



DTH Drilling Equipment

KEMAICO USA CORPORATION



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

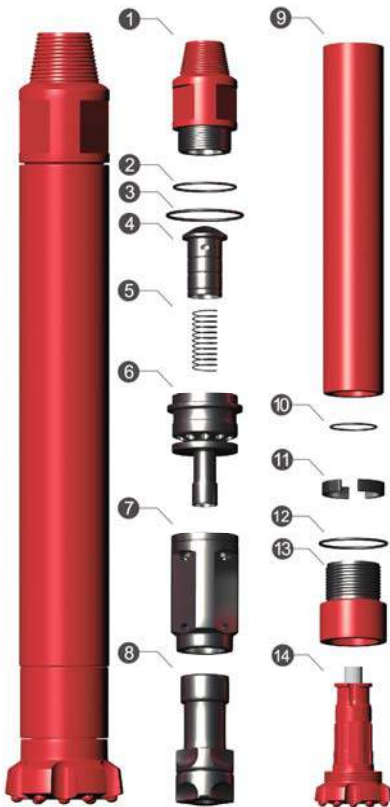
Technical Parameters

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
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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

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

Product Number

MN100



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

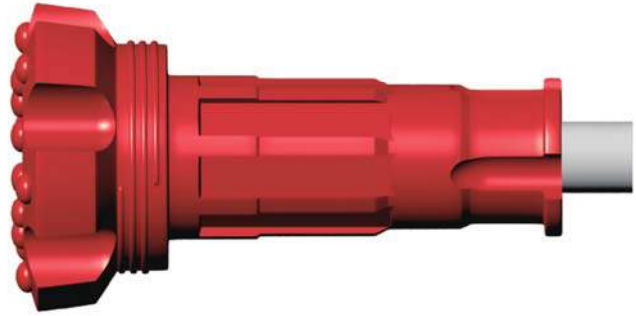
Ballistic buttons are usually used as front buttons of DTH Bits, suitable for medium abrasive and medium hard formations. They can also be used as gauge buttons if the rock is soft.



Sharp Button

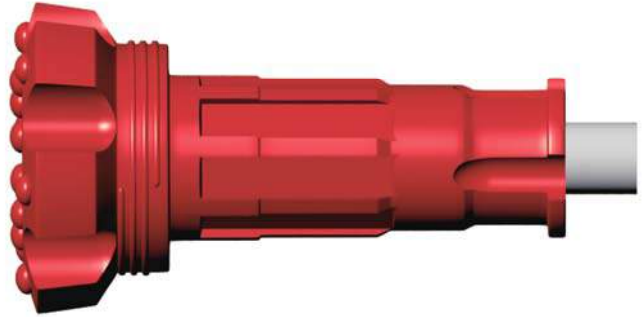
Sharp buttons are usually used as front buttons of DTH Bits for soft formations where fast penetration rates are possible and button breakage is minimal.

SD10



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



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