



DTH Drilling Equipment

MAXDRILL ROCK TOOLS CO.,LTD



GLOBAL DRILLING INDUSTRY EXPERTS



High Air Pressure DTH Hammer -With Foot Valve Code

DTH Hammer With Foot Valve (i.e. MQL5)

| M | QL | 5 |
|--------------------------|--|--------------------|
| Our Company: Maxdrill | Bit shank: D- DHD Bit Shank QL5- QL50 Bit Shank SD5-SD5 Bit Shank | Inch: 5" hammer |

| Decomposition | Item | Part Number | Description |
|---------------|------|-------------|-----------------------|
| | 1 | MSD1001 | Top Sub |
| | 2 | MSD1002 | "O" Ring of Top Sub |
| | 3 | MSD1003 | Breakout Ring |
| | 4 | MSD1004 | Check Valve |
| | 5 | MSD1005 | Spring |
| | 6 | MSD1006 | Air Distributor |
| | 7 | MSD1007 | Internal Cylinder |
| | 8 | MSD1008 | Piston |
| | 9 | MSD1009 | External Cylinder |
| | 10 | MSD1010 | "O" Ring of Stop Ring |
| | 11 | MSD1011 | Stop Ring |
| | 12 | MSD1012 | Guided Sleeve |
| | 13 | MSD1013 | Breakout Ring |
| | 14 | MSD1014 | Drive Chuck |
| | 15 | MSD1015 | Drill Bit |

Technical Parameters

| | |
|----------------------------|----------------------------------|
| Length(Less bit) | 1502mm |
| Weight(Less bit) | 290.00Kg |
| External Diameter | Ø225mm |
| Bit Shank | SD10 |
| Hole Range | ø 254- ø 311 |
| Connection Thread | API 4 1/2" Reg API 5 1/2" Reg |
| Working Pressure | 1.0-2.5Mpa |
| Impact Rate at 1.7Mpa | 20HZ |
| Recommended Rotation Speed | 15-25r/min |
| Air Consumption | 145-350PSI 836-1150CFM |

Product Number

MSD10

| Decomposition | Item | Part Number | Description |
|---------------|------|-------------|-----------------------|
| | 1 | MN10001 | Top Sub |
| | 2 | MN10002 | "O" Ring of Top Sub |
| | 3 | MN10003 | Breakout Ring |
| | 4 | MN10004 | Check Valve |
| | 5 | MN10005 | Spring |
| | 6 | MN10006 | Air Distributor |
| | 7 | MN10007 | Internal Cylinder |
| | 8 | MN10008 | Piston |
| | 9 | MN10009 | External Cylinder |
| | 10 | MN10010 | "O" Ring of Stop Ring |
| | 11 | MN10011 | Stop Ring |
| | 12 | MN10012 | Breakout Ring |
| | 13 | MN10013 | Drive Chuck |
| | 14 | MN10014 | Drill Bit |

Product Number

MN100

Technical Parameters

| | |
|----------------------------|---------------------------|
| Length(Less bit) | 1510mm |
| Weight(Less bit) | 288.00Kg |
| External Diameter | Ø226mm |
| Bit Shank | NUMA100 |
| Hole Range | ø 254- ø 311 |
| Connection Thread | API 6 5/8" Reg |
| Working Pressure | 1.0-2.5Mpa |
| Impact Rate at 1.7Mpa | 20HZ |
| Recommended Rotation Speed | 15-25r/min |
| Air Consumption | 145-350PSI 836-1150CFM |



High Air Pressure -Without Foot Valve DTH Hammer Code

DTH Hammer Without Foot Valve (i.e. MQL4A)

| M | QL | 4 | A/S |
|--------------------------|--|--------------------|---|
| Our Company: Maxdrill | Bit shank: D- DHD Bit Shank QL4- QL40 Bit Shank SD4-SD4 Bit Shank BR1-BR1 Bit Shank M-Mission Bit Shank N-NUMA Bit Shank | Inch: 4" hammer | A-Bit without foot valve S-Smaller size than general DTH Hammer |

| Decomposition | Item | Part Number | Description |
|---------------|------|-------------|-----------------------|
| | 1 | MSD10A01 | Top Sub |
| | 2 | MSD10A02 | "O" Ring of Top Sub |
| | 3 | MSD10A03 | Breakout Ring |
| | 4 | MSD10A04 | Check Valve |
| | 5 | MSD10A05 | Spring |
| | 6 | MSD10A06 | Air Distributor |
| | 7 | MSD10A07 | Internal Cylinder |
| | 8 | MSD10A08 | Piston |
| | 9 | MSD10A09 | External Cylinder |
| | 10 | MSD10A10 | Guided Sleeve |
| | 11 | MSD10A11 | "O" Ring of Stop Ring |
| | 12 | MSD10A12 | Stop Ring |
| | 13 | MSD10A13 | Breakout Ring |
| | 14 | MSD10A14 | Drive Chuck |
| | 15 | MSD10A15 | Drill Bit |

Product Number

MSD10A

Technical Parameters

| | |
|----------------------------|---------------------------|
| Length(Less bit) | 1525mm |
| Weight(Less bit) | 293.00Kg |
| External Diameter | Ø226mm |
| Bit Shank | SD10 |
| Hole Range | ø 254- ø 311 |
| Connection Thread | API 6 5/8" Reg |
| Working Pressure | 1.0-2.5Mpa |
| Impact Rate at 1.7Mpa | 20HZ |
| Recommended Rotation Speed | 15-25r/min |
| Air Consumption | 145-350PSI 836-1150CFM |

| Decomposition | Item | Part Number | Description |
|---------------|------|-------------|-----------------------|
| | 1 | MN100A01 | Top Sub |
| | 2 | MN100A02 | "O" Ring of Top Sub |
| | 3 | MN100A03 | Breakout Ring |
| | 4 | MN100A04 | Check Valve |
| | 5 | MN100A05 | Spring |
| | 6 | MN100A06 | Air Distributor |
| | 7 | MN100A07 | Internal Cylinder |
| | 8 | MN100A08 | Piston |
| | 9 | MN100A09 | External Cylinder |
| | 10 | MN100A10 | Guided Sleeve |
| | 11 | MN100A11 | "O" Ring of Stop Ring |
| | 12 | MN100A12 | Stop Ring |
| | 13 | MN100A13 | Breakout Ring |
| | 14 | MN100A14 | Drive Chuck |
| | 15 | MN100A15 | Drill Bit |

Product Number

MN100A

Technical Parameters

| | |
|----------------------------|----------------------------------|
| Length(Less bit) | 1545mm |
| Weight(Less bit) | 305.00Kg |
| External Diameter | Ø226mm |
| Bit Shank | NUMA100 |
| Hole Range | ø 254- ø 311 |
| Connection Thread | API 4 1/2" Reg API 5 1/2" Reg |
| Working Pressure | 1.0-2.5Mpa |
| Impact Rate at 1.7Mpa | 20HZ |
| Recommended Rotation Speed | 15-25r/min |
| Air Consumption | 145-350PSI 836-1150CFM |

Bit Face Shape Selection

Concave Face

The all-round application bit face specifically for medium hard and homogenous rock formations. Good hole deviation control and good flushing capacity.



Convex Face

For high penetration rates in soft to medium-hard with low to medium air pressures. It is the most resistance to steel wash, and may reduce the load and wear on the gauge buttons, but poor hole deviation control.



Flat Face

This kind of face shape is suitable for hard to very hard and abrasive rock formations in applications with high air pressures. Good penetration rates and resistance to steel wash.



DTH Bit Code (i.e. 150MQL50CC)

| 150 | M | QL50 | CC/CV/FF |
|------------------------|--------------------------|---|--|
| Bit Diameter: 150mm | Our company: Maxdrill | Bit Shank: QL50-QL50 Bit Shank SD5-SD5 Bit Shank M50-Misson50 Bit Shank D-DHD Bit Shank N-NUMA Bit Shank | Front Design: CC-Concave CV-Convex FF-Flat Face |

Carbide Button Shape Selection



Domed/ Round Button

Domed / Round buttons are usually used as gauge buttons of DTH Bits, suitable for very abrasive and very hard formations.



Parabolic/Semi-Ballistic Button

Parabolic buttons are usually used as gauge buttons and front buttons of DTH Bits, suitable for medium abrasive and hard formations.



Ballistic Button

Ballistic buttons are usually used as front buttons of DTH Bits, suitable for medium abrasive and medium hard formations. They can also be used as gauge buttons if the rock is soft.



Sharp Button

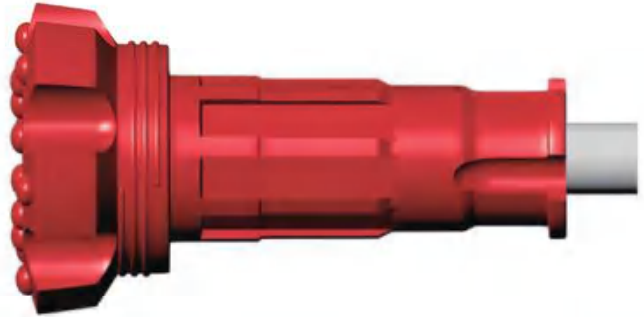
Sharp buttons are usually used as front buttons of DTH Bits for soft formations where fast penetration rates are possible and button breakage is minimal.

SD10



| Face | Diameter | | Part No. | No. x Button (mm) | | | Flushing holes | Weight |
|---------|----------|--------|------------|-----------------------|---|-----------------------|----------------|--------|
| | Dia. | Inch | | Outer | Inner | Front | | kg |
| Concave | 254 | 10 | 254MSD10CC | 12 x \varnothing 19 | 6x \varnothing 19+6x \varnothing 18 | 10 x \varnothing 16 | 3 | 84 |
| | 270 | 10 5/8 | 270MSD10CC | 12 x \varnothing 19 | 9x \varnothing 19+6x \varnothing 18 | 8 x \varnothing 16 | 3 | 89 |
| | 279 | 11 | 279MSD10CC | 12 x \varnothing 19 | 9x \varnothing 19+6x \varnothing 18 | 9 x \varnothing 16 | 3 | 91 |
| | 305 | 12 | 305MSD10CC | 12 x \varnothing 19 | 15 x \varnothing 19 | 12 x \varnothing 16 | 3 | 112 |

NUMA100



| Face | Diameter | | Part No. | No. x Button (mm) | | | Flushing holes | Weight kg |
|---------|----------|--------|------------|-------------------|---------------------------------|-------------------|----------------|--------------|
| | Dia. | Inch | | Outer | Inner | Front | | |
| Concave | 254 | 10 | 254MN100CC | 12 x φ 19 | 6x φ 19+6x φ 18 | 10 x φ 16 | 3 | 89 |
| | 270 | 10 5/8 | 270MN100CC | 12 x φ 19 | 9x φ 19+6x φ 18 | 8 x φ 16 | 3 | 94 |
| | 279 | 11 | 279MN100CC | 12 x φ 19 | 9x φ 19+6x φ 18 | 9 x φ 16 | 3 | 96 |
| | 305 | 12 | 305MN100CC | 12 x φ 19 | 15 x φ 19 | 12 x φ 16 | 3 | 107 |

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