



INDUSTRIAL APPLICATIONS

Brick industry, Pre-stressed concrete, Refractory

TYROLIT – your partner in construction

Innovative products and complete system solutions

TYROLIT's Construction division is a pioneer and a leading manufacturer of innovative diamond tools, and of machines and system solutions for the construction industry. In addition to our extensive standard range, together with our customers we develop solutions that are tailor-made to your individual requirements.

As a complete supplier, we are able to develop perfectly harmonised products, so guaranteeing you maximum compatibility and performance. Continuous, market-leading innovations, combined with our many years of experience, make a significant contribution to the business success of our customers around the globe.

TYROLIT's Construction, Trade, Natural Stone, Glass, Metal Fabrication and Precision Machining Divisions manufacture 80,000 different products. They are supplied to customers all over the world by 36 sales companies and additional distributors in 65 countries. Embedded within the dynamic, internationally active and entrepreneurial Swarovski Group, TYROLIT has the independence and support to realize its long-term corporate objectives.



Headquarter of TYROLIT - Schwaz (AT)



TYROLIT Hydrostress - Pfäffikon (CH)

Optimum support

Our partners benefit from our ongoing customer service and on-site support. In addition, thanks to our long years of experience as a system supplier, TYROLIT is your competent partner for individual special projects, such as the decommissioning of nuclear power stations or drilling rigs, for example.

The expertise we acquire through these projects is then incorporated in further developments to our product range, ensuring highly practical solutions that work even in the harshest conditions.

Industrial applications

Tyrolit offers an extensive assortment of diamond tools to the pre-stressed concrete, brick and refractory industries for drilling, sawing and grinding of different kind of material. Thanks to longstanding cooperation with renowned end-users and machine manufacturers, we have developed a wealth of practical experience to call on when solving difficult applications.



A focus on customers and ongoing project support are the cornerstones of our philosophy.

Brick industry

The TYROLIT brick-grinding wheels unite precise grinding with highest productivity for the grinding in the brick and refractory industries. Now also available with TGD® Technology. With this breaking innovation TYROLIT sets new benchmarks in brick-grinding.

Precisely balanced, the body of the TYROLIT brick-grinding wheel can be used for dry grinding at high speeds of up to 100 m/s. In addition to providing extremely short grinding times, TGD® Technology makes it possible to increase customer productivity by up to 30%. Chip-free edges guarantee a clean grinding pattern and significantly reduce waste. Optimized dust extraction ensures smooth grinding.

The TYROLIT brick-grinding wheel featuring TGD® Technology is available in diameters ranging from 500 to 1000 mm for use with all common machines on the market. Like every product offered by TYROLIT,

brick-grinding wheels are constantly being adapted to fit the specific needs of manufacturers and are available via TYROLIT distribution companies and partners.

The grinding process often represents the bottleneck in production of hollow bricks – however not with surface grinding wheels of TYROLIT. We consider quality to be of paramount importance to provide you operational reliability and to ensure the safety of your operators.

Convincing benefits

- + Increases productivity by up to +30%
- + Less vibrations, smooth grinding
- + Optimized cooling
- + Reduced machine stress & energy consumption
- + Clean cuts and chip-free edges
- + Universal application
- + Precisely balanced wheel for cutting at high speeds up to 100 m



Convincing technologies

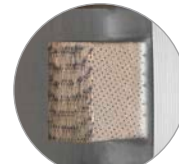
As an innovative manufacturer TYROLIT is constantly developing new technologies for economic and efficient working, contributing to the business success of numerous customers around the world.



TGD®
TYROLIT GRAIN
DISTRIBUTION

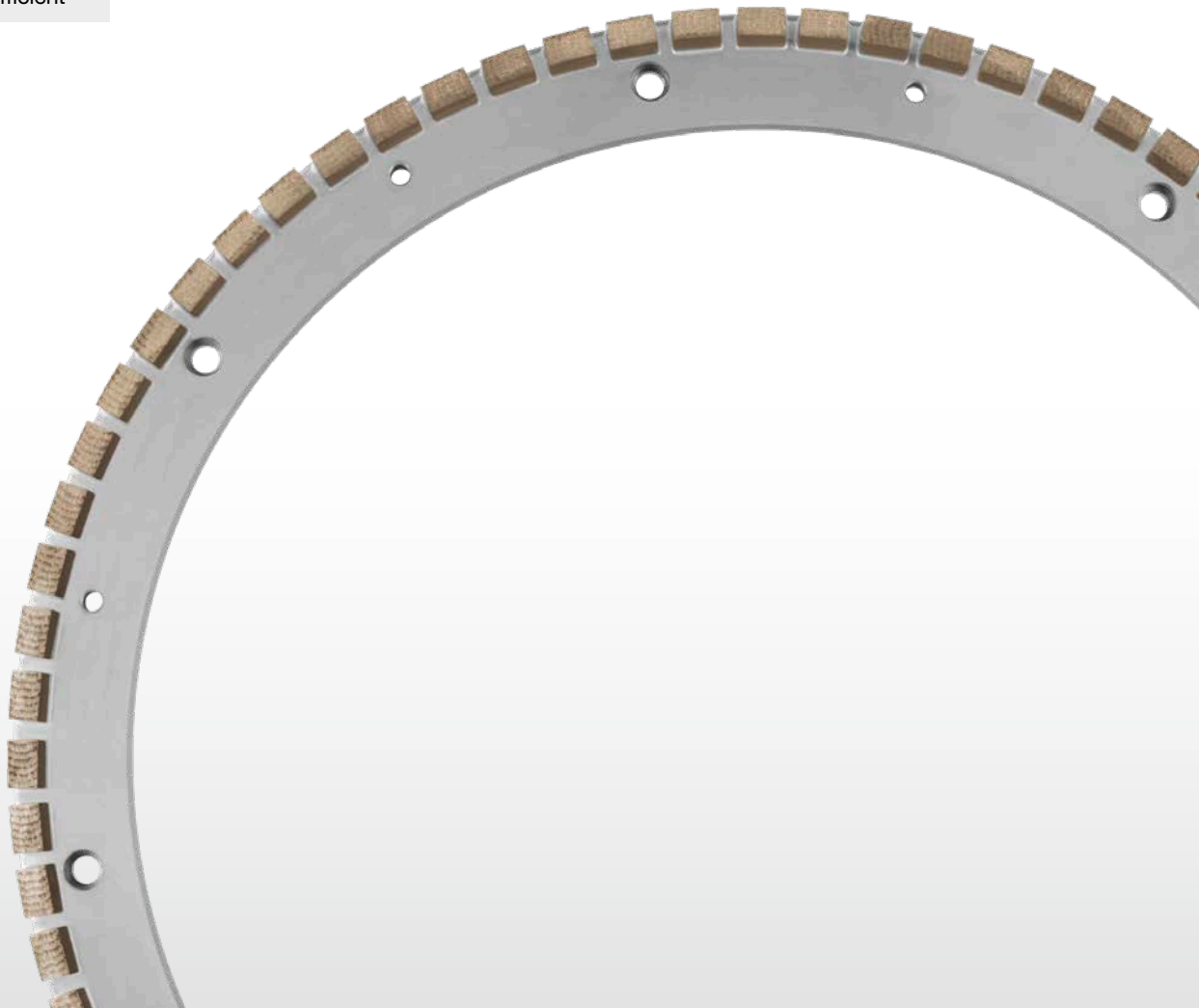
TGD® - TYROLIT GRAIN DISTRIBUTION

Thanks to the intelligent placement of the diamonds, TGD® Technology ensures an evenly distributed load, optimised cooling and a constantly high cutting performance. This significantly extends the tool lifetime and the load on the machines is reduced.



TGD® Segment

- + Durable
- + Fast
- + Efficient



Pre-stressed concrete

The most economical method to cut pre-stressed concrete elements to the desired length is to use diamond saw blades. TYROLIT specifications support you to optimize cutting of pre-stressed concrete elements, whether hollow core slabs, solid sections, I-beams or railway sleepers.



TYROLIT pre-stressed diamond blades are specially adapted to the requirements and applications of our customers. The following data is needed to define an optimal specification:

- + Machine data
- + Concrete aggregate
- + Curing time
- + Number and diameter of reinforcements
- + Dimensions and geometry of the elements

Convincing benefits

- + Reduced cutting costs due to a combination of high performance and high lifetime
- + Optimized design to prevent jamming of the saw blade and to ensure a straight cut
- + Also available in noise-reduced design
- + for certain applications products featuring TGD® Technology are also available

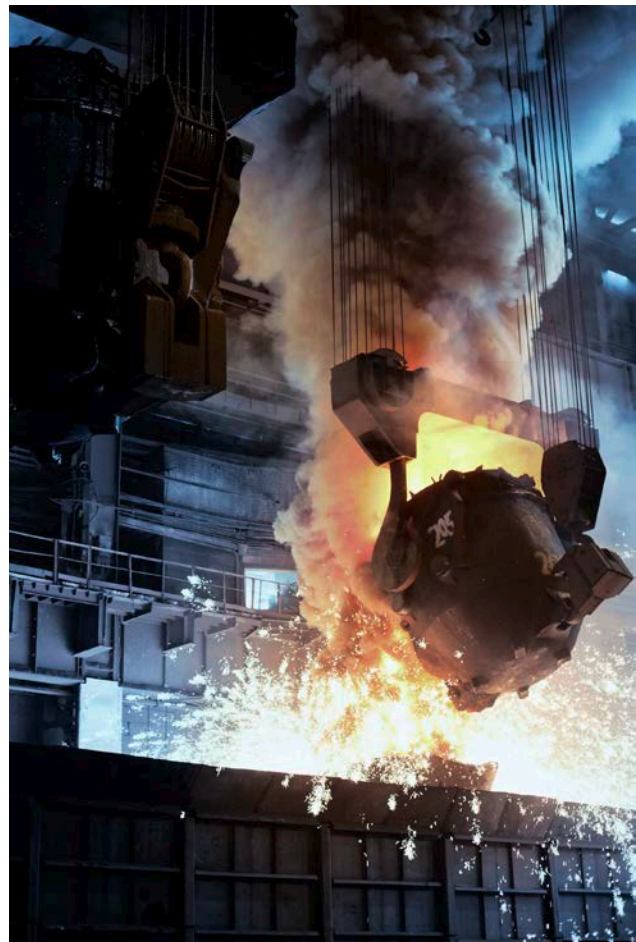


Refractory materials

TYROLIT offers an extensive range of diamond tools for cutting, surface grinding and drilling of refractory materials.

The selection of the optimal tool is primarily determined by the composition of the material to be processed. The characteristics of our diamond tools are specially adapted to achieve the best performance with each type of refractory:

- + Magnesite
- + Chrome Magnesite
- + Chamotte
- + Silicon Carbide
- + Insulating Brick
- + Fused Zirconia



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Our **worldwide subsidiary companies** can be found
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