



mincon.com



2026

# RC DRILLING SOLUTIONS

The Driller's Choice



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# MINCON, EST. 1977

Mincon has earned its reputation as The Driller's Choice thanks to nearly five decades of developing world-class rock drilling solutions for a wide range of applications.



## EXPERTS ON SITE

Rock-drilling expertise doesn't stop at manufacturing. Customers also benefit from Mincon's highly-qualified global teams who work closely with drillers for tailoring drilling packages to their equipment and ground conditions, while also accounting for application-specific requirements. Feedback from your drill site is provided to our design engineers, informing the cycle of continuous improvement.



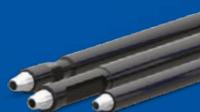
## SOLUTIONS FOR EVERY APPLICATION

Around the world, customers like you trust Mincon tools for blasthole, exploration, geotechnical, water-well and geothermal applications. Whatever the ground conditions or project scope, Mincon's experienced technical and integration teams work to understand your challenges and provide practical, end-to-end solutions that help you achieve dependable, measurable results.



## ENGINEERED EFFICIENCY

You want to be more efficient – to drill faster while using less fuel, and maintaining productivity throughout the useful life of your drilling consumables. Mincon helps you achieve this with proven designs, precision-made in our state-of-the-art factories and strengthened using proprietary heat-treat processes. These engineering efforts deliver components that have tight tolerances, smooth running surfaces surface, and enhanced material properties that ensure longer life on your drill site.



## EUROPE AND MIDDLE EAST REGION

All European Countries  
Middle East Countries

## AMERICAS REGION

North and South America

## ASIA PACIFIC

Australia, New Zealand,  
Pacific Islands

## AFRICA REGION

African Continent

# POINTS OF PRESENCE

With eight global factories, a growing network of Mincon customer service centres, and more than 200 distributors, we have the international presence that our customers need. We manufacture within region to meet local customer demand, while providing service and support to ensure customers achieve optimum productivity from their assets.

# COMPREHENSIVE PRODUCT RANGE

Our ambition is always to offer customers a comprehensive range of drilling tools that will drill faster and last longer. Individually, Mincon products offer incremental savings. Together, a complete Mincon drill string will deliver tangible savings through higher penetration rates, unparalleled durability, rock-solid reliability, and reduced strain on ancillary components.



# COMPLETE RC SOLUTIONS: FROM BIT TO BAG

Your drill site doesn't stand still, and neither does innovation at Mincon. The next-generation Mincon MRXT reverse circulation (RC) hammers use our latest technologies to make exploration drilling even more efficient. Each of these features has been designed and field-tested to ensure that they help deliver high-quality sample and maximum reliability.

Mincon has been designing and manufacturing class-leading reverse-circulation (RC) hammers for three decades. We pride ourselves on producing the highest quality, most innovative RC hammers that help drillers achieve high performance and low running costs without sacrificing consistency in sample quality.

The standout feature of the new MRXT range is our top-loading design, which allows for easier inspection and maintenance of the sample tubes. This not only saves time, but also avoids the need for disassembly of the entire hammer. As a result, the top-loading design enables faster, safer checking and swapping of sample tubes, ensuring efficient and safe drilling practices while reducing downtime and costs.

In addition to the top-loading design, the MRXT series also boasts an upgraded check valve and an optional bleed chuck sleeve feature. When equipped, the bleed chuck sleeve and bleed chuck help maintain positive air pressure at the bit face by holding the outside water head above the chuck sleeve. This maintains a positive air pressure at the bit face, ensuring that collected samples remain dry. Combine, these features make the MRXT series a reliable and efficient choice for exploration drilling.

Along with our MRXT hammers for exploration drilling, Mincon also offers RC drill pipe, subs, and complete conversion kits for exploration and conventional drill rigs. This comprehensive product line is backed up by our global support footprint, ensuring that our exploration drilling customers can rely on expertise that is as reliable as our solutions.



# NEXT-GENERATION RC TECHNOLOGY

## Multi-thread support

Support for Mincon ARDX, Remet, and Metzke threads. Thread type can easily be changed in the field by swapping the adapter sub.

## Check valve upgrade

New check valve and spring design to create a stronger seal-off for the hammer during rod changes.

## Keeping it dry

Air-bleed chuck and chuck sleeve to aid retrieval of dry sample in water-logged ground conditions.

[Optional feature]

## Bits that mean business

Mincon RTL carbide inserts to provide extreme wear resistance and longer bit life.

## Top-load sample tubes

MRXT hammers have an adapter sub that can be removed for easy exchange of sample tubes without disassembly of the hammer.

## Optimised internals

Revised design for internal aligner to increase flushing in drilling mode.

## Maximum sample recovery

Venturi bits allow for more effective and increased sample recovery, and can also provide a viable replacement for air core drilling. Our high-flow design aids in returning down the hole through wet and swelling conditions.



# MRXT RC HAMMERS

Next-generation RC hammers with unparalleled performance, efficiency, and serviceability.

	MRXT 82	MRXT 92	MRXT 109
Hammer OD	82 mm (3.23")	92 mm (3.62")	109 mm (4.29")
Hammer length	1,065 mm (41.93")	1,251 mm (49.25")	1,369 mm (53.9")
Hammer weight	27 kg (59.52 lb)	42 kg (92.59 lb)	60.3 kg (132.94 lb)
Backhead spanner flat size	70 mm (2.76")	76 mm (3")	94 mm (3.7")
Drill bit shank type	MR82	MR92	MR109
Backhead threads available	73 ARD, 3" Remet	90 ARDA, 3.5" Remet	4" Remet, 4" Metzke
Minimum bit size	86 mm (3.4")	102 mm (4")	115 mm (4.53")
Maximum bit size	102 mm (4")	114 mm (4.5")	127 mm (5")
Maximum drill bit weight	5.4 kg (11.9 lb)	7.5 kg (17 lb)	12 kg (26.5 lb)
Piston weight	4.5 kg (9.9 lb)	7.5 kg (17 lb)	12.3 kg (27.05 lb)
Backhead stand-off	0.8 mm (0.03")	0.8 mm (0.03")	0.95 mm (0.037")
Minimum air package	8.5 m <sup>3</sup> /min @ 13.8 bar (300 cfm @ 200 psi)	25.5 m <sup>3</sup> /min @ 24.1 bar (900 cfm @ 350 psi)	25.5 m <sup>3</sup> /min @ 24.1 bar (900 cfm @ 350 psi)



# MRXT RC HAMMER SPECIFICATIONS

	MRXT 116	MRXT 120	MRXT 132
Hammer OD	116 mm (4.57")	120 mm (4.72")	132 mm (5.2")
Hammer length	1,315 mm (51.77")	1,315 mm (51.77")	1,315 mm (51.77")
Hammer weight	66 kg (145.51 lb)	75.2 kg (165.79 lb)	87.4 kg (192.68 lb)
Backhead spanner flat size	94 mm (3.7")	94 mm (3.7")	101 mm (3.98")
Drill bit shank type	MRT116	MRT120	MRT132
Backhead threads available	4" Remet, 4" Metzke, 4.5" Remet, 4.5" Metzke, 115 ARDX	4" Remet, 4" Metzke, 4.5" Remet, 4.5" Metzke, 115 ARDX	4.5" Remet, 4.5" Metzke, 115 ARDX
Minimum bit size	124 mm (4.88")	127 mm (5")	140 mm (5.51")
Maximum bit size	133 mm (5.24")	146 mm (5.75")	146 mm (5.75")
Maximum drill bit weight	13.9 kg (30.6 lb)	17 kg (37.5 lb)	19.2 kg (42.3 lb)
Piston weight	14 kg (30.89 lb)	15.4 kg (33.86 lb)	18.2 kg (40.19 lb)
Backhead stand-off	0.95 mm (0.037")	0.95 mm (0.037")	1 mm (0.039")
Minimum air package	25.5 m <sup>3</sup> /min @ 24.1 bar (900 cfm @ 350 psi)	25.5 m <sup>3</sup> /min @ 24.1 bar (900 cfm @ 350 psi)	25.5 m <sup>3</sup> /min @ 24.1 bar (900 cfm @ 350 psi)



# VENTURI EXPLORATION DRILL BITS

Mincon engineers work with technical teams in the field to continuously evolve our reverse circulation solutions in ways that will make exploration drilling faster and more cost-effective, through innovations like venturi flushing in our RC drill bits.

These new drill bits allow for increased airflow during the sample flushing process, resulting in a 40 % plus improvement in sample recovery versus conventional RC drill bit designs. This is especially beneficial in industries where sample quality is of the utmost importance, for both exploration and grade control drilling.

The new venturi RC drill bits are versatile and can be used in both soft ground and hard rock. This

presents a huge time saving compared to air core drilling, as there is no need to swap tooling for harder ground. Venturi bits are also not hindered by water in the borehole: consistently high airflow is able to flush out water-logged samples. As a result, there's a much lower risk of silting and other complications that cause expensive downtime.

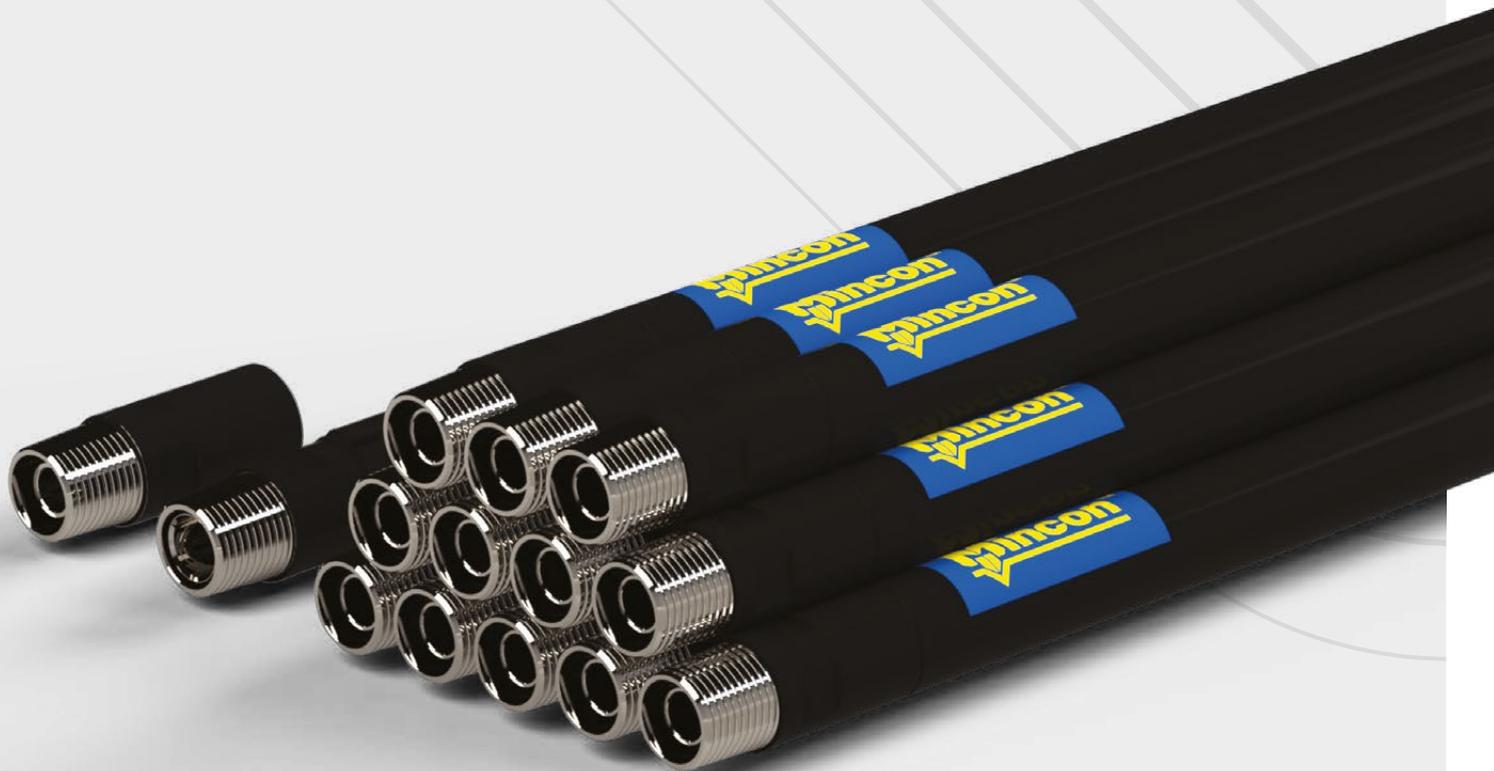
This is just one example of Mincon's drive for continuous improvement, and our dedication to delivering drilling solutions that deliver class-leading performance, efficiency, and reliability.



## RC DRILL BIT SPECIFICATIONS

Shank	MR82	MR92	MR109	MR116	MR120	MR132
Minimum bit size	86 mm (3.40")	102 mm (4")	115 mm (4.53")	124 mm (4.88")	127 mm (5")	140 mm (5.50")
Maximum bit size	102 mm (4")	114 mm (4.5")	127 mm (5")	133 mm (5.24")	146 mm (5.75")	146 mm (5.75")
# of carbides	16	16	16	19	19	19
Weight	5.4 kg (11.9 lb)	7.5 kg (16.53 lb)	12.1 kg (26.68 lb)	13.6 kg (30 lb)	14.5 kg (32 lb)	17.5 kg (38.6 lb)
Venturi flushing enabled?	Yes	Yes	Yes	Yes	Yes	Yes
Face type	Drop Centre	Drop Centre	Drop Centre	Drop Centre	Drop Centre	Drop Centre
Sample holes	20 mm	20 mm	24 mm	24 mm	28 mm	28 mm

# MINCON DRILL STRING COMPONENTS



Mincon's comprehensive range of RC drilling products includes all drill string essentials, including saver subs, digout/stabiliser subs, and our world-class drill pipe. All of our drill string products and accessories are precision-engineered to meet the stringent demands of exploration drilling and grade control applications.

Mincon's RC drill pipe stands as a testament to quality and durability, offering robust performance in challenging drilling environments. Engineered to withstand the rigours of exploration drilling, our cold-drawn, seamless friction-welded drill pipe ensures the ultimate in durability and hole straightness.

Mincon's saver subs are meticulously designed to protect your equipment and optimise performance. These subs act as a safeguard for your drill string components, reducing wear and tear while maintaining the integrity of your drilling operations.

Maximise stability and precision in your drilling process with Mincon's digout/stabiliser subs. These components play a crucial role in maintaining alignment and stability during drilling, ensuring smooth operations and accurate ground sampling for your exploration projects.

# APEX ADVANCED PERFORMANCE EXPLORATION

Unlock the full potential of your reverse circulation drill rigs with Mincon's APEX upgrade systems – purpose-designed and precision-engineered to increase performance, reduce fuel usage, and optimise sample return.

APEX upgrade systems are a practical upgrade path for fleets running RC across mineral exploration and grade control. Each component in the APEX ecosystem is designed to deliver measurable performance improvements without the cost and downtime of major rig modifications.

The APEX upgrade system comprises next-generation components that transform the performance of your RC drilling setup. Paired with Mincon's MRXT-series hammers, the benefits compound – supporting better productivity and improved drilling economics.

Additionally, APEX also introduces safety innovations that reduce injury risk during specific operations and minimise the chance of operator errors that can lead to costly repairs and unplanned downtime. Designed by drillers, for drillers – and manufactured to the quality you expect from *The Driller's Choice*.

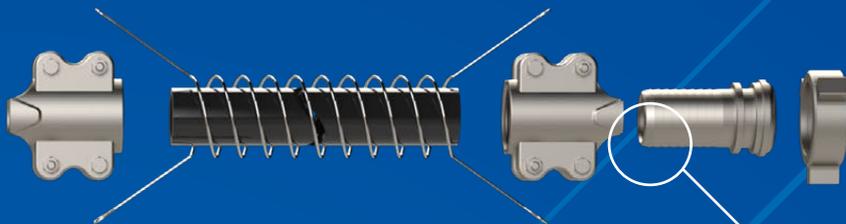
## Deflector

- Compact design
- Smooth, uninterrupted 90-degree flow path
- Internal expansion zones
- Super alloy wear-resistant design
- Bespoke wear indicator
- High energy absorption
- Extended service life

## Combination Swivel

- Modular design for easy maintenance and inventory management
- Hard-coated shafts for extended longevity
- Rotary air seals rated from -40°C to +120°C
- Compatible with various RC head-wear tube configurations, sizes, and heavy-duty application
- High axial and radial load capacity
- Custom air-leak indicators for added safety





### RC Hose-Fittings and Connections

- Heavy-duty hose fittings, hose-tails, and knock-on nuts
- Available in 3- and 4-inch sizes for exploration and in-pit grade control applications
- Hardened replaceable wear inserts

### Exploration blow-back/blow down (BBBD)

- Sliding hydraulic cylinder actuation
- Faster action and switching
- Improved sample quality
- Separated hydraulic and pneumatic systems to prevent contamination
- Replaceable hardened wear sleeves
- Extended service life
- In-cab joystick or remote control with PLC
- Auto return to neutral/drill position
- High-pressure and high-volume air-package capable
- Bespoke wear indicator ports



### DQ8000 MK3

- Compact design
- Plus & Minus 90-degree from 0-degree for fan-type drilling
- Compatible with a wide range of hydraulic motors
- High radial and axial load capacity (30 - 40 tonnes)
- Minimal maintenance compared to industry standard
- "Float"-capable spindle shaft with replaceable keys
- Ultra-durable design for long service life

### Headwear tube and sub saver

- Durable design with thicker walls
- Heat-treated for high wear resistance
- Simple construction requires no seals
- Locks in place to simplify fitment and removal
- Sub saver interlock reduces complexity



## APEX SYSTEMS RIG COMPATIBILITY

APEX upgrade systems have been field-tested on a defined range of RC rigs utilising a through-hole (hollow) spindle design – ideally 75 mm diameter (70 mm minimum). Multiple rig platforms have been upgraded already, please ask your local Mincon

office for the current list of supported and upgraded drill rigs. Mincon engineering and technical teams are testing APEX systems for additional rigs on an ongoing basis, with the intention to increase the number of supported platforms.

# APEX DEFLECTOR BOX

High-durability deflection with faster wear-part serviceability.



Built for harsh RC environments, the APEX Deflector Box is positioned as the most durable option on the market, manufactured from ultra wear-resistant material to increase uptime when faced with the most abrasive ground conditions.

Featuring a quick-change design that makes it easier to replace wear blocks, it reduces maintenance time on the rig and helping keep your drilling programme moving, while thoughtfully placed lifting shackles help keep operators out of harm's way.

## KEY FEATURES

- ▶ Ultra wear-resistant construction
- ▶ Quick-change wear block system
- ▶ No-weld design for attachment ports
- ▶ Lifting and safety sock shackles
- ▶ Reduced downtime

# APEX SWIVEL

**A smarter swivel engineered to reduce restrictions and reduce maintenance load.**



The APEX Swivel is an innovative modular design that eliminates airflow restrictions while using fewer components – supporting higher performance with less complexity. With fewer wear and service points, it helps reduce downtime and lowers maintenance costs over the life of the system.

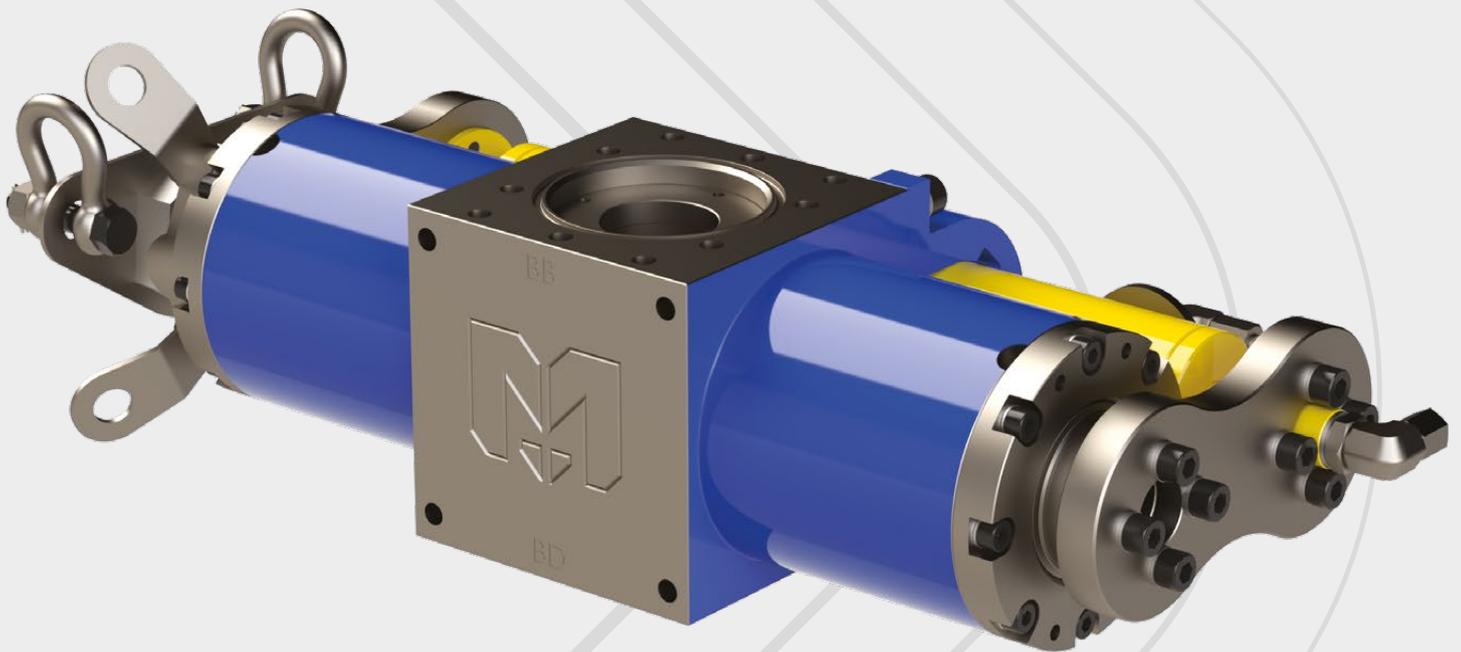
An optional auto-lubrication system provides reliable, precise greasing to extend the life of bearings and seals, helping maintain consistent performance and reducing the frequency of manual greasing interventions.

## KEY FEATURES

- ▶ Eliminates airflow restrictions
- ▶ Low-complexity design for reduced downtime, maintenance, and operating costs
- ▶ Mechanical auto-lubrication system
- ▶ Precise greasing to extend bearing and seal life
- ▶ Adjustable bearing tension
- ▶ Seal condition indicators

# APEX BB/BD UNIT

Safer blowback/blowdown with built-in protection for people and rigs.



The APEX Blowback/Blowdown (BB/BD) unit is unique in offering an automatic return-to-centre, avoiding the alignment mistakes that can cause component damage and costly downtime. By removing the need for manual intervention, it helps standardise operation across crews and shifts.

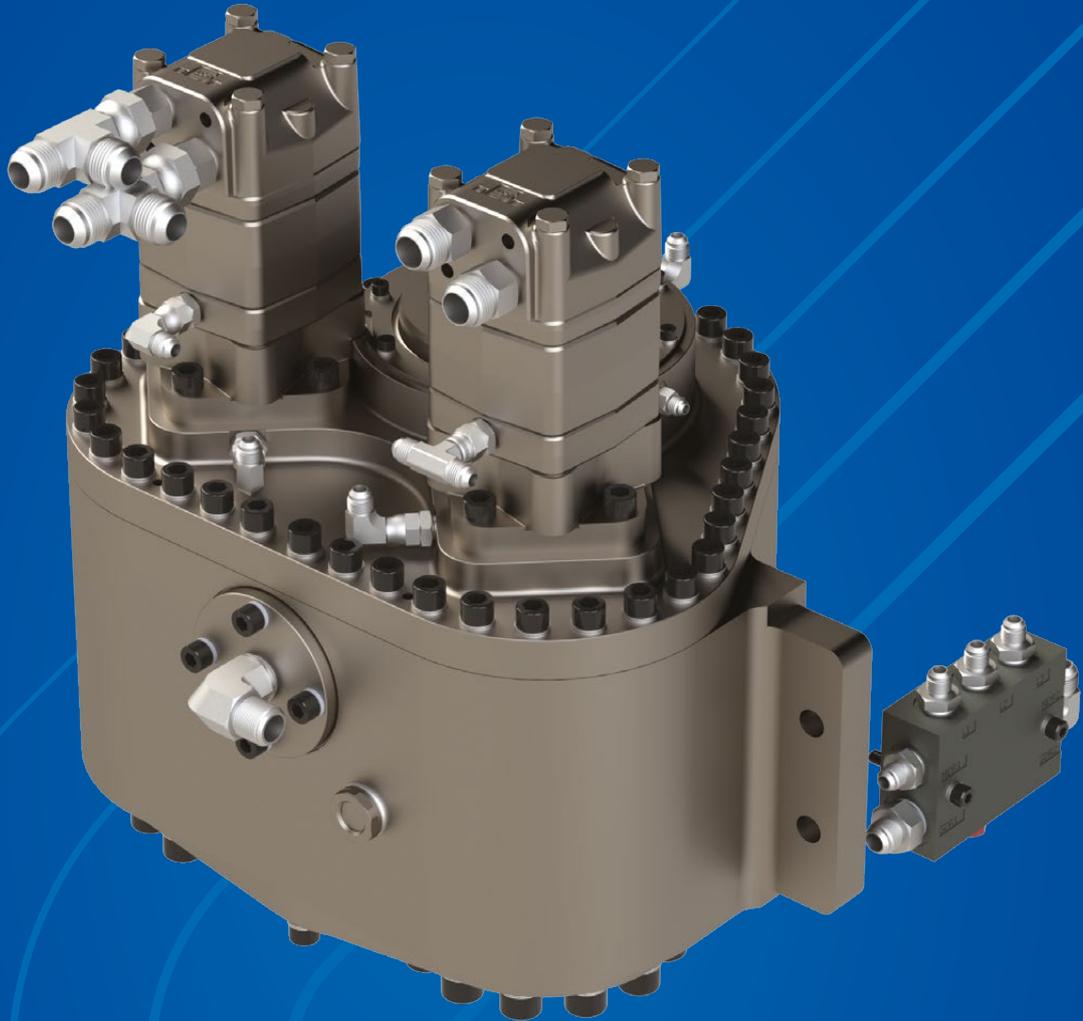
When combined with remote rig control, the BB/BD unit significantly enhances worksite safety by eliminating hands-on interaction during BB/BD operation – reducing the risk of injury while also protecting critical RC equipment.

## KEY FEATURES

- ▶ Automatic return-to-centre functionality
- ▶ Eliminates manual intervention
- ▶ Reduced risk of misalignment
- ▶ Hydraulic control with rig integration
- ▶ Lifting and safety sock shackles
- ▶ Low-wear design

# DQ8000 ROTARY HEAD

Next-generation RC rotary head designed for versatile-angle drilling and lower maintenance.



Drill at any angle with the DQ8000 MK3 rotation unit, our next-generation RC rotary head featuring an innovative oil circulation system. Benefit from stable operation across all drilling orientations while supporting controlled, productive drilling performance.

Designed for durability and minimal maintenance, the DQ8000 MK3 rotary head helps reduce service interruptions and keep rigs drilling for longer.

## KEY FEATURES

- ▶ RC rotary head designed for drilling at any angle
- ▶ Breakthrough oil circulation system
- ▶ Built for durability in demanding environments
- ▶ Minimal-maintenance design intent
- ▶ Supports higher rig utilisation and productive drilling
- ▶ Helps reduce downtime linked to servicing

# DRILL RIG CONVERSION SERVICE AND SUPPORT



**Mincon has been a leader in RC solutions for more than two decades, so we understand the importance of reliability, performance, and efficiency. That's why we offer RC drill rig conversion services that are tailored to meet the unique needs of exploration drillers.**

Our service offering includes making use of Mincon's comprehensive range of precision-manufactured products and bespoke accessories that are designed to seamlessly convert your existing drill rigs to support exploration drilling activities. Whether you require modifications for specific brands or types of drill rigs, our expert team is equipped to deliver tailored solutions that enhance the performance of your equipment.

When you choose Mincon as your exploration drilling partner, you gain access to our highly experienced global team of drill masters. These seasoned professionals have decades of experience and are dedicated to assisting you in getting your new rig operational on-site efficiently. Moreover, our engineering teams are at your disposal to design bespoke components that precisely fit your rig's requirements, ensuring a seamless conversion process.

Our commitment to your success extends beyond the initial conversion. Mincon provides comprehensive after-sales support to guarantee that your equipment operates at peak performance and efficiency. Our team is dedicated to ensuring that you maximise the potential of your rig, delivering ongoing assistance and maintenance services to keep your operations running smoothly.

Partner with Mincon for unparalleled service and support when it comes to rig conversions and on-site expertise that elevates the capabilities of your exploration drilling equipment. Experience the difference with our tailored solutions and expert guidance, designed to optimise your drilling operations for maximum productivity and success.



# THE COMPLETE PACKAGE

Mincon aims to offer comprehensive product range, allowing drillers to tailor a complete Mincon drilling solution for their application and drilling platform.

Our range includes DTH hammers, DTH drill bits, rotary drill bits, geotechnical and foundation drilling systems, reverse circulation systems for exploration drilling, horizontal directional drilling systems, and drill pipes. Each of these offerings has been designed in-house by Mincon and is manufactured at our state-of-the-art factories around the world.

In addition to our class-leading tools and solutions, we offer customers ancillary equipment for the operation and maintenance of their drill string. This equipment can be installed at customer sites or accessed through Mincon service centres.

We also offer a range of drilling fluids, including Mincon Envirosafe rock drilling oil which ensures the correct lubrication to prolong the service life of DTH hammers. The range includes Envirosafe Foamer and Hole Control, designed to stabilise boreholes in specific ground conditions.

Additional information on the complete Mincon product range can be obtained from your Mincon service centre, distributor, or by visiting [www.mincon.com](http://www.mincon.com).





The Driller's Choice



Scan QR code or visit [mincon.com/contact-us](https://mincon.com/contact-us) to find your nearest Mincon location

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