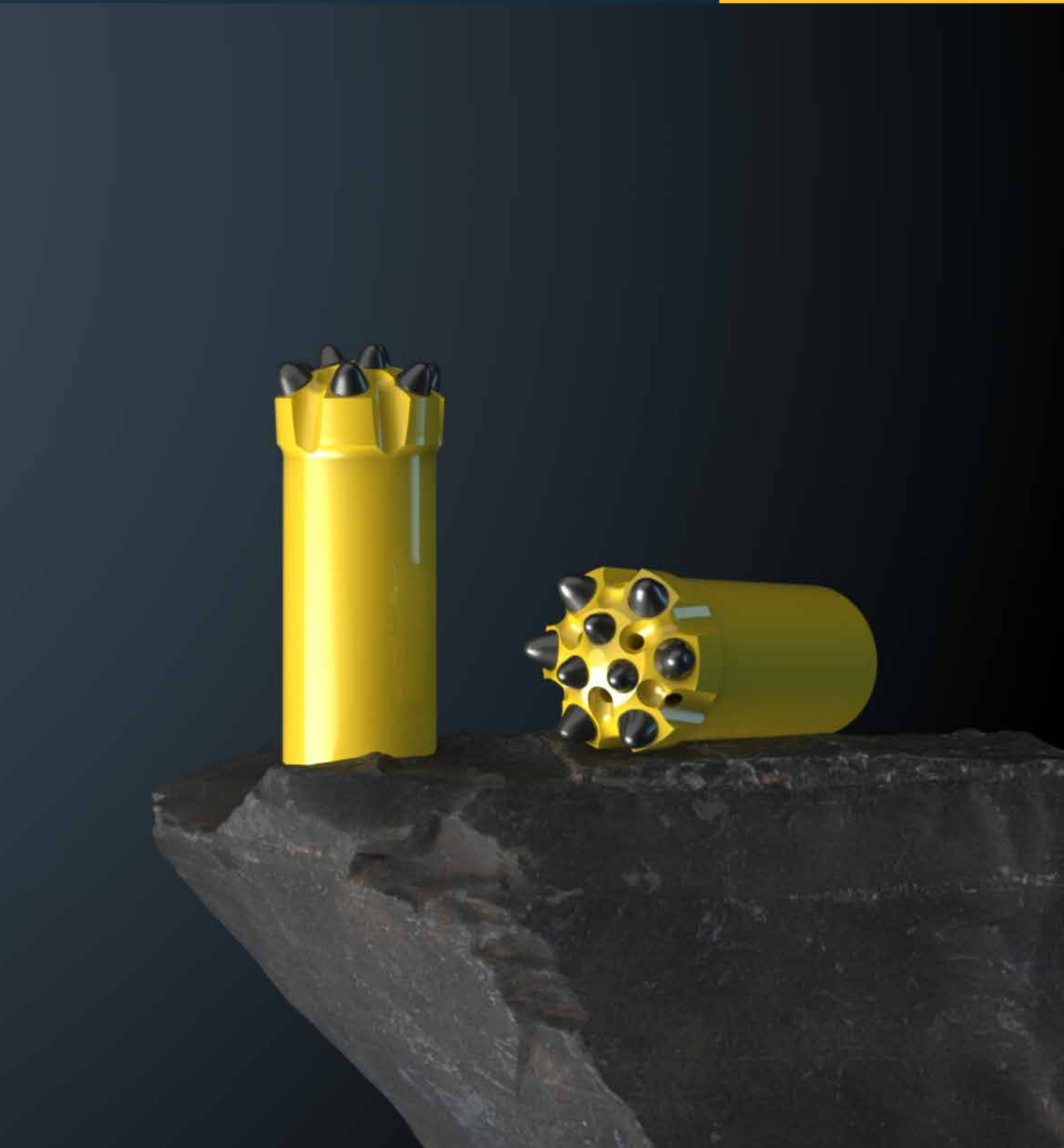
Epiroc non-grinding bits

For uninterrupted drilling

Epiroc



Bits for uninterrupted drilling

Epiroc non-grinding drill bits are designed to offer several key advantages, with the purpose of enhancing efficiency and safety in mining operations.

Uninterrupted drilling
One of the most significant benefits of our non-grinding drill bits is the ability to complete an entire face, without the need for bit changes, in certain conditions. This not only saves time but also reduces operational cost associated with interruptions. The unique geometry och the bit allows for a higher amount of carbide, compared to regular bits.

Enabling automation
These drill bits can be enablers of automation in mining. Uninterrupted drilling leads to the possibility of minimizing manual intervention, in certain conditions. Allowing for more streamlined and automated processes, increased productivity and consistency in operations.

Maximized Rate of Penetration (ROP)
Designed with the highest possible rate of penetration (ROP) in mind, this drill bit ensures that mining operations can proceed at an accelerated pace without compromising on quality or safety.

Main benefits

Uninterrupted drilling and reduced costs – Possibility to complete an entire face in some conditions, without needing to change bits, saving time and reducing costs.

Enhanced automation and productivity – Reduces manual interventions in certain conditions, to enable more automated and streamlined mining operations, leading to higher productivity.

Improved work environment and safety – By reducing frequent bit changes and eliminating grinding, safety is improved, and the work environment becomes more efficient and less labor-intensive.

Complementing the PCD drill bits

Our new drill bits are designed to complement the Epiroc PCD drill bits, offering a solution for areas in the mine where the exceptional capabilities of the PCD drill bits are not required. While the PCD drill bits features diamond-coated buttons that do not wear down like regular carbides, our new drill bit provides an efficient and cost-effective alternative for less demanding sections of the mine.

No need for re-grinding – The unique design of our drill bits, eliminates the need for re-grinding in certain conditions, reducing down-time and maintenance costs. This feature ensures that the bit remains effective and efficient throughout its lifespan.

Enhanced durability – For the first time, we have introduced our latest technology and manufacturing processes to our ballistic buttons. This innovation makes them industry-leading in terms of wear resistance, comparable to our other carbide shapes.

Discover more about our products.

Bits that fill the gap in your mining operation

The Epiroc non-grinding drill bits stand out with their unique design, offering key advantages to enhance mining efficiency and safety.

+ Sustainability

With the Epiroc non-grinding drill bits, mines can eliminate their grinding workshops entirely. The non-grinding design reduces operational costs and simplifies the overall workflow, contributing to a more streamlined operation.

+ Operator in focus

By reducing the need to change bits in the face, our new drill bit significantly improves the work environment for miners. This reduction in manual labor not only enhances safety but also boosts overall morale and productivity.

+ Improved performance

The Epiroc non-grinding drill bits feature new technology in ballistic buttons for superior wear resistance, making them durable even in harsh mining environments.

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.

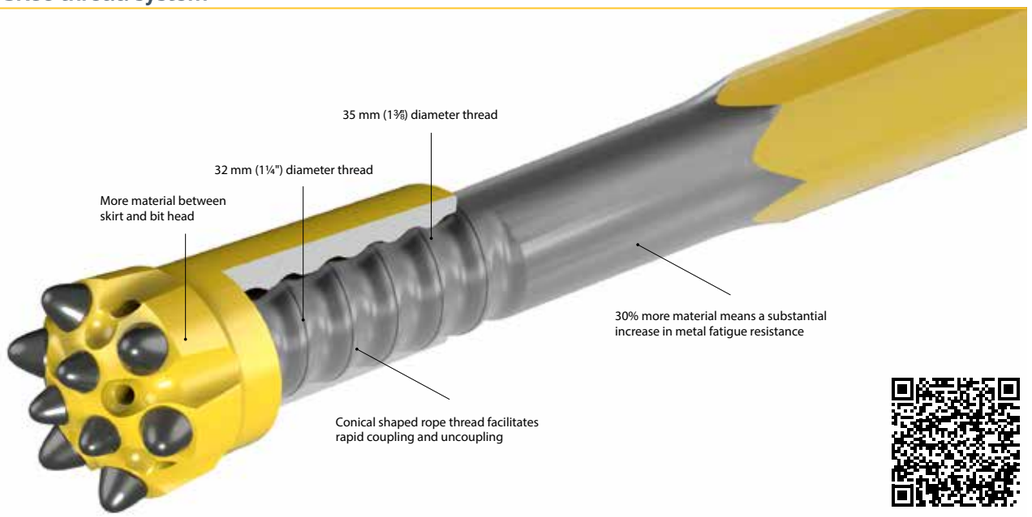
Epiroc SR35 - First out in the line-up

The first drill string to get bits with the Epiroc non-grinding technology, is the Epiroc SR35.

Adapted to the new generation of powerful hydraulic rock drills the Epiroc SR drill string family transmits that power into the rock efficiently and reliably. With a faster rate of advance it lowers the cost per drill meter, boosting productivity and increasing safety and operator focus.

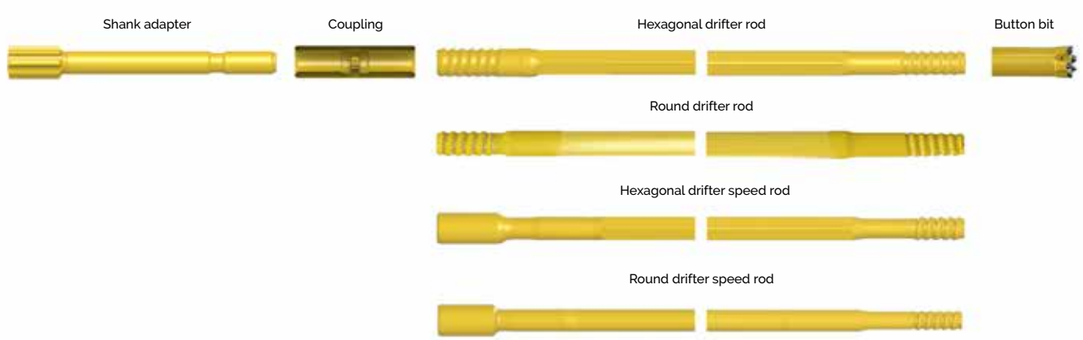
With more material to resist the stresses leading to thread breakage, the Epiroc SR drill string family has a substantial increase in fatigue strength, with fewer tensile shock waves it reduces the stress in the string for less wear on the rock drill and drill rig components extending the service life.

Epiroc SR35 thread system



Discover more about Epiroc SR drill string family

Epiroc SR35 drill string



Epiroc SR35 non-grinding drill bits

5697005629 5697005599 5697005621

Drill bits

Product No.	Product code	Bit diameter		Button type	Front shape	Retrac	No. of buttons	Buttons x button diameter (mm)		Buttons angle		Flushing hole	
		mm	inch					Centre	Gauge	Gauge	Centre	Centre	Side
5697005629	128-5045-39-66-S,37-20	45	1 7/9	Full ballistic	Flat face	No	9	3x9	6x10	35°	17°	3	3
5697005599	128-5048-39-66-S,37-20	48	1 8/9	Full ballistic	Flat face	No	9	3x9	6x10,95	35°	15°	3	3
5697005621	128-5048-39-66,37-20	48	1 8/9	Full ballistic	Flat face	No	9	3x9	6x10,95	35°	15°	3	-

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.

Main application area	Underground face drilling – Drifting
Bit diameter	45 mm - 48 mm
Button shape	Full ballistic
Rock conditions	Soft, medium hard

Recycling of drill bits at Epiroc

At Epiroc, the recycling of rock drilling bits is part of a broader circular approach that focuses on sustainability by designing products to be repairable, recyclable, and durable from the outset. While recycling is a key component of this strategy, the circular economy also includes extending product lifespan and creating closed-loop systems for material reuse.

Epiroc recycles both carbide and steel from drilling tools through a network of recycling partners. This process involves customers, transportation, and collaboration with specialized recyclers. By contributing to a circular economy, companies can reduce their environmental impact, simplify waste management by reusing valuable materials, and secure a raw material base, thereby reducing dependency on single-source suppliers, particularly in Europe.

Epiroc emphasizes both recycling and a circular approach to help customers reduce their carbon footprint and improve sustainability.

Rock drilling tool selector and configurator

To find all products related to Epiroc non-grinding bits, 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.

Discover 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.
epiroc.com

Epiroc