



Down The Hole Hammer & Bit

6"



The Characteristics Of High Air Pressure DTH Hammer -with foot valve

It is a kind of valveless high air pressure DTH Hammer with foot valve

It has the following characteristics:

- ◆ Valveless air distribution. More reliable.
- ◆ Simple design of the piston, long life.
- ◆ More efficient energy transfer, faster drilling speed,
lower air consumption and lower oil consumption.
- ◆ Fewer internal parts, simple structure, longer life,
Less failure and easier to maintain because all the parts are heat treated.
- ◆ Easy to disassemble because the top sub, the drive chuck and the
external cylinder are connected by multistep thread .

Explanation of High Air Pressure DTH Hammer -With Foot Valve Code

Example One:MD55

M—Maxdrill (Our company name)

D—DHD Bit Shank

5—5"hammer

5—The Fifth Generation Hammer

Example Two:MQL4

M— Maxdrill (Our company name)

QL4—QL40 Bit Shank

MD65 DTH HAMMER

High Air Pressure with foot valve DTH Hammers



	Item Description	Weight (Kg)	Part Number
1	Top Sub	20.00	MD6501
2	"O" Ring of Top Sub	0.02	MD6502
3	Check Valve	1.00	MD6503
4	Spring	0.04	MD6504
5	Compression Buffer	0.08	MD6505
6	Air Distributor	5.00	MD6506
7	Internal Cylinder	5.00	MD6507
8	Piston	23.60	MD6508
9	External Cylinder	36.80	MD6509
10	Guided Sleeve	2.40	MD6510
11	"O" Ring of Stop Ring	0.02	MD6511
12	Stop Ring	0.60	MD6512
13	Drive Chuck	6.00	MD6513
14	Drill Bit		MD6514

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1248mm	100.00Kg	ø142mm	Cop64 DHD360	ø155-ø190	API 3 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed		Air Consumption	
				145-350PSI	
1.0-2.5Mpa	23HZ	20-30r/min		600-836CFM	

Detailed air consumption can be seen in appendix, P73

MSD6 DTH HAMMER

High Air Pressure with foot valve DTH Hammers



Item Description		Weight (Kg)	Part Number
1	Top Sub	20.00	MSD601
2	"O" Ring of Top Sub	0.01	MSD602
3	Check Valve	1.00	MSD603
4	Spring	0.05	MSD604
5	Compression Buffer	0.10	MSD605
6	Air Distributor	5.00	MSD606
7	Internal Cylinder	5.00	MSD607
8	Piston	24.00	MSD608
9	External Cylinder	35.00	MSD609
10	"O" Ring of Stop Ring	0.01	MSD610
11	Stop Ring	0.50	MSD611
12	Guided Sleeve	1.50	MSD612
13	Drive Chuck	7.50	MSD613
14	Drill Bit		MSD614

According to your request,the top sub can be made into two spanners,and put protection buttons.An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1261mm	100.00Kg	ø142mm	SD6	ø155-ø190	API 3 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed		Air Consumption	
				145-350PSI	
1.0-2.5Mpa	23HZ	20-30r/min		600-836CFM	

Detailed air consumption can be seen in appendix,P73

MQL6 DTH HAMMER

High Air Pressure with foot valve DTH Hammers



Item Description

Weight (Kg)

Part Number

1	Top Sub	20.00	MQL601
2	"O" Ring of Top Sub	0.02	MQL602
3	Check Valve	1.00	MQL603
4	Spring	0.10	MQL604
5	Compression Buffer	0.10	MQL605
6	Air Distributor	6.00	MQL606
7	Internal Cylinder	5.00	MQL607
8	Piston	23.50	MQL608
9	External Cylinder	31.00	MQL609
10	Guided Sleeve	1.00	MQL610
11	"O" Ring of Stop Ring	0.02	MQL611
12	Stop Ring	0.60	MQL612
13	Drive Chuck	5.40	MQL613
14	Drill Bit		MQL614

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Data

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1212mm	95.00Kg	ø148mm	QL60	ø155-ø190	API 3 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed		Air Consumption	
1.0-2.5Mpa	23HZ			145-350PSI	
		20-30r/min		600-836CFM	

Detailed air consumption can be seen in appendix, P73

The Characteristics Of High Air Pressure

-without foot valve DTH Hammers

It is a kind of high air pressure DTH Hammer without foot valve,our newest design.It is also one of the most advanced DTH Hammers in the word.

It has the following characteristics:

- ◆ Out of the trouble of foot valve fracture and expansion and contraction.
- ◆ Lower energy consumption and higher impact frequency.
- ◆ The drilling speed is 15%-30% higher than the same type with the valve
- ◆ Simple structure ,reliable parts, long life , easy and cheap maintenance.
- ◆ Lower air and oil consumption. The oil consumption is about 10% lower than the one with foot valve.

Explanation of high Air Pressure

-without foot valve DTH Hammer Code

Example One:MD55A

M—Kemaico (Our company name)

D—DHD Bit Shank

5—5"hammer

5—The Fifth Generation Hammer

A—Bit without foot valve

Example Two:MQL4A

M— Kemaico (Our company name)

QL4—QL40 Bit Shank

A—Bit without foot valve

S—Smaller size than general DTH Hammer

MD65A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



	Item Description	Weight (Kg)	Part Number
1	Top Sub	21.00	MD65A01
2	"O" Ring of Top Sub	0.02	MD65A02
3	Check Valve	0.70	MD65A03
4	Spring	0.10	MD65A04
5	Air Distributor	3.50	MD65A05
6	Internal Cylinder	4.50	MD65A06
7	Piston	24.00	MD65A07
8	External Cylinder	32.00	MD65A08
9	Guided Sleeve	7.00	MD65A09
10	"O" Ring of Stop Ring	0.01	MD65A10
11	Stop Ring	0.60	MD65A11
12	Drive Chuck	6.50	MD65A12
13	Drill Bit		MD65A13

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Data

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1238mm	99.00Kg	ø148mm	Cop64 DHD360	ø155-ø203	API 3 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed		Air Consumption	
				145-350PSI	
1.0-2.5Mpa	23HZ	20-30r/min		600-836CFM	

Detailed air consumption can be seen in appendix, P73

MM6A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



Item Description		Weight (Kg)	Part Number
1	Top Sub	21.00	MM6A01
2	"O" Ring of Top Sub	0.015	MM6A02
3	Check Valve	0.70	MM6A03
4	Spring	0.10	MM6A04
5	Air Distributor	4.00	MM6A05
6	Internal Cylinder	4.00	MM6A06
7	Piston	24.00	MM6A07
8	External Cylinder	29.00	MM6A08
9	Guided Sleeve	5.00	MM6A09
10	"O" Ring of Stop Ring	0.01	MM6A10
11	Stop Ring	1.00	MM6A11
12	Drive Chuck	6.00	MM6A12
13	Drill Bit		MM6A13

According to your request,the top sub can be made into two spanners,and put protection buttons.An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1161mm	94.00Kg	ø146mm	Mission60A	ø155-ø203	API 3 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed		Air Consumption	
				145-350PSI	
1.0-2.5Mpa	23HZ	20-30r/min		600-836CFM	

Detailed air consumption can be seen in appendix,P73

MSD6A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



	Item Description	Weight (Kg)	Part Number
1	Top Sub	21.00	MSD6A01
2	"O" Ring of Top Sub	0.015	MSD6A02
3	Check Valve	0.70	MSD6A03
4	Spring	0.10	MSD6A04
5	Air Distributor	3.50	MSD6A05
6	Internal Cylinder	4.20	MSD6A06
7	Piston	24.00	MSD6A07
8	External Cylinder	30.00	MSD6A08
9	Guided Sleeve	2.50	MSD6A09
10	"O" Ring of Stop Ring	0.01	MSD6A10
11	Stop Ring	0.50	MSD6A11
12	Drive Chuck	7.50	MSD6A12
13	Drill Bit		MSD6A13

According to your request, the top sub can be made into two spanners, and put protection buttons. An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Data

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1182mm	94.00Kg	ø146mm	SD6	ø155-ø203	API 3 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed		Air Consumption	
				145-350PSI	
1.0-2.5Mpa	23HZ	20-30r/min		600-836CFM	

Detailed air consumption can be seen in appendix, P73

MQL6A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



Item Description		Weight (Kg)	Part Number
1	Top Sub	21.00	MQL6A01
2	"O" Ring of Top Sub	0.015	MQL6A02
3	Check Valve	0.70	MQL6A03
4	Spring	0.10	MQL6A04
5	Air Distributor	4.00	MQL6A05
6	Internal Cylinder	5.00	MQL6A06
7	Piston	24.00	MQL6A07
8	External Cylinder	30.00	MQL6A08
9	Guided Sleeve	4.00	MQL6A09
10	"O" Ring of Stop Ring	0.01	MQL6A10
11	Stop Ring	0.60	MQL6A11
12	Drive Chuck	7.50	MQL6A12
13	Drill Bit		MQL6A13

According to your request,the top sub can be made into two spanners,and put protection buttons.An air controlling hole can be drilled on the check valve to provide more efficient cuttings discharge.

Technical Date

Length(Less bit)	Weight(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1183mm	96.50Kg	ø148mm	QL60	ø155-ø203	API 3 1/2" Reg
Working Pressure	Impact Rate At 1.7Mpa	Recommended Rotation Speed		Air Consumption	
				145-350PSI	
1.0-2.5Mpa	23HZ	20-30r/min		600-836CFM	

Detailed air consumption can be seen in appendix,P73

"Globe Drilling Industry Experts"

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