

## **EQUIPMENT FOR RESCUE UNITS**

Machines, tools and project support of the highest order

# The Tyrolit Group

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

Since 1919, our innovative tools have made an important contribution to the technological development in many industries. Tyrolit offers tailored grinding solutions for various applications, as well as a comprehensive assortment of standard tools for customers all over the world.

Headquartered in Schwaz (Austria), the family-owned business combines the strengths of being a part of the dynamic Swarovski Group with a century's worth of individual corporate and technological experience.



Tyrolit headquarters in Schwaz (Austria)

## Facts & Figures



**80,000+**  
products



**29**  
production sites



**4,500+**  
employees worldwide



**37**  
sales locations



**500+**  
worldwide patents

**Sales companies** in Argentina, Australia, Austria, Belgium, Brazil, Canada, China, Czechia, Denmark, Estonia, Finland, France, Germany, Hungary, India, Indonesia, Italy, the Netherlands, Norway, Poland, Portugal, Russia, South Africa, South Korea, Spain, Sweden, Switzerland, Thailand, the UAE, the UK and the USA. **Distributors** in 65 other countries.

## The Construction business unit

Through our pioneering role in the development and production of machines and diamond tools for the construction industry, partners benefit from our many years of experience and expertise as a systems provider. The Tyrolit Construction business unit is therefore a leading system supplier of drilling systems, wall and wire saws, floor saws and tools for grinding uneven surfaces.

As well as a large selection of standard and customisable products and services, Tyrolit also offers product ranges specifically for rescue, recovery and disaster operations.

## We know what matters. Together we are strong

Working in close collaboration with an experienced partner network, Tyrolit offers a comprehensive range for disaster relief organisations.

In addition to our portfolio, we offer support in all these areas: lifting and pulling equipment, thermal lances, lights, power supply equipment, occupational health and safety, transport, and a great deal more.



## Convincing, technologies



Tyrolit diamond tools with TGD® technology feature intelligently distributed diamonds that enable even load distribution, optimised 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



Conventional segment



P2® – PERMANENT POWER – is a high-frequency technology registered by Tyrolit, which combines the compact design of electrical systems with the reliability and performance of hydraulic systems in a single machine to optimum effect. This innovative drive concept is based on the principle of drive motors with permanent magnets and enables operation at a high torque, with simultaneously reduced motor speeds. The maintenance-friendly layout of the compact devices makes servicing easier and reduces costs.

### Your advantages:

- + High reliability
- + Powerful performance
- + Compact design



Thanks to the Tyrolit Modular System, individual components can be used for the same area of application and for different applications. This not only makes the work easier and more efficient, it also saves on costs. One part of the Tyrolit Modular System is the ModulDrill™ quick clamping system, for example, which enables our drill motors to be rapidly attached to different Tyrolit drill rigs.

### Your advantages:

- + High cost efficiency
- + Efficient working
- + Easy operation



With the MoveSmart Technology, Tyrolit machines are connected to the Internet for the very first time. The technology processes real-time user data directly at the construction site and makes it available on various end-user devices. The cloud-based MoveSmart Technology was developed in collaboration with the Austrian start-up ToolSense and provides users and business owners with important machine and usage data, helping them to get the most out of their equipment. Service hours, error reports and pending software updates, for instance, can be recalled anywhere and at any time. This enables better planning, as well as faster and more cost-efficient operation based on real data.

### Your advantages:

- + Increased productivity
- + Reduced service times
- + Targeted product development

## Reliable products For challenging situations

An extensive product portfolio, many years of experience and specialised expertise with a clear focus on target groups make Tyrolit stand out from the crowd. We therefore also offer a suitable range for fire services, civil defence associations, disaster relief organisations and other rescue units.

Products from Tyrolit are the first choice for both drilling rescue boreholes and rescuing people buried under rubble. The use of diamond tools for cutting enables targeted, vibration-free working. Several layers of reinforced and non-reinforced concrete, cast materials, fibre glass or bullet-proof glass are no obstacle.



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### Cutting

As well as countless standard materials like concrete, hard stone and asphalt, diamond saw blades and wires can also tackle plastics, cast materials, fibre glass and bullet-proof glass. The hand-held saws, ring saws and wire saws required for this are available as hydraulic, electric or fuel operated versions.



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### Drilling

As an expert in both wet and dry drilling, Tyrolit boasts a proven assortment of electric and hydraulic core drilling machines for off-hand and standard applications, with perfectly coordinated core drill bits for diameters up to 1 000 mm. Ideally suited for reinforced or non-reinforced concrete as well as asphalt, masonry and steel.



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### Pressing

With a force of 110 or 260 tonnes, our pressing tools are perfectly suited to the controlled demolition of reinforced concrete and masonry on a large scale. Without water, noise, dust or vibrations. Uniform pressure distribution also goes without saying.

## Hand and ring saws

Hand-held and ring saws are especially suitable for making apertures and openings at shallow depths.



### HBE400 hand saw



Suitable for wet and dry applications both indoors and out

- + 405 mm saw blade with cutting depth up to 150 mm
- + 3.2 kW electric motor with fully integrated electronics
- + Integrated dust extraction connection for clean working
- + Compact design, low weight and detachable guide rollers



### RESCUE diamond saw blade

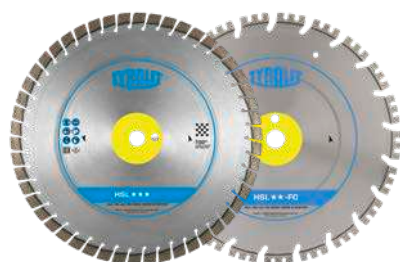


The all-rounder for all materials and **ideal for rescue operations**

- + Available in Ø 300 to 400 mm
- + Robust saw blade for universal use: construction materials, stone, cast iron, composite materials, plastics, fibre and bullet-proof glass, wood, metal sheets and metal profiles.
- + Long lifetime and constant cutting performance



### HS hand saw blades



Ideal for apertures and openings in concrete with a shallow depth of cut

- + Available in Ø 300 to 500 mm
- + For reinforced and non-reinforced concrete
- + Perfect in combination with the Tyrolit HBE400 hand-held saw



### HRE410 ring saw



Ergonomic hand-held saw for wall and floor cuts

- + Depth of cut up to 300 mm
- + 6.5 kW P2® motor for maximum cutting performance
- + Intelligent ergonomics for fatigue-free cutting
- + For modular use with the WSE1621 wall sawing system



### PPE6 control

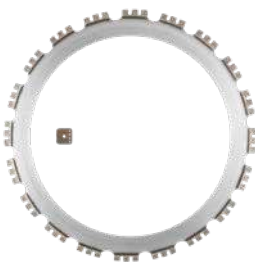


Electric control for HRE410 ring saw

- + Compact and lightweight alternative to the electric control unit of the WSE1621 wall saw
- + Specially designed for use with the HRE410 ring saw
- + No remote control or feed control



### RSL/RSL-FC Ring saw blades



Ring saw blade with good cutting ability for reinforced and non-reinforced concrete

- + Universal models with excellent cutting ability
- + Available in an especially efficient fast-cut version
- + Perfect in combination with Tyrolit HRE410 ring saws

## Wire saws

Your first choice for demolishing large pieces of reinforced concrete with almost unlimited capabilities in terms of wall thickness and steel content.



PREMIUM

### WCE18 wire saw



Wire saw with 15 m wire storage and powerful 18 kW high-frequency drive for challenging jobs

- + High start-up torque and power transfer with minimal slippage
- + Low-tension wire storage for a reduced load on main components
- + Clear, user-friendly control panel



PREMIUM

### Saw wire



High level of safety and outstanding cutting performance for complex projects, thanks to an optimised bead structure and a high bead count

- + Electroplated wires for concrete and/or steel
- + For a diameter of 10.2 mm
- + Long lifetime and noticeably smoother running



## The only ATEX-certified wire saw system worldwide

Tyrolit is the world's first supplier to present an ATEX-certified wire saw system for use in Zone 1 (EX Zone 1, II 2G, Ex h IIA T3 Gb) explosion-hazardous areas. The system, which comprises the hydraulic wire saw SB and electroplated diamond wire DWH-S ATEX for steel, was tested and certified in accordance with current ATEX Directives 2014/34/EU by Gexcon in Norway.

This revolutionary cutting technology of the highest standard enables working on complex projects in explosion-hazardous environments as supplied by no other competitor worldwide.



- + Certified for explosion hazardous areas (EX Zone 1, II 2G, Ex h IIA T3 Gb)
- + Modular, combinable system comprising DWH-S ATEX diamond wire, SB Offshore hydraulic wire saw and drive.\*
- + For all metals except titanium, magnesium and zirconium
- + Wire speed = 10 – max. 18 m/s
- + Only for wet cutting
- + With machine, only in conjunction with flow monitor

*\* Certified drive, either provided by customer or alternatively PPH40RR in a certified protective cabin (upon request).*

### A modular system for your specific application

Depending on the requirements or existing machines, different product offerings are available.

#### Tool

#### Machine

#### Drive

<b>Diamond wire DWH-S ATEX</b>	<b>SB hydraulic wire saw PBHS-OFFSB-01 (only in conjunction with flow monitor)</b>	Certified drive provided by the customer  <b>OR</b>  PPH40RR in conjunction with a certified protective cabin (optional)
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## Pressing

Ideal for demolishing large concrete pieces and masonry, with hydraulic high-pressure presses for quiet and clean blasting.



### CP-110/BTH350-350 pressing tool



Tyrolit pressing tools with drive enable clean demolition without water, noise, dust or vibrations

- + Pressing force of 110 or 260 tonnes
- + Safety is ensured by a special hose and connection system
- + Pressure plates for uniform pressure distribution and expanded stroke

### AU drive



High-pressure drive specially adapted for CP-110/BTH350 pressing tool

- + Pressing force of up to 2 100 tonnes
- + User friendly thanks to clear monitoring and control panel
- + Two separately adjustable outputs for controlled pressing

## Drives

Easy-to-use drive ideally suited for hand-held sawing, wire sawing and drilling.



### PPH40 RR drive



4-stage control for every application and an optimum cutting speed

- + Powerful 40 kW drive with direction of rotation switch, secondary connections and operating hours counter
- + Remote control for freedom of movement
- + Plastic cover removable without tools

# Drilling

Ideally coordinated core drilling systems for openings, apertures, soundings, line drilling, fastening technology and a great deal more.



## Drill motors



An extensive and user-friendly assortment of drill motors for core drilling in concrete, masonry and diverse construction materials

- + Drill motors for core bores up to Ø 1 000 mm
- + Electric and hydraulic machines
- + Available in various drill rig attachments (ModulDrill™ or Universal)



## Drill rigs



Stable, modular drill rigs for fast and efficient working

- + Perfectly adapted for Tyrolit drill motors
- + ModulDrill™ quick clamping system for simple drill motor attachment
- + Precise guide options for optimum end results



## Drill bits



Reliable wet drill bits with good cutting ability for clean results.

- + Wet drill bits from Ø 10 to Ø 1 500 mm
- + Available as a TGD® technology version
- + Special dimensions also possible on request

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Our **worldwide subsidiary companies** can be found  
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