



Down The Hole Hammer & Bit 5"



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

MD55 DTH HAMMER

High Air Pressure with foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	15.00	MD5501
2 "O" Ring of Top Sub	0.01	MD5502
3 Check Valve	1.00	MD5503
4 Spring	0.04	MD5504
5 Compression Buffer	0.06	MD5505
6 Air Distributor	5.00	MD5506
7 Internal Cylinder	4.00	MD5507
8 Piston	16.00	MD5508
9 External Cylinder	30.00	MD5509
10 "O" Ring of Stop Ring	0.01	MD5510
11 Stop Ring	0.30	MD5511
12 Drive Chuck	7.00	MD5512
13 Drill Bit		MD5513

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
1214mm	79.00Kg	ø125mm	Cop54 DHD350R	ø135-ø155	API 2 3/8" Reg 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

MSD5 DTH HAMMER

High Air Pressure with foot valve DTH Hammers



	Item Description	Weight (Kg)	Part Number
1	Top Sub	15.00	MSD501
2	"O" Ring of Top Sub	0.01	MSD502
3	Check Valve	1.00	MSD503
4	Spring	0.10	MSD504
5	Compression Buffer	0.05	MSD505
6	Air Distributor	3.50	MSD506
7	Internal Cylinder	4.20	MSD507
8	Piston	15.50	MSD508
9	External Cylinder	25.00	MSD509
10	"O" Ring of Stop Ring	0.01	MSD510
11	Stop Ring	0.50	MSD511
12	Drive Chuck	7.50	MSD512
13	Drill Bit		MSD513

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
1175mm	72.50Kg	ø125mm	SD5	ø135-ø155	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

MQL5 DTH HAMMER

High Air Pressure with foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	15.00	MQL501
2 "O" Ring of Top Sub	0.02	MQL502
3 Check Valve	1.00	MQL503
4 Spring	0.10	MQL504
5 Compression Buffer	0.10	MQL505
6 Air Distributor	3.50	MQL506
7 Internal Cylinder	4.20	MQL507
8 Piston	19.00	MQL508
9 External Cylinder	24.60	MQL509
10 Guided Sleeve	0.90	MQL510
11 "O" Ring of Stop Ring	0.01	MQL511
12 Stop Ring	0.40	MQL512
13 Drive Chuck	4.60	MQL513
14 Drill Bit		MQL514

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
1156mm	73.00Kg	ø125mm	QL50	ø135-ø155	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

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

MD55A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	15.00	MD55A01
2 "O" Ring of Top Sub	0.015	MD55A02
3 Check Valve	0.70	MD55A03
4 Spring	0.10	MD55A04
5 Air Distributor	2.00	MD55A05
6 Internal Cylinder	2.80	MD55A06
7 Piston	15.00	MD55A07
8 External Cylinder	24.00	MD55A08
9 Guided Sleeve	2.60	MD55A09
10 "O" Ring of Stop Ring	0.01	MD55A10
11 Stop Ring	0.50	MD55A11
12 Drive Chuck	7.00	MD55A12
13 Drill Bit		MD55A13

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
1110mm	69.00Kg	ø125mm	Cop54 DHD350R	ø135-ø155	API 2 3/8" Reg 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

MD55S DTH HAMMER

High Air Pressure without foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	10.00	MD55S01
2 "O" Ring of Top Sub	0.015	MD55S02
3 Check Valve	0.70	MD55S03
4 Spring	0.10	MD55S04
5 Air Distributor	2.00	MD55S05
6 Internal Cylinder	3.50	MD55S06
7 Piston	11.00	MD55S07
8 External Cylinder	21.00	MD55S08
9 Guided Sleeve	2.00	MD55S09
10 "O" Ring of Stop Ring	0.01	MD55S10
11 Stop Ring	0.50	MD55S11
12 Drive Chuck	5.00	MD55S12
13 Drill Bit		MD55S13

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
1110mm	56.00Kg	ø116mm	Cop54 DHD350R	ø127-ø145	API 2 3/8" Reg 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

MM5A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



	Item Description	Weight (Kg)	Part Number
1	Top Sub	15.00	MM5A01
2	"O" Ring of Top Sub	0.02	MM5A02
3	Check Valve	0.70	MM5A03
4	Spring	0.10	MM5A04
5	Air Distributor	2.00	MM5A05
6	Internal Cylinder	3.50	MM5A06
7	Piston	15.00	MM5A07
8	External Cylinder	24.00	MM5A08
9	Guided Sleeve	3.00	MM5A09
10	"O" Ring of Stop Ring	0.01	MM5A10
11	Stop Ring	0.70	MM5A11
12	Drive Chuck	7.00	MM5A12
13	Drill Bit		MM5A13

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
1110mm	73Kg	ø125mm	Mission50A	ø135-ø155	API 2 3/8" Reg 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

MSD5A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	15.00	MSD5A01
2 "O" Ring of Top Sub	0.010	MSD5A02
3 Check Valve	0.35	MSD5A03
4 Spring	0.05	MSD5A04
5 Air Distributor	2.00	MSD5A05
6 Internal Cylinder	2.70	MSD5A06
7 Piston	15.00	MSD5A07
8 External Cylinder	25.00	MSD5A08
9 Guided Sleeve	1.30	MSD5A09
10 "O" Ring of Stop Ring	0.005	MSD5A10
11 Stop Ring	0.20	MSD5A11
12 Drive Chuck	8.00	MSD5A12
13 Drill Bit		MSD5A13

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
1090mm	70.00Kg	ø125mm	SD5	ø135-ø155	API 2 3/8" Reg 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

MQL5A DTH HAMMER

High Air Pressure without foot valve DTH Hammers



Item Description	Weight (Kg)	Part Number
1 Top Sub	15.00	MQL5A01
2 "O" Ring of Top Sub	0.015	MQL5A02
3 Check Valve	0.70	MQL5A03
4 Spring	0.10	MQL5A04
5 Air Distributor	2.00	MQL5A05
6 Internal Cylinder	2.70	MQL5A06
7 Piston	15.00	MQL5A07
8 External Cylinder	24.00	MQL5A08
9 Guided Sleeve	3.00	MQL5A09
10 "O" Ring of Stop Ring	0.01	MQL5A10
11 Stop Ring	0.40	MQL5A11
12 Drive Chuck	5.00	MQL5A12
13 Drill Bit		MQL5A13

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
1090mm	67.00Kg	ø125mm	QL50	ø135-ø155	API 2 3/8" Reg 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

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