Total Tunneling

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

Epiroc



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Automated drilling and seamless operations benefit the entire tunnel process result



Introduction

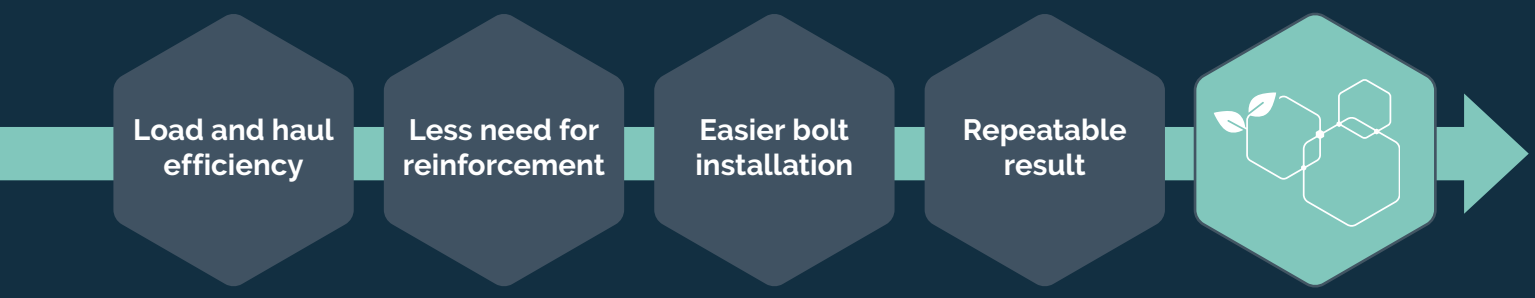
With Total Tunneling by Epiroc, you can achieve the high-quality tunnel you always envisioned – at lower costs.

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





Underground Manager

The backbone of your tunneling operation

Optimize every phase of your tunneling operation with advanced planning and reporting software. Underground Manager 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.

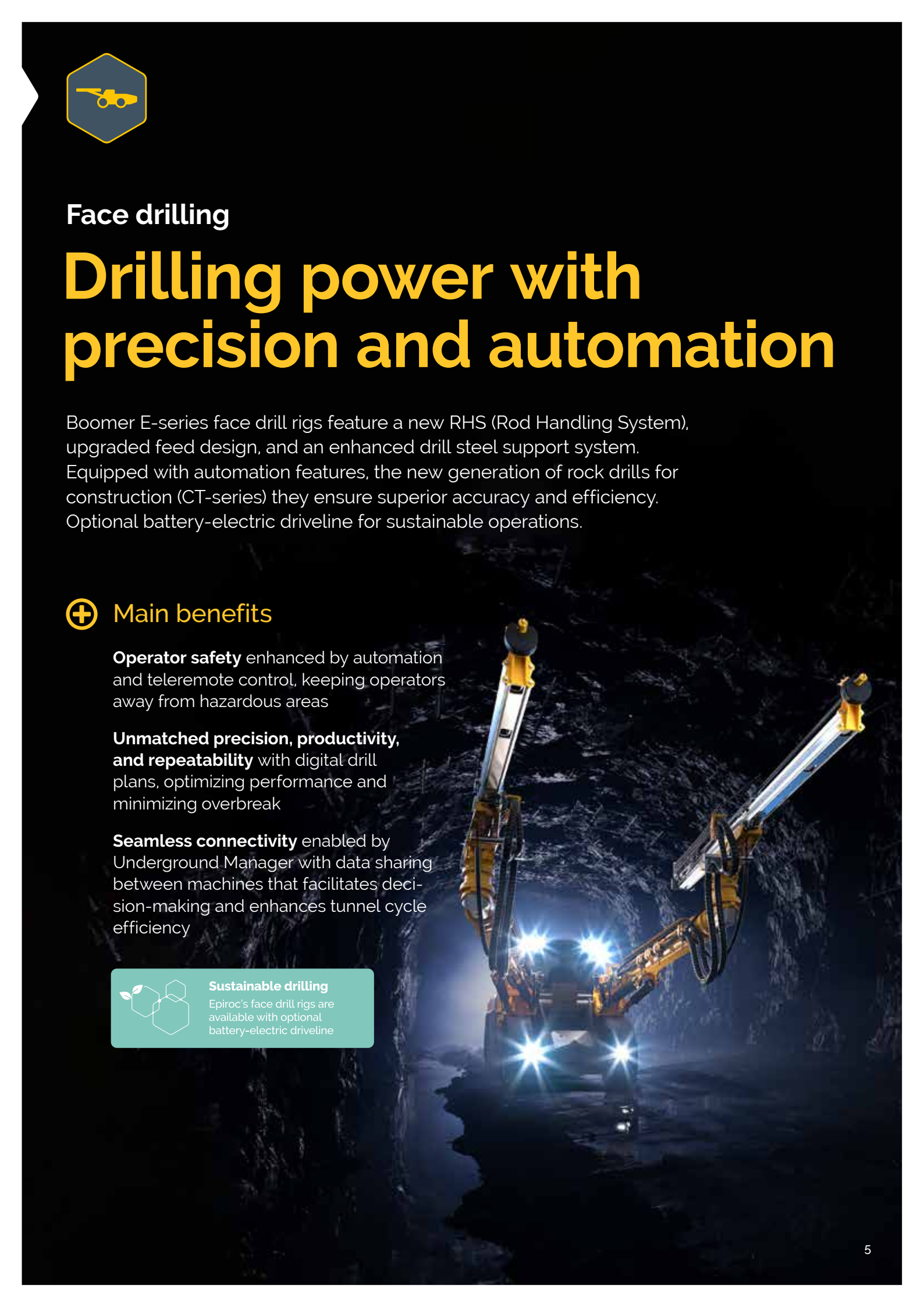
Main benefits

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 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 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, 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

Efficient material handling for tunneling

Built to withstand the toughest tunneling environments, our loaders and trucks deliver efficiency, durability, and electrification to keep your project moving forward. These, compact, yet robust machines are designed for confined spaces and harsh conditions, handling unsecured and blasted rock with ease. They are available with both conventional and battery-electric drivelines offering additional benefits, including significantly lower ventilation costs and reduced emissions.

Main benefits

Reduced ventilation needs thanks to electric machines

Robust machines providing safe working conditions

Compact loaders and trucks designed for confined spaces

Sustainable Load & Haul

Scooptram ST14 SG 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

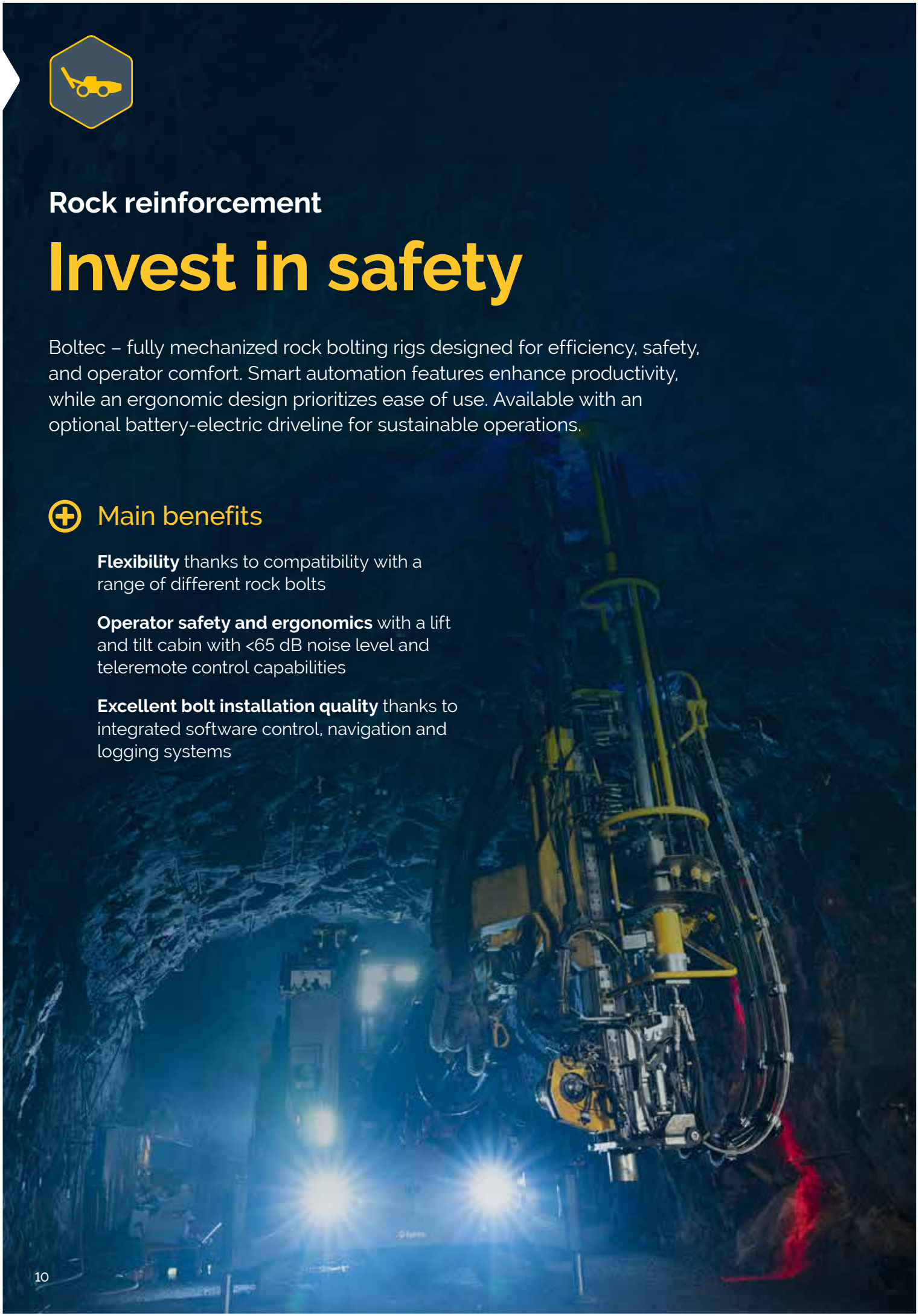
Boltec – fully mechanized rock bolting rigs designed for efficiency, safety, and operator comfort. Smart automation features enhance productivity, while an ergonomic design prioritizes ease of use. Available with an optional battery-electric driveline for sustainable operations.

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



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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

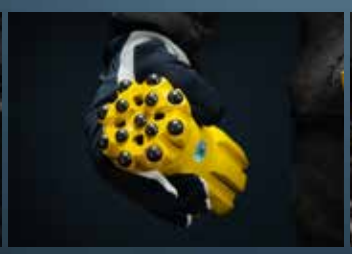
Epiroc gives you access to the strongest service and support network in the industry. To test our products, thousands upon thousands of metres have been test-drilled. And they all tell the same tale – Epiroc's rock drilling tools are more reliable, more long-lasting and more productive than any other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



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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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