



mincon.com



2026
**HDD
SYSTEMS**

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.



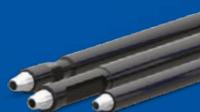
SOLUTIONS FOR EVERY APPLICATION

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.



HDD SYSTEMS RANGE

The Mincon range of HDD systems use proven technology to reliably deliver fast, efficient performance – helping you lower costs and deliver on time.

DRILLERS BENEFIT FROM MINCON'S WORLD-CLASS TECHNOLOGIES, INCLUDING:

- ▶ **HIGH-FREQUENCY HAMMER CYCLE:** outperform the competition in hard rock conditions with a hammer that produces smaller chips that are easier to remove from the borehole. This also allows for better steerability in and out of rock formations, as well as a lower impact on electronics and the drill string.
- ▶ **DURABILITY AND SERVICEABILITY:** HDD 40 and 50 models feature heavy-duty outer cases for higher durability, while HDD 40, 50, and 60 models are offered as SL (Sideload) variants, allowing easy access to positioning electronics during field maintenance.
- ▶ **ADAPTABILITY:** our HDD systems can easily be used with conventional dirt drilling rigs.
- ▶ **COMPATIBILITY:** Mincon HDD tools work with industry-standard locating electronics from DCI, Subsite, and Umag.
- ▶ **GLOBAL AVAILABILITY:** our partnership with Vermeer Corporation brings Mincon HDD systems to more than 220 Vermeer Industrial dealers around the world.

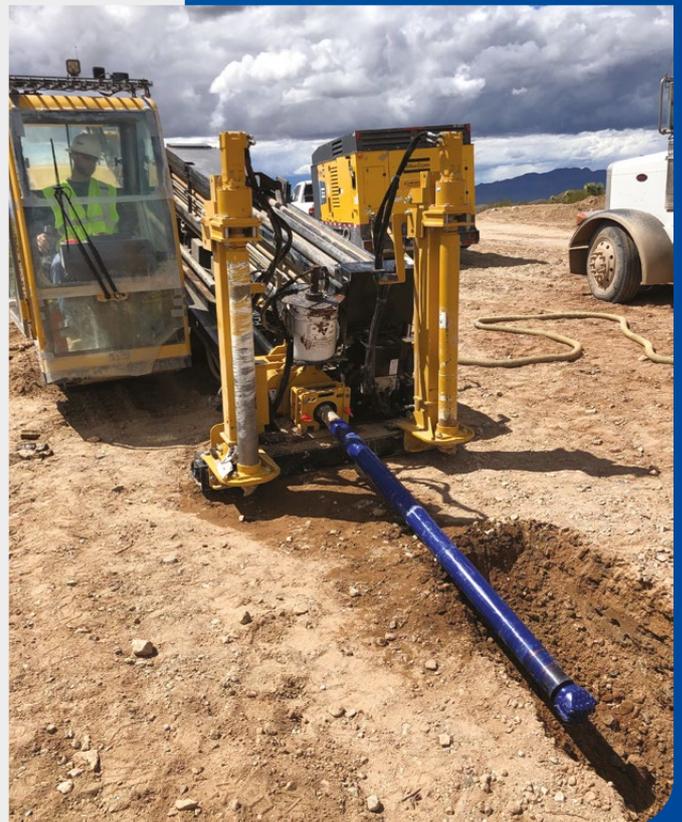


GLOBAL PARTNERS



Mincon HDD solutions and expertise are available worldwide through our extensive distribution network and partnership with Vermeer.

Our distribution network provides full support for Mincon HDD solutions, and supplies HDD pilot and pull-reamer hammers, HDD oilers and support equipment, and drilling fluids.



HDD PILOT HAMMERS

Mincon's HDD range starts with our selection of finely-tuned pilot hammers, available in 3.5" (89 mm), 4.5" (114 mm), 5.5" (140 mm), 6.25" (159 mm), and 7.25" (184 mm).

Our new SL variants deliver enhanced performance and meaningful time-saving benefits. A revised internal design enables higher airflow for the hammer cycle, resulting in increased drilling speed. The side-load configuration also provides easy external access to the positioning electronics, eliminating the need to disassemble the hammer in the field, saving both time and money.



HDD PILOT HAMMER SPECIFICATIONS

Mincon Hammer Model	HDD30	HDD40	HDD50	HDD60	HDD70
Vermeer Drill Rig	D6X6 / D10X15	D20	D23 - D24 - D40	D40 - D60 - D100	D60 - D100 - D130
Bit Size	3.5 inch 89 mm	4.5 inch 114.3 mm	5.5 inch 139.7 mm	6.25 inch 158.75 mm	7.25 inch 184.15 mm
Hammer Diameter	3.03 inch 77 mm	3.86 inch 98 mm	4.06 inch , 4.25 inch 103 mm wearsleeve, 108 mm sonde housing	5 inch 127 mm	5.75 inch 146 mm
Hammer Length	66.4 inch 1,713 mm	73.5 inches 1,867 mm	79 inches 2,007 mm	81 inches 2,057 mm	82.6 inches 2,098 mm
Hammer Weight	85 lbs 38.6 kg	128 lbs 58 kg	183 lbs 83 kg	306 lbs 139 kg	403 lbs 183 kg
Backhead Thread	2 3/8" API Reg Pin	2 3/8" API Reg Pin	2 3/8" API Reg Pin	3 1/2" API Reg Pin	3 1/2" API Reg Pin
Make-up Torque	2,250–3,000 lbf.ft	2,250–3,000 lbf.ft	3,000–4,000 lbf.ft	3,750–5,000 lbf.ft	4,500–6,000 lbf.ft
Minimum Air < 250'	400 cfm @ 250psi	400 cfm @ 250 psi	750 cfm @ 350 psi	900 cfm @ 350 psi	900 cfm @ 350 psi
Minimum Air > 250'	500 cfm @ 350psi	700 cfm @ 350 psi	900 cfm @ 350 psi	1,100 cfm @ 350 psi	1,100 cfm @ 350 psi
Minimum Air < 76.2 m	11.3 m3/min @ 17.2 bar	11.33 m3/min @ 17.2 bar	21.25 m3/min @ 24.1 bar	25.5 m3/min @ 24.1 bar	25.5 m3/min @ 24.1 bar
Minimum Air > 76.2 m	14.2 m3/min @ 24.1 bar	19.83 m3/min @ 24.1 bar	25.5 m3/min @ 24.1 bar	31.17 m3/min @ 24.1 bar	31.17 m3/min @ 24.1 bar
Air Quality	After Cooled Air Recommended				

PILOT BIT HEAD CONFIGURATIONS

Our HDD pilot hammers are available with a choice of two bit styles, each suited to specific steering requirements and ground conditions, to help you get the most accurate and reliable performance.



▶ EXTREME DUTY SLANT

The Extreme Duty Slant pilot bit offers the most aggressive steering ability. Best suited for jobs with significant steering requirements and when transitioning in and out of rock formations.



▶ MULTI-POINT SYMMETRICAL SLANT

The patented Multi-Point Symmetrical Slant pilot bit offers the best of both worlds, with steering capabilities at the bit face as well as significantly increased gauge-row strength and protection. The MSS pilot bit is suited for jobs with less-aggressive steering requirements, where long runs in solid rock are anticipated.

HDD80PR HAMMER REAMER

Using a high-frequency drilling cycle, the Mincon HDD80PR hammer reamer operates at unmatched rates of penetration in hard rock conditions, while requiring minimal pull and rotation forces.



THE MINCON HDD80PR (HAMMER PULLREAMER) IS AVAILABLE WITH FIVE BIT OPTIONS:

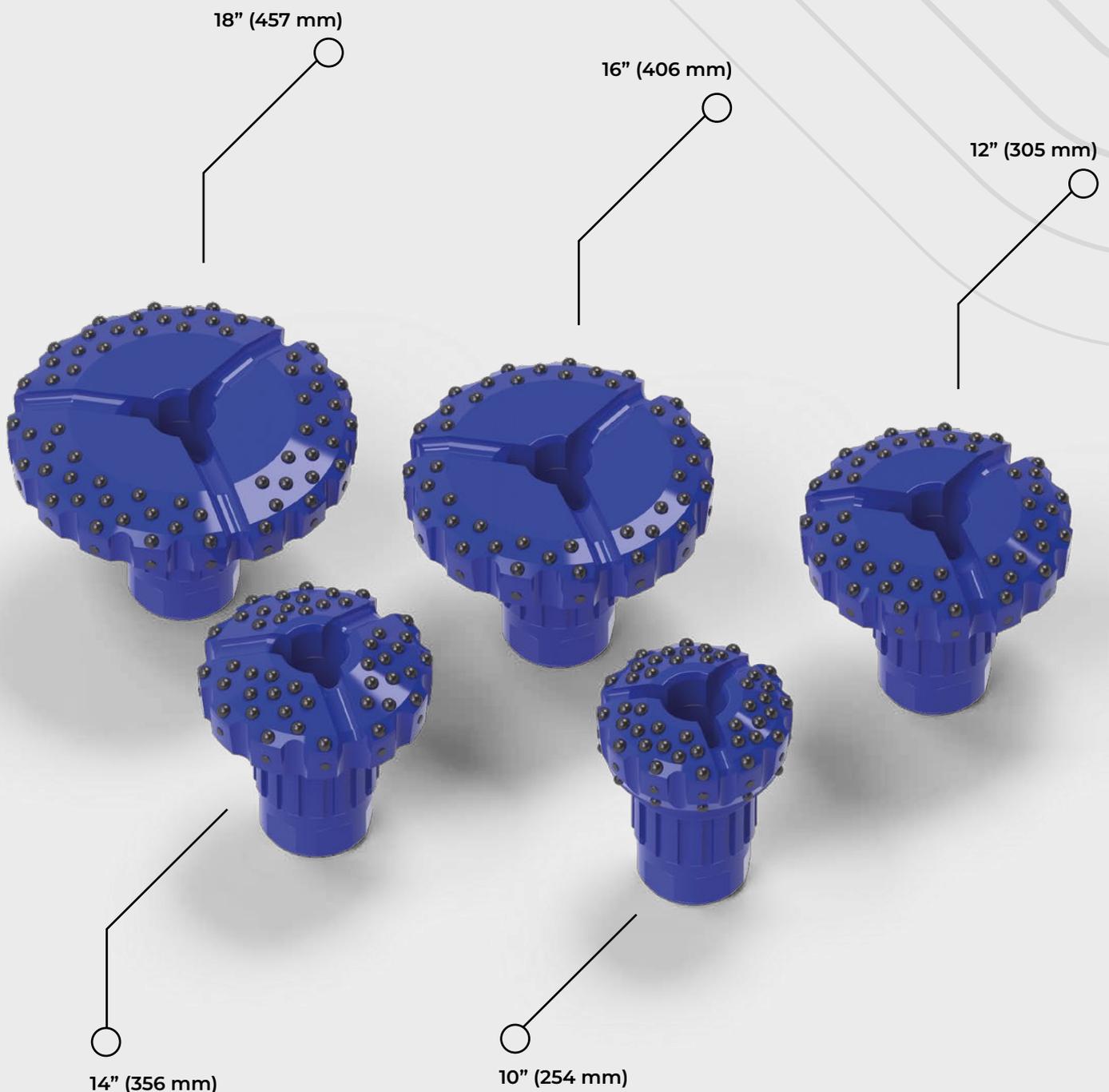
- 10" (254 mm)
- 12" (305 mm)
- 14" (356 mm)
- 16" (406 mm)
- 18" (457 mm)

Minimum air requirement: 1,250 cfm @ 350 psi (35.40 m³/min)

In certain situations, additional air may be required to properly evacuate the cuttings from the borehole.

HDD PULL REAMER BITS

Mincon drill bits are manufactured using high-quality raw materials from the bit body to the carbide inserts. Our stronger tungsten carbide inserts are available in grades, shapes, and sizes to fit your application.



HDD ACCESSORIES

LUBRICATION SYSTEMS

The Mincon manual and remote-controlled oilers introduce rock drill oil into the air-stream to lubricate the internal hammer components during the high frequency drilling cycle.

OILER CAPACITY

- Oil tank is 7-gallon (26.5-litre) capacity
- Oil rates 2-4 pints/hour (0.95-1.9 l/hour)
- Fluid injection system
- Up to 5 gpm (19 l/min) feed rate



LUBRICATION SYSTEMS



▶ Optional add-on fluid injection system delivers a mixture of water, foam, and/or polymer at a rate of 0-5 gal/min (0-19 l/min) into the air-stream, assisting with dust suppression, lubrication, and removal of cuttings.



HDD ACCESSORIES DRILLING FLUIDS

Drilling fluids play a critical role in the success of your projects. Mincon's drilling fluids keep you productive while you're in the ground.



High-quality lubricants are essential for the efficient operation of your HDD hammer – ensuring high performance and prolonging service life through reduced wear. Our Envirosafe rock drilling oil is environmentally safe and suitable for use with water, while providing the necessary protection while drilling.

We offer a range of specifically formulated foamers and hole control agents designed to work with Mincon HDD systems – giving you everything you need to get started with drilling, and remain productive while on site.

▶ MINCON ENVIROSAFE RDO

- Environmentally safe vegetable oil-based rock drill lubricant.
- Specially formulated to improve performance.
- Reduces friction on internal wear components.
- Designed to work when drilling with water. Does not wash away.

▶ MINCON ENVIROSAFE HOLE CONTROL

- Unique high-performing polymer blend for air drilling.
- Reduces redrilling of cuttings.
- Stabilises the bore hole.
- Improves carrying capacity.
- Helps seal fractured formations.
- Lubricant and torque reducer.

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.





The Driller's Choice



Scan QR code or visit mincon.com/contact-us to find your nearest Mincon location
Contact the Mincon HDD team for expert advice: HDDSales@mincon.com

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