

Total Tunneling

A complete offering for underground tunneling with safety, productivity, cost and quality in mind



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Introduction

With Total Tunneling by Epiroc, you can achieve the high-quality tunnel you always envisioned – at lower costs.

Our comprehensive offering combines cutting-edge automation, electrification, digital solutions, and high-performance underground equipment, ensuring precision and efficiency throughout the entire tunnel cycle.

With Total Tunneling, you optimize safety, productivity, and sustainability. Planning, synergizing, monitoring, and evaluating your operation has never been easier – helping you build the perfect tunnel with confidence.



FIND OUT MORE



Automated drilling and seamless operations benefit the entire tunnel process result





Underground Manager 2.0

The backbone of your tunneling operation

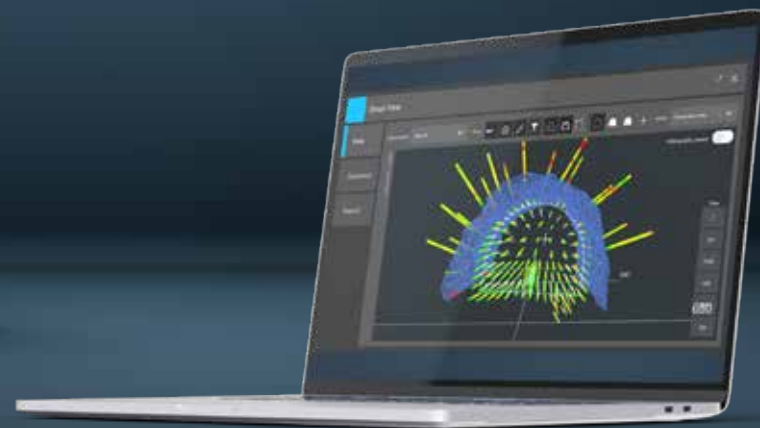
Optimize every phase of your tunneling operation with advanced planning and reporting software. Underground Manager 2.0 enables seamless integration of digital drill plans job data, and performance assessments - ensuring precision and efficiency at every step. With intelligent connectivity, MWD (Measure While Drilling) data from the face drill rig can be leveraged to optimize the performance of the grouting rig, creating a fully synchronized tunnel cycle. Plan, monitor, and evaluate with confidence, driving High Performance. Development from start to finish.

+ Main benefits

Increased productivity thanks to automation and data insights, which minimize downtime, streamline workflows, and enhance efficiency throughout the entire tunneling process

Optimized tunnel results thanks to reporting and evaluation, enabling comprehensive data analysis that allows for precise adjustments, ensuring higher tunnel quality

Maximized efficiency and accuracy made possible by effective utilization of digital plans, MWD (Measure While Drilling) and MWG (Measure While Grouting) data, which optimizes machine performance and quality



Face drilling

Drilling power with precision and automation

Boomer E-series face drill rigs feature a new RHS (Rod Handling System), upgraded feed design, and an enhanced drill steel support system. Equipped with automation features, the new generation of rock drills for construction (CT-series) they ensure superior accuracy and efficiency. Optional battery-electric driveline for sustainable operations.

+ Main benefits

Operator safety enhanced by automation and teleremote control, keeping operators away from hazardous areas

Unmatched precision, productivity, and repeatability with digital drill plans, optimizing performance and minimizing overbreak

Seamless connectivity enabled by Underground Manager 2.0 with data sharing between machines that facilitates decision-making and enhances tunnel cycle efficiency



Sustainable drilling

Epiroc's face drill rigs are available with optional battery-electric driveline





Grouting

Smart solutions for optimal tunnel sealing

Unigrout rigs deliver precise and efficient tunnel sealing with seamless machine connectivity. The RCS 5 control system together with Underground Manager 2.0 enables utilization of MWD (Measure While Drilling) data from the face drill rig, optimizing grout mixing and injection. High-performance mixers work with all dry cement types, making Unigrout the ultimate grouting solution for any tunnel project.

+ Main benefits

Increased efficiency with machine connectivity and MWD data utilization

Excellent accuracy thanks to market-leading mixing technology and precise grout application

Seamless connectivity with Underground Manager 2.0, enabling data sharing between machines for better decision-making and optimized tunnel cycle efficiency



Ventilation

Smart ventilation for safe and efficient tunneling

A full range of fans and ducting for ventilation in underground tunneling. Customized and optimized ventilation solutions based on type of machinery (diesel vs battery), operating sequence (allowed time before return after blast), infrastructure and airflow.

+ Main benefits

Lowered ventilation cost through early project involvement

Improved working environment with variable air flow depending on ventilation needs

Increased efficiency with automation and demand-based airflow control, minimizing waste and maximizing performance





Material handling

Productive material handling for efficient tunneling

Häggloader is the continuous loader with flexibility and productivity in focus. Häggloader will speed up the loading process and maximize efficiency while lowering cost in your tunneling project. Available in multiple sizes with a variety of options, it's the perfect continuous loader for your tunneling project.

+ Main benefits

Lower operating costs thanks to hybrid diesel-electric power which reduces fuel-consumption and lowers ventilation needs

Flexibility and rapid loading with adjustable conveyor and multiple size options

Maximized productivity with a non-stop loading process and high-capacity performance in confined spaces



Sustainable Load & Haul
Häggloader is a perfect match for the Minetruck MT42 SG with battery-electric driveline



Utility vehicles

Developed to support you through the entire tunneling cycle

The Terrah Series of utility vehicles maximize modularity, productivity and safety in your operations. Developed to meet the demands of scaling, construction, personnel and material transport, the product family offers utility vehicles built for a specific purpose and flexible carriers configurable with cassette solutions for improved carrier utilization and flexibility.

+ Main benefits

Operator safety and well-being thanks to multiple built-in safety systems

Productivity enhanced by powerful drivetrains and high carrying capacities

Durability and seamless performance ensured by strong and reliable main components





Rock reinforcement

Invest in safety

Boltec – fully mechanized rock bolting rigs designed for efficiency, safety, and operator comfort. Smart automation features enhance productivity, while an ergonomic design prioritizes ease of use. Available with an optional battery-electric driveline for sustainable operations.

+ Main benefits

Flexibility thanks to compatibility with a range of different rock bolts

Operator safety and ergonomics with a lift and tilt cabin with <65 dB noise level and teleremote control capabilities

Excellent bolt installation quality thanks to integrated software control, navigation and logging systems



Total Tunneling

Related products and services

As a leading productivity and sustainability partner, Epiroc offers complete value-creating solutions for the civil construction industry.

+ Hydraulic attachment tools

Epiroc's hydraulic breakers and drum cutters are used in a variety of underground operations. The first hydraulic breaker was invented, and built, in 1963, and we continue to invest in development and innovation to ensure we retain Epiroc's market leading position.

+ Consumables

Epiroc gives you access to the strongest service and support network in the industry. To test our products, thousands upon thousands of metres have been test-drilled. And they all tell the same tale – Epiroc's rock drilling tools are more reliable, more long-lasting and more productive than any other brand.

+ Aftermarket and service

With a global network of service engineers, we are committed to support you anytime, anywhere. We focus on parts availability through strategically located distribution centres worldwide.

+ Financing solutions

We finance your investment in sustainable productivity. Choose from a wide range of financing solutions for all types of Epiroc equipment. We offer payments customized to suit your plans and projections.





United in performance. Inspired by innovation.

Performance unites us, innovation inspires us, and commitment drives us to keep moving forward.

Count on Epiroc to deliver the solutions you need to succeed today and the technology to lead tomorrow.

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