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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



SH/MREATE SHAREATE TOOLS LTD.	SD45A/SQ45A D	TH HAM	IMER	High Air Pressu	re With	Foot	Valve DTH	Hammers
· A		Item	Ito	em Description		Pa	rt No .	Weight (Kg)
	100	1		Top subs		D4	15A01	7.80
		2		O-Ring		D4	5A02	0.02
2	特。	3		Check valve		D4	5A05	0.50
3	9-	4		Spring		D4	5A07	0.10
4		5		Air Distributor		D4	\$5A11	1.50
-		6		O-Ring		D4	\$5A12	0.02
<u></u> I		7		nner Cylinder		D4	\$5A13	1.10
9		8	Pis	ston retainer ring		D4	\$5A16	0.10
1		9		Piston		D4	\$5A14	8.30
60	13	10		Piston case		D4	15A03	14.00
	14	11		Guide sleeve		D4	\$5A17	1.10
	15	12		O-Ring		D4	15A18	0.02
9	n	13	Bi	t Retaining Ring		D4	5A19	0.30
		14		Chuck		D4	15A20	4.10
		15		Foot valve				0.05
-		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	ange	Backhea	ad Thread
983mm	39.00Kg	ф1	00mm	SD4/SQ4	φ 105·	-135	API 2	2 ³ / ₈ Reg
	Impact Rate At					Air	consumpti	ion
Work Pressure	1.7MPa	Rotation Speed		1.0N	1Pa	1.8MPa	2.4MPa	
1.0-2.5MPa	28Hz	25-40r/min 6m³/min 9.2m³/min 14.5				14.5m³/mi		
Note: SD	4 or DHD340A bits for	SD45A h	nammers. S	Q4 or QL40 bits fo	or SQ45	5A har	nmers.	

SH///REATE SHAREATE TOOLS LTD.	SF45B/SM45B D	SF45B/SM45B DTH HAMMER			e Witho	ut Foc	ot Valve D	TH Hammers
	ΓΊ	Item	Ite	em Description		Pa	rt No .	Weight (Kg)
				Top subs			5B01	6.70
	2 3		2 O-Ring				5B02	0.02
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	15B13	1.70
	10	7		Piston		F4	15B14	8.30
		8		Piston case		F4	15B03	15.00
4	12	9 Guide sleeve				F4	5B17	1.20
1		10		O-Ring		F4	5B18	0.02
	13.	11	Bi	t Retaining Ring		F4	5B19	0.20
		12		Chuck	F		5B20	3.60
Ĺ	- Andrews	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	ange	Backhe	ead Thread
985mm	38.50Kg	φ (99mm	SD4/SM4	ф 115	-133	API	2³/ ₈ Reg
Work Pressure	Impact Rate At	Rotation Speed			Air	consump	tion	
	1.7MPa	Totalion opeou		1.01	ИРа	1.8MPa	2.4MPa	
1.0-2.5MPa	30Hz	70-90r/min 5m³/min 8m³/min 13m³/m					13m³/min	
Note: SD4	Note: SD4 or DHD340A bits for SF45B hammers. SM4 or Mission 4 bits for SM45B hammers.							

SH/MREATE SHAREATE TOOLS LTD.	SD55A/SQ55A D	OTH HAM	IMER	High Air Pressu	re With	Foot	Valve DTH	Hammers
		Item	lt	em Description		Pa	art No .	Weight (Kg)
	10	1		Top subs		D5	55A01	12.00
	3	2		O-Ring		D5	55A02	0.02
2		3		Check valve		D5	55A05	0.50
3	>-1	4		Spring		D5	55A07	0.01
4		5		Air Distributor		D5	55A11	3.00
1) -,	6		O-Ring		D5	55A12	0.02
<u> </u>		7		Inner Cylinder		D5	55A13	2.50
		8	Pi	ston retainer ring		D5	55A16	0.15
7		9		Piston		D5	55A14	18.00
60	13.	10		Piston case		D5	55A03	26.50
	14	11		Guide sleeve		D5	55A17	0.15
8	15	12		O-Ring		D5	55A18	0.02
9	16	13	В	it Retaining Ring		D5	55A19	0.08
		14		Chuck		D5	55A20	8.00
		15		Foot valve				0.08
		16		Bit				16.00
		Technic	al Param	eter				
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	Diameter	Bit Shank Type	Hole Ra	ange	Backhea	ad Thread
1114mm	71.00Kg	ф 12	26mm	SD5/SQ5	ф 138-	-152	API 2	2³/ ₈ Reg
	Impact Rate At		5			Air	consumpti	on
Work Pressure	1.7MPa	Rotation Speed		1.0M	lPa	1.8MPa	2.4MPa	
1.0-2.5MPa	26Hz	40-60r/min 8.5m³/min 15.5m³/min 20.5n					20.5m³/min	
Note: SD	5 or DHD350R bits for	SD55A h	ammers. S	Q5 or QL50 bits fo	or SQ55	A har	nmers.	

SHAREATE SHAREATE TOOLS LTD.	SF55B/SM55B D	ТН НАМ	MER	High Air Pressure	e Withou	ıt Foo	t Valve DTI	H Hammers
		Item	lte	em Description		Pa	rt No .	Weight (Kg)
		Top subs				F5	5B01	11.70
		2		O-Ring		F5	5B02	0.02
2		3		Check valve		F5	5B05	0.50
3	>-1	4		Spring		F5	5B07	0.01
		5		Air Distributor		F5	5B11	2.00
2	5	6		Inner Cylinder		F5	5B13	2.80
	, ,	7		Piston		F5	5B14	15.20
		8		Piston case		F5	5B03	26.50
4	12	9 Guide sleeve			F5	5B17	2.60	
		10		O-Ring		F5	5B18	0.02
	13	11	Bi	t Retaining Ring		F5	5B19	0.50
200		12		Chuck		F5	5B20	6.90
		13		Bit				18.00
		Technic	cal Param	eter				
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	Diameter	Bit Shank Type	Hole Ra	inge	Backhea	d Thread
1103mm	68.50Kg	ф 1	26mm	SD5/SM5	ф 138-	152	API 2	³/ ₈ Reg
Work Propouro	Impact Rate At	Datable Const.				Air	consumpti	on
Work Pressure	1.7MPa	Rotation Speed			1.0MI	Ра	1.8MPa	2.4MPa
1.0−2.5MPa	28Hz	50-70r/min 7m³/min 14m³/min 19m³/min						19m³/min
Note: SD5 or DHD350R bits for SF55B hammers. SM5 or Mission 5 bits for SM55B hammers.								

SH/MREATE SHAREATE TOOLS LTD.	SD65A/SQ65A D	TH HAM	IMER	High Air Pressu	re With Foot	Valve DTH	Hammers
		Item	Ite	em Description	Pa	art No .	Weight (Kg)
		1		Top subs	D	65A01	15.40
	10	2		O-Ring	D	65A02	0.02
		3		Check valve	D	65A05	0.50
-2		4		Spring	D	65A07	0.10
3		5		Air Distributor	D	65A11	5.50
5		6		O-Ring	D	65A12	0.02
		7		Inner Cylinder	D	65A13	2.30
	8	8	Pis	ston retainer ring	D	65A16	0.20
-2	12	9 Piston		D	65A14	25.00	
60	13.	10 Piston case		D	65A03	34.00	
	14	11		Bearing	D	65A17	1.30
	15.	12		O-Ring	D	65A18	0.02
*	16	13	Bi	t Retaining Ring	D	65A19	0.80
		14		Chuck	D	65A20	3.00
		15		Foot valve			0.10
		16		Bit			24.00
		Techni	cal Param	eter			
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outsid	e Diameter	Bit Shank Type	Hole Range	Backhea	ad Thread
1300mm	88.00Kg	ф138mm SD6/SQ6		ф 152-178	API 3	1/2 Reg	
Work Pressure	Impact Rate At	Rotation Speed		n Speed	Ai	r consumpti	on
	1.7MPa	Notation Speed		1.0MPa	1.8MPa	2.4MPa	
1.0-2.5MPa	22Hz	30-50r/min			11m³/min	19.5m³/min	28m³/min

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	e Witho	ut Foc	ot Valve DT	H Hammers
		Item	lte	em Description		Pa	rt No .	Weight (Kg)
		1 Top subs				F6	65B01	20.3
		2		O-Ring		F6	65B02	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
	10	7		Piston		F6	65B14	23.30
		8		Piston case		F6	65B03	28.50
	12	9		Guide sleeve		F6	65B17	5.30
		10		O-Ring		F6	65B18	0.02
	13	11	Bi	t Retaining Ring		F6	65B19	1.30
-		12		Chuck		F6	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	Backhe	ad Thread
1161mm	94.50Kg	ф 1	44mm	SD6/SM6	ф 152	-178	API :	3 ¹ / ₂ Reg
Work Pressure	Impact Rate At	Potation Spood				Air	consumpt	ion
WOIN Flessule	1.7MPa	Rotation Speed			1.0MPa		1.8MPa	2.4MPa
1.0−2.5MPa	25Hz	40-60r/min 9m³/min 18m³/min 2					26m³/min	
Note: SD6	Note: SD6 or DHD360 bits for SF65B hammers. SM6 or Mission 6 bits for SM65B hammers.							

SH/MREATE SHAREATE TOOLS LTD.	SD80A/SQ80A D	TH HAM	IMER	High Air Pressu	re With	Foot	Valve DTH	Hammers
		Item	Ito	em Description		Pa	rt No .	Weight (Kg)
		1		Top subs		D8	30A01	37.00
		2		O-Ring		D8	30A02	0.05
2		3		Check Valve		D8	30A05	1.50
3		4		Spring		D8	30A07	0.20
		5	С	ompression ring		D8	30A08	2.40
		6	,	Air Distributor		D8	30A11	8.20
		7		O-Ring		D8	30A12	0.05
2	12	8		Inner Cylinder		D8	30A13	4.60
	13	9	Pis	ston retainer ring		D8	30A16	0.30
-		10		Piston		D8	30A14	53.50
	15	11		Piston case		D8	30A03	68.00
		12		Guide sleeve		D8	30A17	3.20
		13		O-Ring		D8	30A18	0.05
	17.	14	Bi	t Retaining Ring		D8	30A19	1.30
		15		Chuck		D8	30A20	16.60
		16		Foot valve				0.50
		17		Bit				40.50
		Techni	cal Param	eter				
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	e Diameter	Bit Shank Type	Hole Ra	ange	Backhea	ad Thread
1484mm	197.00Kg	ф 1	84mm	SD8/SQ8	ф 203-	-254	API 4	1 ¹ / ₂ Reg
	Impact Rate At	Air consumpt					ion	
Work Pressure	1.7MPa	Rotation Speed			1.0M	lPa	1.8MPa	2.4MPa
1.0-2.5MPa	19Hz	15-25r/min 14m³/min 24.2m³/min 30m³/m						30m³/min
Note: SI	D8 or DHD380 bits for S	SD80A ha	ammers. So	Q8 or QL80 bits fo	r SQ80 <i>F</i>	A han	nmers.	

SH/MREATE SHAREATE TOOLS LTD.	SF85B/SM85B D	ТН НАМ	MER	High Air Pressure	e Withou	ut Foo	ot Valve DTI	H Hammers
101		Item	lte	em Description		Pa	rt No .	Weight (Kg)
		1 Top subs			F8	35B01	34.00	
		2	2 O-Ring			F8	35B02	0.05
3		3		Check valve		F85B05		1.50
4		4		Spring		F8	35B07	0.20
		5	,	Air Distributor		F8	35B11	6.00
		6	ı	Inner Cylinder		F8	35B13	6.50
		7		Piston		F8	35B14	42.50
		8		Piston case		F8	35B03	61.00
	12	9 Guide sleeve		F8		35B17	5.30	
		10		O-Ring		F8	35B18	0.05
	13	11	Bit	t 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	d Thread
1338mm	176.00Kg	ф 1	80mm	SD8/SM8	ф 203-	-254	API 4	1/2 Reg
	Impact Rate At	_				Air	consumpti	on
Wor Pressure	1.7MPa	Rotation Speed		1.0M	lPa	1.8MPa	2.4MPa	
1.0-2.5MPa	22Hz	15-25r/min 12m³/min 22m³/min 28m³/mir						28m³/min
Note: SD8	or DHD380 bits for SF	85B ham	mers. SM8	or Mission 8 bits t	for SM8	5B ha	ammers.	

SH MREATE SHAREATE TOOLS LTD.	WQ55B DTH	НАММЕ	R	High Air Pressure	e Without Fo	oot Valve DT	H Hammers
		Item	Ite	em Description		Part No .	Weight (Kg)
		1		Top Sub	1	WQ55B0101	18.5
1—		2	Тор	Sub Outer O/Ring	ı	F55B0201	0.01
		3	Тор	Sub Inner O/Ring		F45B0901	0.01
2—	/ 12	4		Quad Ring	\	WQ55B0401	0.01
3		5		Check Valve	\	WQ55B0502	0.3
4	1 1 4	6	Ch	eck Valve Spring	\	WQ55B0702	0.02
6		7	Ch	eck Valve Holder	\	WQ55B0602	0.4
7—		8		Dowel Pin	\	WQ55B0801	0.12
8		9	Cer	ntral Control Tube	\	WQ55B1002	0.8
		10		Air Plug	\	WQ55B1201	0.01
9	14	Air Plug (\phi 4 hole)		\	WQ55B1202	0.01	
10	—15	Air Plug (\$ 6 hole)		\	WQ55B1203	0.01	
b	13	11		Piston	\	WQ55B1402	15.7
		12	(Outer Cylinder	\	WQ55B0302	24.7
11—	<u>16</u>	13		Guide Sleeve	\	WQ55B1702	3.1
0.0		14	I	Retaining Ring	\	WQ55B1904	0.3
Ш		15		Drive Sub	\	WQ55B2003	5.3
	September 1	16		Drill Bit		QL50 Bit	1
		Techni	cal Param	eter			
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	e Diameter	Bit Shank Type	Hole Range	Backhea	d Thread
1065mm	69.3Kg	ф 1	26mm	SQ5/SD5	ф 138-152	2 API 3-1/2	" REG PIN
Work Pressure	Impact Rate At	Rotation Speed		А	ir consumpti	on	
WOIN I TESSUIE	1.7MPa			1.5MPa	1.8MPa	2.4MPa	
1.3-2.6MPa	24.9Hz	20-45r/min			19.6m³/mir	24.1m³/min	28.7m³/min

SHAREATE SHAREATE TOOLS LTD.	WQ65BK DTH	НАММЕ	iR	High Air Pressure	e Without F	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	ıg	WQ65BK0201	0.01
		3	То	p Sub Inner O/Rin	g	WQ65BK0901	0.01
2	_/ —12	4		Quad Ring		WQ65BK0401	0.01
3		5		Check Valve		WQ65BK0501	0.5
4		6	С	heck Valve Spring	J	WQ65BK0701	0.06
6		7	С	heck Valve Holder	r	WQ65BK0601	0.5
7—		8		Dowel Pin		WQ65BK0801	0.2
8—		9	Ce	entral Control Tub	e	WQ65BK1001	1.2
	13	10		Air Plug		WQ65BK1201	0.01
9	14	Air Plug (\$4 hole)			WQ65BK1202	0.01	
10—		Air Plug (¢ 6 hole		Air Plug (¢ 6 hole)	WQ65BK1203		0.01
6	15	11		Piston		WQ65BK1401	21.5
		12		Outer Cylinder		WQ65BK0301	34.8
11—	<u>16</u>	13		Guide Sleeve		WQ65BK1703	4.7
	16	14		Retaining Ring		WQ65BK1903	0.6
11		15		Drive Sub		WQ65BK2001	6.3
	Service Control	16		Drill Bit		QL60 Shank Bit	/
		Technic	al Param	eter			
Length (Less Bit, Backhead Shoulder to Chuck)	Weight(without Bit)	Outside	Diameter	Bit Shank Type	Hole Rang	e Backhea	d Thread
1100mm	95.6Kg	ф146mm SQ6/SD6		ф 156-20	3 API 3-1/2	"REG PIN	
Wor Drassins	Impact Rate At	Data Co.			/	Air consumpti	on
Wor Pressure	1.7MPa	Rotation Speed		1.5MPa	2MPa	2.4MPa	
1.3-2.6MPa	25Hz	20-45r/min			20.5m³/mi	n 27m³/min	30.4m³/min

SH//REATE SHAREATE TOOLS LTD.	WQ85B DTH	НАММЕ	ER.	High Air Pressure	e Without F	oot Valve DT	H Hammers
		Item	١	tem Description		Part No .	Weight (Kg)
		1		Top Sub		WQ85B0101	58.4
1—		2	То	p Sub Outer O/Rir	ng	WQ85B0201	0.02
		3	То	p Sub Inner O/Rin	g	WQ85B0901	0.02
2	_/ —12	4		Quad Ring		WQ85B0401	0.7
3 0		5		Check Valve		WQ85B0501	0.6
5—		6	С	heck Valve Spring	3	WQ85B0701	0.11
6		7	С	heck Valve Holde	r	WQ85B0601	0.8
7—		8		Dowel Pin		WQ85B0801	0.3
8	-13	9	Ce	entral Control Tub	е	WQ85B1001	1.7
		10		Air Plug		WQ85B1201	0.02
9	14	Air Plug (\$4 hole)			WQ85B1202	0.02	
10	15		,	Air Plug (ϕ 6 hole)		WQ85B1203	0.01
b		11		Piston		WQ85B1401	42
		12		Outer Cylinder		WQ85B0301	69.6
11—	<u>16</u>	13		Guide Sleeve		WQ85B1701	9.2
n in	10	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	e Diameter	Bit Shank Type	Hole Range	Backhea	id Thread
1377mm	192Kg	φ185mm SQ8/SD8		ф 200-25	4 API 4-1/2	"REG PIN	
Wor Pressure	Impact Rate At	Rotation Speed			Α	ir consumpti	on
	1.7MPa	rtotation opeeu			1.5MPa	2MPa	2.4MPa
1.4-2.7MPa	22.7Hz	20-45r/min			21.9m³/mir	27.7m³/min	29.9m³/min

SH/MREATE SHAREATE TOOLS LTD.	Faces selection guide	Hammer Bits Series
	Concave Face Suitable for most rock formations, especia formations which has the best effect. The f boreholes and allows good cutting flushing	Illy in medium–hard and homogeneous rock ace feature help to reduce deviation of g on bit face.
	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 ha	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 ter bits have good penetration rate,and low
	Gauge Face Double gauge row design is best suited for gauge row configuration has good penetra	hard-very hard formation. The double tion 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.
SD4 (COP44/	Flat	115	2	8× φ14.5	7× φ13	9.0	SD41151
		125	2	8× φ16	7× φ14	10.3	SD41251
		130	2	8× φ16	7× φ14	12.1	SD41301
		115	2	7× φ16	6× φ14	9.0	SD41154
DHD340)	Convex	125	2	8× φ16	7× φ14	10.3	SD41254
		130	2	8× φ16	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× φ18	7× φ16	18	SD51521
SD5		140	2	7× φ18	7× φ16	16.0	SD51404
(COP54/	Convex	148	2	8× φ18	7× φ16	17.5	SD51484
DHD350)		152	2	8× φ18	7× φ16	18.0	SD51524
	Canadya	140	2	8× φ16	8× φ14.5	16.0	SD51406
	Concave	152	2	7× φ18	7× φ16	17.5	SD51526
	Flat	165	2	8× φ18	8× φ16	25.1	SD61651
		178	2	8× φ18	8× φ18	27.2	SD61781
		185	2	10× φ18	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× φ18	18× ¢18	53.2	SD82541
DHD380)	Concave	203	3	9× φ19	12× φ16	41.0	SD82036
3.12000)		216	3	9× φ19	14× φ16	44.0	SD82166
		229	3	12× φ19	16× φ18	47.8	SD82296
		254	3	12× φ19	18× ф18	53.2	SD82546

MISSION Series bits

SH/MREATE 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.
SQ5 (QL50)	Flat	140	2	8× φ16	8× φ14.5	16.0	SQ51401
		148	2	8× ¢18	7× φ16	16.5	SQ51481
		152	2	8× ¢18	7× φ16	17.0	SQ51521
	Convex	140	2	7× φ18	7× φ16	16.0	SQ51404
		148	2	8× φ18	7× φ16	16.5	SQ51484
		152	2	8× φ18	7× ¢16	17.0	SQ51524
	Concave	140	2	8× ¢16	8× φ14.5	16.0	SQ51406
		152	2	7× φ18	7× φ16	17.0	SQ51526
	Flat	165	2	8× ф18	8× φ16	25.1	SQ61651
		178	2	8× φ18	8× φ18	27.8	SQ61781
SQ6		185	2	10× φ18	10× φ16	28.5	SQ61851
		190	2	10× φ19	10× φ18	29.0	SQ61901
		203	2	10× φ19	12× ф18	33.0	SQ62031
(QL60)	Convex	165	2	8× ¢18	8× ¢16	25.1	SQ61654
		178	2	8× ¢19	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× ¢18	11× φ16	27.8	SQ61786
		203	3	9× φ19	11× φ18	33.0	SQ62036
SQ8 (QL80)	Flat	203	2	10× φ18	14× φ16	41.0	SQ82031
		216	2	10× φ18	15× φ16	44.0	SQ82161
		235	2	12× ф18	16× φ18	49.0	SQ82351
		254	2	12× ¢ 18	18× ф18	53.2	SQ82541
	Concave	203	3	9× φ19	12× φ16	41.0	SQ82036
		216	3	9× φ19	14× φ16	44.0	SQ82166
		229	3	12× ф19	16× φ18	47.8	SQ82296
		254	3	12× φ19	18× φ18	53.2	SQ82546



Optional for SD hammers	Face shape	Bit Dia. (Mm)	NO.Air Holes	Gauge Buttongs	Front Buttons	Weight (Kg)	Part No.
SM4 (M40)	Flat	115	2	8× φ14.5	7× φ13	9.0	SM41151
	Convex	115	2	7× ¢16	6× φ14	9.0	SM41154
		130	2	8× ¢16	7× φ14	12.1	SM41304
		140	2	8× ¢16	8× φ14.5	17.0	SM51401
	Flat	148	2	8× ¢18	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× ¢18	7× φ16	17.5	SM51484
		152	2	8× φ18	7× φ16	18.0	SM51524
	Consour	140	2	8× ¢16	8× φ14.5	17.0	SM51406
	Concave	152	2	7× φ18	7× φ16	18.0	SM51526
		165	2	8× φ18	8× φ16	25.1	SM61651
	Flat	178	2	8× φ18	8× φ18	27.2	SM61781
		185	2	10× φ18	10× φ16	28.5	SM61851
		190	2	10× φ19	10× φ18	31.0	SM61901
		203	2	10× φ19	12× φ18	33.0	SM62031
SM6	Convex	165	2	8× φ18	8× ¢16	25.1	SM61654
(M60)		178	2	8× ¢19	8× φ18	27.2	SM61784
		203	2	8× φ19	8× ¢18	32.0	SM62034
	Concave	165	3	9× φ18	9× φ16	25.1	SM61656
		178	3	9× φ18	11× ¢16	27.3	SM61786
		203	3	9× φ19	11× ¢18	32.0	SM62036
	Flat	203	2	10× φ18	14× φ16	40.5	SM82031
		216	2	10× φ18	15× φ16	45.0	SM82161
SM8		235	2	12× ¢18	16× φ18	49.0	SM82351
		254	2	12× ¢18	18× ¢18	53.2	SM82541
(M80)	Concave	203	3	9× φ19	12× φ16	40.5	SM82036
, ,		216	3	9× φ19	14× φ16	45.0	SM82166
		229	3	12× ¢19	16× φ18	49.0	SM82296
		254	3	12× ф19	18× ф18	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.