



Epiroc R drill strings

Precision, durability and sustainable performance



Drill strings for multiple applications

At Epiroc, we are committed to providing our customers with the highest quality rock drilling tools and equipment.

One of the key components that ensure the reliability and efficiency of our drilling operations is the industry standard R thread. The "R" stands for "rope," reflecting its robust design and exceptional performance, which are widely recognized and used in various drilling applications.

⊕ Main benefits

Enhanced durability and strength - The R thread is engineered to withstand the high stresses and loads encountered during rock drilling operations. Its robust design ensures a secure and reliable connection between drill string components, reducing the risk of breakage and downtime. This durability translates to longer tool life and lower maintenance costs for our customers.

Improved operational efficiency - The precise threading of the R thread allows for quick and easy assembly and disassembly of drill strings. This efficiency is crucial in minimizing downtime and maximizing productivity on the job site. With the R thread, our customers can achieve faster drilling rates and complete projects more efficiently.

Versatility and compatibility - The R thread is an industry standard, making it compatible with a wide range of drilling equipment and accessories. This versatility ensures that our customers can easily integrate Epiroc's R thread drill strings into their existing setups, providing a seamless and cost-effective solution for their drilling needs.



Smart, safe and sustainable drilling.

The R-thread design enhances drilling sustainability by improving energy transfer, extending drill rod lifespan, and reducing material waste. Its easy coupling mechanism increases operator safety and efficiency while minimizing downtime. Additionally, the design reduces shock waves, enhancing durability and fuel efficiency for a more productive and eco-friendly drilling process.



+ Sustainability

The R-thread design plays a key role in enhancing the sustainability of drilling operations. The thread promotes efficient energy transfer and longer service life for drill rods. This reduces the frequency of replacements, lowering the consumption of raw materials. Furthermore, the rapid coupling and uncoupling feature not only boosts operational efficiency but also minimizes downtime and waste, contributing to a more environmentally responsible approach to rock drilling.



+ Operator in focus

The design enhances operator acceptance by simplifying the coupling and uncoupling of drill bits. The easy uncoupling feature not only boosts efficiency but also creates a safer working environment, reducing the risk of injury during tool changes. With less physical strain required and faster operations, operators experience improved comfort and satisfaction, contributing to a more productive and sustainable drilling process.



+ Improved performance

The R-thread design is engineered to reduce tensile shock waves in the drill string, enhancing fatigue strength for improved resistance and reliability. This results in higher productivity with less wear on components, leading to better fuel efficiency and more sustainable drilling practices. By minimizing the need for frequent replacements and reducing environmental impact, R-threads contribute to both operational efficiency and long-term sustainability.



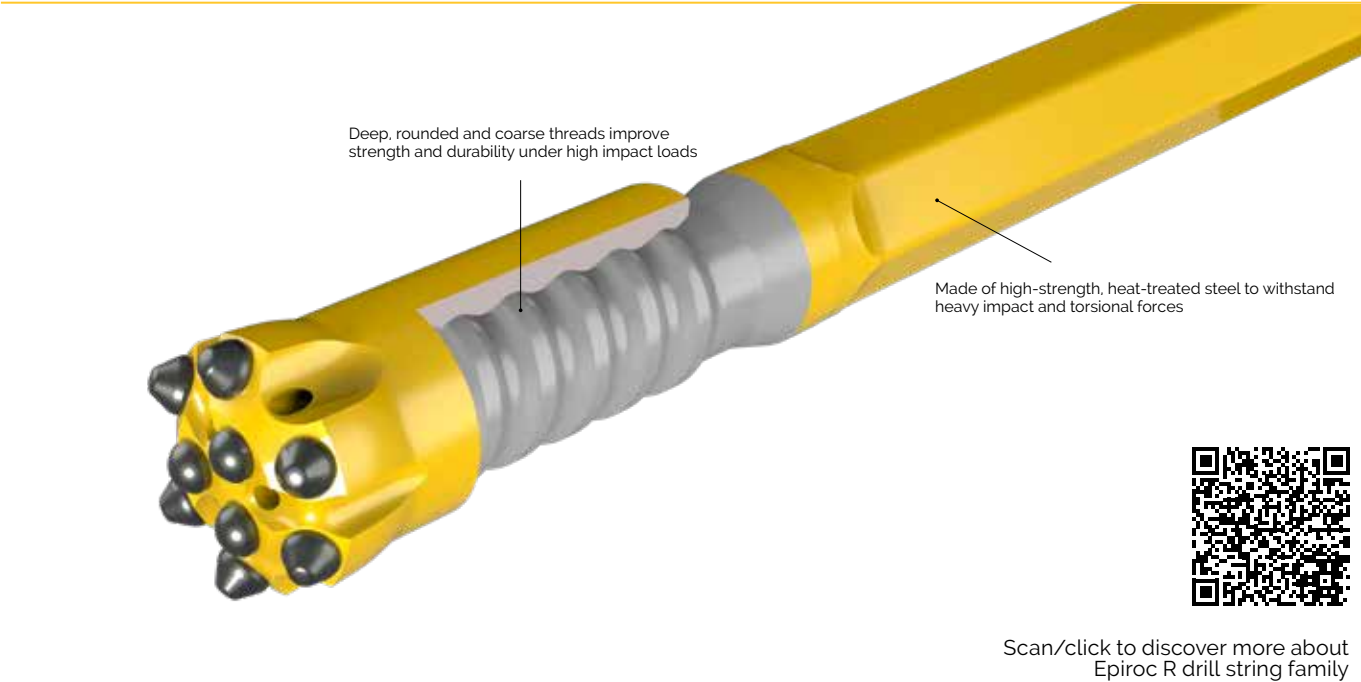
A comprehensive service offering

Even the best equipment needs to be serviced regularly to make sure it sustains peak performance. An Epiroc service solution offers peace of mind, maximizing availability and performance throughout the lifetime of your equipment. We focus on safety, productivity and reliability.

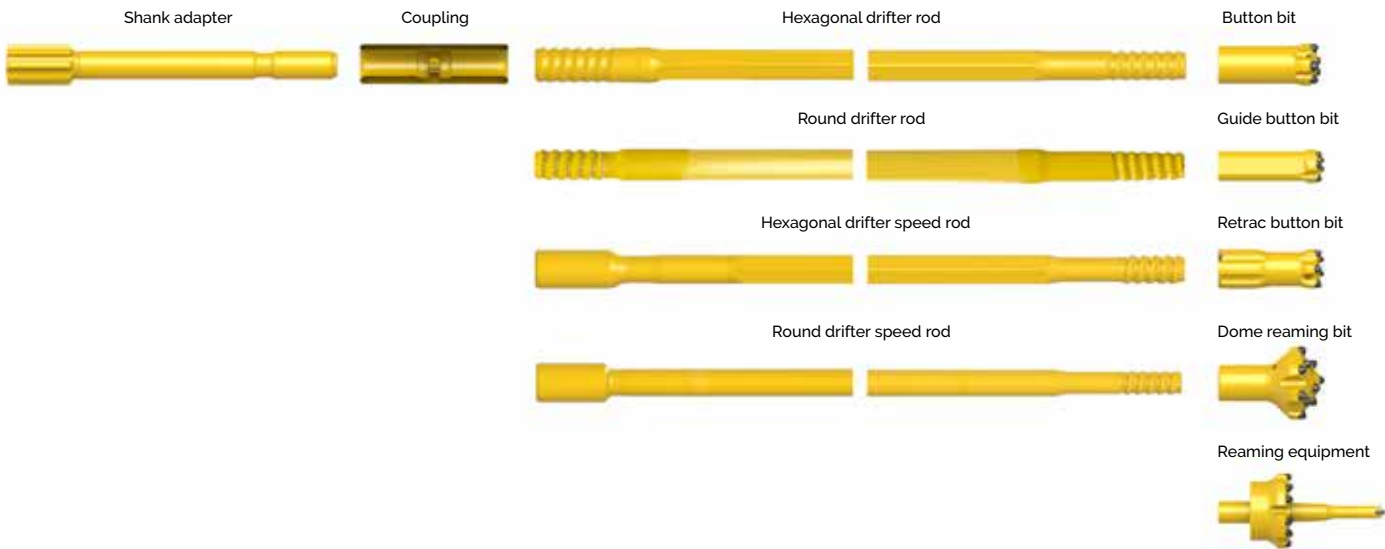
By combining genuine parts and an Epiroc service from our certified technicians, we safeguard your productivity – wherever you are.

Epiroc R drill strings – Technical specifications

Epiroc R thread system – Example below shows R32



Example of Epiroc R drill string



Example of Epiroc R drill bits

For more drill bits and other technical specifications, see the following pages or visit our rock drilling tool selector.



Please note: that all button bits are manufactured over-sized 0,5-2,5 mm (it depends on the size of bit and buttons), meaning that for example a 45,0 mm bit is at least 45,5 mm as new, or the size of a 140,0 mm new bit can be 141,5 mm to 142,5 mm (it depends on the model and type of bit). This is done because of the fast initial wear on button bits. It is important to consider that the drilled hole could vary in size thanks to drilling conditions, drilling practices and ground formation.

Epiroc R drill strings – Technical specifications

Epiroc R25	
Main application area	Small diameter holes
Rock drills*	COP 1028, COP 1135, COP 1140, COP 1435, COP RR14, COP SC14
Hole diameter	33 mm - 51 mm
Rod length	Hexagonal drifter rods from 1000 mm - 4750 mm Hexagonal extension rods from 610 mm - 3050 mm Hexagonal speed rods from 610 mm - 1830 mm

Epiroc R28	
Main application area	Bolting and construction small diameter holes
Rock drills*	COP 1028, COP 1135, COP 1140, COP 1435, COP RR14, COP SC14
Hole diameter	37 mm - 48 mm
Rod length	Hexagonal drifter rods from 2400 mm - 4310 mm Hexagonal extension rod 1830 mm

Epiroc R32	
Main application area	Bolting and construction small diameter holes
Rock drills*	BBC 120, BBC 54, COP 2550 and + version, COP 1028, COP 1032HL, COP 1036, COP 1038, COP 1132, COP 1135, COP 1140, COP 1238 SDA, COP 1238, COP 1240, COP 1432, COP 1435, COP 1440, COP 1532, COP 1550, COP 1638, COP 1640, COP 1838 AW, COP 1838, COP 1840, COP 1850, COP 2150, COP 2238 and +version, COP RD14U/18U Ø38 insert, COP RR11, COP RR14, COP SC14, COP SC16, COP SC19, COP SC25-HF, COP1140, VL 140
Hole diameter	41 mm - 127 mm
Rod length	Hexagonal drifter rods from 2400 mm - 6400 mm Hexagonal drifter speed rods from 3700 mm - 4600 mm Hexagonal extension rod 1000 mm Hexagonal speed rod 4310 mm Round extension rods from 915 mm - 4310 mm Round speed rods from 800 mm - 4310 mm

Epiroc R38	
Main application area	Injection drilling
Rock drills*	COP 1238 SDA, COP 1240, COP 1432, COP 1440, COP 1532, COP 1550, COP 1638, COP 1640, COP 1838, COP 1838AW and +version, COP 1840, COP 1850, COP 2150, COP 2238 and +version, COP 2550 and + version, COP MD20, COP RD14U/18U Ø38 insert, COP SC16, COP SC19, COP SC25-HF, VL 140
Hole diameter	76 mm
Rod length	Round extension rod 2435 mm Round speed rod 1830 mm

*Only Epiroc rock drills are specified. For other brands see our rock drilling tool selector.

Epiroc R drill strings – Technical specifications

Epiroc underground bits	
Main application area	Underground production drilling, tunneling
Bit diameter	33 mm - 127 mm
Button shape	Ballistic, spherical and trubbnos
Rock conditions	Hard, medium hard

Epiroc bolting bits	
Main application area	Bolting
Bit diameter	33 mm - 48 mm
Button shape	Trubbnos and spherical
Rock conditions	Medium hard

Rock drilling tool selector and configurator

To find all products related to Epiroc R drill strings, please visit the rock drilling tool selector.

With its easy navigation, the rock drilling tool selector lets the user find the required product, desired attributes and its product number.

The configurator allow users to match rock drilling tools with Epiroc drill rigs.



Scan/click to visit the rock drilling tool selector and configurator



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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