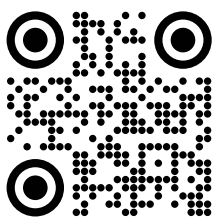




DTH HAMMERS & BITS

DRILLING COMPONENTS & CONSUMABLES



WELCOME



COMPANY OVERVIEW

With over two decades of expertise, Mammoth Technologies proudly stands as a distinguished Design and Manufacturing Corporation specializing in the Mining sector, with a strong emphasis on the Drilling industry, solidifying our robust global presence.

Our product development journey has been profoundly influenced by insights gathered from our global clients' requirements, needs, and challenges. This has inspired us to create a range of durable, cost-effective solutions tailored for different sectors of the mining industry. Our products are designed to enhance safety, streamline operations, and reduce costs.

We aim to build lasting, beneficial relationships that focus on our clients' needs, which in turn keeps our business thriving.

4" QL40 - HEAVY DUTY HAMMER

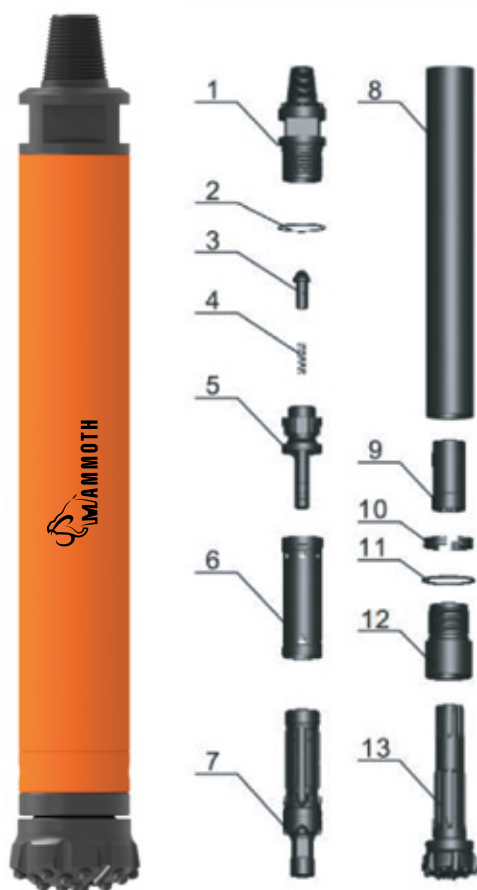
QL40 – HAMMER

High Air Pressure DTH Hammers
without foot valve

Item Description

Weight
(Kg)

Part Number



1	Top Sub	7.00	MT-QL40-01
2	"O"Ring of Top Sub	0.01	MT-QL40-02
3	Check Valve	0.42	MT-QL40-03
4	Spring	0.06	MT-QL40-04
5	Air Distributor	1.20	MT-QL40-05
6	Internal Cylinder	1.80	MT-QL40-06
7	Piston	8.50	MT-QL40-07
8	External Cylinder	14.8	MT-QL40-08
9	Guide Sleeve	1.80	MT-QL40-09
10	Stop Ring	0.30	MT-QL40-10
11	"O" Ring of Stop	0.01	MT-QL40-11
12	Drive Chuck	3.40	MT-QL40-12
13	Drill Bit		MT-QL40-13

Technical Data

Length(Less bit)	Weigh(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread	
985 mm	39.3kg	Φ99mm	QL40	Φ105-Φ130mm	API 2 3/28”REG	
Working Air Pressure	Impact rate at 1.7Mpa	Recommended rotation speed	Air Consumption			
			14Bar	17.2Bar	20.7Bar	24Bar
14-39Bar	35HZ	30-70rpm	6.5	8.8	11.00	15.5

5" QL50 – HEAVY DUTY HAMMER

QL50 - HAMMER

High Air Pressure DTH Hammers without foot valve		Item Description	Weight (Kg)	Part Number
	1	Top Sub	16.5	MT-QL50-01
	2	"O"Ring of Top Sub	0.01	MT-QL50-02
	3	"O"Ring of Top Sub	0.01	MT-QL50-03
	4	Check Valve	0.20	MT-QL50-04
	5	Spring	0.05	MT-QL50-05
	6	Base of Check Valve	0.60	MT-QL50-06
	7	Pin	0.20	MT-QL50-07
	8	Plunger	0.05	MT-QL50-08
	9	Air Distributor	1.20	MT-QL50-09
	10	Piston	12.95	MT-QL50-10
	11	External Cylinder	23.2	MT-QL50-11
	12	Guide Sleeve	3.1	MT-QL50-12
	13	Retainer Ring	0.05	MT-QL50-13
	14	"O"Ring of Top Sub	0.01	MT-QL50-14
	15	Stop Ring	0.60	MT-QL50-15
	16	Breakout ring - drive chuck	0.50	MT-QL50-16
	17	Drive Chuck	5.50	MT-QL50-17
	18	Drill Bit		MT-QL50-18

Technical Data

Length(Less bit)	Weigth(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1040mm	65kg	Φ126.5mm	QL50	Φ135-Φ152mm	API 3 1/2 "REG
Working Air Pressure	Impact rate at 1.7Mpa	Recommended rotation speed	Air Consumption		
			300-350(PSI)		
10-25Bar	32HZ	25-50rpm	600-800(CFM)		

6" QL60 – HEAVY DUTY HAMMER

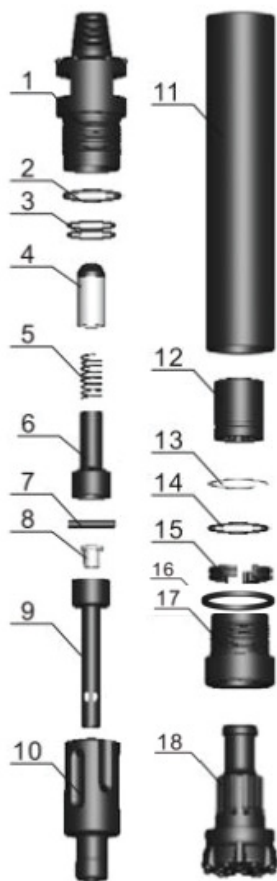
QL60 - HAMMER

High Air Pressure DTH Hammers
without foot valve

Item Description

Weight
(Kg)

Part Number



1	Top Sub	19.0	MT-QL60-01
2	"O"Ring of Top Sub	0.01	MT-QL60-02
3	"O"Ring of Top Sub	0.01	MT-QL60-03
4	Check Valve	0.25	MT-QL60-04
5	Spring	0.05	MT-QL60-05
6	Base of Check Valve	0.60	MT-QL60-06
7	Pin	0.20	MT-QL60-07
8	Plunger	0.05	MT-QL60-08
9	Air Distributor	1.35	MT-QL60-09
10	Piston	18.8	MT-QL60-10
11	External Cylinder	32.3	MT-QL60-11
12	Guide Sleeve	6.30	MT-QL60-12
13	Retainer Ring	0.10	MT-QL60-13
14	"O"Ring of Top Sub	0.01	MT-QL60-14
15	Stop Ring	1.00	MT-QL60-15
16	Breakout ring - drive chuck	0.50	MT-QL60-16
17	Drive Chuck	6.40	MT-QL60-17
18	Drill Bit		MT-QL60-18

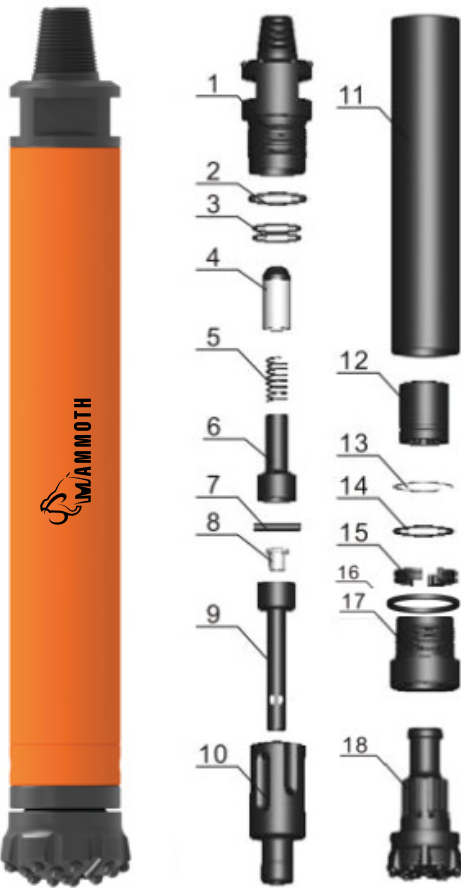
Technical Data

Length(Less bit)	Weigth(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread
1030mm	87kg	Φ148 mm	QL60	Φ165-Φ203mm	API 3 1/2 "REG
Working Air Pressure	Impact rate at 1.7Mpa	Recommended rotation speed	Air Consumption		
			300-350(PSI)		
10-25Bar	30HZ	25-50rpm	600-900(CFM)		

8" QL80 HEAVY DUTY HAMMER

QL80 -HAMMER

High Air Pressure DTH Hammers without foot valve		Item Description	Weight (Kg)	Part Number
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1	Top Sub	35.2	MT-QL80-01
2	"O"Ring of Top Sub	0.02	MT-QL80-02
3	"O"Ring of Top Sub	0.01	MT-QL80-03
4	Check Valve	0.90	MT-QL80-04
5	Spring	0.20	MT-QL80-05
6	Base of Check Valve	1.10	MT-QL80-06
7	Pin	0.30	MT-QL80-07
8	Plunger	0.05	MT-QL80-08
9	Air Distributor	2.80	MT-QL80-09
10	Piston	44.0	MT-QL80-10
11	External Cylinder	65.4	MT-QL80-11
12	Guide Sleeve	11.2	MT-QL80-12
13	Retainer Ring	0.20	MT-QL80-13
14	"O"Ring of Top Sub	0.02	MT-QL80-14
15	Stop Ring	13.9	MT-QL80-15
16	Breakout ring - drive chuck	0.30	MT-QL80-16
17	Drive Chuck	13.6	MT-QL80-17
18	Drill Bit		MT-QL80-18

Technical Data

Length(Less bit)	Weigh(Less bit)	External Diameter	Bit Shank	Hole Range	Connection Thread	
1307mm	189.2kg	Φ185 mm	QL80	Φ195-Φ305mm	API 3 1/2 "REG	
Working Air Pressure	Impact rate at 1.7Mpa	Recommended rotation speed	Air Consumption			
			14Bar	17.2Bar	20.7Bar	24Bar
14-30Bar	25HZ	20-45rpm	16.60	21.80	27.44	34.88

DRILL BIT GUIDE

Selecting the correct drill bit face and button profile is essential for maximizing drilling performance, penetration, and bit life. Different face designs are suited to specific ground conditions: Drop Center improves centering, Concave increases penetration, Flat Face provides balanced performance, Double Gauge enhances hole straightness, and Convex offers greater durability in fractured or softer rock.

Button profiles also influence drilling efficiency, with Domed for durability, Parabolic for balanced performance, Ballistic for maximum penetration in hard rock, and Sharp/Conical for faster drilling in softer formations. Choosing the right combination improves productivity, reduces operating costs, increases hole accuracy, and extends drill bit life.

DRILL BIT FACES

				
DROP CENTER BIT	CONCAVE FACE	FLAT FACE BIT	DOUBLE GAUGE FACE	CONVEX FACE
The center is lower than the surrounding buttons to improve penetration and prevent the bit from walking	The concave shape helps concentrate impact energy at the center for faster penetration.	A flat working face provides balanced impact distribution and is suitable for general drilling.	Two Gauge buttons improve hole straightness and reduce deviation in hard and abrasive formations.	The convex shape increases surface strength and is ideal for drilling fractured or soft formations.

DRILL BIT BUTTON SHAPE

			
DOME/SPHERICAL BUTTON	BALLISTIC BUTTON	PARABOLICAL BUTTON	CONICAL BUTTON
General purpose shape with good durability and impact resistance for most drilling conditions.	Good balance between penetration and durability, widely used in medium to hard rock drilling applications.	Designed for maximum penetration with less friction, ideal for hard, compact rock formations.	High penetration and accuracy in soft to medium formation, less durable in abrasive rock.



TECHNOLOGIES

Specialising in the design & development and manufacturing of advanced drilling equipment within the mining industry.



GLOBAL

Manufacturers and Refurbishers of hydraulic cylinders. Petrochemical related installations and Waste Oil Recovery.



PROFAB

Specialists in design, development, Laser, Profile, Cutting & Bending, Countersinking and fabrication.



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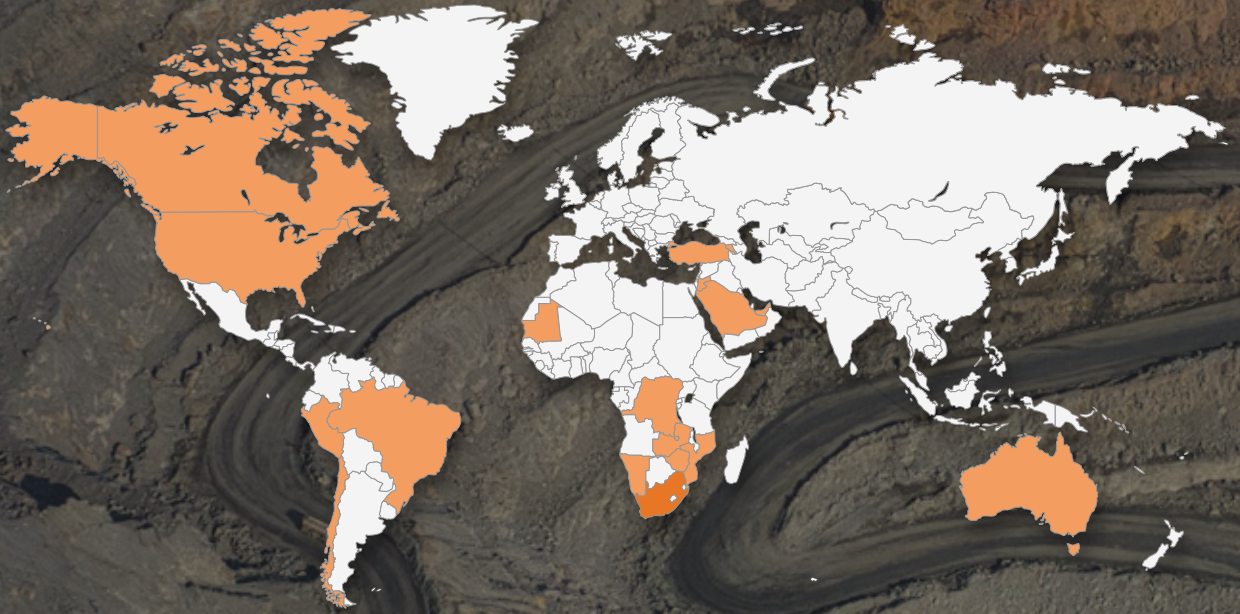


B-BBEE
LEVEL
CONTRIBUTOR 2





MAMMOTH FOOTPRINT



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