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# **DTH Tools**

SHAREATE TOOLS LTD.



Shareate Tools Ltd., located in Suzhou Industrial Park,is a company engaged in the R&D and manufacturing of cemented carbide products and rock drilling tools. It has two major manufacturing bases in Qianjiang and Suzhou, fitted with advanced producing and testing equipment, It is a research and development and manufacturing base of cemented carbide and rock drilling tools with leading technology level and continuously increasing scale in China. Shareate was officially listed on the Sci-tech Innovation Board of the Shanghai Stock Exchange (stock code "688257").

Shareate has strong scientific and technological innovation capabilities, and has formed a system of

independent intellectual property rights and technologies. Up to now, Shareate has obtained 42 invention patents and 125 utility model patents. The company has passed the double certification of API and ISO9001. At present, it has won the "National High-tech Enterprise", "National Specialized Special New Little Giant", "Jiangsu Enterprise Technology Center", "Jiangsu Province High-efficiency Rock Drilling Tool Engineering Technology Research Center", "Jiangsu Province Postdoctoral Innovation Practice Base", "Jiangsu Province Enterprise Graduate Workstation", "Jiangsu Province Specialized, Special and New Little Giant", "Jiangsu Province Integration of Industrialization and Industrialization Demonstration Enterprise", "Jiangsu Boutique Brand Certification Enterprise",

"Jiangsu Private Technology Enterprise", "Suzhou Industrial Design Center", "Suzhou Gazelle Enterprise", "Suzhou Manufacturing Brand Certification Enterprise", "Suzhou Industrial Park Technology Leading Talent Enterprise", "Suzhou Industrial Park Demonstration Intelligent Workshop"... The products have obtained the titles of "Jiangsu High-tech Products", "Jiangsu High-quality Products", "Suzhou Famous Brand Products", "Made in Suzhou" and the certificates of "National Standard Qualified Unit, Quality Tracking Key Protection Product",

The company adopts advanced flexible manufacturing system and builds a flexible production line with CNC machining center as the main body, laying a solid

foundation for manufacturing first-class quality products.

The company's main products include: cemented carbide products such as cemented carbide for oil drilling, cemented carbide for mining, matrix for diamond composite chip, nozzle for oil drilling bit, and rock drilling products such as tricone bits, single roller bits, trenchless drilling bits, roller cutters, DTH hammer, hammer bits, etc. Our products are exported to South Korea, the United States, Canada, Australia, South America, Russia and more than 40 countries and regions, highly liked and praised by the customers at home and abroad.

## **PRODUCTION EQUIPMENT**



Advanced production equipment and strict quality control is one of the guarantees for us to provide high-quality products.

## **PRODUCT DESCRIPTION**

Our Strategy is to make the customer the focal point of everything we do, meet and exceed the expectations of our customers by offering quality products, services, and solutions at maximum value and by pursuing a philosophy of Continuous Improvement. We continually strive to give customers the best products to enable them to achieve the highest productivity possible for their investment



SHAREATE SHAREATE TOOLS LTD.	SD45A/SQ45A D	TH HAM	1MER	High Air Pressu	re With	Foot	Valve DTH	Hammers
		Item	Ito	em Description		Pa	rt No .	Weight (Kg)
	10_10_	1		Top subs		D4	15A01	7.80
		2		O-Ring		D4	15A02	0.02
2		3		Check valve		D4	15A05	0.50
3		4		Spring		D45A07		0.10
4		5		Air Distributor		D4	15A11	1.50
5	- 1	6		O-Ring		D4	15A12	0.02
<u> </u>	8	7		nner Cylinder		D4	15A13	1.10
		8	Pis	ston retainer ring		D4	15A16	0.10
2	1-60-1	9		Piston		D45A14		8.30
Se ca	13	10		Piston case		D45A03		14.00
	14	11		Guide sleeve		D4	15A17	1.10
	15	12		O-Ring		D4	15A18	0.02
9		13	Bit Retaining Ring			D <sup>2</sup>	15A19	0.30
	16	14		Chuck		D45A20		4.10
		15		Foot valve				0.05
_	.—i i	16		Bit				8.50
		Techni	cal Param	eter				
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	e Diameter	Bit Shank Type	Hole R	lange	Backhea	nd Thread
983mm	39.00Kg	ф 1	00mm	SD4/SQ4	φ 105·	-135	API 2	.3/ <sub>8</sub> Reg
Morly Drocours	Impact Rate At		Dotation	Speed		Air	consumpti	on
Work Pressure 1.7MPa		Rotation Speed			1.0MPa		1.8MPa	2.4MPa
1.0-2.5MPa	28Hz	25-40r/min 6m³/min 9.2m³/n				9.2m³/min	14.5m³/min	
Note: SD	4 or DHD340A bits for	SD45A h	nammers. S	6Q4 or QL40 bits fo	or SQ45	5A hai	mmers.	

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SH////REATE SHAREATE TOOLS LTD.	SF45B/SM45B D	TH HAM	IMER	High Air Pressure	e Witho	ut Foc	ot Valve D	ΓΗ Hammers
	F7	Item	lte	em Description		Pa	rt No .	Weight (Kg)
		1		Top subs		F4	5B01	6.70
		2	2 O-Ring			F45B02		0.02
	<b>&gt;</b> -	3		Check valve		F4	5B05	0.50
4		4		Spring		F4	5B07	0.10
5		5	,	Air Distributor		F4	5B11	1.10
		6		Inner Cylinder		F4	5B13	1.70
	10	7	Piston			F45B14		8.30
		8	Piston case			F4	5B03	15.00
	12	9	Guide sleeve			F4	15B17	1.20
7		10	O-Ring			F45B18		0.02
		11	Bit Retaining Ring			F45B19		0.20
		12		Chuck	F45B20			3.60
_		13		Bit				8.50
		Techni	cal Param	eter				
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	e Diameter	Bit Shank Type	Hole R	lange	Backhe	ead Thread
985mm	38.50Kg	φ (	99mm	SD4/SM4	ф115	-133	API	2³/ <sub>8</sub> Reg
Work Pressure Impact Rate At			Rotation	n Speed		Air	consump	tion
	1.7MPa				1.0MPa		1.8MPa	2.4MPa
1.0-2.5MPa	30Hz		70-90	r/min	5m³/	min	8m³/min	13m³/min
Note: SD4 o	r DHD340A bits for SF	45B har	mmers. SM	4 or Mission 4 bits	for SM	45B h	ammers.	

SH/MREATE SHAREATE TOOLS LTD.	SD55A/SQ55A [	OTH HAN	MER	High Air Pressu	re With	Foot	Valve DTH	Hammers
		Item	lt	em Description		Pa	art No .	Weight (Kg)
	10	1		Top subs		D!	55A01	12.00
		2		O-Ring		D!	55A02	0.02
2		3		Check valve		D!	55A05	0.50
3	>-	4		Spring		D!	55A07	0.01
4		5		Air Distributor		D:	55A11	3.00
5	<b>)</b> - 1	6		O-Ring		D:	55A12	0.02
_ 0		7		Inner Cylinder		D:	55A13	2.50
		8	Pi	ston retainer ring		D!	55A16	0.15
7	1-6-1	9		Piston		D!	55A14	18.00
le c	13	10		Piston case		D!	55A03	26.50
	14	11		Guide sleeve		D!	55A17	0.15
F	15.	12		O-Ring		D!	55A18	0.02
9		13	Bit Retaining Ring			D55A19		0.08
		14		Chuck		D55A20		8.00
		15		Foot valve				0.08
		16		Bit				16.00
		Techni	cal Param	eter				
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	e Diameter	Bit Shank Type	Hole R	ange	Backhea	ad Thread
1114mm	71.00Kg	ф 1	26mm	SD5/SQ5	ф 138 <sup>-</sup>	-152	API 2	2 <sup>3</sup> / <sub>8</sub> Reg
	Impact Rate At		5.1.1			Air	consumpti	ion
Work Pressure 1.7MPa		Rotation Speed			1.0MPa		1.8MPa	2.4MPa
1.0−2.5MPa	26Hz		40-60	r/min	8.5m <sup>3</sup>	8.5m³/min 15.5m³/min 20.5m³		
Note: SD	5 or DHD350R bits for	SD55A h	ammers. S	Q5 or QL50 bits fo	or SQ55	ōA haı	mmers.	

SHAREATE SHAREATE TOOLS LTD.	SF55B/SM55B D	ТН НАМ	IMER	High Air Pressure	e Withou	ut Foo	ot Valve DTH	H Hammers
		Item	Ite	em Description		Pa	rt No .	Weight (Kg)
		1		Top subs		F5	55B01	11.70
		2		O-Ring		F55B02		0.02
2		3		Check valve		F55B05		0.50
3	>-1	4		Spring		F5	55B07	0.01
5		5		Air Distributor		F5	55B11	2.00
		6		Inner Cylinder		F5	55B13	2.80
	9	7 Piston				F55B14		15.20
		8		Piston case			55B03	26.50
	12	9		Guide sleeve			55B17	2.60
		10	O-Ring			F5	55B18	0.02
	13	11	Bi	t Retaining Ring	F55B19			0.50
		12		Chuck	F55B20			6.90
		13		Bit				18.00
		Techni	cal Param	eter				
ength (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	e Diameter	Bit Shank Type	Hole R	ange	Backhea	d Thread
1103mm	68.50Kg	ф1	26mm	SD5/SM5	ф 138-	-152	API 2	³/ <sub>8</sub> Reg
World Dropping	Impact Rate At		Potation	Spand		Air	consumpti	on
Work Pressure	1.7MPa		Rotation	Тореви	1.0MPa		1.8MPa	2.4MPa
1.0-2.5MPa	28Hz	50-70r/min 7m³/min 14m³/min				19m³/min		
Note: SD5	or DHD350R bits for SF	55B har	mmers. SM	5 or Mission 5 bits	for SM	55B h	ammers.	

SHAREATE SHAREATE TOOLS LTD.	SD65A/SQ65A D	TH HAM	IMER	High Air Pressu	re With Fo	ot Valve DTH	Hammers
		Item	Ite	em Description	ı	Part No .	Weight (Kg)
		1		Top subs		D65A01	15.40
	10.	2		O-Ring		D65A02	0.02
		3		Check valve		D65A05	
2		4		Spring		D65A07	0.10
3 4		5		Air Distributor		D65A11	5.50
5		6		O-Ring		D65A12	0.02
		7		Inner Cylinder		D65A13	2.30
	***************************************	8	Pis	ston retainer ring		D65A16	0.20
-7	12	9		Piston		D65A14	25.00
60	13	10		Piston case		D65A03	34.00
*	14	11		Bearing		D65A17	1.30
	15.	12		O-Ring		D65A18	0.02
2	16	13	Bi	t Retaining Ring	D65A19		0.80
		14		Chuck	D65A20		3.00
		15		Foot valve			0.10
		16		Bit			24.00
		Techni	cal Param	eter	<u>'</u>		
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outsid	e Diameter	Bit Shank Type	Hole Rang	e Backhe	ad Thread
1300mm	88.00Kg	ф 1	38mm	SD6/SQ6	ф 152-17	8 API 3	3 <sup>1</sup> / <sub>2</sub> Reg
Mork Processes Impact Rate At			Rotation	Sneed	,	Air consumpt	ion
Work Pressure	1.7MPa		Rotation	Тороси	1.0MPa	1.8MPa	2.4MPa
1.0-2.5MPa	22Hz		30-50	)r/min	11m³/mir	19.5m³/mir	28m³/min
					00054		

Note: SD6 or DHD360 bits for SD65A hammers. SQ6 or QL60 bits for SQ65A hammers.

SH MREATE SHAREATE TOOLS LTD.	SF65B/SM65B D	ТН НАМ	IMER	High Air Pressure Without Foot Valve DTH Hammers					
		Item	Ite	em Description		Pa	rt No .	Weight (Kg)	
i	<u> </u>	1		Top subs		F6	65B01	20.3	
		2		O-Ring		F65B02		0.02	
2		3		Check valve		F6	65B05	0.50	
3	>-	4		Spring		F6	65B07	0.10	
4		5		Air Distributor		F6	65B11	3.40	
9	\$	6	ı	nner Cylinder		F6	65B13	5.30	
	9	7		Piston		F6	65B14	23.30	
		8	Piston case			F65B03		28.50	
	12	9	Guide sleeve			F6	65B17	5.30	
		10	O-Ring			F65B18		0.02	
	13.	11	Bi	t Retaining Ring	F65B19		35B19	1.30	
		12		Chuck	F65B20		65B20	6.50	
		13		Bit				24.00	
		Techni	cal Param	eter					
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	e Diameter	Bit Shank Type	Hole R	ange	Backhea	ad Thread	
1161mm	94.50Kg	ф 1	44mm	SD6/SM6	ф 152	-178	API 3	B <sup>1</sup> / <sub>2</sub> Reg	
Work Pressure	Impact Rate At		Potation	Spood		Air	consumpt	ion	
WOIK FIESSUIE	1.7MPa	Rotation Speed			1.0MPa		1.8MPa	2.4MPa	
1.0−2.5MPa	25Hz	40-60r/min 9m³/min 1			18m³/min	26m³/min			
Note: SD6	or DHD360 bits for SF	65B ham	nmers. SM6	or Mission 6 bits	for SM6	65B ha	ammers.		

SH/MREATE SHAREATE TOOLS LTD.	SD80A/SQ80A D	ТН НАМ	IMER	High Air Pressu	re With Foo	t Valve DTH	Hammers	
:	<u></u>	Item	Ite	em Description	P	art No .	Weight (Kg)	
		1		Top subs	D	80A01	37.00	
		2		O-Ring	D	80A02	0.05	
2		3		Check Valve	D	80A05	1.50	
3		4		Spring	С	80A07	0.20	
4		5	C	ompression ring	D	80A08	2.40	
_5	i l	6	,	Air Distributor	D	80A11	8.20	
	,	7		O-Ring	С	80A12	0.05	
		8		Inner Cylinder	С	80A13	4.60	
	13	9	Pis	ston retainer ring	D	80A16	0.30	
8	14	10		Piston	С	80A14	53.50	
2	15	11		Piston case	D	80A03	68.00	
		12 Guide sleeve		D	80A17	3.20		
		13		O-Ring	С	80A18	0.05	
	17	. 14 Bit Retaining Ring		D80A19		1.30		
	Market Control of the	15		Chuck	D	80A20	16.60	
		16		Foot valve			0.50	
		17		Bit			40.50	
		Technic	cal Param	eter				
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	e Diameter	Bit Shank Type	Hole Range	Backhea	d Thread	
1484mm	197.00Kg	ф 1	84mm	SD8/SQ8	ф 203-254	API 4	1/2 Reg	
Work Pressure	Impact Rate At		Rotation	n Speed	А	r consumpti	on	
WOIN FIESSUIE	1.7MPa		Notation	. 0,000	1.0MPa	1.8MPa	2.4MPa	
1.0-2.5MPa	19Hz		15-25	or/min	14m³/min 24.2m³/min 30m³/m			
Note: SD	08 or DHD380 bits for S	SD80A ha	ammers. S	Q8 or QL80 bits fo	r SQ80A ha	mmers.		

SH/MREATE								
SHAREATE TOOLS LTD.	SF85B/SM85B D	TH HAM	MER	High Air Pressure	e Withou	ut Foo	ot Valve DT	
I		Item	Ite	em Description		Pa	rt No .	Weight (Kg)
	8_	1		Top subs		F8	35B01	34.00
		2	O-Ring			F85B02		0.05
3		3		Check valve		F8	35B05	1.50
4		4		Spring		F8	35B07	0.20
		5		Air Distributor		F8	35B11	6.00
		6		Inner Cylinder		F8	35B13	6.50
	10	7		Piston			35B14	42.50
				Piston case			35B03	61.00
	12	9	Guide sleeve			F8	35B17	5.30
7 A		10		O-Ring		F8	35B18	0.05
	13	11	11 Bit Retaining Ring			F8	35B19	1.50
		12		Chuck		F8	35B20	17.30
		13		Bit				40.50
		Technic	cal Param	eter				
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	e Diameter	Bit Shank Type	Hole R	ange	Backhea	ad Thread
1338mm	176.00Kg	ф 1	80mm	SD8/SM8	ф 203-	-254	API 4	1 <sup>1</sup> / <sub>2</sub> Reg
	Impact Rate At					Air	consumpt	ion
Wor Pressure	1.7MPa		Rotation	Speed	1.0MPa		1.8MPa	2.4MPa
1.0-2.5MPa	22Hz	15-25r/min 12m³/min 22m³/min					28m³/min	
Note: SD8	or DHD380 bits for SF	85B ham	mers. SM8	3 or Mission 8 bits	for SM8	5B ha	ammers.	

WQ55B DTH HAMMER

Item	Item Description	Part No .	Weight (Kg)
1	Top Sub	WQ55B0101	18.5
2	Top Sub Outer O/Ring	F55B0201	0.01
3	Top Sub Inner O/Ring	F45B0901	0.01
4	Quad Ring	WQ55B0401	0.01
5	Check Valve	WQ55B0502	0.3
6	Check Valve Spring	WQ55B0702	0.02
7	Check Valve Holder	WQ55B0602	0.4
8	Dowel Pin	WQ55B0801	0.12
9	Central Control Tube	WQ55B1002	0.8
10	Air Plug	WQ55B1201	0.01
	Air Plug ( $\phi$ 4 hole)	WQ55B1202	0.01
	Air Plug ( $\phi$ 6 hole)	WQ55B1203	0.01
11	Piston	WQ55B1402	15.7
12	Outer Cylinder	WQ55B0302	24.7
13	Guide Sleeve	WQ55B1702	3.1
14	Retaining Ring	WQ55B1904	0.3
15	Drive Sub	WQ55B2003	5.3
16	Drill Bit	QL50 Bit	1
Techni	cal Parameter		

High Air Pressure Without Foot Valve DTH Hammers

Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside Diameter	Bit Shank Type	Hole Range	Hole Range Backhead	
1065mm	69.3Kg	ф 126mm SQ5/SD5		ф138-152	API 3-1/2" REG PIN	
W 1 B	Impact Rate At	Datation	Air consumption			
Work Pressure	1.7MPa	Rotation	1.5MPa	1.8MPa	2.4MPa	
1.3-2.6MPa	24.9Hz	20-45	19.6m³/min	24.1m³/min	28.7m³/min	

SH////REATE SHAREATE TOOLS LTD.	WQ65BK DTH	HAMME	ĒR	High Air Pressur	e Without I	Foot Valve DT	H Hammers
		Item		tem Description		Part No .	Weight (Kg)
		1		Top Sub		WQ65BK0101	25.2
1—		2	То	p Sub Outer O/Rin	ng	WQ65BK0201	0.01
		3	То	p Sub Inner O/Rin	g	WQ65BK0901	0.01
2	<sub>/</sub> —12	4		Quad Ring		WQ65BK0401	0.01
3		5		Check Valve		WQ65BK0501	0.5
4		6	С	heck Valve Spring	)	WQ65BK0701	0.06
5		7	С	heck Valve Holde	r	WQ65BK0601	0.5
7—		8		Dowel Pin		WQ65BK0801	0.2
8—	<u>13</u>	9	Ce	entral Control Tub	е	WQ65BK1001	1.2
	19	10		Air Plug		WQ65BK1201	0.01
9	14		,	Air Plug (		WQ65BK1202	0.01
10—	<u>15</u>		,	Air Plug ( ¢ 6 hole)		WQ65BK1203	0.01
-	13	11	Piston			WQ65BK1401	
		12	Outer Cylinder		WQ65BK0301		34.8
11—	10	13	Guide Sleeve			WQ65BK1703	4.7
		14	Retaining Ring			WQ65BK1903	
TIT.		15		Drive Sub		WQ65BK2001	6.3
		16		Drill Bit		QL60 Shank Bit	1
		Techni	cal Param	eter			
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	e Diameter	Bit Shank Type	Hole Rang	ge Backhea	d Thread
1100mm	95.6Kg	ф 1	46mm	SQ6/SD6	ф 156-20	)3 API 3-1/2	"REG PIN
Wor Process	Impact Rate At		Potation	Spood		Air consumption	
Wor Pressure	1.7MPa		Rotation	Topeed	1.5MPa	a 2MPa	2.4MPa
1.3-2.6MPa	25Hz		20-45	ir/min	20.5m³/m	in 27m³/min	30.4m³/min

SH//REATE SHAREATE TOOLS LTD.	WQ85B DTH	High Air Pressure	e Without Fo	oot Valve DT	H Hammers		
		Item	_	tem Description		Part No .	Weight (Kg)
		1	Top Sub			WQ85B0101	58.4
1—		2	Top Sub Outer O/Ring		ng	WQ85B0201	0.02
		3	Top Sub Inner O/Ring		g	WQ85B0901	0.02
2—	<sub>/</sub> —12	4		Quad Ring		WQ85B0401	0.7
3		5		Check Valve		WQ85B0501	0.6
5	111	6	С	heck Valve Spring	j .	WQ85B0701	0.11
6—		7	С	heck Valve Holde	r	WQ85B0601	0.8
7—		8		Dowel Pin		WQ85B0801	0.3
8	<u></u>	9	Central Control Tube			WQ85B1001	1.7
	14	10	Air Plug			WQ85B1201	0.02
9			Air Plug (			WQ85B1202	0.02
10—			Air Plug ( ¢ 6 hole)			WQ85B1203	0.01
		11	Piston			WQ85B1401	42
	16	12	Outer Cylinder			WQ85B0301	69.6
11—		13	Guide Sleeve			WQ85B1701	9.2
nn		14	Retaining Ring			WQ85B1901	0.94
		15		Drive Sub		WQ85B2001	13.4
		16	Drill Bit			L80 Shank Bit	/
		Techni	cal Param	eter			
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside Diameter		Bit Shank Type	Hole Range Backhea		nd Thread
1377mm	192Kg	ф 185mm		SQ8/SD8	ф 200-254 API 4-1/2		2" REG PIN
Wor Pressure	Impact Rate At		Rotation Speed		Air consumption		on
Worlingsdie	1.7MPa				1.5MPa	2MPa	2.4MPa
1.4-2.7MPa	22.7Hz	20-45r/min			21.9m³/mir	27.7m³/min	29.9m³/min

SHAREATE SHAREATE TOOLS LTD.	Faces selection guide	Hammer Bits Series
	Concave Face Suitable for most rock formations, especia formations which has the best effect. The footboreholes and allows good cutting flushing	
	Convex Face  Convex face is suitable for drilling soft-me medium air pressure. It is designed for fas formation with a good wear profile; but it has	t penetration rate in soft-medium ground
	Flat Face Flat face bits are genral purpose bit suitab rocks formation with high air pressure. Fla good erosion pattern on bit body.	le for drilling extremely hard and abrasive t face bits have good penetration rates and
	Drop Center Bit  The drop center face design is best suited formation with broken layers. The drop cenhole deviation.	to the soft-medium hard formation,and iter bits have good penetration rate,and low
	Gauge Face  Double gauge row design is best suited for gauge row configuration has good penetra	r hard-very hard formation. The double ation and provides excellent wear resistance.

# SH MREATE SHAREATE TOOLS LTD. Carbides selection guide Hammer Bits Series Spherical Button Mainly used for the edge cutting rows of the DTH bit which is suitable for the abrasive and very hard formation.face. Ogive Button High exposure height, mainly used for ordinary rock hardness F10-14, improve the penetration rate and wear resistance. Ballistic Button $\label{thm:problem} \mbox{High exposure height, suitable for medium abrasion, medium hardness of the rock, fast penetration rate.}$ Flat Button Used for the side protection buttons of DTH bit to reduce the wear of outer body surface.

## QL Series bits



Optional for SD hammers	Face shape	Bit Dia. (Mm)	NO.Air Holes	Gauge Buttongs	Front Buttons	Weight (Kg)	Part No.
		115	2	8× φ14.5	7× φ13	9.0	SD41151
004	Flat	125	2	8× ¢16	7× φ14	10.3	SD41251
SD4		130	2	8× ¢16	7× φ14	12.1	SD41301
(COP44/		115	2	7× φ16	6× φ14	9.0	SD41154
DHD340)	Convex	125	2	8× ¢16	7× φ14	10.3	SD41254
		130	2	8× ¢16	7× φ14	12.1	SD41304
		140	2	8× φ16	8× φ14.5	16.0	SD51401
	Flat	148	2	8× φ18	7× φ16	17.5	SD51481
		152	2	8× ¢18	7× φ16	18	SD51521
SD5		140	2	7× φ18	7× φ16	16.0	SD51404
(COP54/	Convex	148	2	8× ¢18	7× φ16	17.5	SD51484
DHD350)		152	2	8× φ18	7× φ16	18.0	SD51524
	Concave	140	2	8× φ16	8× φ14.5	16.0	SD51406
		152	2	7× φ18	7× φ16	17.5	SD51526
	Flat	165	2	8× ¢18	8× φ16	25.1	SD61651
		178	2	8× φ18	8× φ18	27.2	SD61781
		185	2	10× ¢ 18	10× φ16	28.0	SD61851
		190	2	10× φ19	10× φ18	29.0	SD61901
SD6		203	2	10× φ19	12× φ18	30.3	SD62031
(COP64/	Convex	165	2	8× φ18	8× φ16	25.1	SD61654
DHD360)		178	2	8× φ19	8× φ18	27.2	SD61784
		203	2	8× φ19	8× φ18	33.0	SD62034
	Concave	165	3	9× φ18	9× φ16	25.1	SD61656
		178	3	9× φ18	11× φ16	27.3	SD61786
		203	3	9× φ19	11× φ18	30.4	SD62036
	Flat -	203	2	10× φ18	14× φ16	41.0	SD82031
SD6 (COP84/		216	2	10× φ18	15× φ16	44.0	SD82161
		235	2	12× ¢ 18	16× φ18	49.0	SD82351
		254	2	12× ¢ 18	18× ¢18	53.2	SD82541
DHD380)	Concave	203	3	9× φ19	12× ф16	41.0	SD82036
3112000)		216	3	9× φ19	14× φ16	44.0	SD82166
		229	3	12× φ19	16× φ18	47.8	SD82296
		254	3	12× φ19	18× φ18	53.2	SD82546

## MISSION Series bits

SHMREATE SHAREATE TOOLS LTD.

High Air Pressure Hammer Bits of QL Series

Hammer Bits Series





Optional for SD hammers	Face shape	Bit Dia. (Mm)	NO.Air Holes	Gauge Buttongs	Front Buttons	Weight (Kg)	Part No.
		140	2	8× ¢16	8× φ14.5	16.0	SQ51401
	Flat	148	2	8× φ18	7× φ16	16.5	SQ51481
		152	2	8× φ18	7× φ16	17.0	SQ51521
SQ5		140	2	7× φ18	7× φ16	16.0	SQ51404
(QL50)	Convex	148	2	8× φ18	7× ¢16	16.5	SQ51484
		152	2	8× φ18	7× φ16	17.0	SQ51524
	Concave	140	2	8× φ16	8× φ14.5	16.0	SQ51406
	Concave	152	2	7× φ18	7× φ16	17.0	SQ51526
		165	2	8× φ18	8× ¢16	25.1	SQ61651
	Flat	178	2	8× φ18	8× ¢18	27.8	SQ61781
		185	2	10× φ18	10× φ16	28.5	SQ61851
		190	2	10× φ19	10× φ18	29.0	SQ61901
SQ6		203	2	10× φ19	12× ¢18	33.0	SQ62031
(QL60)	Convex	165	2	8× ¢18	8× ¢16	25.1	SQ61654
		178	2	8× φ19	8× ¢18	27.8	SQ61784
		200	2	8× φ19	8× φ18	32.5	SQ62004
	Concave	165	3	9× φ18	9× φ16	25.1	SQ61656
		178	3	9× φ18	11× ¢16	27.8	SQ61786
		203	3	9× φ19	11× ¢18	33.0	SQ62036
	Flat	203	2	10× φ18	14× ¢16	41.0	SQ82031
		216	2	10× φ18	15× φ16	44.0	SQ82161
SQ8 (QL80)		235	2	12× ф18	16× φ18	49.0	SQ82351
		254	2	12× ¢18	18× ¢18	53.2	SQ82541
	Concave	203	3	9× φ19	12× ¢16	41.0	SQ82036
		216	3	9× φ19	14× ¢16	44.0	SQ82166
		229	3	12× ¢19	16× ¢18	47.8	SQ82296
		254	3	12× φ19	18× ф18	53.2	SQ82546





Hammer Bits Series

Optional for SD hammers	Face shape	Bit Dia. (Mm)	NO.Air Holes	Gauge Buttongs	Front Buttons	Weight (Kg)	Part No.
SM4	Flat	115	2	8× φ14.5	7× φ13	9.0	SM41151
(M40)	Convex	115	2	7× φ16	6× φ14	9.0	SM41154
(10140)	OONVCX	130	2	8× φ16	7× φ14	12.1	SM41304
		140	2	8× φ16	8× φ14.5	17.0	SM51401
	Flat	148	2	8× φ18	7× φ16	17.5	SM51481
		152	2	8× φ18	7× φ16	18	SM51521
SM5		140	2	7× φ18	7× φ16	17.0	SM51404
(M50)	Convex	148	2	8× ф18	7× φ16	17.5	SM51484
		152	2	8× ф18	7× φ16	18.0	SM51524
	Concave	140	2	8× φ16	8× φ14.5	17.0	SM51406
	Concave	152	2	7× ф18	7× φ16	18.0	SM51526
	Flat	165	2	8× ф18	8× φ16	25.1	SM61651
		178	2	8× ф18	8× φ18	27.2	SM61781
		185	2	10× ф18	10× φ16	28.5	SM61851
		190	2	10× φ19	10× ¢18	31.0	SM61901
		203	2	10× φ19	12× ¢18	33.0	SM62031
SM6	Convex	165	2	8× ф18	8× φ16	25.1	SM61654
(M60)		178	2	8× φ19	8× φ18	27.2	SM61784
		203	2	8× φ19	8× φ18	32.0	SM62034
	Concave	165	3	9× φ18	9× φ16	25.1	SM61656
		178	3	9× φ18	11× φ16	27.3	SM61786
		203	3	9× φ19	11× φ18	32.0	SM62036
	Flat	203	2	10× ф18	14× φ16	40.5	SM82031
SM8 (M80)		216	2	10× ф18	15× φ16	45.0	SM82161
		235	2	12× ф18	16× φ18	49.0	SM82351
		254	2	12× φ18	18× φ18	53.2	SM82541
	Concave	203	3	9× φ19	12× φ16	40.5	SM82036
		216	3	9× φ19	14× φ16	45.0	SM82166
		229	3	12× φ19	16× φ18	49.0	SM82296
		254	3	12× φ19	18× φ18	53.2	SM82546

## **COMPENSATION PROVISIONS**

### Suzhou shareate company DTH bit compensation provisions

#### Free replacement

- When drilling hard rocks such as granite and quartz sandstone, the wear width h of the edge teeth of the bit body is less than 50% of the diameter of the edge teeth.
- When drilling hard rock, the wear width h of the side teeth is less than 30% of the diameter of the edge teeth, and there are two or more non adjacent edge teeth losing teeth, broken teeth, local collapse of the bit body, drill tail block, broken neck, broken handle and other failure forms.

#### No compensation

- The drill body and its alloy have been worn seriously, such as broken body, block, broken tooth and lost tooth.
- Due to improper operation or human factors or special strata, the drill bit teeth are broken, lost teeth, broken body, etc., such as welding bit, drilling geothermal, spontaneous combustion coal seam, drilling reinforced concrete, pebble layer, fracture layer, etc.
- When it is used in weathered rock, limestone rock, coal mine and other soft rock or very hard rock, the fault body, broken tooth and tooth drop appear.
- Any part of the bit is modified by the user (including sharpened).
- In case of any abnormal situation (3 bits of the same type have the same abnormal damage phenomenon) in batch use of our company's bit products, please immediately suspend the use of our company's products of the same type and batch, and contact the company or the supplier in time, and feed back the abnormal situation; if there are problems in the continuous use and cause greater losses, the company will not compensate.
- The company will record the number of the compensated bit and will not compensate for the failure of the compensated bit,
- No one shall be jointly and severally liable for any compensation.

# Compensation regulations for DTH impactor of Suzhou shareate company

#### Free maintenance and replacement

- In the early stage, the impactor appeared slow and stuck, which could be maintained until its performance was restored;
- In the early stage, the main accessories such as outer casing, piston and front joint have cracks and broken bodies, which can compensate the corresponding parts;

#### No compensation

- No compensation shall be made to the impactor for well drilling, geothermal or underwater operation, if the water, mud, sand, etc. cannot be impacted and the internal wear is too large due to stopping the air pressure or other reasons when changing the drill pipe.
- The impactor has reached the service life, or the outer sleeve has been replaced, or the piston is pulled or broken due to improper operation or lack of oil.
- The air pressure of 4-inch impactor exceeds 20 bar; that of 5-inch impactor exceeds 23 bar; that of 6-inch impactor exceeds 25 bar; that of 8-inch impactor exceeds 35 bar.
- The impactor is not allowed to be welded or baked. Parts deformed due to welding or baking are stuck or the service life is reduced.
- The number of piston, cylinder, rear joint and outer sleeve is inconsistent with the factory record, or the impactor is damaged due to replacement of piston, cylinder and outer sleeve of other manufacturers.
- $\bullet\,$  The hole falling accident of the impactor was caused by the reversal of the impactor.
- The impactor shall not be held jointly and severally liable for compensation.

## **INSTRUCTIONS FOR DTH**

- When the DTH starts drilling, the minimum impact and propulsion force should be used to make the DTH stand on the ground, and the impact air valve should be opened to make the DTH work under impact. At this time, the DTH does not rotate, so that the bit can enter the rock stratum smoothly, and then the impact and propulsion force are gradually increased.
- The DTH thread is a right—hand thread. When the drilling tool is in the hole, the right rotation of the DTH should be kept all the time. It is strictly prohibited to reverse DTH hammer and bit from falling into the well.
- In the process of drilling, there is always no rock slag in the hole. If necessary, the hole should be cleaned by strong blowing. In the process of drilling or lifting the drilling tool, the gas supply shall not be stopped immediately before the drilling is stopped. The drill shall be lifted for strong blowing, and the air can be stopped until there is no more rock slag dust in the hole, so as to prevent rock powder or mud from flowing back into the DTH.
- In the process of replacing the compressed air pipeline and connecting rod, the dirt in the pipeline must be blown away, and the joint of drill pipe should be kept clean to prevent rock slag dust from entering the DTH.
- Reasonable lubrication is the key to ensure the long life and high efficiency of the DTH, otherwise it will accelerate the wear of the DTH, and even lead to the damage of the DTH parts. The lubrication of the DTH is realized by the lubricator on the drilling rig, so oil must be kept in the lubricator at all times. (20 machine oil is generally used)
- In the process of drilling, due to the pollution of dust and lubricating oil brought by high-pressure gas and dust and mud entering the DTH, the performance of the DTH will be reduced and the contact surface of each moving part of the DTH will be damaged. Therefore, regular maintenance of the DTH can ensure its continuous and reliable operation and prolong its service life.

### Notes for Drilling Tool Maintenance and Repair

- Under normal drilling conditions, the DTH should be overhauled, cleaned and reassembled once every 100 hours; if the DTH
  is not used for a long time, it should be overhauled and cleaned immediately after it is out of use, so as to prevent the DTH
  from rusting and damaging, especially after it is used in water containing environment, timely maintenance and cleaning
  should be carried out.
- When disassembling the DTH, pay attention to the protection of the DTH itself. Do not use hard smashing, gas welding or fire baking, otherwise the service life of the DTH will be affected.
- Put the removed parts in a clean place, clean the removed parts, blow dry, brush the parts evenly with engine oil, and reassemble them in place.
- Check all parts of parts during maintenance. If there are bumps and scratches, polish them with file and fine oil stone. If cracks and damages are found, they should be replaced.
- Check the wear of the front joint spline, insert a new drill bit into the front joint spline and twist. If the rotation range is too large, replace the front joint.
- Use micrometer and inner diameter gauge to measure the outer circle of piston and inner diameter of cylinder. If the fit clearance is too large, replace the piston or cylinder.