



**YOUR PARTNER IN THE
CERAMIC TILE INDUSTRY**

Tools and technical solutions

Premium grinding tools since 1919
www.tyrolit.com

TYROLIT

TYROLIT Group

A global company

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

Day in, day out, the experts at TYROLIT work on delivering tailor-made solutions for customers around the world, helping to make their businesses successful. Around 80,000 available products set the standards in a wide variety of industries.



TYROLIT company headquarters in Schwaz, Austria

TYROLIT business units



Stone-Ceramics-Glass

Our tailored diamond tools and grinding solutions in the Stone – Ceramics – Glass business unit impress through their exceptional performance and quality.



Metal / Precision

From precision machining in the engine and gearbox 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 wide variety of applications.



Trade

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



Construction

In the construction division, TYROLIT is the leading system supplier for drilling systems, wall- and wire saws, floor saws and surface treatment.

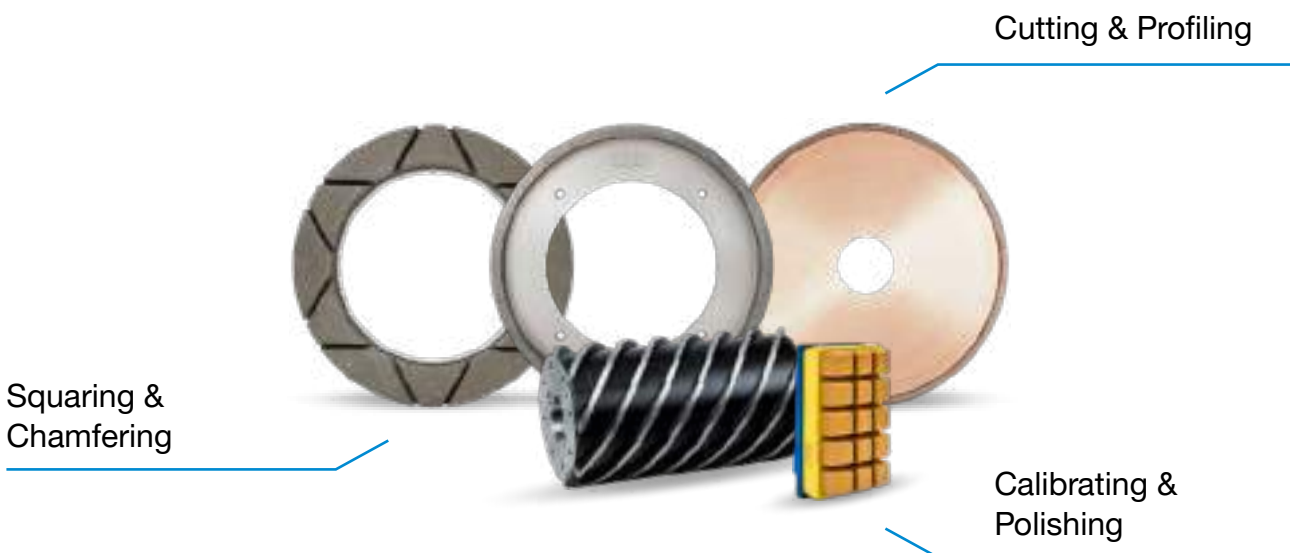
Competence & experience

Professional partner on equal terms

In all business development stages, TYROLIT always places the customer at the center of its activities. An experienced team of application engineers is available to our customers throughout the world and works to produce the most economically efficient solutions.

The name of TYROLIT is synonymous with innovative products and tool quality at the highest possible level. In our Development Department we are constantly working on new and innovative products, aiming to make our customers' future processes even more efficient for the infinite range of materials processing in all ceramic applications.

TYROLIT Group A global partner for all applications in ceramic tile industry



Milestones for ceramic tile industry

Innovation leadership can only be achieved by constantly coming up with something new that serves the whole branch. In the ceramics tile industry TYROLIT plays an active role in developing innovation and the impressive milestones show it in the daily work of the customers all over the world.

**1996**

Continuous band saw blades VIT are the best in the edge cutting of ceramic, mosaic and stone tiles.

**1999**

Calibrating rollers with continuous rim for rotating heads were introduced.

**2004**

New design of metal bond diamond fickerts with continuous diamond layer and specific geometry grants an excellent finishing of large ceramic slabs and tiles.

**2015**

Launch of SIRIO new series of metallic squaring cups (Premium, Universal, Eco, Dry).

**1998**

The spiral rollers with five to ten spirals for calibrating and levelling porcelain tiles were first developed under the TYROLIT brand name.

**2003**

Resin bond diamond cup wheels for squaring grant a superior finishing on the ceramic edge.

**2007**

Resin fickerts for lappato polishing were launched on the market.

**2018**

The new DRY line of metallic and resin squaring cup wheels were designed and built using innovative materials and technologies to satisfy the most extreme working conditions as far as speed and removal rate are concerned.

Global presence Local availability

Global presence

TYROLIT stands for global thinking and activities. With a worldwide sales network currently in 65 countries and with our own production plants in 12 countries on five continents, we offer our customers all the advantages of a globally operating company.

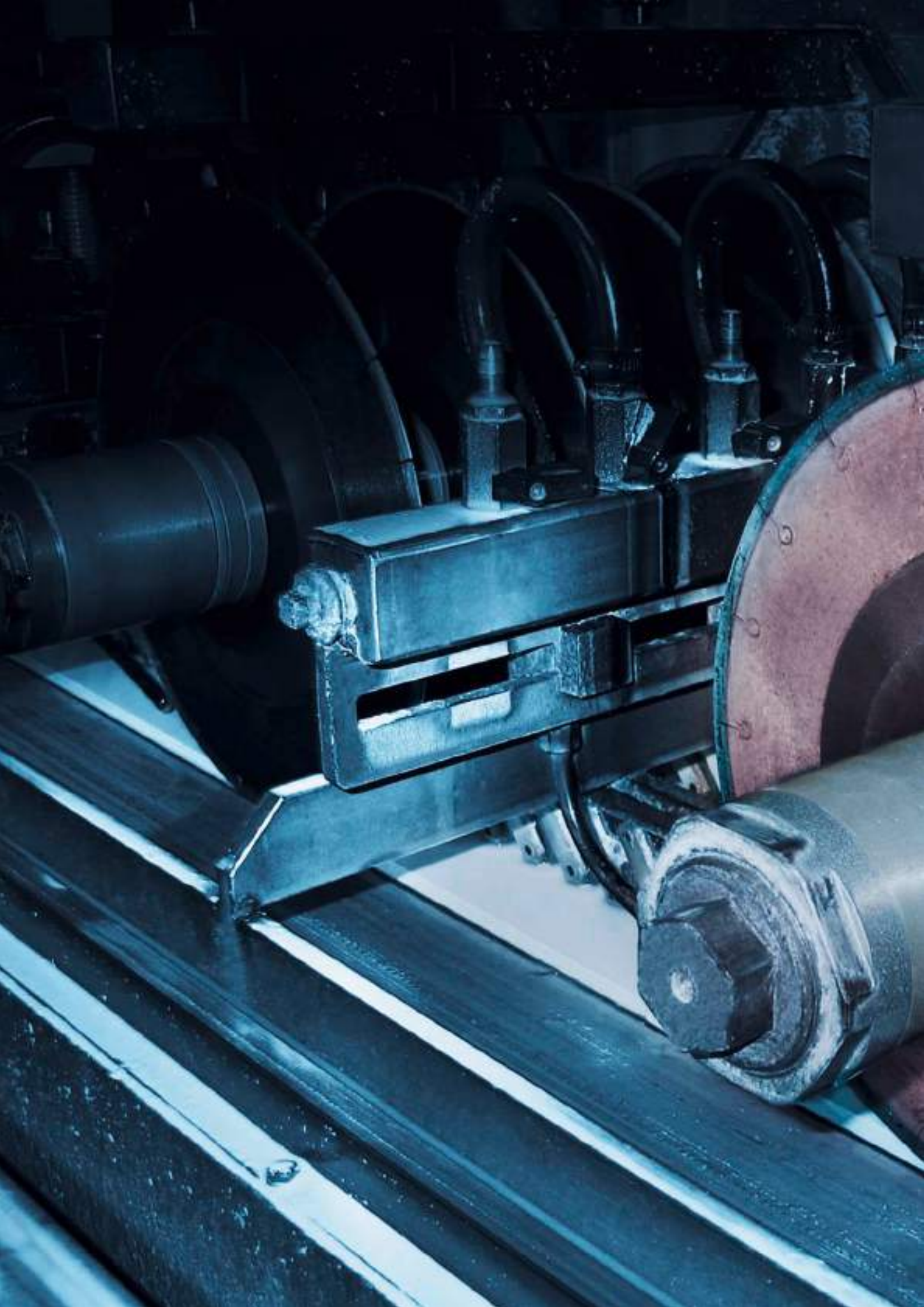
Local availability

Global thinking, local action – in your national language and in your vicinity. This is the principle we follow in dealing with our customers. Local contacts near your premises and a global team of specialist application engineers ensure optimum customer support and first-class service.

Your benefits

- + Global presence with local contacts
- + Short response and service times





A close-up photograph of industrial machinery, likely a metalworking or manufacturing process. The image features several large, circular, reddish-brown components, possibly grinding wheels or rollers, arranged in a row. The surfaces are wet and show signs of use. The background is dark and industrial, with various mechanical parts and structures visible. A blue banner is overlaid on the right side of the image, containing the text "Cutting & Profiling".

Cutting & Profiling

Saw blades for industrial cutting and sizing of tiles

TYROLIT is able to offer a comprehensive range of diamond saw blades with segmented or laser-cut rim for cutting all ceramic materials (porcelain gres and all types of floor tiles) as well as mosaic. A wide assortment of diamond saw blades with continuous rim is also available for improved quality in the edge cutting of ceramic, mosaic and stone tiles. Perfect for cladding materials (single, double or triple-fired).



Segmented saw blades

Diamond saw blades with segmented or laser-cut rim for cutting all ceramic materials (porcelained gres and all types of floor tiles) as well as mosaic and stone tiles. Diameter 300 mm. Thickness from 1.2 to 6 mm.

- + Specifications developed for high speed cutting
- + Long lifetime
- + High quality chip-free cuts
- + Various bonds and grits available



Saw Blades With Continuous Rim

TYROLIT diamond saw blades with continuous rim have an excellent quality in the edge cutting of ceramic, mosaic and stone tiles. Perfect for cladding materials (single, double or triple-fired). Diameter 300 mm. Thickness from 1.2 to 6 mm.

- + Extremely high cutting accuracy
- + Long lifetime
- + High quality chip-free cuts
- + Various grits available

TYROLIT provides high quality and wide assortment of saw blades to satisfy customers' needs. Following information are required to recommend the best technical solution and to choose the right blade:

- + Machine: Power (Hp)
- + Number of shafts
- + Application: Diameter of the saw blade
- + Disc thickness each shaft
- + No. discs on the same shaft
- + Speed - m/min belt speed
- + Type and thickness of the material to be cut

Diamond tools for edge profiling of ceramic tiles

Focused on satisfaction of any requirement in processing skirting board, steps for stairs, TYROLIT offers a wide range of diamond tools for ceramic tile grinding, grooving and profiling.



Roughing wheels

TYROLIT provides diamond wheels specially developed for the roughing of ceramic tiles before the profiling.

- + High stock removal rate
- + Long lifetime



Available profiles:



1F1V profile



Elliptical profile



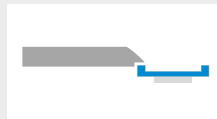
Bullnose profile

Profiling diamond wheels with segmented and continuous rim

TYROLIT provides an extensive range of grits for profiling tools: GR1 GR2 GR3 GR4 GR5 GR6 GR7 GR8

Segmented wheels are recommended for the first positions on machine granting high stock removal, whereas continuous rim wheels can be required for finishing.

Bottom side wheels:



Cup wheels

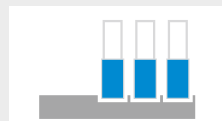


Peripheral wheels

Back side chamfering cup wheels



Antiskid discs





Calibrating & Polishing



Calibrating and grinding tools for ceramic tiles

The spiral rollers were first developed under the TYROLIT brand name and are still market leaders today. Continuous research into materials and technology makes TYROLIT the leading global supplier of diamond tools for machining granite and porcelain tiles.



Spiral calibrating rollers for ceramics

- + Rollers with 5 or 8 spirals
- + High stock removal rate and excellent fine grinding
- + Various grits available: from extremely coarse to fine
- + Geometries for all sizes and machine types
- + High cutting performance



Rollers for calibrating machines with rotating heads

Diamond tools with high cutting performance, particularly for pre-finishing and finishing slabs and strips of ceramics.

- + Various geometries and bonds available
- + Very good surface finish and long lifetime
- + High machine belt speeds allowed



Continuous rim rollers for polishing machines with rotating heads

Diamond tools with continuous rim have been specially developed to achieve a high stock removal rate combined with excellent surface finishes for ceramic or granite tiles and strips.

- + Very good cutting performance
- + Long lifetime
- + Various grits available: from extremely coarse to fine



Metal bond diamond fickerts for ceramic slabs and tiles

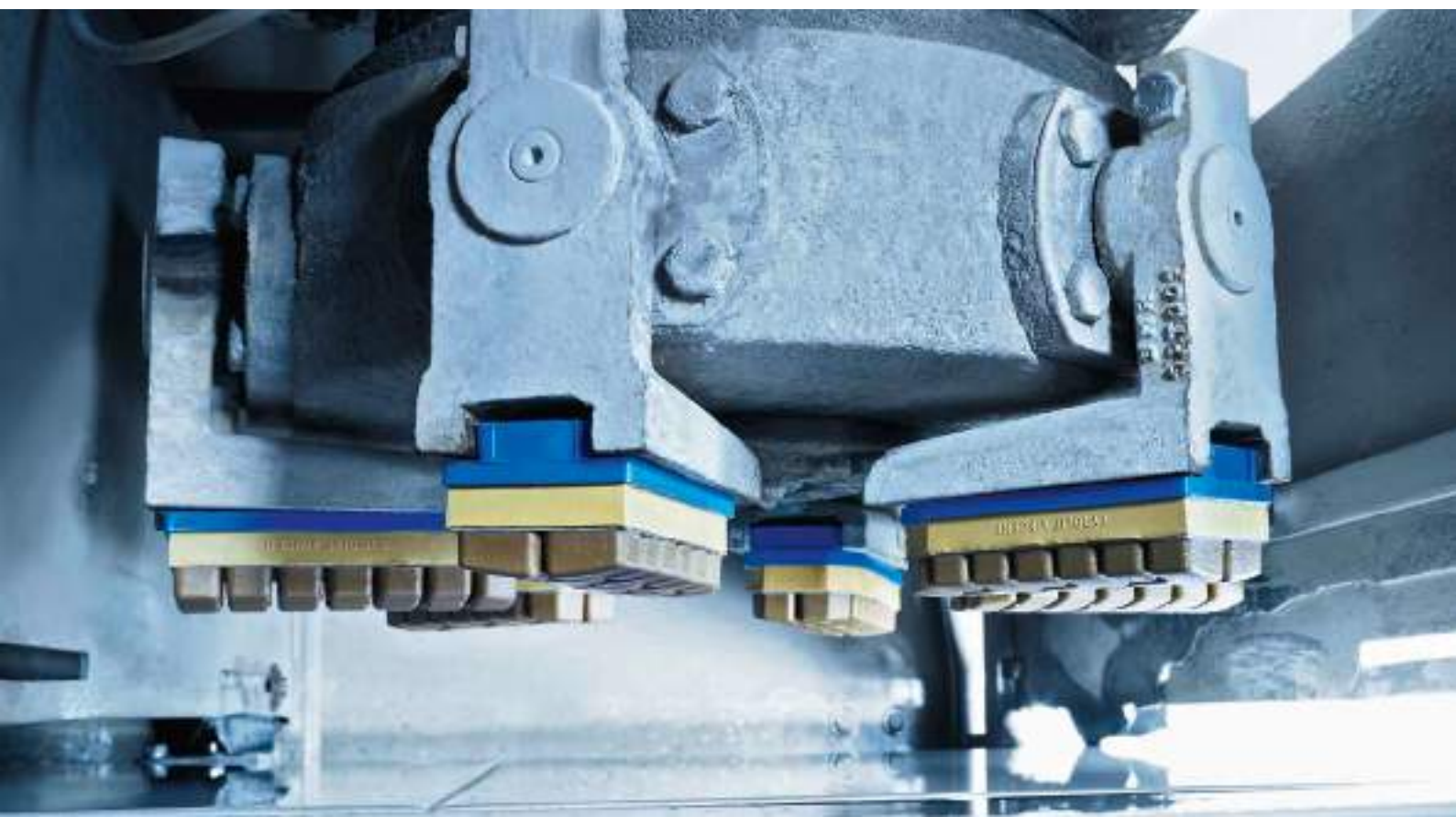
TYROLIT has developed metal bond diamond fickerts for the first positions of multi-head automatic polishing lines and single-head bridge polishing machines for grinding ceramic slabs and tiles.

- + High cutting performance
- + Long lifetime
- + Fine grinding

Resin bond fickerts for lapping

TYROLIT offers a wide range of resin-bonded diamond fickerts for lapping rough and full surfaces of maxi slabs and small tiles. These tools, coupled with flexible rubbers with a high level of mechanical resistance, enable to achieve a high surface gloss and an excellent quality on the various types of glaze on the market.

- + Enhance the characteristics of the ceramic tile to achieve new color effects and to improve the aesthetic properties of color, pattern and structure
- + For polishing glazed and non-glazed ceramic tile surfaces
- + Available in various geometries and fittings to adapt to all polishing machines and various formats.
- + Tool flexibility
- + Long lifetime
- + Specifications for rough surfaces and for full surfaces





A photograph of an industrial machine, likely a metalworking lathe or mill, with a red laser line projected across a metal workpiece. The machine has several blue hydraulic cylinders and silver metal components. The background is slightly blurred, showing more of the industrial environment.

Squaring & Chamfering

Metal cup wheels for squaring ceramic tiles

A new generation of diamond cup wheels for squaring ceramic tiles. Different product lines were designed to meet all application requirements and ensure optimal finishing of the rectified edges. Various grits available to ensure needed material removal and achieve desired surface quality in all machine setup. Diameter 230- 250-300 mm with attachments for use in all types of machines.



SIRIO

With SIRIO TYROLIT provides a grinding wheel with continuous or turbo rim that can work at high and low speed with a constant result. SIRIO can be successfully used both on monoporosa and porcelain gres.

- + Available the PREMIUM, UNIVERSAL, ECO and DRY line
- + Various grits available
- + Attachments for all types of machines
- + Continuous and turbo rim



TAURUS

TYROLIT developed a broadband grinding wheel with radius that guarantees a high removal with a high quality finish. TAURUS is available in the ECO and DRY line

- + Rough grit size
- + Large continuous rim with radius for irregular tiles
- + A high removal stock rate at low speed
- + High quality finish



SCORPIO

SCORPIO is a wide band grinding wheel used in the first positions, at high and medium speed, guarantees a good removal rate. Used also in the finishing positions with fine grits to improve finishing.

- + Available in the PREMIUM and DRY line
- + High removal with rough grits
- + Excellent finishing with fine grits



GEMINI

This double rim wheel for short machines (5-6 spindles), can work at the speed < 20 m/min. GEMINI achieves a good pre-finishing with an easy cutting. Available in the PREMIUM line.

- + Available in the PREMIUM line
- + Easy cutting
- + Good pre-finishing high quality finish

Quality lines:

PREMIUM

Excellent quality, performances and productivity on porcelain gres, glazed materials and monoporosa thanks to the most innovative production technologies and the use of advanced raw materials.

UNIVERSAL

For the side calibration of porcelain gres and glazed materials guarantees an excellent ratio quality-price and a wide product range to equip all types of squaring machines.

ECO

Copper free tool, to facilitate the disposal and the reuse of sludge resulting from the grinding process with excellent quality and the highest performance

DRY

Tool specifically designed for dry grinding of porcelain gres, glazed and monoporosa materials. Even in these extreme working conditions the tools achieve the best performances on the market.

Resin bond cup wheels for squaring and chamfering

TYROLIT developed resin bond diamond cup wheels in order to guarantee excellent finishing of the rectified edge. In all machine setups, the different geometries of the diamond and the comprehensive range of grits ensure the required stock removal and edge finishing for the whole tool life. TYROLIT ensures the best results on all materials both on **wet** squaring and **dry** use.



Resin bond cup wheels with continuous or slotted rim

Resin bond diamond cup wheels for squaring ceramic tiles. 250 mm and 300 mm diameters for use in all types of machines. This cup wheel is able to work all porcelain stoneware tiles and is available in different geometries, continuous or slotted band, and in various widths.

- + Machine belt speed up to 50 m/min
- + Stock removal up to 20 mm per side
- + Long lifetime
- + Constant performance
- + Specifications for wet and dry use



Resin bonded chamfering wheels

Diamond cup wheels for chamfering ceramic, granite and marble tiles. 130 mm and 150 mm diameters with different rim sizes to achieve the desired chamfering results for all tile sizes.

- + High speed, low noise
- + Smooth, chip-free surfaces
- + Various bonds and grits available
- + Specifications for all materials
- + Specifications for wet and dry use





Fabrication tools for ceramics slabs



Bridge Saw Blades

Diameters from 350 to 500 mm (14-20 inches) for cutting ceramic slabs. TYROLIT blades guarantee extremely high cutting accuracy both for straight and 45° inclined cutting for all thicknesses from 6 to 30mm.

Finger bits

TYROLIT has a wealth of expertise on all types of ceramic materials and thickness to provide an unmatched quality of cutting. Drilling tools Tyrolit provides the best solution for ceramic drilling granting perfect edges already on first holes for all thicknesses.

Drilling tools

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Calibrating, stubbing and drainboard tools

A wide range of tools for grooving including different calibrating wheels, flush fitting routers and stubbing router bits for processing the countertops. CNC Profiling tools Focused on quality of edge finish and flexibility for all applications in any ceramic slabs, TYROLIT offers a remarkable range of profiles and diameters made with specifically developed bonds.

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