Conforms to	Specification	Color	PU
Sheet		120769	6"x9"	P150	A COARSE	BROWN	10
		120770	6"x9"	P220-240	A MEDIUM	RED-BROWN	10
		120772	6"x9"	P320	A FINE	RED-BROWN	10
		120774	6"x9"	P400-500	A VERY FINE	RED-BROWN	10
		120777	6"x9"	P220-240	S MEDIUM	BLACK	10
		120779	6"x9"	P800	C ULTRA FINE	GREY	10
		120781	6"x9"	P400-500	A GP-GREEN	GREEN	10
		120787	6"x9"	–	POLISH	WHITE	10

Precision grinding

Bench grinders **207**

Bench grinding wheels 208

Precision tool specific information product label



Pictograms

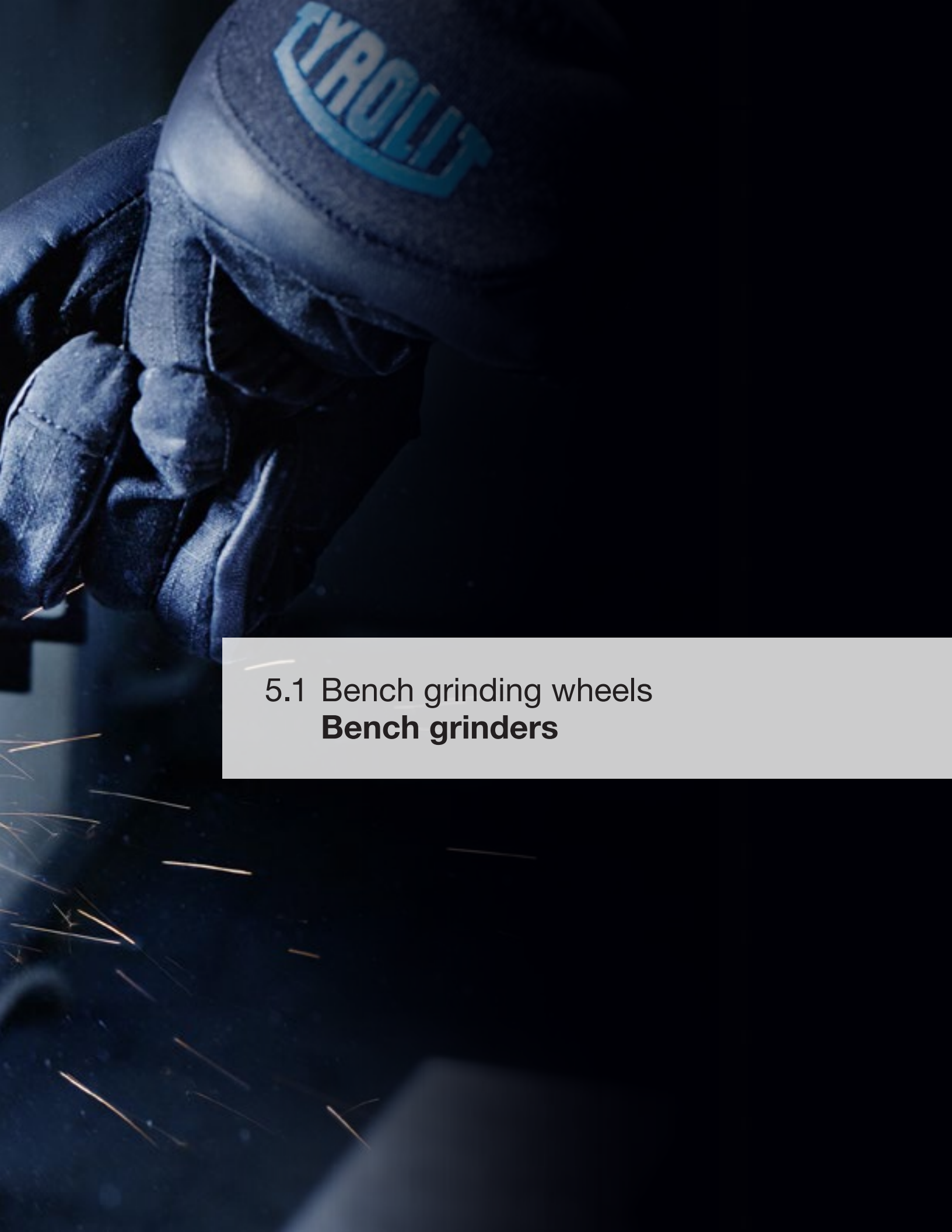
Bench
grinders

Example for breadth of product range

C	60	H	5	Stock type	>	Recommended standard specification
C	46-180	F-I	5-8	5 - 6 weeks	>	Possible range of modifications for grit sizes, hardness and structure
C	80	F	8		>	Example of a possible modification

Modification on request

To ensure quicker delivery times in urgent cases, existing stock types (recommended stock types) can be modified to suit customer requirements. The current delivery time and price will be provided according to the inquiry.



5.1 Bench grinding wheels
Bench grinders

Bench grinding wheels

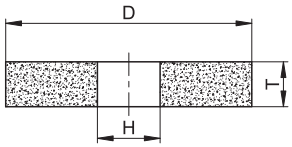
The bench grinder is a versatile machine used in many workshops for machining various materials. The TYROLIT range of bench grinding wheels therefore contains the right wheel for every material.

The wheels with the universal application specification impress in particular through their smooth running and easy handling. A reduction bush set is included in each package for proper assembly. The packaging itself is suitable for stacking on racks and thus saves space and storage costs.

Application recommendation

Specification	Non and low-alloyed steels		Tungsten carbide	Cast iron	Pages
	Unhardened	Hardened			
A36	●				210
A46	●				210
A60	●				210
A80	●				210
CA60			●	●	211
CA80			●	●	211
CA100			●	●	211

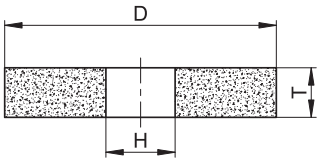
Shapes



Shape 1

Bench grinding wheels, conventional ceramic

For non and low-alloyed steels



Shape 1

Vitrified bonded bench grinding wheels are primarily used in workshops and repair companies. They can be used universally for grinding and sharpening various components. The tailored specifications enable them to be used for a wide range of applications, from coarse to fine grinding.

These wheels are supplied in packaging suitable for retailers so that they take up minimum space in storage. A reduction bush set is included in the packaging or can be reordered.

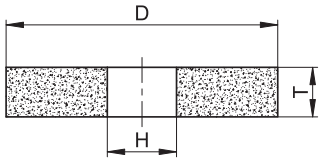
	Type no. new	Type no. old	Dimension	Specification	RPM	PU
1	188807	188807	6"x3/4"x1"	A36-COA	5,090	1
	188804	188804	6"x3/4"x1"	A60-MED	5,090	1
	188805	188805	6"x3/4"x1"	A80-FINE	5,090	1
	188809	188809	6"x1"x1"	A36-COA	5,090	1
	830038	830038	6"x1"x1"	A46-COA	5,090	1
	188815	188815	6"x1"x1"	A60-MED	5,090	1
	188811	188811	6"x1"x1"	A80-FINE	5,090	1
	188837	188837	7"x3/4"x1"	A80-FINE	4,240	1
	188840	188840	7"x3/4"x1"	A36-COA	4,240	1
	188829	188829	7"x3/4"x1"	A60-MED	4,240	1
	188826	188826	8"x3/4"x1"	A36-COA	4,240	1
	188834	188834	8"x3/4"x1"	A60-MED	4,240	1
	188825	188825	8"x3/4"x1"	A80-FINE	4,240	1
	188839	188839	8"x3/4"x1"	A36-COA	3,810	1
	188833	188833	8"x3/4"x1"	A60-MED	3,810	1
	188835	188835	8"x3/4"x1"	A80-FINE	3,810	1
	188820	188820	8"x1"x1"	A36-COA	3,810	1
	864749	864749	8"x1"x1"	A46-COA	3,810	1
	188810	188810	8"x1"x1"	A60-MED	3,810	1
	188817	188817	8"x1"x1"	A80-FINE	3,810	1
	188818	188818	10"x1"x1 1/2"	A24-EX.COA	3,050	1
	188838	188838	10"x1"x1 1/2"	A36-COA	3,050	1
	188823	188823	10"x1"x1 1/2"	A60-MED	3,050	1
	188821	188821	10"x1"x1 1/2"	A80-FINE	3,050	1
	188832	188832	10"x1 1/2"x1 1/2"	A24-EX.COA	3,050	1
	188830	188830	10"x1 1/2"x1 1/2"	A36-COA	3,050	1
	188814	188814	10"x1 1/2"x1 1/2"	A60-MED	3,050	1
	150351	150351	12"x1 1/2"x1 1/2"	A24-EX.COA	2,540	1
	375828	375828	12"x1 1/2"x1 1/2"	A36-COA	2,540	1
	437137	437137	12"x1 1/2"x1 1/2"	A60-MED	2,540	1
	42966	42966	12"x2"x1 1/2"	A24-EX.COA	2,540	1
	103399	103399	12"x2"x1 1/2"	A36-COA	2,540	1

▶

	Type no. new	Type no. old	Dimension	Specification	RPM	PU
1	89913	89913	12"x2"x1 1/2"	A60-MED	2,540	1
	53851	53851	14"x2"x1 1/2"	A24-EX.COA	2,180	1
	47457	47457	14"x2"x1 1/2"	A36-COA	2,180	1
	124261	124261	14"x2"x1 1/2"	A60-MED	2,180	1

Bench grinding wheels, conventional ceramic

For tungsten carbide and cast iron



Shape 1

When sharpening solid carbide or tungsten carbide tipped tools, only wheels with silicon carbide specifications should be used. Due to their special grain shape you can achieve good results even on extremely hard workpieces.

This wheel can also be used for cast iron. A reduction bush set is included in the packaging or can be reordered.

	Type no. new	Type no. old	Dimension	Specification	RPM	PU
1	281497	281497	6"x3/4"x1"	C60-COA	5,090	1
	281515	281515	6"x3/4"x1"	C80-MED	5,090	1
	281520	281520	6"x3/4"x1"	C100-FINE	5,090	1
	281512	281512	6"x1"x1"	C60-COA	5,090	1
	281507	281507	6"x1"x1"	C80-MED	5,090	1
	281526	281526	6"x1"x1"	C100-FINE	5,090	1
	281514	281514	7"x1"x1"	C60-COA	4,240	1
	281521	281521	7"x1"x1"	C80-MED	4,240	1
	281498	281498	8"x1"x1"	C60-COA	3,810	1
	281501	281501	8"x1"x1"	C80-MED	3,810	1
	281527	281527	8"x1"x1"	C100-FINE	3,810	1
	281510	281510	10"x1"x1-1/2"	C60-COA	3,050	1
	281511	281511	10"x1"x1-1/2"	C80-MED	3,050	1
	281524	281524	10"x1"x1-1/2"	C100-FINE	3,050	1
	136344	136344	12"x2"x1-1/2"	C60-COA	2,540	1

HYMO
DEMAG

Notes

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Safety

SafetyBrand TYROLIT

Our aim was and is to make our products even safer for our users:

Through our work as the founder member of the “Organisation for the Safety of Abrasives (oSa®)”, through close cooperation with the safety authorities and through practical communication with our users all over the world.

aim of oSa®

The main aim of oSa® is defined in terms of absolute protection for the users of grinding tools, whereby members undertake to provide a consistently high level of quality, adopt a rigorous approach towards quality assurance and strive to develop new, improved standards of safety.

TYROLIT Quality Management System

The TYROLIT quality management system has been certified to ISO 9001:2000 by an external authorized body for the entire production area. Production is carried out in accordance with European Standards:

- EN12413 for grinding wheels made of bonded abrasives
- EN13236 for grinding wheels made of diamond or boron nitride
- EN13743 for special abrasives on an underlay such as vulcanized fiber grinding wheels,
- flap grinding wheels, flap discs and mounted points.

On account of the fact that in the approval principles (EN-Standard) very high requirements are set on the grinding tools concerning defined technical grinding parameters, TYROLIT basically delivers all grinding tools corresponding to these principles. As a result we guarantee a constantly high safety level, also in countries without compulsory approvals.

Final Inspection

TYROLIT is constantly doing final inspections concerning imbalance, bursting tests, cutting & grinding tests according to EN12413.

Resin bonded products undergo a final inspection regarding a visual and identification test, a geometry, imbalance, bursting and side load test as well as a control grinding and cutting process.

Resin and ceramic bonded products undergo a final inspection regarding a visual and identification test, a geometry, imbalance, bursting and side load test as well as a test run, a sound test.

Safety

The following plays an equal part when it comes to safety when grinding: machine manufacturer, grinding wheel producer and user.

Grinding wheels are subject to a high load during the grinding process. This is why grinding machines, grinding bodies, handling and application must be optimally harmonized to ensure safe grinding. For the grinding machines, it is generally important to observe the machine conditions and the stipulation of the protection cover.

Whereas the manufacturer implements the safety measures in line with regulations in relation to the grinding machine and grinding wheels, the user is responsible for safety when grinding through use of the grinding machine for the intended purpose, as well as through correct handling and application of the grinding wheels.

the following must be observed:

- Checking of grinding bodies on delivery
- Handling and storage of grinding bodies
- Labelling, synchronization with machine data
- Checking of grinding wheels prior to clamping
- Clamping methods for grinding wheels
- Test run of grinding bodies prior to start-up
- Eye protection and protective clothing (see also FEPA safety code)

Storage of the grinding wheels

Grinding wheels are to be stored in suitable racks or containers so that they are not damaged and so that it is easily possible to remove wheels without disturbing the storage setup. Older stock should be used first.

During storage, the following must be noted

Store the grinding wheels in a dry, rust-free condition and do not expose grinding wheels to large temperature fluctuations.

Storage for different types of grinding bodies

- Store cut-off wheels on a level underlay without intermediate layers and weigh them down with a steel or cast iron plate
- Store large straight grinding wheels in an upright position and make sure they cannot roll away
- Stack cylinder wheels, cylindrical grinding discs and grinding plates using soft intermediate layers
- Stack grinding discs, shape 11, in each cases faces or bases together
- Store small grinding wheels in suitable containers

Checking of grinding wheels on delivery

Check packaging on delivery. If damage is visible on the packaging, the grinding wheel should be checked particularly thoroughly for any possible transport damage.

Identification of the grinding wheels

The purpose of the identification is to give people, in particular those who carry out the clamping of the grinding wheels, information for safe use and proper application.

Grinding wheels may only be used if they are identified with the following minimum information

- manufacturer,
- dimensions of grinding wheel,
- material (at least the type of bond),
- maximum permissible RPM of new grinding wheel and maximum operating speed in m/s.

The user is obliged to match the machine speed to the maximum permissible speed given in the identification.

Checking of grinding wheels prior to clamping

Each time before clamping, the grinding wheels must be cleaned and checked for damage by means of visual inspection.

The sound test should be repeated. Damaged grinding wheels must not be mounted.

For the sound test, lightweight grinding wheels are pushed onto a mandrel or shaft, heavy grinding wheels are placed on a firm floor.

The grinding wheel is tapped with a non-metal object at several points.

An undamaged grinding wheel gives a clear ring, while a damaged on gives a dull or clanking sound.

All contact surfaces on grinding wheels, intermediate layers and wheel flanges must be level (flat) and be free from foreign bodies. Foreign particles between grinding wheels and wheel flanges create pressure points and stresses, which can lead to breakage of the grinding wheel.

Clamping methods for grinding wheels

Depending on the type of machine and grinding method, as well as the grinding wheel shape, a distinction can be made between the following clamping methods

- Mounting in the central bore using wheel flanges
- Mounting using embedded fixing elements
- Mounting using support plates
- Mounting using clamping head

Mounting in the central bore using wheel flanges

A distinction should be made between the following wheel flange types for central bores

- recessed wheel flange
- straight wheel flanges for portable grinding machines
- special flanges
- stepped flanges
- locating flanges and tapered wheel flanges.

The purpose of the wheel flange is to transfer drive forces. Therefore, they must be in such a condition that there is no deformation of the wheel flange during clamping. The contact surfaces must be level (flat) and must not show any burring, and the run-out of the grinding wheel must be safeguarded.

Only wheel flanges that have the same external diameter and the same shape on the contact side may be used. They must be recessed so that only a ring-shaped area of the wheel flange is on the surface.

Clamping using embedded fixing elements

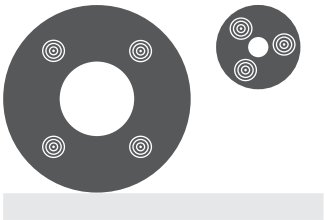
The grinding wheels are fixed using embedded fixing elements on the grinding machine. Examples of this are the clamping of cylindrical and taper cup wheels, or the fixing of mounted points with embedded steel shafts in collets on portable grinding machines.

Clamping of grinding wheels on support plates

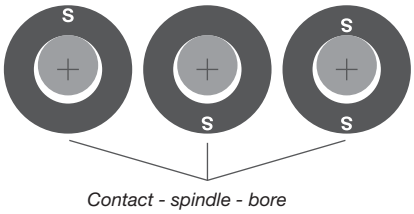
The grinding wheels are either cemented or fixed with inserted nuts.

Clamping of grinding segments in clamping heads

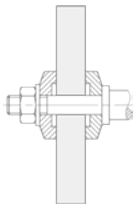
Grinding segments are clamped to one grinding unit (segment head) in clamping heads. On the contact surfaces between the grinding segments and the clamping pieces, adhesive strips can be placed on the grinding segments to avoid stresses in the grinding segments.



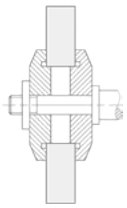
Examples of tapping points during the sound test



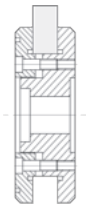
Examples of identifying wheel orientation



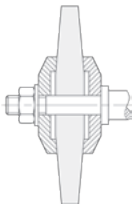
Recessed wheel flange



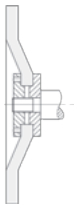
Stepped flange



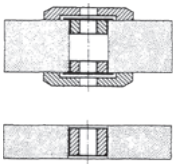
Locating flange



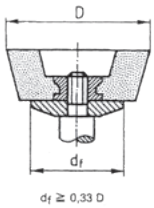
Tapered wheel flange



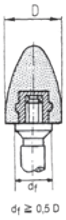
Straight wheel flange



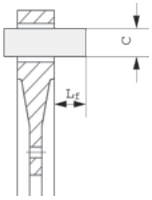
Example of the correct way to use reducing rings



Clamping of taper cup wheels with a thread insert



Clamping of a grinding cone, shape 16, with a thread insert



Clamping of grinding segments in clamping heads Lf = 1.5 C

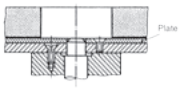


Figure 1

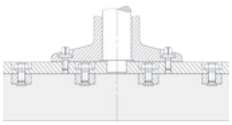


Figure 2

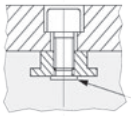


Figure 3

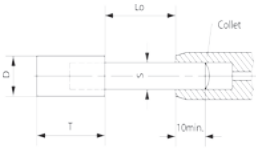


Figure 4

Fig. 1: Grinding wheel, cemented
Fig. 2: Grinding wheel with inserted nuts
Fig. 3: Correct bolt connection, bolt end must not touch the base of the grinding wheel
Fig. 4: Clamping of mounted points

Test run prior to start-up

Every standard grinding wheel (D greater than 80mm) must undergo a test run at maximum operating speed before being used for the first time and after every re-mounting.

The duration of a test run for grinding wheels on portable grinding machines is 30 seconds and one minute on all other grinding machines.

The test run may only be carried out once the danger zone has been secured and if applicable, the machine guard is in place. The grinding wheel can only be used for the intended work once the test run has been passed without complaint.

Eye protection and protective clothing

All grinding tasks where people are at risk from flying particles off grinding wheels or workpieces must only be carried out using eye protection (safety glasses) and when necessary, other protective clothing (e.g. leather apron and leather gloves).

Summary

The most important points for safe use of grinding wheels are summarized again below:

- Adjustment of the machine data to the identification data
- Checking of grinding wheels prior to mounting
- Mounting carried out by skilled people
- Checking of the functionality of the machine guard
- Test run of grinding wheels prior to grinding work
- Personal safety

Safety information

Use gloves

Use dust mask

Wet grinding

Not permitted for side grinding

Use eye protection

Personal safety

Dry grinding

No freehand work

Use ear protection

Pay attention to the safety recommendations

Do not use damaged wheels

Free from Fe, S, Cl

Do’s & don’ts

- ✓ Handle and store grinding tools carefully; use the oldest tools first.
- ✓ Prior to mounting or use, grinding wheels must be cleaned and undergo a visual check for cracks or possible damage.
- ✓ Ceramic bonded grinding tools must undergo a sound check before mounting.
- ✓ Make sure that the speed of the machine (RPM) does not exceed the maximum operating speed specified on the packaging or on the abrasive.
- ✓ Ensure that the bore of the grinding tool – with or without thread – fits the shaft of the machine perfectly; and that the wheel flanges are clean, flat, the same size and suitable for the grinding tool to be clamped.
- ✓ As intended or supplied, use the intermediate layers between the grinding wheel and wheel flanges.
- ✓ Only use machines with protection/guards and ensure their proper condition and fixture before the machine is switched on.
- ✓ After each mounting, carry out a test run for at least one minute at the operating speed and ensure machine guard is mounted correctly. In doing so, ensure that any fragments would not be able to hit you or someone else in the event of a possible breakage.
- ✓ Eye protection is always recommended for all grinding processes. For off-hand grinding, protective goggles or a safety mask is recommended.
- ✓ When working with cut-off or roughing wheels, ensure that the air supply and protective measures sufficiently correspond with the material to be processed. Suitable extraction systems should be fitted for all dry grinding processes.
- ✓ Only use machines that are also suitable for grinding tools with hub.
- ✓ Before stopping the machine, cut off the supply of cooling lubricant and remove the excess cooling lubricant from the grinding wheel.

- × Do not use abrasives that are exposed to particularly humid/wet conditions or high temperatures prior to mounting.
- × Never use abrasives that have been dropped, damaged or that look like they would not be fit for purpose.
- × Never exceed the maximum permissible operating speed specified.
- × Do not use wheel flanges with surfaces that are not free of foreign bodies (e. g. grinding swarf), flat or burrfree.
- × Do not tighten the clamping device or wheel flange too much.
- × Do not use recessed wheel flanges or flanges with recesses for grinding discs or cones.
- × Never use force when clamping and do not make any changes to the grinding tool.
- × Only use one-way adapters (hubs) once.
- × Only switch on the machine when the protection cover is correctly and securely fixed (machine guards or covers should be set in such a way that they divert sparks and grinding particles away from the body).
- × Only start the machine if there is no contact between the workpiece and the grinding tool.
- × Never work with grinding tools without sufficient air supply (never without breathing apparatus and ear protection, particularly in enclosed spaces) and without personal safety equipment (see pictogram).
- × Use a suitable grinding tool – an unsuitable product can create excessive grinding particles and dust.
- × Avoid mechanical damage to the grinding wheel as a result of force effects, jolting or heating.
- × Never use grinding machines in an improper condition or that contain faulty components.
- × Do not use cut-off wheels for grinding work (do not exert a lateral load on any cut-off wheels of shape 41 or 42).
- × Never mount more than one grinding tool on one shaft.

Speed recommendations

Rotational speeds and peripheral speeds depending on the external diameter Ø=D of the grinding wheels.

	Rotations n per minute min-1 depends on external diameter D of grinding wheel and the maximum operating speed V_S										
	Maximum operating speed V_s in m/s										
D in mm	**16**	**20**	**25**	**32**	**35**	**40**	**50**	**63**	**80**	**100**	**125**
3											
4	75.300	95.400									
5	61.100	76.300	95.400								
6	50.900	63.600	79.500								
8	38.100	47.700	59.600	76.300	83.500	95.400					
10	30.500	38.100	47.700	61.100	66.800	76.300	95.400				
13	23.500	29.300	36.700	47.000	51.400	58.700	73.400	92.500			
16	19.000	23.800	29.800	38.100	41.700	47.700	59.600	75.200	95.400		
20	15.200	19.000	23.800	30.500	33.400	38.100	47.700	60.100	76.300	95.400	
25	12.200	15.200	19.000	24.400	26.700	30.500	38.100	48.100	61.100	76.300	95.400
32	9.540	11.900	14.900	19.000	20.800	23.800	29.800	37.600	47.700	59.600	74.600
35	8.730	10.900	13.600	17.400	19.000	21.800	27.200	34.300	43.600	54.400	68.200
40	7.630	9.540	11.900	15.200	16.700	19.000	23.800	30.000	38.100	47.700	59.600
50	6.110	7.630	9.540	12.200	13.300	15.200	19.000	24.000	30.500	38.100	47.700
63	4.850	6.060	7.570	9.700	10.600	12.100	15.100	10.000	24.200	30.300	37.800
80	3.810	4.770	5.960	7.630	8.350	9.540	11.900	15.000	19.000	23.800	29.800
100	3.050	3.810	4.770	6.110	6.680	7.630	9.540	12.000	15.200	19.000	23.800
115	2.650	3.320	4.150	5.310	5.810	6.640	8.300	10.400	13.200	16.600	20.700
125	2.440	3.050	3.810	4.880	5.340	6.110	7.630	9.620	12.200	15.200	19.000
150	2.030	2.540	3.180	4.070	4.450	5.090	6.360	8.020	10.100	12.700	15.900
175	1.740	2.180	2.720	3.490	3.810	4.360	5.450	6.870	8.730	10.900	13.600
180	1.690	2.120	2.650	3.390	3.710	4.240	5.300	6.680	8.480	10.600	13.200
200	1.520	1.900	2.380	3.050	3.340	3.810	4.770	6.010	7.630	9.540	11.900
225	1.350	1.690	2.120	2.710	2.970	3.390	4.240	5.340	6.790	8.480	10.600
230	1.320	1.660	2.070	2.650	2.900	3.320	4.150	5.230	6.640	8.300	10.300
250	1.220	1.520	1.900	2.440	2.670	3.050	3.810	4.810	6.110	7.630	9.540
300	1.010	1.270	1.590	2.030	2.220	2.540	3.180	4.010	5.090	6.360	7.950
350	870	1.090	1.360	1.740	1.900	2.180	2.720	3.430	4.360	5.450	6.820
400	760	950	1.190	1.520	1.670	1.900	2.380	3.000	3.810	4.770	5.960
450	670	840	1.060	1.350	1.480	1.690	2.120	2.670	3.390	4.240	5.300
500	610	760	950	1.220	1.330	1.520	1.900	2.400	3.050	3.810	4.770
600	500	630	790	1.010	1.110	1.270	1.590	2.000	2.540	3.180	3.970
700	430	540	680	870	950	1.090	1.360	1.710	2.180	2.720	3.410
750	400	500	630	810	890	1.010	1.270	1.600	2.030	2.540	3.180
800	380	470	590	760	830	950	1.190	1.500	1.900	2.380	2.980
900	330	420	530	670	740	840	1.060	1.330	1.690	2.120	2.650
1000	300	380	470	610	660	760	950	1.200	1.520	1.900	2.380
1060	280	360	450	570	630	720	900	1.130	1.440	1.800	2.250
1250	250	310	390	500	550	630	790	1.000	1.270	1.590	1.980
1500	200	250	310	400	440	500	630	800	1.010	1.270	1.590

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Catalog

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Safety

- Wear gloves
- Wear protective clothing
- Do not use damaged wheels
- Wear eye protection
- Observe the instructions
- Do not use damaged wheels
- Wear ear protection
- Only permitted for wet grinding
- Not permitted for wet grinding
- Wear a mask
- Not permitted for off-hand and hand-guided grinding
- Free from Fe, S, Cl

Material

- Steel
- Carbide metal
- Titanium
- 2in1 aluminum / stainless steel
- Plastic
- Nonferrous metals
- Gel coat
- Stone
- All in One
- Cast iron
- Composites
- Stainless steel
- 2in1 steel / stainless steel
- High-speed steel
- Paint / lacquer
- 2in1 aluminum / stone
- Rails
- Wood
- 3in1 cast iron / steel / stainless steel
- Tiles

Machines

- Angle grinder with cup wheel
- Gas cutting saw
- Straight grinder
- Angle grinder with brush
- Chop saw
- Hand-guided grinding
- Angle grinder
- Belt grinder
- Circular saw
- Pneumatic angle grinder
- Floorstand grinder
- Stationary cutting machine

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