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Mincon
1st for Durability,
Reliability &
Performance

MINCON DTH Drilling Range

MINCON MC Range

- MINCON MC30
- MINCON MC40
- MINCON MC55
- MINCON MC60
- MINCON MC70
- MINCON MC80



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"The Driller's Choice Worldwide"

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The Mincon DTH Story

In the latter part of the 1990's, Mincon began production of a new generation range of "Down-the-Hole" Hammers. This top quality equipment brought a whole host of advantages to the rock drill industry in terms of: increased drilling speeds, longer service life, greater reliability with ease of maintenance and maximum operating cost effectiveness.

All of this is due to our superior designs, unique processes and the highest engineering standards, coupled with a rigorous quality control culture and an excellent understanding of the demanding and diverse conditions in which our hammers are expected to work.

The new Mincon Hammers developed rapidly over a relatively short period, simply by listening to what drillers themselves expect from the tool and then using this valuable information and incorporating much of it into the final designs.

Through continuing development and information gathering from the end users we again raised the bar of what is expected from a DTH hammer. The Mincon MC range of hammers was introduced in 2008 to increase the performance of the tool and combat the issues that are presented by drill bit foot valves and longer shanks.

Mincon have been manufacturing quality DTH hammers for over 25 years and what makes Mincon unique and the hammers so much better is that we will always listen to those who use the equipment, which is why Mincon has become - "The Drillers Choice Worldwide".

The MC Range of DTH Hammers

The Mincon MC range of DTH hammers is designed around proven technology to perform at the top end of the performance scale compared to other tools on the market. These tools are excellent for all types of drilling applications including residential geothermal, production quarry drilling, seismic drilling and small construction drilling.

The MC Range drill bit is significantly shorter than conventional DTH bits and does not use a foot valve. The MC Range drill bit is also fully contained within the hammers chuck. This patented feature dramatically reduces the incidence shanking and spline wear even when drilling in broken or softer ground. This greatly reduces bottom end damage to the DTH hammer and bit and reduces the potential of down time due to tool failure.

Mincon Products are all manufactured in house, and all processes are carried out under the one roof. This guarantees that the quality you "Expect" is always delivered.

Key Features and Benefits

- Patented shank design is fully supported within the chuck throughout the stroke providing maximum protection against shanking.
- Hammer design eliminates the blow tube or foot valve from the drill bit.
- Patented features maximize energy output and reduce service requirements.
- Extremely efficient air exhaust provides excellent hole cleaning and allows for drilling against very large volumes of water.
- Valveless, high frequency design ensures smooth operation.
- Hardened wear sleeve for optimum wear resistance even in the most abrasive conditions.
- Multi-start threads on backhead and chuck ensure easy coupling/uncoupling of hammer.
- Unique internal mount system eliminates the need for wear shims and special assembly tools.
- All critical internal components are heat treated under strict control to maximize tool longevity.



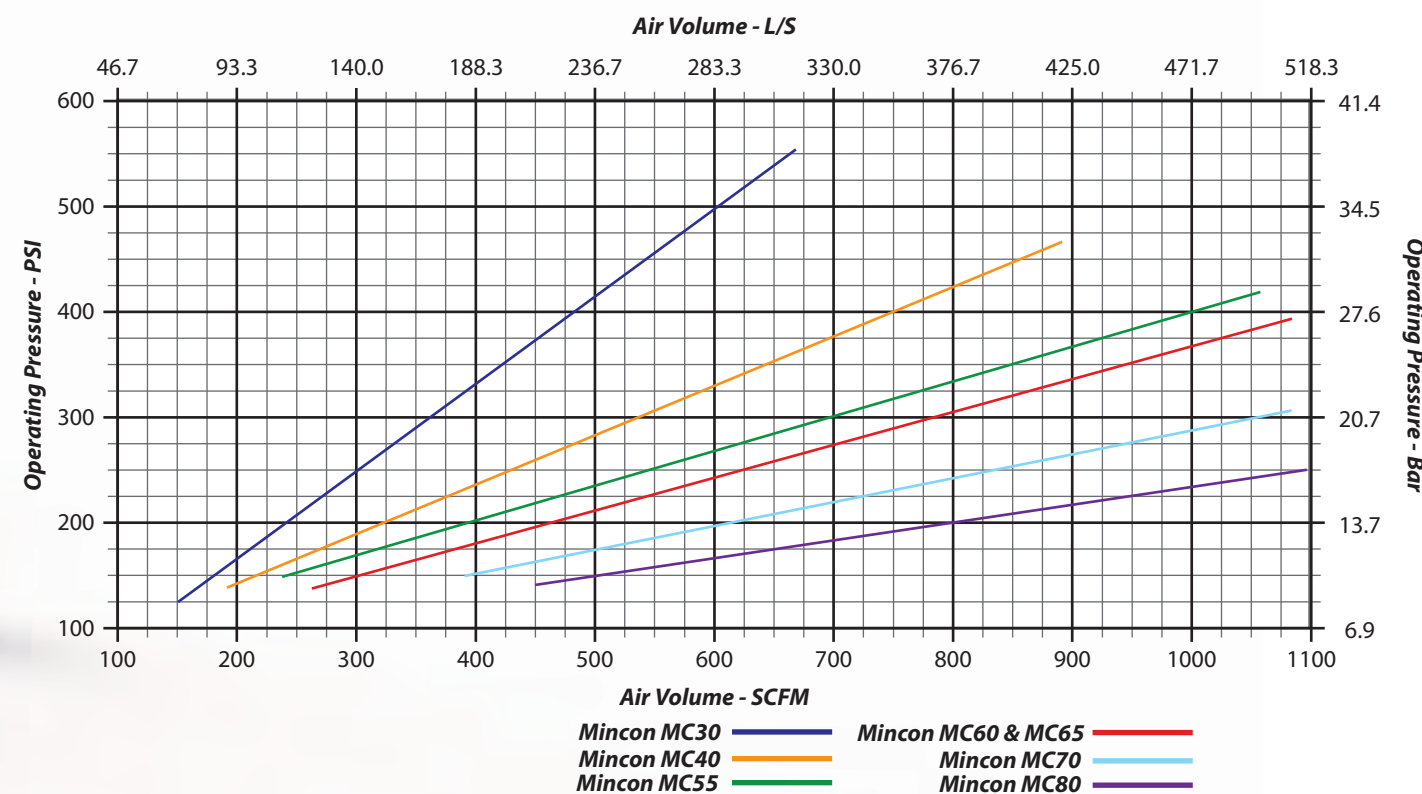
S P E C I F I C A T I O N S

| Mincon MC Hammer Model | | Mincon MC30 | Mincon MC40 | Mincon MC55 | Mincon MC60 | Mincon MC65 | Mincon MC70 | Mincon MC80 |
|--|----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Hammer Outside Diameter | Metric | 77mm | 97mm | 124mm | 140mm | 146mm | 173mm | 181mm |
| | Imperial | 3.03" | 3.82" | 4.88" | 5.5" | 5.75" | 6.81" | 7.15" |
| Hammer Length (Less Drill Bit) | Metric | 865mm | 956mm | 1014mm | 1084mm | 1033mm | 1114mm | 1171mm |
| | Imperial | 34.0" | 37.6" | 39.9" | 42.7" | 40.7" | 43.9" | 46.1" |
| Backhead Spanner Flat Size | Metric | 64mm | 64mm | 89mm | 100mm | 100mm | 140mm | 140mm |
| | Imperial | 2.5" | 2.5" | 3.5" | 4" | 4" | 5.5" | 5.5" |
| Drill Bit Shank Type | | MC30 | MC42 | MC51 | MC61 | MC61 | MC71 | MC81 |
| Standard Backhead Thread ¹ | | 2 3/8" A.P.I. Reg Pin | 2 3/8" A.P.I. Reg Pin | 3 1/2" A.P.I. Reg Pin | 3 1/2" A.P.I. Reg Pin | 3 1/2" A.P.I. Reg Pin | 4 1/2" A.P.I. Reg Pin | 4 1/2" A.P.I. Reg Pin |
| Minimum Bit Size | Metric | 85mm | 110mm | 140mm | 152mm | 159mm | 191mm | 200mm |
| | Imperial | 3.35" | 4.33" | 5.5" | 6" | 6.25" | 7.5" | 7.88" |
| Hammer Weight (Less Bit) | Metric | 22.3 Kgs | 38.6 Kgs | 68.9 Kgs | 91.2 Kgs | 102.1 Kgs | 156.9 Kgs | 180.1 Kgs |
| | Imperial | 49 Lbs | 85 Lbs | 152 Lbs | 201 Lbs | 225 Lbs | 346 Lbs | 397 Lbs |
| Drill Bit Weight | Metric | (92mm) 4.5 Kgs | (114mm) 8.6 Kgs | (146mm) 17.7 Kgs | (156mm) 14.5 Kgs | (165mm) 21.3 Kgs | (216mm) 39.5 Kgs | (229mm) 48.5 Kgs |
| | Imperial | (3 5/8") 10 Lbs | (4 1/2") 19 Lbs | (5 3/4") 32 Lbs | (6 1/8") 44 Lbs | (6 1/2") 47 Lbs | (8 1/2") 87 Lbs | (9") 107 Lbs |
| Piston Weight | Metric | 4.1 Kgs | 7.7 Kgs | 18.1 Kgs | 20 Kgs | 20 Kgs | 30.3 Kgs | 46.3 Kgs |
| | Imperial | 9 Lbs | 17 Lbs | 39.9 Lbs | 44 Lbs | 44 Lbs | 67 Lbs | 102 Lbs |
| Backhead Stand Off | Metric | 0.75mm | 0.75mm | 0.75mm | 0.75mm | 0.75mm | 0.75mm | 0.75mm |
| | Imperial | 0.030" | 0.030" | 0.030" | 0.030" | 0.030" | 0.030" | 0.030" |
| Recommended Minimum Air Package ² | Metric | 47 l/s @ 6.9Bar | 118 l/s @ 10.3Bar | 283 l/s @ 17.2Bar | 283 l/s @ 20.7Bar | 283 l/s @ 20.7Bar | 425 l/s @ 24.1Bar | 425 l/s @ 24.1Bar |
| | Imperial | 100cfm @ 100psi | 250cfm @ 150psi | 600cfm @ 250psi | 600cfm @ 300psi | 600cfm @ 300psi | 900cfm @ 350psi | 900cfm @ 350psi |

¹ Other Backhead threads available on request

² Drilling conditions and project specifications may require larger air package to be used

AIR CONSUMPTION/OPERATING PRESSURE



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