



## **Industrial applications**

Brick industry, pre-stressed concrete,  
refractories, Casting industry

English

# The Tyrolit Group

Tyrolit is one of the world's leading manufacturers of grinding and dressing tools and is also a system provider for the construction industry.

Since 1919, our innovative tools have been making an important contribution to technological development in numerous industries. Tyrolit offers tailored grinding solutions for a varied range of applications and a comprehensive assortment of standard tools for customers all over the world.

The family-owned company based in Schwaz, Austria, combines the dynamic strengths of the Swarovski Group with over a hundred years of commercial and technological experience.



Tyrolit headquarters in Schwaz (Austria)

## Facts & figures



**80,000+**  
products



**31**  
production locations



**4,400+**  
employees worldwide



**36**  
sales locations



**500+**  
international patents

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, Russia, Spain, South Africa, South Korea, Sweden, Switzerland, Thailand, UAE, UK and the US. Sales partners in 65 other countries.

# Products for industrial applications

Tyrolit offers an extensive assortment of diamond tools for drilling, sawing and grinding different kinds of materials in various industries, such as the pre-stressed concrete, brick, refractory and casting industries. Thanks to longstanding co-operation with renowned end-users and machine manufacturers, we have developed a wealth of practical experience to call on when solving difficult applications.

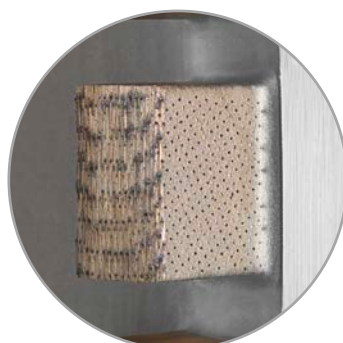
## Diamond tools with TGD® Technology

Many of our diamond tools for industrial applications come with segments with TGD® Technology. Thanks to the intelligent placement of the diamonds, these tools ensure an evenly distributed load, optimized cooling and a constantly high cutting performance. This significantly extends the tool lifetime and the load on the machines is reduced.



### Your advantages:

- + Long lifetime
- + High cutting ability
- + Enhanced efficiency



TGD® segment





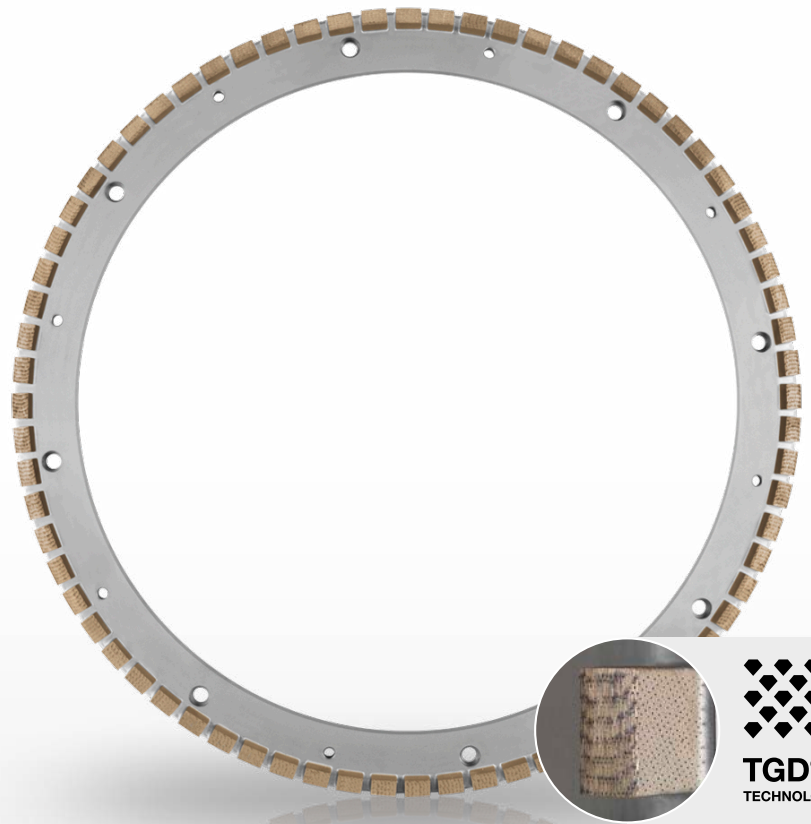
# Brick industry

Tyrolit brick grinding wheels unite highest productivity with precise grinding in the brick and refractory industries. The standard assortment of the wheels ranges from diameters of 500 to 900 mm. However, customized solutions are available upon request.

Equipped with segments in TGD® Technology, Tyrolit brick grinding wheels set new benchmarks in brick-grinding: The intelligent placement of the diamonds ensure accurate grinding at even high speeds as well as improved grinding results in general.

## Convincing advantages

- + Reduced vibration, clean cuts and chip-free edges thanks to segments with TGD® Technology
- + Optimized cooling and reduced machine stress & energy consumption
- + Diverse specifications for a wide range of machines and ring types
- + Segment size 24 × 15 × 20 mm, pre-grinded
- + Optimum results right from the start, allowing for higher grinding speeds
- + LONG LIFE versions for refractory bricks and heavy products



**Contact us for**  
customized solutions!

# Pre-stressed concrete

The most economical method to cut pre-stressed concrete elements is to use diamond saw blades. Tyrolit specifications ensure optimum cutting of pre-stressed concrete elements: be it hollow core slabs, solid sections, I-beams or railway sleepers.

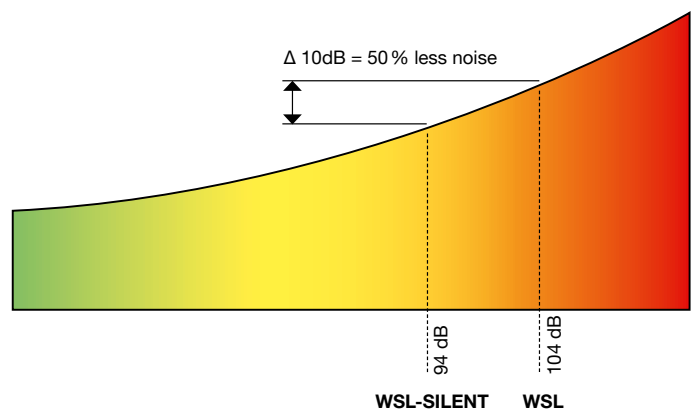


Tyrolit pre-stressed diamond blades are specially adapted to the requirements and applications of our customers. In order to select the perfect blades for your business, we need the following information:

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

## Convincing advantages

- + 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
- + For certain applications we offer tools with TGD® Technology
- + Diameters range from 600 to 1 300 mm, come with different segment widths and for a variety of aggregates
- + Also available as a noise-reduced version: SILENT diamond blades reduce the noise by approx. 10 dB

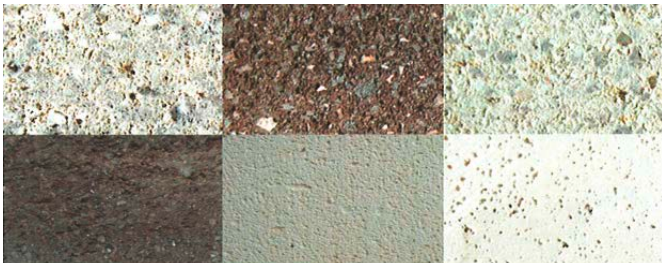
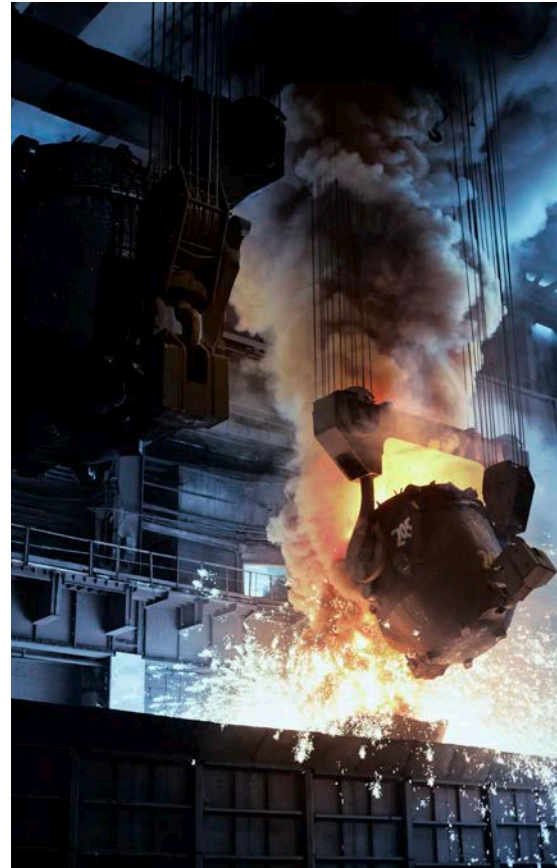


# Refractory materials

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





# Casting industry

Another area of application for Tyrolit diamond tools is the casting industry. Customers can choose from a large number of products for machining all kinds of cast materials, ranging from diameters from 115 mm up to 1 200 mm. Contact us for suitable products for your specific application.



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Our **worldwide subsidiary companies** can be found  
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