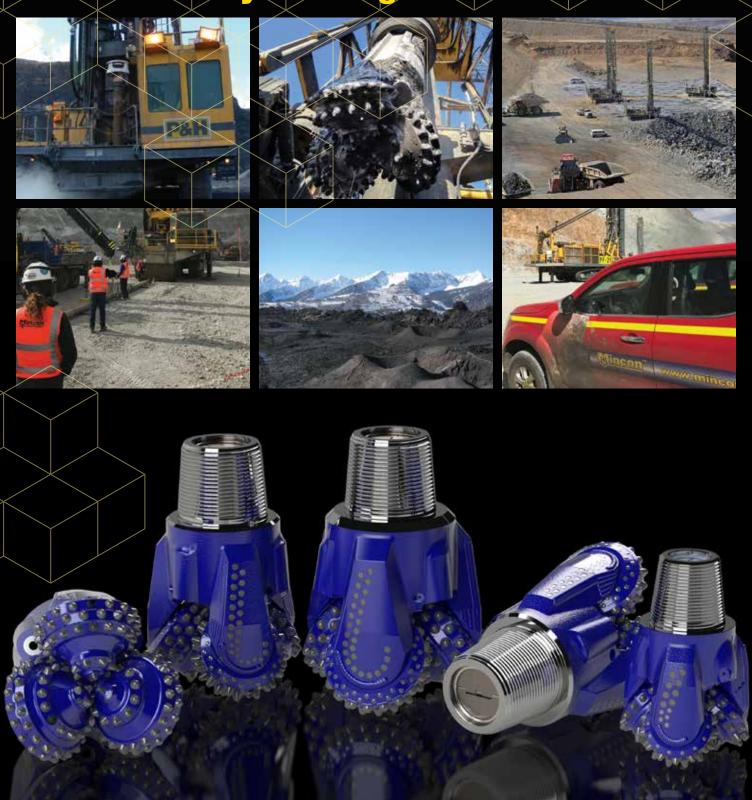
Mincon Rotary Catalog





Mincon XP Rotary Bits: Tough Bits for Tough Jobs!

Our ROTARY TRICONE BITS are manufactured using premium quality steel and tungsten carbide grades developed to suit the toughest applications. Computerized designs, manufacturing processes and controlled heat treatment ensure only consistent, high quality drill bits are shipped from our factory.

All rock was not created equal!

Mincon provides a level of customisation unique to the industry to help customers reduce Total Drilling Cost by working with them to:

- ASSESS areas of improvement
- IMPLEMENT design and process changes, and
- MONITOR results to ensure effectiveness

Standard Bit Sizes:

7-7/8"	9"	9-7/8"	10-5/8"	12-1/4"	13-3/4"
200 mm	229 mm	250 mm	270 mm	311 mm	350 mm

For details on cuttings structures available for each size, please contact your

Nozzle Options:

Bit	7-7/8"	9"	9-7/8"	10-5/8"	12-1/4"	13-/4"
Min Ø	3/8"	3/8"	3/8"	3/8"	1/2"	9/16"
Max Ø	7/8"	7/8"	1"	1"	1-1/8"	1-1/4"
Thru Bore	1"	1"	1-1/4"	1-1/8"	1-3/8"	1-3/8"

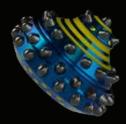
Bearings:



WEAR PROTECTION:

NOSE WEAR PROTECTION:





Nose Wear Buttons Extended Shirt tail Hard Facing







Mincon Rotary Tricone Bits are designed to provide drilling capabilities ranging from soft to very hard formations.

XP4 Series	XP5 Series	XP6 Series	XP7 Series
Weight on bit (lbs/inch)			
1,000 to 5,000	3,000 to 6,600	4,000 to 7,000	5,000 to 8,000
rpm			
50 to 140	50 to 120	50 to 110	50 to 80
DECOMMENDED ODEDA	EINIO DADAMETEDO		

Applicable Rock Type

RECOMMENDED OPERATING PARAMETERS low < ROCK HARDNESS (UCS) > high **VERY HARD** SOFT **MEDIUM HARD** 29000 - 44000 PSI <17000 PSI 14500 - 32000 PSI 42000 - 60000 PSI 117 MPa 100 - 220 MPa 200 - 303 MPa 289 - 414 MPa 4.2 4.3 5.2 6.2 6.3 Claystone, Mudstone Andesite, Rhyolite **Consolidated Sandstones** Basalt Chalky Limestone Soft Shale Medium Shales Quartzite (Sand Silt) Tactite. Skarn Semi Consolidated Sandstone Tuff. Soft Schist Limestone, Marble Granodiorite Limestone Siltstone Andesite, Rhyolite Monzonite, Granite Taconite **Consolidated Sandstones** Quartzite (Sand Silt) Geneiss Quartzite Limestone, Marble Diorite Diabase Senite Medium Shales Monzonite, Granite Hard Shale, Slate Gabbro Gneiss Limestone, Dolomite Diorite Diabase Banded Iron Formation Rasalt Hard Shale, Slate Tactite. Skarn Taconite Limestone, Dolomite Chert Granodiorite Taconite Quartzite Quartzite Senite Gabbro **Amphibolite** Hornfeis Hematite Ore

ava" Basalt, Biwab

A Look Inside the Improvements to the XP Rotary Bit Optimized shirttail gap to hole wall reduces the strain and wear on the arms by reducing Our Rotary Tricone Bits have been improved in a contact with hole wall. The optimized number of ways to provide the driller with the best drill clearance also increases cutting bailing and bits that maximize the rate of penetration and reduce improves the Rate Of Penetration. total drilling cost. Water and debris separator ensures only clean air is being used to cool the bearings. Improved tolerance control around the bearing rollers reduces unwanted movement when loaded and reduces wear New Hard Facing procedures and materials are being used on the journal hard facing areas to increase lubrication on the steel and reduce wear and heat. Hard facing on the shirttail lip helps protect the Multiple jetted air nozzle sizes are available to suit Mincon Xtreme Performance rotary bits are thinnest section on the shirt tail. Reducing wear in your drilling conditions and are selected based on available with industry standard API or BECO

orifice and load testing carried out in the field

of debris.

this section helps keep the bearings clean and free

threads.





Mincon Blast Hole Drill Pipe is designed and manufactured with proprietary materials and processes to withstand the heaviest pull down forces and the most abrasive of ground conditions.

We offer a full range of rotary drill pipe to meet your requirements for outside diameter (O.D.), wall thickness, length, and specific drill rig wrenching configurations.

FEATURES



Outside Diameter	Wall Thickness	Recommended connection
7"	0.750"	4 1/2" BECO
7"	1.000"	5 1/4" BECO
7 5/8"	0.750"	5 1/4" BECO
7 5/8"	1.000"	5 1/4" BECO
8 5/8"	1.000"	6" BECO
8 5/8"	1.250"	6" BECO
8 5/8"	1.500"	6" BECO
9 1/4"	1.000"	6" BECO
9 1/4"	1.250"	6" BECO
10 3/4"	1.250"	8" BECO
10 3/4"	1.500"	8" BECO
11 3/4"	1.250"	8" BECO
11 3/4"	1.500"	8" BECO

Lengths to 50 feet measured shoulder to shoulder with thread connections and wrenching details to suit your specific drilling equipment.

Mincon's Helical Hard Banding (HHB) drill pipes are unique in the industry and deliver those extra meters needed to help lower drilling costs and keep drill rigs in production.

When Ordering, Please Provide the Following:

- Outside diameter (O.D.)
- Shoulder to shoulder length
- Wall thickness of tube portion
- Thread sizes (box pin)
- Make & model of drill, (wrenching details)
- With or without helical hard band wear protection



Mincon offers Adaptors in a wide range of sizes, lengths, wrenching, and thread configurations to suit our customer's needs. Adaptors are used in various positions within the drill string. A Bottom or Bit Sub Adaptor is used between the drill bit and drill pipe. Mincon Bit Sub adaptors are easily recognizable with the industry unique Helical Hard Banding profile and provides extended protection for the working end of the drill pipe to which it is attached.

Other Adaptors may be located elsewhere within the drill string to accommodate changes in thread to suit the applicable drill string components.

All Mincon adaptors are made from premium air craft quality heat treated steel and precision machined and gauged to ensure durability and long

WHEN ORDERING PLEASE SPECIFY:

- Outside Diameter
- Shoulder to Shoulder length required
- Type or specific application of the Adaptor required •
- Inside or bore diameter

- Size of upper thread connection (BECO or API)
- Size of lower thread connection (BECO or API)
- Wrenching details where applicable and any special



