

ТОВ "ДОЛОТА"



# Пневмоінструмент і системи буріння з одночасною обсадною системою

Підбір та впровадження рішень



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# KAIQIU

## CATALOGUE GUIDE



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## 钎头设计 BIT FACE DESIGNS

面部设计 Face	应用 Applications
短库体球齿 Button bit, short skirt 	<ul style="list-style-type: none"> <li>适用于H22钎杆 For H22 drill rod</li> </ul>
长库体球齿 Button bit, long skirt 	<ul style="list-style-type: none"> <li>适用于H22钎杆 For H22 drill rod</li> </ul>
普通球齿 Button bit 	<ul style="list-style-type: none"> <li>一般用途钎头 General purpose bit</li> </ul>
易返球齿, 长翼 Retrac button bit, long skirt 	<ul style="list-style-type: none"> <li>适用裂缝岩石, 不易卡钎</li> <li>Design to provide easy removal and completion of bit in adverse hole conditions</li> </ul>
易返球齿, 短翼 Retrac button bit, short skirt 	<ul style="list-style-type: none"> <li>适用裂缝岩石, 不易卡钎</li> <li>Design to provide easy removal and completion of bit in adverse hole conditions</li> </ul>
平面 Flat face 	<ul style="list-style-type: none"> <li>一般用途钎头 General purpose bit</li> <li>适用中硬岩 Suited for medium to hard rock</li> </ul>
凹心 Drop center 	<ul style="list-style-type: none"> <li>钻孔直线度好 Straight hole application</li> <li>适用中硬岩 Suited for medium to hard rock</li> </ul>
半凹心 New drop center 	<ul style="list-style-type: none"> <li>钻孔直线度好 Straight hole application</li> <li>适用中硬岩 Suited for medium to hard rock</li> </ul>

## 合金类型 **BUTTON BIT LNSERT TYPES**

合金设计 Button Type	应用 Applications
低冠球齿 Spherical button 	<ul style="list-style-type: none"> <li>· 普遍使用合金 Universal button</li> <li>· 耐磨性好 Wearing resistance good</li> <li>· 非常适用硬岩 Best suited to hard ground</li> <li>· 27,000-48,000 PSI (180 to 320 MPa)</li> <li>· 适用腐蚀岩层 Abrasive to very abrasive</li> </ul>
高冠球齿 Hemispherical button 	<ul style="list-style-type: none"> <li>· 普遍使用合金 Universal button</li> <li>· 耐磨性好 Wearing resistance good</li> <li>· 非常适用硬岩 Best suited to hard ground</li> <li>· 25,000-45,000 PSI (170 to 300 MPa)</li> <li>· 适用腐蚀岩层 Abrasive to very abrasive</li> </ul>
抛物线齿 Parabolic button 	<ul style="list-style-type: none"> <li>· 普遍使用合金 Universal button</li> <li>· 进尺速度快 Fast penetration</li> <li>· 非常适用中硬岩 Best suited to medium to hard rock</li> <li>· 15,000-25,000 PSI (100 to 170 MPa)</li> <li>· 适用中等腐蚀岩层 Mildly abrasive ground</li> </ul>
锥型齿 Conical button 	<ul style="list-style-type: none"> <li>· 进尺速度快 Fast penetration</li> <li>· 多用于小直径钎头 Best suited for smaller diameter bits</li> <li>· 适用非腐蚀岩层 Suited for all non-abrasive ground types</li> </ul>
弹头齿 Ballistic button 	<ul style="list-style-type: none"> <li>· 进尺速度快 Fast penetration</li> <li>· 适用软岩 Best suited to soft rock</li> <li>· 10,000-20,000 PSI (70 to 140 MPa)</li> <li>· 适用非腐蚀岩层 Non abrasive ground</li> </ul>

## R25 SYSTEM BITS

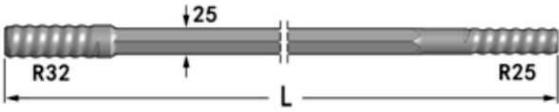
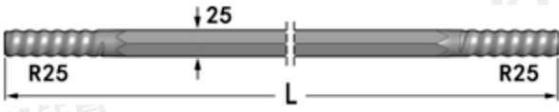
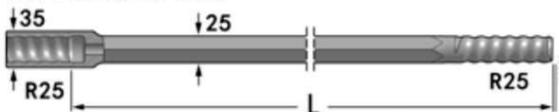
R25(1")bit thread

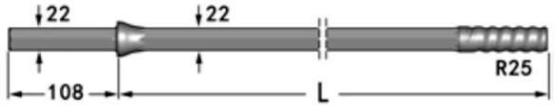
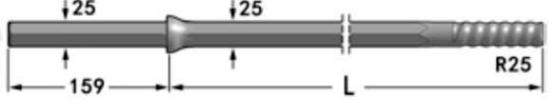
Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No Size	Gauge No Size		Front	Gauge	
Button bit								
	33	1 5/16"	2X 7	5X7	35°	1	2	33R25-27/57-T7-01
	35	1 3/8"	2X 7	5X9	30°	1	2	35R25-27/59-T7-01
	38	1 1/2"	2X 7	5X9	30°	1	2	38R25-27/59-T7-01
	41	5/8"	2X 8	5X9	35°	1	2	41R25-28/59-T7-01
	43	1 11/16"	2X 8	5x10	35°	1	2	43R25-28/510-T7-01
	45	13/4"	2x9	5x10	35°	1	2	45R25-29/510-T7-01

R25(1")bit thread

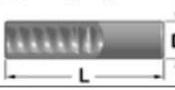
Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No Size	Gauge No Size		Front	Gauge	
Button bit								
	43	1 11/16"	3X 8	6X9	30°	3	1	43R25-38/69-T9-01
	45	1 3/8"	3X 8	6X10	35°	3	1	45R25-38/610-T9-01
	48	1 29/64"	3X 9	6X10	35°	3	1	48R25-39/610-T9-01
	51	1 1/2"	3X 10	6X10	35°	3	1	51R25-310/610-T9-01

## R25 SYSTEM RODS

钎杆 Drill Rod	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch		
六方钎杆 Drifter rod, R32-Hex25-R25 内孔 Flushing hole 8.6mm. 	2100	7'	25	1"	8.6	22H25-R25/R32-2100-23
	2400	8'	25	1"	9.6	22H25-R25/R32-2400-23
	2600	8' 8"	25	1"	10.4	22H25-R25/R32-2600-23
	2800	9'	25	1"	11.1	22H25-R25/R32-2800-23
	3090	10'	25	1"	12.2	22H25-R25/R32-3090-23
	3700	12'	25	1"	14.6	22H25-R25/R32-3700-23
六方钎杆 Extension rod, R25-Hex25-R25 内孔 Flushing hole 8.6mm. 	915	3'	25	1"	3.4	23H25-R25-0915-23
	1000	3' 33/8"	25	1"	4.0	23H25-R25-1000-23
	1220	4'	25	1"	4.6	23H25-R25-1220-23
	1525	5'	25	1"	5.8	23H25-R25-1525-23
	1830	6'	25	1"	7.0	23H25-R25-1830-23
	2435	8'	25	1"	9.3	23H25-R25-2435-23
六方快接钎杆 Speedrod, R25-Hex25-R25 内孔 Flushing hole 8.6mm. 	610	2'	25	1"	2.7	24H25-R25/35-0610-23
	1220	4'	25	1"	5.1	24H25-R25/35-1220-23

六棱钎尾钎杆 Shank End Rod	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch		
六棱钎尾钎杆 Shank adapter/rod  	钎尾 22mm×108mm		Shank 22mm×108mm			
	610	2'	22	7/8	2.6	21H22-R25/108-0610-40
	760	2' 6"	22	7/8	2.9	21H22-R25/108-0760-40
	1000	3' 3"	22	7/8	3.7	21H22-R25/108-1000-40
	1200	4'	22	7/8	4.4	21H22-R25/108-1200-40
	1830	6'	22	7/8	6.3	21H22-R25/108-1830-40
	2435	8'	22	7/8	8.1	21H22-R25/108-2435-40
	3200	10' 6"	22	7/8	10.6	21H22-R25/108-3200-40
	3600	12'	22	7/8	12.0	21H22-R25/108-3600-40
	钎尾 25mm×159mm		Shank 25mm×159mm			
2700	8' 10"	25	1"	11.3	21H25-R25/159-2700-40	
3200	10' 6"	25	1"	13.7	21H25-R25/159-3200-40	

## R25 SYSTEM COUPLINGS

连接套 Coupling	长度 Length		外径 Diameter		螺纹 Thread	重量 Weight approx kg	Part No.
	毫米 mm	英寸 inch	毫米 mm	英寸 inch			
同径连接套 Coupling sleeves 	155	6 1/8	44	1 3/4	R32	1.0	31-R32-44-155-23
	150	5 7/8	35	1 3/8	R25	0.7	31-R25-35-150-23
	160	6 5/16	38	1 1/2	R25	1.3	31-R25-38-160-23
变径连接套 Coupling sleeves of different diameter 	150	5 7/8	45	1 3/4	R25-R32	1.1	33-R25/R32-45-150-23
	160	6 5/16	45	1 3/4	R25-R32	1.2	33-R25/R32-45-160-23
	160	6 5/16	56	1 13/64	R25-R38	2.5	33-R25/R38-56-160-23
	170	6 3/4	56	1 13/64	R25-T38	3.2	33-R25/T38-56-170-23

## R28 SYSTEM BITS

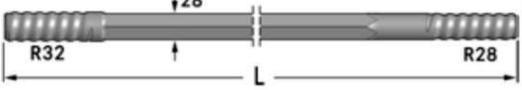
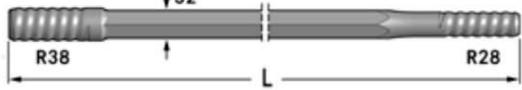
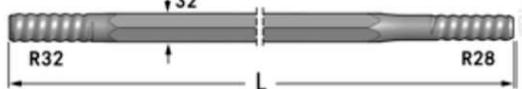
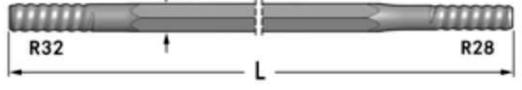
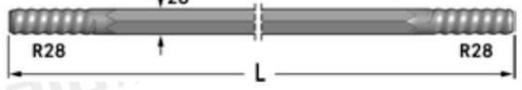
R28(1 1/8")bit thread

Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No Size	Gauge No Size		Front	Gauge	
Button bit								
	38	1 1/2"	2X 7	5X9	30°	1	2	38R28-27/59-T7-01
	38	1 1/2"	2X 7	5X9	35°	1	2	38R28-27/59-T7-02
	41	1 5/8"	2X 8	5X9	35°	1	2	41R28-28/59-T7-01
	43	1 11/16"	2X 8	5X10	35°	1	2	43R28-28/510-T7-01
	45	1 3/4"	2x 9	5x10	35°	1	2	45R28-29/510-T7-01

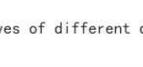
Button bit								
	43	1 11/16"	3X 8	6X9	30°	3	1	43R28-38/69-T9-01
	45	1 3/4"	3X 8	6X10	35°	3	1	45R28-38/610-T9-01
	48	1 7/8"	3X 9	6X10	35°	3	1	45R28-39/610-T9-01

# R28 SYSTEM RODS

## 台车掘进钎具 Drifting and Tunneling

钎杆 Drill Rod	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch		
六方钎杆 Drifter rod, R32-Hex28-R28 内孔 Flushing hole 8.8mm. 	2400	7' 10"	28	1 1/8	12.2	22H28-R28/R32-2400-23
	2750	9'	28	1 1/8	14.4	22H28-R28/R32-2750-23
	3700	12' 11/2"	28	1 1/8	18.9	22H28-R28/R32-3700-23
	4000	13' 13/8"	28	1 1/8	20.4	22H28-R28/R32-4000-23
	4310	14' 11/2"	28	1 1/8	22.0	22H28-R28/R32-4310-23
	4920	16' 11/2"	28	1 1/8	25.3	22H28-R28/R32-4920-23
六方钎杆 Drifter rod, R38-Hex32-R28 内孔 Flushing hole 9.6mm. 	2900	9' 6 1/8"	32	1 1/4	18.8	22H32-R28/R38-2900-23
	3090	10' 11/2"	32	1 1/4	20.0	22H32-R28/R38-3090-23
	3700	12' 11/2"	32	1 1/4	24.0	22H32-R28/R38-3700-23
	4310	14' 11/2"	32	1 1/4	27.9	22H32-R28/R38-4310-23
六方钎杆 Drifter rod, R32-Hex32-R28 内孔 Flushing hole 9.6mm. 	3090	10' 11/2"	32	1 1/4	20.0	22H32-R28/R32-3090-23
	3700	12' 11/2"	32	1 1/4	23.5	22H32-R28/R32-3700-23
六方钎杆 Drifter rod, R32-Hex32-R28 内孔 Flushing hole 9.6mm. 接内螺纹钎尾 With slimmed shank end for female shank 	3090	10' 11/2"	32	1 1/4	20.0	22H32-R28/R32N-3090-23
	3700	12' 11/2"	32	1 1/4	24.0	22H32-R28/R32N-3700-23
	4000	13' 13/8"	32	1 1/4	25.9	22H32-R28/R32N-4000-23
	4310	14' 11/2"	32	1 1/4	27.9	22H32-R28/R32N-4310-23
六方钎杆 Extension rod, R28-Hex28-R28 内孔 Flushing hole 8.8mm. 	3050	10'	28	1 1/8	15.0	23H28-R28-3050-23
六方钎杆 Speedrod, R28-Hex28-R28 内孔 Flushing hole 8.8mm. 	3050	10'	28	1 1/8	15.0	24H28-R28/39-3050-23

# R28 SYSTEM COUPLINGS

连接套 Coupling	长度 Length		外径 Diameter		螺纹 Thread	重量 Weight approx kg	Part No.
	毫米 mm	英寸 inch	毫米 mm	英寸 inch			
同径连接套 Coupling sleeves 	150	5 7/8	44	1 3/4	R32	1.0	31-R32-44-150-23
	150	5 7/8	40	1 37/64	R28	0.9	31-R28-40-150-23
	170	6 3/4	55	2 5/32	R38	2.0	31-R38-55-170-23
变径连接套 Coupling sleeves of different diameter 	160	6 5/16	45	1 3/4	R28-R32	1.2	33-R28/R32-45-160-23
	160	6 5/16	56	1 13/64	R28-R38	2.5	33-R28/R38-56-160-23

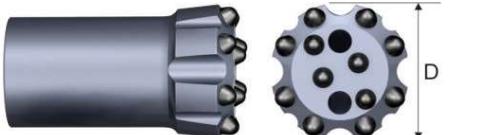
# R32 SYSTEM BITS

R32(1 1/4")bit thread

Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No Size	Gauge No Size		Front	Gauge	
Button bit								
	41	1 5/8"	2X 8	5X9	35°	1	2	41R32 28/59-T7-01
	43	1 11/16"	2X 9	5X10	35°	1	2	43R32 29/510-T7-01
	45	1 3/4"	2X 9	5X11	35°	1	2	45R32 29/511-T7-01
	48	1 7/8"	2X 9	5X11	35°	1	2	48R32 29/511-T7-01
	51	2"	2X 10	5X12	35°	1	2	51R32 210/512-T7-01

Button bit								
	43	1 11/16"	2X 9	6X9	35°	2	2	43R32-29/69-T8-01
	45	1 3/4"	2X 9	6X10	35°	2	2	45R32-29/610-T8-01

Button bit								
	43	1 11/16"	3X 8	6X9	30°	3	1	43R32-38/69-T9-01
	45	1 3/4"	3X 8	6X10	35°	3	1	45R32-38/610-T9-01
	48	1 7/8"	3X 9	6X10	35°	3	1	48R32-39/610-T9-01
	51	2"	3X 9	6X10	35°	3	1	51R32-39/610-T9-01
	57	2 1/4"	3X 10	6X10	35°	3	1	57R32-310/610-T9-01
	64	2 1/2"	3X 12	6X12	35°	3	1	64R32-312/612-T9-01

Button bit								
	64	2 1/2"	4X 10	8X10	35°	2	2	64R32-410/810-T12-01
	76	3"	4X 12	8X12	35°	2	2	76R32-412/812-T12-01

# R32 SYSTEM BITS

R32(1 1/4")bit thread

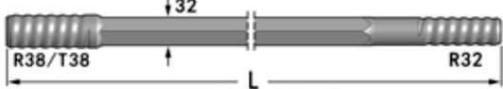
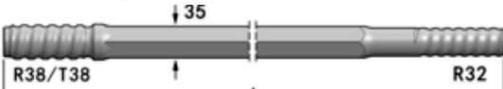
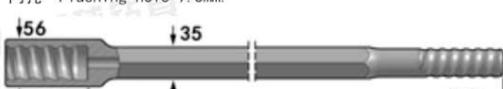
Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No Size	Gauge No Size		Front	Gauge	

Reaming bit, R32								
	76	3"	1X 12 3X 12	6X14	35°	-	2	76R32-9-K-01
	89	3 1/2"	1X 10 6X 12	8X12	35°	-	2	89R32-15-K-01
	102	4"	3X 12 4X 12	8X14	35°	-	2	102R32-15-K-01

Reaming bit, R32								
	76	3"	1X 9 6X 12	6X12	35°	-	2	76R32-13-K-02
	89	3 1/2"	3X 10 4X 12	8X12	35°	-	2	89R32-15-K-02
	102	4"	3X 10 6X 12	8X12	35°	-	2	102R32-17-K-02

## R32 SYSTEM RODS

### 台车掘进钎具 Drifting and Tunneling

钎杆 Drill Rod	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英寸 Foot	毫米 mm	英寸 inch		
六方钎杆 Drifter rod, R/T38-Hex32-R32 内孔 Flushing hole 9.6mm. 	2400	7' 10"	32	1 1/4	15.3	22H32-R32/T38-2400-23
	3090	10' 11/2"	32	1 1/4	19.8	22H32-R32/T38-3090-23
	3400	11' 13/4"	32	1 1/4	21.7	22H32-R32/T38-3400-23
	4000	13' 13/8"	32	1 1/4	25.5	22H32-R32/T38-4000-23
	4310	14' 11/2"	32	1 1/4	27.5	22H32-R32/T38-4310-23
	4920	16' 11/2"	32	1 1/4	31.3	22H32-R32/T38-4920-23
	5530	18' 11/2"	32	1 1/4	35.2	22H32-R32/T38-5530-23
六方钎杆 Drifter rod, R/T38-Hex35-R32 内孔 Flushing hole 9.5mm. 	3090	10' 11/2"	35	1 3/8	24.0	22H35-R32/T38-3090-23
	3700	12' 11/2"	35	1 3/8	28.7	22H35-R32/T38-3700-23
	4000	13' 13/8"	35	1 3/8	31.1	22H35-R32/T38-4000-23
	4310	14' 11/2"	35	1 3/8	33.4	22H35-R32/T38-4310-23
	4920	16' 11/2"	35	1 3/8	37.8	22H35-R32/T38-4920-23
	5530	18' 11/2"	35	1 3/8	42.9	22H35-R32/T38-5530-23
	6100	20'	35	1 3/8	47.3	22H35-R32/T38-6100-23
六方快接钎杆 Speedrod, T38-Hex35-R32 内孔 Flushing hole 9.5mm. 	3700	12' 11/2"	35	1 3/8	29.0	24H35-R32/T38-3700-23
	4310	14' 11/2"	35	1 3/8	34.1	24H35-R32/T38-4310-23
	4920	16' 11/2"	35	1 3/8	38.8	24H35-R32/T38-4920-23
	5530	18' 11/2"	35	1 3/8	43.6	24H35-R32/T38-5530-23
	6400	21'	35	1 3/8	50.3	24H35-R32/T38-6400-23

## R28 SYSTEM COUPLINGS

连接套 Coupling	长度 Length		外径 Diameter		螺纹 Thread	重量 Weight approx kg	Part No.
	毫米 mm	英寸 inch	毫米 mm	英寸 inch			
同径连接套 Coupling sleeves	170	6 3/4	55	2 5/32	R38	1.8	31-R38-55-170-23
	190	7 1/2	55	2 5/32	T38	2.0	31-T38-55-190-23
变径连接套 Coupling sleeves of different diameter 	150	6 1/8	45	1 3/4	R25-R32	1.1	33-R25/R32-45-150-23
	160	6 1/4	45	1 3/4	R25-R32	1.2	33-R25/R32-45-160-23
	160	6 1/4	45	1 3/4	R28-R32	1.2	33-R28/R32-45-160-23
	160	6 1/4	55	2 5/32	R32-R38	1.8	33-R32/R38-55-160-23
	170	6 3/4	55	2 5/32	R32-R38	2.0	33-R32/R38-55-170-23
	180	7 1/16	55	2 5/32	R32-R38	2.2	33-R32/R38-55-180-23
	210	8 1/4	55	2 5/32	R32-R38	2.8	33-R32/R38-55-210-23
	170	6 3/4	56	2 1/8	R32-T38	2.1	33-R32/T38-56-170-23
	180	7 1/16	56	2 1/8	R32-T38	2.2	33-R32/T38-56-180-23
	210	8 1/4	56	2 1/8	R32-T38	2.8	33-R32/T38-56-210-23
	190	7 1/2	63	2 33/64	R32-T45	3.2	33-R32/T45-63-190-23

## R32 SYSTEM RODS

### 深孔螺纹钎具 Bench Drilling

钎杆 Drill Rod	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch		
连接钎杆 Extension rod R32-Round32-R32 内孔 Flushing hole 9.2mm. 扳手槽 Wrench flat 25.4mm.	915	3'	32	1 1/4	5.4	23R32-R32-0915-23
	1000	3' 33/8"	32	1 1/4	5.9	23R32-R32-1000-23
	1220	4'	32	1 1/4	7.2	23R32-R32-1220-23
	1830	6'	32	1 1/4	10.8	23R32-R32-1830-23
	2435	8'	32	1 1/4	14.3	23R32-R32-2435-23
	3050	10'	32	1 1/4	17.9	23R32-R32-3050-23
	3660	12'	32	1 1/4	21.5	23R32-R32-3660-23
快接钎杆 MF-rod R32-Round32-R32 内孔 Flushing hole 9.2mm. 扳手槽 Wrench flat 25.4mm.	915	3'	32	1 1/4	6.2	24R32-R32/46-0915-23
	1220	4'	32	1 1/4	8.0	24R32-R32/46-1220-23
	1525	5'	32	1 1/4	9.8	24R32-R32/46-1525-23
	1830	6'	32	1 1/4	11.6	24R32-R32/46-1830-23
	2435	8'	32	1 1/4	15.1	24R32-R32/46-2435-23
	3050	10'	32	1 1/4	18.7	24R32-R32/46-3050-23
	3660	12'	32	1 1/4	22.3	24R32-R32/46-3660-23
导向快接钎杆 Guide speedrod R32-Round39-R32 内孔 Flushing hole 14.5mm.	3050	10'	39	1 1/2	27.0	24R39-R32/46-3050-23
	3660	12'	39	1 1/2	32.0	24R39-R32/46-3660-23
导向钻杆 Guide tube D46适用51-64mm钎头 D46 for bits from 51-64mm	1220	4'	46	1 3/4	10.0	24R46-R32/46-1220-23
	1525	5'	46	1 3/4	12.5	24R46-R32/46-1525-23
	1830	6'	46	1 3/4	14.2	24R46-R32/46-1830-23
	3050	10'	46	1 3/4	25.0	24R46-R32/46-3050-23

## R32 SYSTEM COUPLINGS

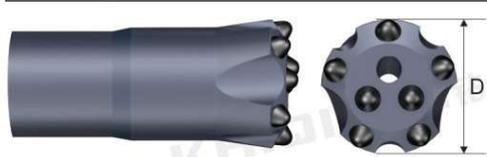
连接套 Coupling	长度 Length		外径 Diameter		螺纹 Thread	重量 Weight approx kg	Part No.
	毫米 mm	英寸 inch	毫米 mm	英寸 inch			
同径连接套 Coupling sleeves	150	6 1/8	44	1 3/4	R32	1.0	31-R32-44-150-23
	160	6 1/4	44	1 3/4	R32	1.1	31-R32-44-160-23

## R35 SYSTEM BITS

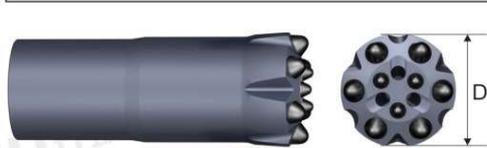
R35(1 3/8")bit thread

Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No Size	Gauge No Size		Front	Gauge	

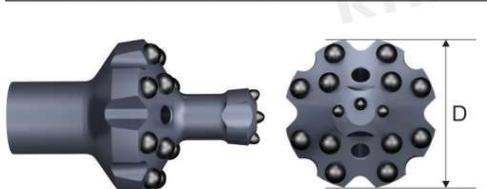
Button bit

	48	1 7/8"	2X 9	5X11	35°	1	2	48R35-29/511-T7-01
	51	2"	2X 9	5X12	35°	1	2	51R35-29/512-T7-01

Button bit

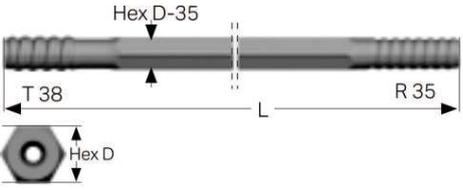
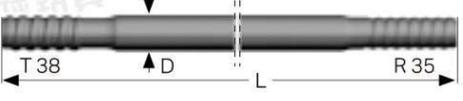
	51	2"	3X 9	6X10	35°	3	1	51R35-39/610-T9-01
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Reaming bit, R35

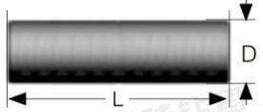
	102	4"	3X 10 6X 12	8X12	35°	2	-	102R35-17-K-02
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## R35 SYSTEM RODS

### 台车掘进钎具 Drifting and Tunneling

钎杆 Drill Rod	长度 Length		外径 Diameter		Part No.
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch	
<b>Drifter rod, T38 – Hex 35 – R35</b>  Flushing hole $\varnothing$ 9.5 mm.	4305	1 1/2"	35	1 3/8"	7324-8543-20 7324-8549-20 7324-8555-20
	4915	1 1/2"	35	1 3/8"	
	5525	1 1/2"	35	1 3/8"	
<b>Drifter rod, T38 – Round 39 – R35</b>  Flushing hole $\varnothing$ 14.5 mm.	4305	1 1/2"	39	1 1/2"	7324-7243-20 7324-7249-20 7324-7255-20 7324-7261-20
	4915	1 1/2"	39	1 1/2"	
	5525	1 1/2"	39	1 1/2"	
	6135	1 1/2"	39	1 1/2"	

## R32 SYSTEM COUPLINGS

连接套 Coupling	长度 Length		外径 Diameter		Part No.
	毫米 mm	英寸 inch	毫米 mm	英寸 inch	
同径连接套 Coupling sleeves <b>Drifter rod, T38 – Round 39 – R35</b> 	191	7 1/2"	52	2"	7314-3652

## R38 SYSTEM BITS

R38(1 3/8")bit thread

Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No Size	Gauge No Size		Front	Gauge	
Button bit								
	64	2 1/2"	4X 10	8X10	35°	2	2	64R38-41/810-T12-01
	76	3"	4X 12	8X12	35°	2	2	76R38-412/812-T12-01

## R38 SYSTEM COUPLINGS

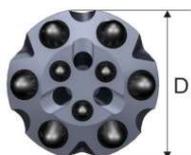
连接套 Coupling	长度 Length		外径 Diameter		螺纹 Thread	重量 Weight approx kg	Part No.
	毫米 mm	英寸 inch	毫米 mm	英寸 inch			
同径连接套 Coupling sleeves 	170	6 2/3"	55	2 3/16"	R38	1.8	7314-3653
同径连接套 Coupling sleeves 	175	6 8/9"	55	2 3/16"	R38	2.0	7314-3654

## T38 SYSTEM BITS

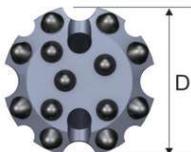
T38(1 1/2")bit thread

Bits		Diameter		Buttons,mm		Angle	Flushing hole		Part No.
		mm	in	Front No Size	Gauge No Size		Front	Gauge	

Button bit, Flat face

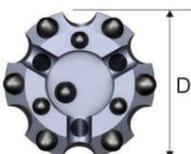


57	2 1/4"	3X10	6X 11	35°	2	2	57T38-310/611-T9-01
64	2 1/2"	3X 12	6X 12	35°	2	2	64T38-312/612-T9-01

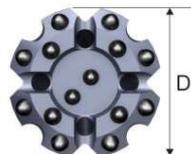


76	3"	4X10	8X 12	35°	2	2	76T38-410/812-T12- 01
89	3 1/2"	5X 12	8X 12	35°	2	2	89T38-512/812-T13-01

Button bit, Drop center



64	2 1/2"	4X10	6X11	35°	3	1	64T38-410/611-TA10-01
70	2 3/4"	4X10	6X11	40°	3	1	70T38-410/611-TA10-01
76	3"	4X11	6X13	35°	3	1	76T38-411/613-TA10-01
89	3 1/2"	5X 11	6X13	35°	3	1	89T38-511/613-TA11-01



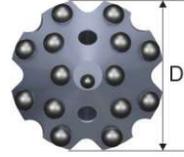
76	3"	5X12	8X 12	35°	4	1	76T38-512/812-TA13-01
89	3 1/2"	6X 11	8X 12	35°	4	1	89T38-611/812-TA14-01

## T38 SYSTEM BITS

T38(1 1/2")bit thread

Bits		Diameter		Buttons,mm		Angle	Flushing hole		Part No.
		mm	in	Front No Size	Gauge No Size		Front	Gauge	
Button bit, Retrac, Drop center									
 	64	2 1/2"	4X10	6X 11	35°	3	1	64T38-410/611-Y10-01	
	70	2 3/4"	4X 10	6X 11	40°	3	1	70T38-410/611-Y10-01	
	76	3"	4X 10	6X 12	35°	3	1	76T38-410/612-Y10-01	

 	76	3"	6X 10	8X 11	35°	4	1	76T38-610/8121-Y14-01
	89	3 1/2"	6X 11	8X 12	35°	4	1	89T38-611/812-Y14-01

Reaming bit, T38									
 	102	4"	1X 12 8X 12	8X 12	35°	2	-	102T38-17-K-01	
	127	5"	1X 13 8X 13	8X 14	35°	2	-	127T38-17-K-01	

# T38 SYSTEM RODS

## 深孔螺纹钎具 Bench Drilling

KAIQIU开球钻具

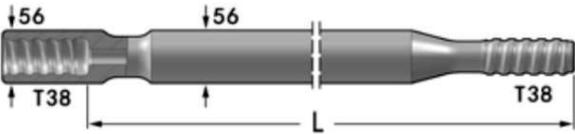
钎杆 Drill Rod	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch		
连接钎杆 Extension rod T38-Round39-T38 内孔 Flushing hole 14.5mm. 扳手槽 Wrench flat 32mm.	1220	4'	39	1 1/2	10.2	23R39-T38-1220-23
	1525	5'	39	1 1/2	12.8	23R39-T38-1525-23
	1830	6'	39	1 1/2	15.3	23R39-T38-1830-23
	2435	8'	39	1 1/2	20.4	23R39-T38-2435-23
	3050	10'	39	1 1/2	25.5	23R39-T38-3050-23
	3660	12'	39	1 1/2	30.9	23R39-T38-3660-23
	3965	13'	39	1 1/2	33.2	23R39-T38-3965-23
	4270	14'	39	1 1/2	35.7	23R39-T38-4270-23
	4880	16'	39	1 1/2	41.0	23R39-T38-4880-23
	5530	18' 11/2"	39	1 1/2	46.3	23R39-T38-5530-23
6095	20'	39	1 1/2	50.9	23R39-T38-6095-23	
快接钎杆 MF-rod T38-Round39-T38 内孔 Flushing hole 14.5mm.	915	3'	39	1 1/2	10.7	24R39-T38/57-0915-23
	1220	4'	39	1 1/2	13.3	24R39-T38/57-1220-23
	1525	5'	39	1 1/2	15.8	24R39-T38/57-1525-23
	1830	6'	39	1 1/2	18.3	24R39-T38/57-1830-23
	3050	10'	39	1 1/2	28.5	24R39-T38/57-3050-23
	3660	12'	39	1 1/2	33.6	24R39-T38/57-3660-23
	4270	14'	39	1 1/2	38.7	24R39-T38/57-4270-23
	4880	16'	39	1 1/2	43.7	24R39-T38/57-4880-23
	5530	18' 11/2"	39	1 1/2	49.2	24R39-T38/57-5530-23
	6095	20'	39	1 1/2	53.9	24R39-T38/57-6095-23
六方连接杆 Hex. extension rod T38-Hex32-T38 内孔 Flushing hole 9.6mm.	1220	4'	32	1 1/4	8.6	23H32-T38-1220-23
	1830	6'	32	1 1/4	12.6	23H32-T38-1830-23
	2435	8'	32	1 1/4	16.6	23H32-T38-2435-23
	3050	10'	32	1 1/4	20.8	23H32-T38-3050-23
	3660	12'	32	1 1/4	24.9	23H32-T38-3660-23
双头螺纹钎杆 Double thread rod T38-Round39-T38 内孔 Flushing hole 14.5mm. 扳手槽 Wrench flat 32mm.	3050	10'	46	1 3/4	25.7	23R39-T38/2T38-3050-23
	3660	12'	46	1 3/4	30.9	23R39-T38/2T38-3660-23
导向快接钎杆 Guide speedrod T38-Round46-T38 内孔 Flushing hole 17mm.	1830	6'	46	1 3/4	23.5	24R46-T38/57-1830-23
	3050	10'	46	1 3/4	37.2	24R46-T38/57-3050-23
	3660	12'	46	1 3/4	44.0	24R46-T38/57-3660-23
	4270	14'	46	1 3/4	50.9	24R46-T38/57-4270-23
	4880	16'	46	1 3/4	57.7	24R46-T38/57-4880-23
	5530	18' 11/2"	46	1 3/4	65.0	24R46-T38/57-5530-23
	6095	20'	46	1 3/4	71.3	24R46-T38/57-6095-23

KAIQIU开球钻具

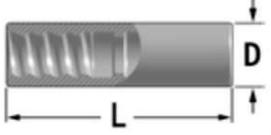
KAIQIU

## T38 SYSTEM RODS

### 深孔螺纹钎具 Bench Drilling

导向钻杆 Guide Tube	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英寸 inch	毫米 mm	英寸 inch		
导向钻杆 Guide tube D56适用64-76mm钎头, D64适用76-89mm钎头 D56 for bits from 64-76mm and D64 for bits from 76-89mm 	1220	4'	56	2 1/8	12.6	24G56-T38/56-1220-23
	1525	5'	56	2 1/8	14	24G56-T38/56-1525-23
	1830	6'	56	2 1/8	17.4	24G56-T38/56-1830-23
	3050	10'	56	2 1/8	28.3	24G56-T38/56-3050-23
	3660	12'	56	2 1/8	32.8	24G56-T38/56-3660-23
	4920	16' 2"	56	2 1/8	47.9	24G56-T38/56-4920-23
	3660	12'	64	2 1/2	51	24G64-T38/64-3660-23

## R32 SYSTEM COUPLINGS

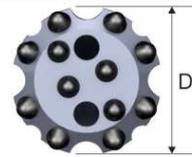
连接套 Coupling	长度 Length		外径 Diameter		螺纹 Thread	重量 Weight approx kg	Part No.
	毫米 mm	英寸 inch	毫米 mm	英寸 inch			
同径连接套 Coupling sleeves 	190	7 1/2	55	2 5/32	T38	2.1	31-T38-55-190-23

# T45 SYSTEM BITS

T45(1 3/4") bit thread

Bits		Diameter		Buttons,mm		Angle	Flushing hole		Part No.
		mm	in	Front No Size	Gauge No Size		Front	Gauge	

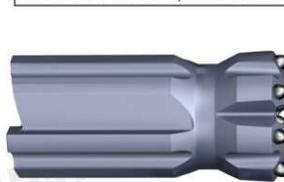
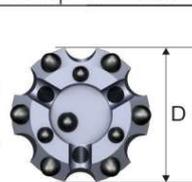
Button bit, Flat face

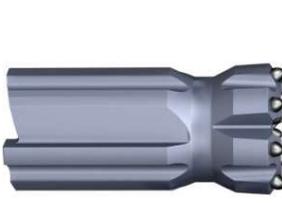
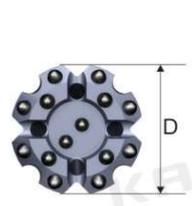
		76	3"	4X12	8X 12	35°	2	2	76T45-412/812-T12-01
		89	3 1/2"	5X 12	8X 12	35°	2	2	89T45-512/812-T13-01
		89	3 1/2"	6X 12	8X 12	35°	2	2	89T45-612/812-T14-01

		76	3"	6X10	8X11	35°	2	2	76T45-610/811-T14-01
		89	3 1/2"	5X 12	8X12	35°	2	2	89T45-512/812-T13-01

		89	3 1/2"	6X12	9X 12	35°	2	2	89T45-612/912-T15-01
		102	4"	7X 12	9X 12	35°	3	-	102T45-712/912-T16-01
		102	4"	7X 12	9X 13	35°	3	-	102T45-712/913-T16-01

Button bit, Retrac, Drop center

		76	3"	4X11	6X 13	35°	3	-	76T45-411/613-Y10-01
		76	3"	4X 10	6X 12	35°	3	-	76T45-410/612-Y10-01
		89	3 1/2"	5X 12	6X 13	35°	3	-	89T45-512/613-Y11-01

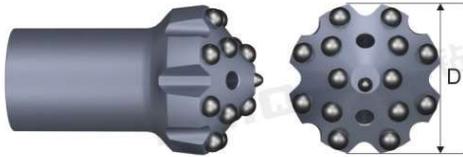
		76	3"	6X10	8X11	35°	4	1	76T45-610/811-Y11-01
		89	3 1/2"	2X 10 4X 12	8X12	35°	4	-	89T45-6/812-Y14-02
		89	3 1/2"	5X 12	8X12	35°	4	-	89T45-512/812-Y13-01
		102	4"	6X 12	8X14	35°	4	-	102T45-612/814-Y14-01
		115	4 1/2"	6X 13	8X14	35°	4	-	115T45-613/814-Y14-01

## T45 SYSTEM BITS

T45(1 3/4") bit thread

Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No	Size		Gauge No	Size	

Reaming bit, T45



127	5"	1X 13	8X 13	8X 14	35°	2	-	127T45-17-K-01
152	6"	1X 14	9X 14	9X 14	35°	2	-	152T45-19-K-01

Reaming bit, T45								
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115	4 1/2"	3X 10	6X 12	8X12	35°	2	-	115T45-17-K-02
127	5"	3X 10	6X 14	8X14	35°	2	-	127T45-17-K-02
152	6"	6X 12	6X 16	9X16	35°	2	-	152T45-21-K-02

# T45 SYSTEM RODS

## 深孔螺纹钎具 Bench Drilling

钎杆 Drill Rod	长度 Length		外径 Diameter		重量 Weight approx kg	Stingray P/N
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch		
连接钎杆 Extension rod T45-Round46-T45 内孔 Flushing hole 17mm. 扳手槽 Wrench flat 38mm.	1830	6'	46	1 3/4	21.6	23R46-T45-1830-23
	2435	8'	46	1 3/4	28.3	23R46-T45-2435-23
	3050	10'	46	1 3/4	35.2	23R46-T45-3050-23
	3660	12'	46	1 3/4	42.1	23R46-T45-3660-23
	4270	14'	46	1 3/4	48.9	23R46-T45-4270-23
	5530	18'	46	1 3/4	63.0	23R46-T45-5530-23
	6095	20'	46	1 3/4	69.3	23R46-T45-6095-23
	快接钎杆 MF-rod T45-Round46-T45 内孔 Flushing hole 17mm.	1525	5'	46	1 3/4	21.2
1830		6'	46	1 3/4	24.6	24R46-T45/65-1830-23
3050		10'	46	1 3/4	38.2	24R46-T45/65-3050-23
3660		12'	46	1 3/4	45.0	24R46-T45/65-3660-23
4270		14'	46	1 3/4	51.9	24R46-T45/65-4270-23
5530		18'	46	1 3/4	66.0	24R46-T45/65-5530-23
6095		20'	46	1 3/4	72.3	24R46-T45/65-6095-23
导向快接钎杆 Guide speedrod T45-Round52-T45 内孔 Flushing hole 21.5mm.		3050	10'	52	2	46.6
	3660	12'	52	2	55.8	24R52-T45/65-3660-23
	4270	14'	52	2	63.8	24R52-T45/65-4270-23
	5530	18'	52	2	81.5	24R52-T45/65-5530-23
	6095	20'	52	2	89.4	24R52-T45/65-6095-23

导向钻杆 Guide Tube	长度 Length		外径 Diameter		重量 Weight approx kg	Stingray P/N
	毫米 mm	英寸 inch	毫米 mm	英寸 inch		
导向钻杆 Guide tube D64适用76-89mm钎头, D76适用89-102mm钎头 D64 for bits from 76-89mm and D76 for bits from 89-102mm	1220	4'	64	2 1/8	12.6	24G64-T45/64-1220-23
	1525	5'	64	2 1/8	14.0	24G64-T45/64-1525-23
	1830	6'	64	2 1/8	17.4	24G64-T45/64-1830-23
	3050	10'	64	2 1/8	28.3	24G64-T45/64-3050-23
	3660	12'	64	2 1/8	32.8	24G64-T45/64-3660-23
	1830	6'	76	3	40.0	24G76-T45/76-1830-23
	3660	12'	76	3	77.8	24G76-T45/76-3660-23

# T45 SYSTEM COUPLINGS

连接套 Coupling	长度 Length		外径 Diameter		螺纹 Thread	重量 Weight approx kg	Stingray P/N
	毫米 mm	英寸 inch	毫米 mm	英寸 inch			
同径连接套 Coupling sleeves	210	8 1/4	63	2 33/64	T45	3.0	31-T45-63-210-23
	210	8 1/4	66	2 37/64	T45	3.3	31-T45-66-210-23

# T51 SYSTEM BITS

T51( 2") bit thread

Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No Size	Gauge No Size		Front	Gauge	

Button bit, Flat face

	89	3 1/2"	5X12	8X 12	35°	2	2	89T51-512/812-T13-01
	89	3 1/2"	6X 12	8X 12	35°	2	2	89T51-612/812-T14-01
	102	4"	4X 14	8X 14	35°	2	2	102T51-414/814-T12-01

	89	3 1/2"	5X12	8X12	35°	2	2	89T51-512/812-T13-02
	102	4"	6X 14	8X14	35°	2	1	102T51-614/814-T14-02
	115	4 1/2"	6X 14	8X 14	35°	2	1	115T51-614/814-T14-02

	89	3 1/2"	6X12	9X12	35°	3	-	89T51-612/912-T15-01
	102	4"	7X 12	9X12	35°	3	-	102T51-712/912-T16-01
	102	4"	7X 12	9X 13	35°	3	-	102T51-712/913-T16-01
	115	4 1/2"	7X13	9X 13	35°	3	1	115T51-713/913-T16-01
	115	4 1/2"	6X 14	9X 14	35°	3	1	115T51-614/914-T15-01

Button bit, Drop center

	89	3 1/2"	2X 10 4X 12	8X12	35°	4	-	89T51-610/812-TA14-01
	89	3 1/2"	5X12	8X12	35°	4	-	89T51-512/812-TA13-01
	102	4"	6X 12	8X 13	35°	4	-	102T51-612/813-TA14-01
	102	4"	6X 12	8X 14	35°	4	-	102T51-612/814-TA14-01
	115	4 1/2"	6X 14	8X14	35°	4	-	115T51-614/814-TA14-01
	115	4 1/2"	6X 13	8X14	35°	4	-	115T51-613/814-TA14-01
	127	5"	7X 14	8X14	35°	4	-	127T51-714/814-TA15-01
	140	5 1/2"	7X 16	8X16	35°	4	-	140T51-716/816-TA15-01
	152	6"	8X 16	8X16	35°	4	-	152T51-816/816-TA16-01

# T51 SYSTEM BITS

T51( 2") bit thread

Bits		Diameter		Buttons,mm		Angle	Flushing hole		Part No.
		mm	in	Front No Size	Gauge No Size		Front	Gauge	

Button bit, Retrac, Flat face



89	3 1/2"	5X12	8X 12	35°	2	2	89T51-512/812-Y13-01
89	3 1/2"	6X 12	8X 12	35°	2	2	89T51-612/812-Y14-01
102	4"	4X 14	8X 14	35°	2	2	102T51-414/814-Y12-01

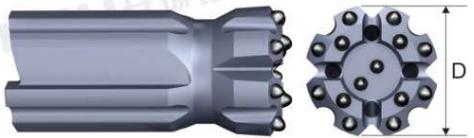


89	3 1/2"	5X12	8X12	35°	2	2	89T51-512/812-Y13-02
102	4"	6X 14	8X14	35°	2	1	102T51-614/814-Y14-02
115	4 1/2"	6X 14	8X 14	35°	2	1	115T51-614/814-Y14-02



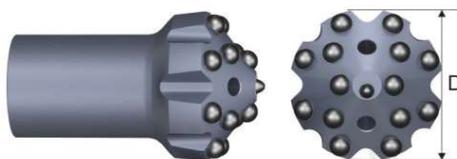
89	3 1/2"	6X12	9X12	35°	3	-	89T51-612/912-Y15-01
102	4"	7X 12	9X12	35°	3	-	102T51-712/912-Y16-01
102	4"	7X 12	9X 13	35°	3	-	102T51-712/913-Y16-01
115	4 1/2"	7X13	9X 13	35°	3	-	115T51-713/913-Y16-01
115	4 1/2"	6X 14	9X 14	35°	3	-	115T51-614/914-Y15-01
127	5"	8X 14	9X 14	35°	3	-	127T51-814/914-Y17-01
140	5 1/2"	10X 14	9X 16	35°	3	-	140T51-1014/916-Y19-01

Button bit, Retrac, Drop center



89	3 1/2"	2X 10 4X 12	8X12	35°	4	-	89T51-610/812-YA14-01
89	3 1/2"	5X12	8X12	35°	4	-	89T51-512/812-YA13-01
102	4"	6X 12	8X 13	35°	4	-	102T51-612/813-YA14-01
102	4"	6X 12	8X 14	35°	4	-	102T51-612/814-YA14-01
115	4 1/2"	6X 14	8X14	35°	4	-	115T51-614/814-YA14-01
115	4 1/2"	6X 13	8X14	35°	4	-	115T51-613/814-YA14-01
127	5"	7X 14	8X16	35°	4	-	127T51-714/816-YA15-01
140	5 1/2"	7X 16	8X16	35°	4	-	140T51-716/816-YA15-01
152	6"	8X 16	8X16	35°	4	-	152T51-816/816-YA16-01

Reaming bit, T51



127	5"	1X 13 8X 13	8X 14	35°	2	-	127T51-17-K-01
152	6"	1X 14 9X 14	9X 14	35°	2	-	152T51-19-K-01

## T51 SYSTEM RODS

### 深孔螺纹钎具 Bench Drilling

钎杆 Drill Rod	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch		
连接钎杆 Extension rod T51-Round52-T51 内孔 Flushing hole 21.5mm. 扳手槽 Wrench flat 45mm.	3050	10'	52	2	45.3	23R52-T51-3050-23
	3660	12'	52	2	54.1	23R52-T51-3660-23
	4270	14'	52	2	63.0	23R52-T51-4270-23
	4880	16'	52	2	71.8	23R52-T51-4880-23
	5530	18'	52	2	81.2	23R52-T51-5530-23
	6095	20'	52	2	89.4	23R52-T51-6095-23
快接钎杆 MF-rod T51-Round52-T51 内孔 Flushing hole 21.5mm.	1525	5'	52	2	26.2	24R52-T51/72-1525-23
	1830	6'	52	2	30.6	24R52-T51/72-1830-23
	3050	10'	52	2	48.3	24R52-T51/72-3050-23
	3660	12'	52	2	57.1	24R52-T51/72-3660-23
	4270	14'	52	2	66.0	24R52-T51/72-4270-23
	4880	16'	52	2	74.8	24R52-T51/72-4880-23
5530	18'	52	2	84.2	24R52-T51/72-5530-23	
6095	20'	52	2	92.4	24R52-T51/72-6095-23	

导向钻杆 Guide Tube	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英寸 inch	毫米 mm	英寸 inch		
导向钻杆 Guide tube D76适用89-102钎头, D87适用102-127钎头 D76 for bits from 89-102mm and D87 for bits from 102-127mm	1830	6'	76	3	42.0	24G76-T51/76-1830-23
	3660	12'	76	3	81.0	24G76-T51/76-3660-23
	3660	12'	87	3 1/2	86.0	24G87-T51/87-3660-23

## T51 SYSTEM COUPLINGS

连接套 Coupling	长度 Length		外径 Diameter		螺纹 Thread	重量 Weight approx kg	Part No.
	毫米 mm	英寸 inch	毫米 mm	英寸 inch			
同径连接套 Coupling sleeves	225	8 7/8	71	2 51/64	T51	4.6	31-T51-71-225-23
	225	8 7/8	76	3	T51	4.8	31-T51-76-225-23
	235	9 1/4	72	2 7/8	T51	4.7	31-T51-72-235-23
	235	9 1/4	77	3 1/32	T51	4.9	31-T51-77-235-23

## ST58 SYSTEM BITS

ST58(2 1/4") bit thread

Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No Size	Gauge No Size		Front	Gauge	
	Button bit, Flat face							



89	3 1/2"	5X12	8X 12	35°	2	2	89ST58-512/812-T13-01
102	3 1/2"	6X 12	8X 14	35°	2	1	102ST58-612/814-T14-01

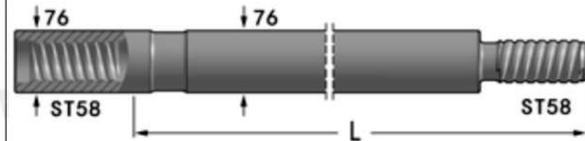
Button bit, Retrac, Drop center								
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89	3 1/2"	5X 13	8X13	35°	4	-	89ST58-513/813-TA13-01
102	4"	2X 12 4X 13	8X14	35°	4	-	102ST58-612/814-TA14-01

## ST58 SYSTEM RODS

钎杆 Drill Rod	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch		
钻杆 内孔直径26mm Drill tube, Flushing hole 26mm.	1525	5'	76	2 3/8	34.0	24G76-ST58/76-1525-23
	1830	6'	76	2 3/8	40.0	24G76-ST58/76-1830-23
	3660	12'	76	2 3/8	76.3	24G76-ST58/76-3660-23



## ST68 SYSTEM BITS

ST68(2 3/4") bit thread

Bits	Diameter		Buttons,mm		Angle	Flushing hole		Part No.
	mm	in	Front No Size	Gauge No Size		Front	Gauge	
	Button bit, Retrac, Flat face							



102	4"	6X 12	8X 14	35°	2	2	102ST68-612/814-T14-01
115	4 1/2"	6X 14	9X 14	35°	3	1	115ST68-614/914-T15-01

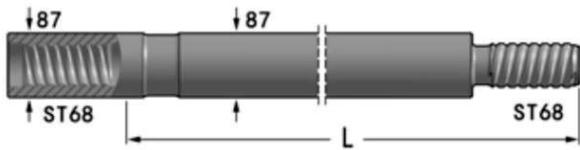
Button bit, Retrac, Drop center								
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102	4"	2X 12 4X 13	8X 14	35°	4	-	102ST68-612/814-TA14-01
115	4 1/2"	7X 12	8X 14	35°	4	-	115ST68-712/814-TA15-01

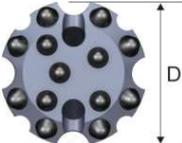
## ST68 SYSTEM RODS

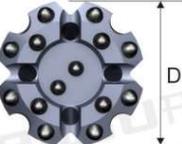
钎杆 Drill Rod	长度 Length		外径 Diameter		重量 Weight approx kg	Part No.
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch		
钻杆 Drill tube 内孔直径 Flushing hole 30mm.	1525	5'	87	3 7/16	35.5	24G87-ST68/87-1525-23
	1830	6'	87	3 7/16	43.8	24G87-ST68/87-1830-23
	3660	12'	87	3 7/16	80.0	24G87-ST68/87-3660-23
	6110	20'	87	3 7/16	133.0	24G87-ST68/87-6110-23

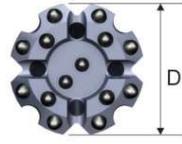


# GT60 SYSTEM BITS

Gt60 ( 2 3/8") bit thread

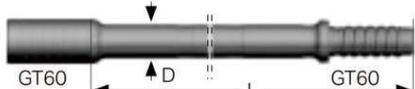
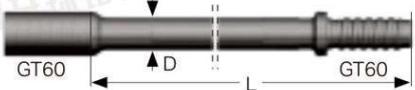
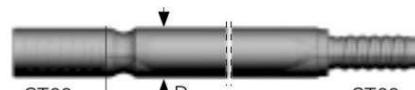
Bits		Diameter		Buttons,mm		Angle	Flushing hole		Part No.
		mm	in	Front No Size	Gauge No Size		Front	Gauge	
Button bit, Flat face									
 	92	3 5/8"	6X 12	8X 13	35°	4	-	92GT60-612/813-T14-01	
	102	4"	6X 12	8X 14	35°	2	1	102GT60-612/814-T14-01	
	115	4 1/2"	8X 13	9X 14	35°	2	1	115GT60-813/914-T17-01	
	127	5"	8X 14	9X 16	35°	3	-	127GT60-814/916-T17-01	

Button bit, Drop center									
 	92	3 5/8"	2X 10 4X 12	8X13	35°	4	-	92GT60-612/813-TA14-01	
	102	4"	6X12	8X14	35°	4	-	102GT60-612/814-TA14-01	
	115	4 1/2"	6X 14	8X14	35°	4	-	115GT60-614/814-TA14-01	
	127	5"	7X 14	8X 16	35°	4	-	127GT60-714/816-TA15-01	

Button bit, Retrac, Drop center									
 	92	3 5/8"	5X13	8X 13	35°	4	-	92GT60-513/813-Y13-01	
	102	4"	6X 12	8X 14	35°	4	-	102GT60-612/814-Y14-01	
	115	4 1/2"	6X 14	8X 14	35°	4	-	115GT60-614/814-Y14-01	
	127	5"	7X 14	8X 16	35°	4	-	127GT60-714/816-Y15-01	

# GT60 SYSTEM RODS

## 深孔螺纹钎具 Bench Drilling

钎杆 Drill Rod	长度 Length		外径 Diameter		Part No.
	毫米 mm	英尺 Foot	毫米 mm	英寸 inch	
<b>MF-rod, GT60 – round 60 – GT60. For bits from 96 mm.</b>  Female end Ø 85 mm. Flushing hole Ø 22.5 mm.	3660 4265 5485 6095	12" 14" 18" 20"	60 60 60 60	2 3/8" 2 3/8" 2 3/8" 2 3/8"	7610-1137-80 7610-1143-80 7610-1155-80 7610-1161-80
 Female end Ø 85 mm. Flushing hole Ø 25 mm.	4265	14"	64	2 1/2"	7610-1243-80
<b>MF-rod, GT60 – round 60 – GT60. For 92–115 mm bits.</b>  Female end Ø 82 mm. Flushing hole Ø 22.5 mm.	4265	14"	60	2 3/8"	7610-1443-80
<b>Pilot tube – GT60</b>  Female end Ø 85 mm (82 mm on 76 mm tubes).	1600 4265 5335	5" 14" 17"	87 87 76	3" 3 1/2" 3"	7640-8716-80 7640-8743-80 7640-7653-80
<b>Drill tube</b> 	4265	14"	87	3 1/2"	7660-8743-80

# SHANK ADAPTERS

山特维克 SANDVIK

	FLUSHING HOLE (MM)	THREAD	LENGTH (MM)	PART NO.
<b>HLX 1</b>				
	-	R23	235	7807-7570-01
	-	R25	255	7802-7567-01
	-	R23	255	7807-7567-01
	-	R28	255	7809-7567-01
<b>HL 300</b>				
	-	R32	400	7803-7549-01
<b>HL 300S</b>				
	-	R32	245	7803-7547-01
<b>RD308/RD314/RD414</b>				
	-	R32	205	7803-7663-01
	-	138	410	7304-7672-01
	-	T35	410	7307-7672-01
	-	R32	410	7803-7672-01
<b>L400, L410, L500, L510, L550</b>				
	10	R32	380	7803-3602-30
<b>HLR 438L and HLR 438T</b>				
	12.7	R32	380	7803-4700-50
	12.7	T38	400	7304-4700-50
<b>HLR 438LS, 438TS, HL 538, HL538L, L550S</b>				
	-	R32	450	7803-4700-01
	-	R38	450	7804-4700-01
	-	T38	455	7304-4700-01

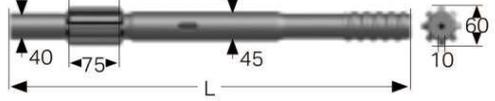
# SHANK ADAPTERS

山特维克 SANDVIK

	FLUSHING HOLE (MM)	THREAD	LENGTH (MM)	PART NO.
<b>HLR 438LS, HL500-38/HL510-38, HL538L, L550S</b>				
	-	R32	550	7803-7535-02
	-	T35	550	7307-7535-02
	-	T38	550	7304-7535-02
	-	R38	550	7804-7535-02
<b>HL 500-45 / HL510-45</b>				
	-	R32	550	7803-7557-01
	-	T35	550	7307-7557-01
	-	T38	550	7304-7557-01
	-	T45	550	7305-7557-01
<b>HL 500 S-38 / 510 S-38 / 510 B / 510 LH</b>				
	-	R32	460	7803-7531-01
	-	R38	460	7804-7531-01
	-	T38	460	7304-7531-01
	-	R38	500	7804-7536-01
	-	T38	500	7304-7536-01
<b>HL 550 SUPER / HL560 SUPER / HL510 S-45</b>				
	-	T35	460	7307-7566-01
	-	T35	550	7307-7557-01
	-	R38	500	7804-7554-01
	-	T38	500	7304-7554-01
<b>HLX 5 / HLX 5T</b>				
	-	R32	500	7803-7585-01
	-	T35	500	7307-7585-01
	-	T38	500	7304-7585-01
	-	R38	500	7804-7585-01
	-	R32	575	7803-7586-01
	-	T35	575	7307-7586-01
	-	T38	575	7304-7586-01
	-	T45	575	7305-7586-01
<b>HLX 5T</b>				
	-	T38	720	7304-7668-01
	-	T35	720	7307-7668-01
<b>HLX5 PE-45</b>				
	-	R32	575	7803-7664-01
	-	T38	575	7304-7664-01
	-	T38	720	7304-7671-01
	-	T35	720	7307-7671-01

# SHANK ADAPTERS

山特维克 SANDVIK

	FLUSHING HOLE (MM)	THREAD	LENGTH (MM)	PART NO.
<b>RD520/RD525 – PE</b> 	–	T38	745	7304-7673-01
	–	T35	745	7307-7673-01
<b>RD520/RD525</b> 	–	T38	525	7304-7669-01
	–	T38	600	7304-7666-01
	–	T35	600	7307-7666-01
	–	T38	745	7304-7685-01
	–	T35	745	7307-7685-01
<b>RD1635CF</b> 	–	GT60	760	7600-6025-12
	–	GT60	760	7600-6030-15
<b>RD1635CF-80</b> 	–	ST68	630	7329-6034-15
<b>HL 600-45 / HL 600 S-45</b> 	–	T38	600	7304-7532-01
	–	T45	600	7305-7532-01
	–	T38	525	7304-7537-01
	–	T45	525	7305-7537-01
<b>HL 600-52</b> 	–	T45	650	7305-7551-01
	–	T51	650	7306-7551-02
<b>HL 645</b> 	–	T45	600	7305-7541-02
<b>HL700/HL710-45/HL800T-45/HL810T-45/HF810T-45/HL650-45</b> 	–	T38	600	7304-7576-01
	–	T45	600	7305-7576-01

# SHANK ADAPTERS

山特维克 SANDVIK

	FLUSHING HOLE (MM)	THREAD	LENGTH (MM)	PART NO.
<b>HL700/HL710-52/HL710PE-52/HL700LH/HL710S-52/HL710SPE-52/T45/HL650-52/HL800T-52/HL800T/PE-52/HL810T-52/HF810T-52</b>				
	-	T38	600	7304-7577-02
	-	T45	600	7305-7577-02
	-	T51	600	7306-7577-03
<b>HL1000/HL 1010, HL1000S/HL 1010S-52</b>				
	-	T45	670	7305-6010-01
	-	T51	670	7306-6010-02
	-	T45	590	7305-6008-01
	-	T51	590	7306-6008-01
<b>HL 1000-60/HL 1010-60</b>				
	-	T51	670	7306-6014-02
	-	GT60	670	7600-6014-02
<b>HL 1000-80/HL 1010-80, Shoulder drive</b>				
	-	GT60	760	7600-6031-01
<b>HL1000/HL 1000S-80, HL1000-80/HL1010-80</b>				
	-	ST58	635	7328-6009-02
	-	ST68	640	7329-6009-02
<b>HL1000PE-65, HL1010PE-65, HL1060T/PE-65, HL1500T/PE-65, HL1560T/PE-65</b>				
	-	T51	760	7306-6025-02
	-	GT60	760	7600-6025-02
	-	ST58	760	7358-6025-02
<b>HL1000/1500PE/1560HF</b>				
	-	GT60	670	7600-6025-05
<b>HL 1500-52/1500 T-52</b>				
	-	T51	710	7306-6021-02
<b>HL 1500-60/1500 T-60</b>				
	-	T51	760	7306-6022-02
	-	GT60	760	7600-6022-03

# SHANK ADAPTERS

山特维克 SANDVIK

	FLUSHING HOLE (MM)	THREAD	LENGTH (MM)	PART NO.
<b>HL 1500-80/1560T-80/HL1060T-80/HF1560, Shoulder drive</b>				
	-	GT60	760	7600-6030-05
	-	ST68	630	7329-6034-05
	-	ST58	635	7328-6020-01
	-	ST68	635	7329-6020-05
<b>HL 1500T/PE-90/HL1500ST/PE-90/ HL1560T/PE-90/HL1560ST/PE-90</b>				
	-	ST58	635	7328-6035-01
	-	ST68	635	7329-6035-05
	-	GT60	760	7600-6032-05
<b>Hydrastar 200</b>				
	-	R32	351	7803-4703-01
<b>Hydrastar 200, 300 and X2</b>				
	-	R32	485	7803-3590-03
	-	R38	485	7804-3590-03
	-	T38	485	7304-3590-03
<b>Hydrastar 350</b>				
	-	R38	485	7804-3590-03
	-	T38	500	7304-3591-01
<b>Toyo PR 220</b>				
	14	R32	330	7803-7500-61
	14	T38	446	7304-7500-60
<b>Toyo TH 501</b>				
	11	T38	565	7304-7583-40
<b>Toyo TH800RP</b>				
	-	T38	766	7304-7588-01

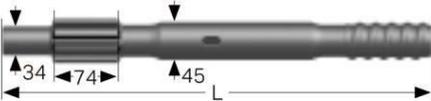
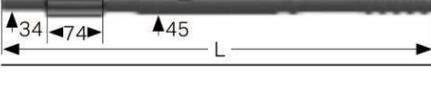
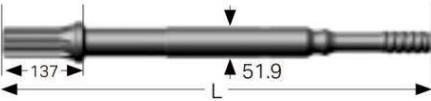
# SHANK ADAPTERS

阿特拉斯 ATLAS COPCO

	FLUSHING HOLE (MM)	THREAD	LENGTH (MM)	PART NO.
<b>Atlas Copco BBC 43, 44, 45 and 100</b> 	10	R32	380	7803-3100-30
<b>Atlas Copco COP 1032 HD</b> 	-	R32	340	7803-3588-01
<b>Atlas Copco COP 1032 LE</b> 	-	R32	550	7803-3576-01
<b>Atlas Copco COP 1036/1038 HB</b> 	-	T38	500	7304-3591-01
	-	T45	500	7305-3591-01
<b>Atlas Copco COP 1038 HD/1238</b> 	-	R32	485	7803-3590-03
	-	R38	485	7804-3590-03
	-	T38	485	7304-3590-03
<b>Atlas Copco COP 1038 HL</b> 	-	T38	575	7304-3593-01
	-	T45	575	7305-3593-01
<b>Atlas Copco COP 1132</b> 	-	R32	410	7803-3581-02
	-	R32	500	7803-3583-02

# SHANK ADAPTERS

阿特拉斯 ATLAS COPCO

	FLUSHING HOLE (MM)	THREAD	LENGTH (MM)	PART NO.
<b>Atlas Copco COP 1238</b>				
	-	T38	500	7304-3591-01
	-	R38	485	7804-3590-03
	-	T38	485	7304-3590-03
	-	T45	500	7305-3591-01
	-	T38	575	7304-3593-01
	-	T38	575	7304-3550-01
	-	T45	575	7305-3593-01
<b>Atlas Copco COP 1432, COP 1532, COP 1440, COP 1838 HD/ME</b>				
	-	R38	435	7804-3652-01
	-	T35	435	7307-3652-01
	-	T38	435	7304-3652-01
	-	R32	435	7803-3652-01
	-	R32	525	7803-3656-02
	-	T35	525	7307-3656-01
	-	T38	525	7304-3656-01
<b>Atlas Copco COP 1550, COP 1838 ME/ HE</b>				
	-	T38	525	7304-3655-01
	-	T45	525	7305-3655-01
	-	T51	525	7306-3655-02
<b>Atlas Copco COP 1550 EX, COP 1838 EX</b>				
	-	T38	730	7304-3825-02
	-	T45	730	7305-3826-02
<b>Atlas Copco COP 1838MUX/HUX</b>				
	-	T38	730	7304-3663-01
	-	T45	730	7305-3663-01

# SHANK ADAPTERS

阿特拉斯 ATLAS COPCO

	FLUSHING HOLE (MM)	THREAD	LENGTH (MM)	PART NO.
<b>Atlas Copco COP 1840 HE, COP 1850</b>				
	-	T35	565	7307-3690-01
	-	T38	565	7304-3690-02
	-	T45	565	7305-3690-02
	-	T51	565	7306-3690-03
<b>Atlas Copco COP 1850 SPEC</b>				
	-	T51	565	7306-3691-01
<b>Atlas Copco COP 2150, COP 2550</b>				
	-	T51	770	7306-3692-01
<b>Atlas Copco COP 2160, COP 2560</b>				
	-	T51	770	7306-3689-01
	-	GT60	770	7600-3689-01
<b>Atlas Copco COP 2160EX/2560EX</b>				
	-	T51	770	7306-3699-01
	-	GT60	770	7600-3699-01
<b>Atlas Copco COP 3038</b>				
	-	T45	435	7305-3667-01
	TU, PD	T35	525	7307-3671-01
<b>Atlas Copco COP 4050 ME</b>				
	-	GT60	700	7600-3712-01
<b>Atlas Copco COP 4050 MUX</b>				
	-	ST68	835	7329-3720-01
	-	ST58	835	7328-3720-01

# SHANK ADAPTERS

古河 FURUKAWA

	FLUSHING HOLE (MM)	THREAD	LENGTH (MM)	PART NO.
<b>Furukawa M 120 and PD 200</b>				
	14	R32	330	7803-7500-61
	14	T38	380	7304-7543-60
	14	T38	446	7304-7500-60
<b>Furukawa PD 200R</b>				
	14	T38	484	7304-7581-60
<b>Furukawa HD 609</b>				
	-	T38	620	7304-4791-01
	-	T38	690	7304-4780-01
	-	T45	620	7305-4791-01
<b>Furukawa HD 612</b>				
	-	T45	710	7305-7414-01
<b>Furukawa HD 709</b>				
	-	T38	620	7304-7426-01
<b>Furukawa HD 712</b>				
	-	T45	788	7305-7417-01
<b>Furukawa HD 715 RP</b>				
	-	T35	885	7306-7424-01

# SHANK ADAPTERS

蒙特贝 MONTABERT

	FLUSHING HOLE (MM)	THREAD	LENGTH (MM)	PART NO.
<b>Montabert HC 40</b>				
	-	R32	447	7803-4725-01
	-	T38	447	7304-4725-01
<b>Montabert HC 40 (female)</b>				
	-	R32	270	7803-4726-01
<b>Montabert HC 80, HC 90, HC 105</b>				
	-	R38	440	7804-4720-01
	-	T38	440	7304-4720-01
	-	R32	440	7803-4720-01
<b>Montabert HC 80R, HC 120R, HC 110RP</b>				
	-	T35	670	7307-7544-01
<b>Montabert HC 80R, HC 105R, HC 107R, HC 108R, HC 109R</b>				
	-	T38	670	7304-7544-01
<b>Montabert HC 80, HC 120</b>				
	-	T45	490	7305-7520-01
<b>Montabert HC 120R, HC 150R, HC 155R, HC 158R</b>				
	-	T51	670	7306-7528-02
<b>Montabert HC 200A</b>				
	-	T51	840	7306-7530-02
	-	GT60	840	7600-7530-02

# SHANK ADAPTERS

蒙特贝 MONTABERT

Montabert HC40 HC50



FLUSHING  
HOLE (MM)

THREAD

LENGTH (MM)

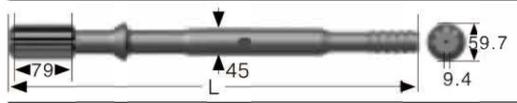
PART NO.

R38

390

7803-4726-02

Montabert HC109



T45

520

7304-7544-02

Montabert HC120 HC150



T38

490

7305-7520-02



**KAIQIU**

高端钻具引领者

✦ Premium Drilling Tools Leader



## COMPANY INTRODUCTION

### 关于开球

开球品质，品质开球

开球钻具长期专注于“钻具事业”解决方案与研究，公司广纳贤才，率先掌握核心技术（全套引进欧洲最先进热处理系统），拥有多项研发专利。开球人始终以“改变”的模式，大胆创新，迅速发展为集技术、研发、生产、销售为一体的高端钻具制造企业。公司位于浙江省台州湾循环经济产业集聚区聚英路2398号，生产厂房建筑面积20000多平方米，员工200多人。距离台州机场15公里，距离上海浦东国际机场400多公里，交通便利。公司自行研发高、中、低风压潜孔冲击器、潜孔钻头、液压螺纹钻头、螺纹连接套、钻杆等钻机配件。产品在全国拥有300多家销售服务商，并远销美洲、非洲及东南亚地区。其主打品牌“开球”已在国内外享有很高的知名度和市场认可度。

“新常态，新征程”，踏上这段充满荣耀的旅程，我们以“最负责、最热爱”的情怀投入到“人类钻具”事业当中，努力提升产品性价比、认同比、综合比，将开球打造成最具知识产权优势、最具创新能力，最具市场影响力的企业——铸造开球梦！

### Brief introduction of KAIQIU

Taizhou Kaiqiu Drilling Tools Co., Ltd has been for a long term focus on "drilling industry" solutions and research. The company recruits mining industry elite, grasping the core technology (full introduction of Europe's most advanced heat treatment systems) with a number of R & D patents. Kaiqiu people always insist on "change" mode, making bold innovation. It is being a top manufacturing company with a full system of research, manufacture and marketing.

The company lies in Juying road 2398#, Taizhou Bay circular economy industrial agglomeration area of Zhejiang Province, with workshop space of 20000 m2 and more than 200 employees. It is 15km from Taizhou airport, and more than 400 km from Shanghai Pudong airport. The transportation is very convenient. It professionally produces various DTH hammer, DTH bit, bench drilling, coupling sleeves, drill pipe for mining and construction. There are more than 300 sales service providers in China, and the products are exported to Australia, Africa and Southeast Asia etc. The main brand, "Kaiqiu", has set up a high reputation and popularity in domestic and foreign market.

"New step, new journey" Kaiqiu takes a journey full of glory. The kaiqiu people devote themselves into the "human drilling tools industry" with the most responsible and most loving heart. The company will continue to increase investment in r&d, product cost performance, recognition ratio and comprehensive ratio. We will make Kaiqiu the top human drilling tools manufacturer with the influence of best intellectual property value, the most innovative ability, the most market influence, and make the new meaning!



开球钻具

开球钻具

开球钻具



Heat treatment technology and advanced heat treatment system of kaiqiu Drilling tools Co.,Ltd is powerful guarantee of high quality of product.

开球全程把控的热处理工艺与先进的热处理系统，是产品高品质的有力保障；

## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

### KQ-50

#### 产品参数 Product data:

总长度 Hammer Length without bit:	628(mm)
后接头螺纹 Top sub thread:	F32x8PIN
外径 Outside diameter:	44(mm)
重量 Weight:	5(KG)
钻头直径 Bit diameter:	50(mm)
工作风压 Working Pressure:	4-10(Bar)
耗气量 Air consumption:	3-5(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR50

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQ50-01	8、阀座 Air Distributor	KQ50-08
2、顶头 Cap	KQ50-02	9、气缸 Inner Cylinder	KQ50-09
3、逆止阀 Check Valve	KQ50-03	10、活塞 Piston	KQ50-10
4、弹簧 Spring	KQ50-04	11、导向套 Guide Sleeve	KQ50-11
5、橡胶圈 Rubber ring	KQ50-05	12、前接头 Driver Sub	KQ50-12
6、阀盖 Valve cap	KQ50-06	13、外套管 Outer Sleeve	KQ50-13
7、阀片 Valve	KQ50-07		



## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

### KQ-60

#### 产品参数 Product data:

总长度 Hammer Length without bit:	777(mm)
后接头螺纹 Top sub thread:	F42x8PIN
外径 Outside diameter:	53(mm)
重量 Weight:	7.5(KG)
钻头直径 Bit diameter:	60(mm)
工作风压 Working Pressure:	4-10(Bar)
耗气量 Air consumption:	3-7(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR60

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQ60-01	8、阀片 Valve	KQ60-08
2、顶头 Cap	KQ60-02	9、阀座 Air Distributor	KQ60-09
3、逆止阀 Check Valve	KQ60-03	10、气缸 Inner Cylinder	KQ60-10
4、弹簧 Spring	KQ60-04	11、活塞 Piston	KQ60-11
5、铁垫圈 Shim	KQ60-05	12、导向套 Guide Sleeve	KQ60-12
6、橡胶圈 Rubber ring	KQ60-06	13、前接头 Driver Sub	KQ60-13
7、阀盖 Valve cap	KQ60-07	14、外套管 Outer Sleeve	KQ60-14



## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

### KQ-65

#### 产品参数 Product data:

总长度 Hammer Length without bit:	745(mm)
后接头螺纹 Top sub thread:	F42x10PIN
外径 Outside diameter:	61(mm)
重量 Weight:	13(KG)
钻头直径 Bit diameter:	65(mm)
工作风压 Working Pressure:	4-10(Bar)
耗气量 Air consumption:	6-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR65

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQ65-01	8、阀片 Valve	KQ65-08
2、顶头 Cap	KQ65-02	9、阀座 Air Distributor	KQ65-09
3、逆止阀 Check Valve	KQ65-03	10、气缸 Inner Cylinder	KQ65-10
4、弹簧 Spring	KQ65-04	11、活塞 Piston	KQ65-11
5、铁垫圈 Shim	KQ65-05	12、导向套 Guide Sleeve	KQ65-12
6、橡胶圈 Rubber ring	KQ65-06	13、前接头 Driver Sub	KQ65-13
7、阀盖 Valve cap	KQ65-07	14、外套管 Outer Sleeve	KQ65-14



## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

### KQ-76A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	811(mm)
后接头螺纹 Top sub thread:	F48x10PIN
外径 Outside diameter:	66(mm)
重量 Weight:	13.5(KG)
钻头直径 Bit diameter:	76(mm)
工作风压 Working Pressure:	4-10(Bar)
耗气量 Air consumption:	6-10(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR70

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQ76A-01	8、阀片 Valve	KQ76A-08
2、顶头 Cap	KQ76A-02	9、阀座 Air Distributor	KQ76A-09
3、逆止阀 Check Valve	KQ76A-03	10、气缸 Inner Cylinder	KQ76A-10
4、弹簧 Spring	KQ76A-04	11、活塞 Piston	KQ76A-11
5、铁垫圈 Shim	KQ76A-05	12、导向套 Guide Sleeve	KQ76A-12
6、橡胶圈 Rubber ring	KQ76A-06	13、前接头 Driver Sub	KQ76A-13
7、阀盖 Valve cap	KQ76A-07	14、外套管 Outer Sleeve	KQ76A-14



## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

### KQ-90A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	855(mm)
后接头螺纹 Top sub thread:	F48x10PIN
外径 Outside diameter:	80(mm)
重量 Weight:	22(KG)
钻头直径 Bit diameter:	90-120(mm)
工作风压 Working Pressure:	5-10(Bar)
耗气量 Air consumption:	7-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR90

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQ90A-01	8、阀片 Valve	KQ90A-08
2、顶头 Cap	KQ90A-02	9、阀座 Air Distributor	KQ90A-09
3、逆止阀 Check Valve	KQ90A-03	10、气缸 Inner Cylinder	KQ90A-10
4、弹簧 Spring	KQ90A-04	11、活塞 Piston	KQ90A-11
5、铁垫圈 Shim	KQ90A-05	12、导向套 Guide Sleeve	KQ90A-12
6、橡胶圈 Rubber ring	KQ90A-06	13、前接头 Driver Sub	KQ90A-13
7、阀盖 Valve cap	KQ90A-07	14、外套管 Outer Sleeve	KQ90A-14



## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

### KQ-90B

#### 产品参数 Product data:

总长度 Hammer Length without bit:	840(mm)
后接头螺纹 Top sub thread:	F48x10PIN
外径 Outside diameter:	80(mm)
重量 Weight:	22(KG)
钻头直径 Bit diameter:	90-120(mm)
工作风压 Working Pressure:	5-10(Bar)
耗气量 Air consumption:	7-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR90

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQ90B-01	8、阀片 Valve	KQ90B-08
2、顶头 Cap	KQ90B-02	9、阀座 Air Distributor	KQ90B-09
3、逆止阀 Check Valve	KQ90B-03	10、气缸 Inner Cylinder	KQ90B-10
4、弹簧 Spring	KQ90B-04	11、活塞 Piston	KQ90B-11
5、铁垫圈 Shim	KQ90B-05	12、导向套 Guide Sleeve	KQ90B-12
6、橡胶圈 Rubber ring	KQ90B-06	13、前接头 Driver Sub	KQ90B-13
7、阀盖 Valve cap	KQ90B-07	14、外套管 Outer Sleeve	KQ90B-14



## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

### KQ-110B

#### 产品参数 Product data:

总长度 Hammer Length without bit:	871 (mm)
后接头螺纹 Top sub thread:	API 23/8"REG BOX
外径 Outside diameter:	98 (mm)
重量 Weight:	33 (KG)
钻头直径 Bit diameter:	110-150 (mm)
工作风压 Working Pressure:	5-10 (Bar)
耗气量 Air consumption:	7-12 (M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR110

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQ110B-01	8、阀片 Valve	KQ110B-08
2、顶头 Cap	KQ110B-02	9、阀座 Air Distributor	KQ110B-09
3、逆止阀 Check Valve	KQ110B-03	10、气缸 Inner Cylinder	KQ110B-10
4、弹簧 Spring	KQ110B-04	11、活塞 Piston	KQ110B-11
5、铁垫圈 Shim	KQ110B-05	12、导向套 Guide Sleeve	KQ110B-12
6、橡胶圈 Rubber ring	KQ110B-06	13、前接头 Driver Sub	KQ110B-13
7、阀盖 Valve cap	KQ110B-07	14、外套管 Outer Sleeve	KQ110B-14



## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

### KQ-130B

#### 产品参数 Product data:

总长度 Hammer Length without bit:	890(mm)
后接头螺纹 Top sub thread:	API 23/8"REG BOX
外径 Outside diameter:	112(mm)
重量 Weight:	48.5(KG)
钻头直径 Bit diameter:	130-175(mm)
工作风压 Working Pressure:	5-10(Bar)
耗气量 Air consumption:	7-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR110/CIR130

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQ130B-01	8、阀片 Valve	KQ130B-08
2、顶头 Cap	KQ130B-02	9、阀座 Air Distributor	KQ130B-09
3、逆止阀 Check Valve	KQ130B-03	10、气缸 Inner Cylinder	KQ130B-10
4、弹簧 Spring	KQ130B-04	11、活塞 Piston	KQ130B-11
5、铁垫圈 Shim	KQ130B-05	12、导向套 Guide Sleeve	KQ130B-12
6、橡胶圈 Rubber ring	KQ130B-06	13、前接头 Driver Sub	KQ130B-13
7、阀盖 Valve cap	KQ130B-07	14、外套管 Outer Sleeve	KQ130B-14



## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

### KQ-150A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	904(mm)
后接头螺纹 Top sub thread:	F70x10 BOX
外径 Outside diameter:	136(mm)
重量 Weight:	70(KG)
钻头直径 Bit diameter:	150-200(mm)
工作风压 Working Pressure:	5-10(Bar)
耗气量 Air consumption:	10-16(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR150

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQ150A-01	8、阀片 Valve	KQ150A-08
2、顶头 Cap	KQ150A-02	9、阀座 Air Distributor	KQ150A-09
3、逆止阀 Check Valve	KQ150A-03	10、气缸 Inner Cylinder	KQ150A-10
4、弹簧 Spring	KQ150A-04	11、活塞 Piston	KQ150A-11
5、压衬 Pressure lining	KQ150A-05	12、导向套 Guide Sleeve	KQ150A-12
6、橡胶圈 Rubber ring	KQ150A-06	13、前接头 Driver Sub	KQ150A-13
7、阀盖 Valve cap	KQ150A-07	14、外套管 Outer Sleeve	KQ150A-14



## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

### KQ-170A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	1030(mm)
后接头螺纹 Top sub thread:	F100x28PIN
外径 Outside diameter:	156(mm)
重量 Weight:	96(KG)
钻头直径 Bit diameter:	170-250(mm)
工作风压 Working Pressure:	5-10(Bar)
耗气量 Air consumption:	12-18(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR170

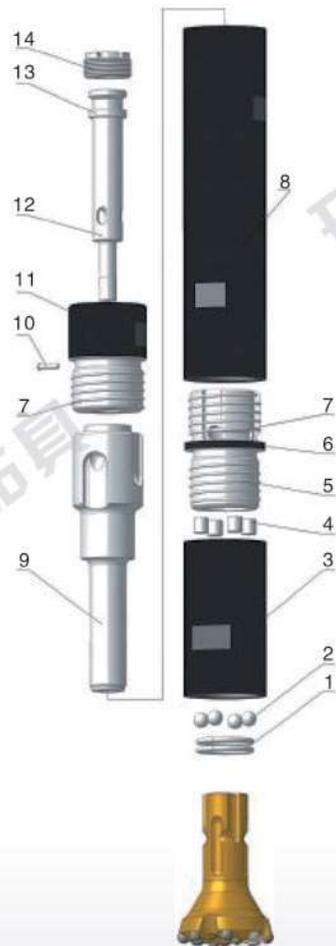
零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQ170A-01	8、阀片 Valve	KQ170A-08
2、顶头 Cap	KQ170A-02	9、阀座 Air Distributor	KQ170A-09
3、逆止阀 Check Valve	KQ170A-03	10、气缸 Inner Cylinder	KQ170A-10
4、弹簧 Spring	KQ170A-04	11、活塞 Piston	KQ170A-11
5、压衬 Pressure lining	KQ170A-05	12、导向套 Guide Sleeve	KQ170A-12
6、橡胶圈 Rubber ring	KQ170A-06	13、前接头 Driver Sub	KQ170A-13
7、阀盖 Valve cap	KQ170A-07	14、外套管 Outer Sleeve	KQ170A-14



## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

# 110P-2.8KW(Bayonet)

### 产品参数 Product data:



总长度 Hammer Length without bit:	662(mm)
后接头螺纹 Top sub thread:	F72x10 BOX
外径 Outside diameter:	98(mm)
重量 Weight:	24(KG)
钻头直径 Bit diameter:	110-140(mm)
工作风压 Working Pressure:	7-11(Bar)
耗气量 Air consumption:	7-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	KNSH-110

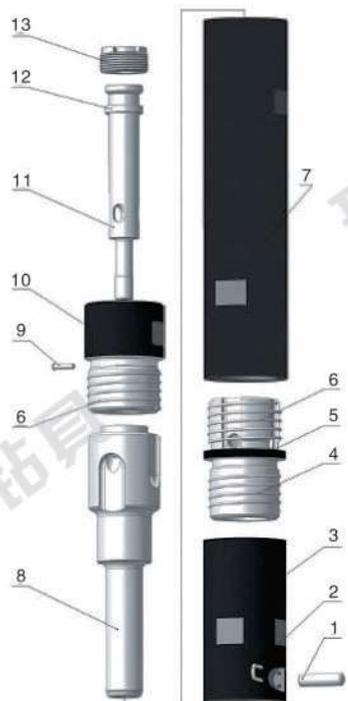
零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、卡簧 Retainer Ring	110P-B-01	9、活塞 Piston	110P-B-09
2、钢球 Ball	110P-B-02	10、插销 Retainer	110P-B-10
3、前接头 Driver Sub	110P-B-03	11、后接头 Top Sub	110P-B-11
4、挡块 Roller	110P-B-04	12、配气杆 Air distribution Tube	110P-B-12
5、堵丝 Thread	110P-B-05	13、定位圈 Seat	110P-B-13
6、导向套 Guide Sleeve	110P-B-06	14、螺纹圈 Adjusting Nut	110P-B-14
7、堵丝 Thread	110P-B-07		
8、外套管 Outer Sleeve	110P-B-08		

## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

# 110P-2.8KW(Spline)

### 产品参数 Product data:

总长度 Hammer Length without bit:	670(mm)
后接头螺纹 Top sub thread:	F72*10 BOX
外径 Outside diameter:	98(mm)
重量 Weight:	25.5(KG)
钻头直径 Bit diameter:	110-140(mm)
工作风压 Working Pressure:	7-11(Bar)
耗气量 Air consumption:	7-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	KNSH-110



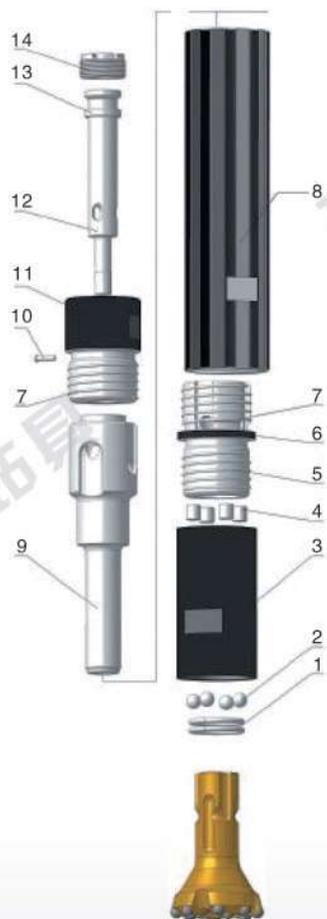
零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、横肖 Pin	110P-S-01	9、插销 Retainer	110P-S-09
2、卡销 Bracket	110P-S-02	10、后接头 Top Sub	110P-S-10
3、前接头 Driver Sub	110P-S-03	11、配气杆 Air distribution Tube	110P-S-11
4、堵丝 Thread	110P-S-04	12、定位圈 Seat	110P-S-12
5、导向套 Guide Sleeve	110P-S-05	13、螺纹圈 Adjusting Nut	110P-S-13
6、堵丝 Thread	110P-S-06		
7、外套管 Outer Sleeve	110P-S-07		
8、活塞 Piston	110P-S-08		

## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

# 110P-3.2KW(Bayonet)

### 产品参数 Product data:

总长度 Hammer Length without bit:	672(mm)
后接头螺纹 Top sub thread:	F72x10 BOX
外径 Outside diameter:	103x98(mm)
重量 Weight:	25.6(KG)
钻头直径 Bit diameter:	110-140(mm)
工作风压 Working Pressure:	7-11(Bar)
耗气量 Air consumption:	7-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	KNSH-110



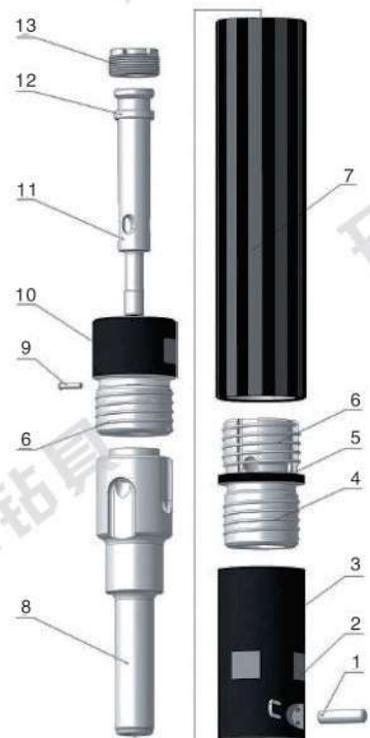
零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、卡簧 Retainer Ring	110P-B-01	9、活塞 Piston	110P-B-09
2、钢球 Ball	110P-B-02	10、插销 Retainer	110P-B-10
3、前接头 Driver Sub	110P-B-03	11、后接头 Top Sub	110P-B-11
4、挡块 Roller	110P-B-04	12、配气杆 Air distribution Tube	110P-B-12
5、堵丝 Thread	110P-B-05	13、定位圈 Seat	110P-B-13
6、导向套 Guide Sleeve	110P-B-06	14、螺纹圈 Adjusting Nut	110P-B-14
7、堵丝 Thread	110P-B-07		
8、外套管 Outer Sleeve	110P-B-08		

## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

# 110P-3.2KW(Spline)

### 产品参数 Product data:

总长度 Hammer Length without bit:	681(mm)
后接头螺纹 Top sub thread:	F72*10 BOX
外径 Outside diameter:	103x98(mm)
重量 Weight:	26(KG)
钻头直径 Bit diameter:	110-140(mm)
工作风压 Working Pressure:	7-11(Bar)
耗气量 Air consumption:	7-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	KNSH-110



零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、横肖 Pin	110P-S-01	9、插销 Retainer	110P-S-09
2、卡销 Bracket	110P-S-02	10、后接头 Top Sub	110P-S-10
3、前接头 Driver Sub	110P-S-03	11、配气杆 Air distribution Tube	110P-S-11
4、堵丝 Thread	110P-S-04	12、定位圈 Seat	110P-S-12
5、导向套 Guide Sleeve	110P-S-05	13、螺纹圈 Adjusting Nut	110P-S-13
6、堵丝 Thread	110P-S-06		
7、外套管 Outer Sleeve	110P-S-07		
8、活塞 Piston	110P-S-08		

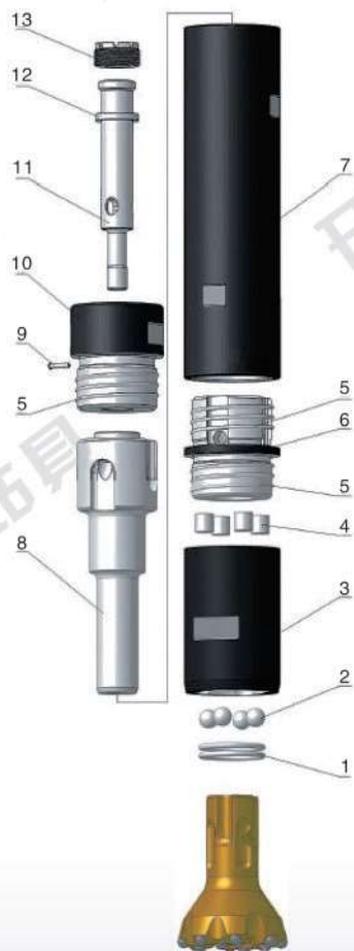
## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

# 130P-4.0KW (Bayonet)

### 产品参数 Product data:

总长度 Hammer Length without bit:	655(mm)
后接头螺纹 Top sub thread:	F72x10 BOX
外径 Outside diameter:	116(mm)
重量 Weight:	35.5(KG)
钻头直径 Bit diameter:	130-160(mm)
工作风压 Working Pressure:	7-11(Bar)
耗气量 Air consumption:	7-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	KNSH-130

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、卡簧 Retainer Ring	130P-B-01	9、插销 Retainer	130P-B-09
2、钢球 Ball	130P-B-02	10、后接头 Top Sub	130P-B-10
3、前接头 Driver Sub	130P-B-03	11、配气杆 Air distribution Tube	130P-B-11
4、挡块 Roller	130P-B-04	12、定位圈 Seat	130P-B-12
5、堵丝 Thread	130P-B-05	13、螺纹圈 Adjusting Nut	130P-B-13
6、导向套 Guide Sleeve	130P-B-06		
7、外套管 Outer Sleeve	130P-B-07		
8、活塞 Piston	130P-B-08		



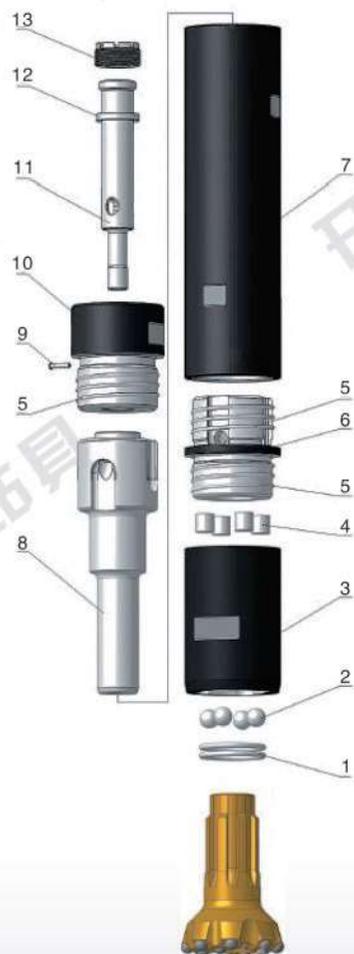
## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

# 130P-4.0KW (Bayonet)

### 产品参数 Product data:

总长度 Hammer Length without bit:	681 (mm)
后接头螺纹 Top sub thread:	F72x10 BOX
外径 Outside diameter:	116 (mm)
重量 Weight:	36 (KG)
钻头直径 Bit diameter:	130-160 (mm)
工作风压 Working Pressure:	7-11 (Bar)
耗气量 Air consumption:	7-12 (M <sup>3</sup> /min)
钻头尾柄 Bit shank:	KNSH-110

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、卡簧 Retainer Ring	130P-B-01	9、插销 Retainer	130P-B-09
2、钢球 Ball	130P-B-02	10、后接头 Top Sub	130P-B-10
3、前接头 Driver Sub	130P-B-03	11、配气杆 Air distribution Tube	130P-B-11
4、挡块 Roller	130P-B-04	12、定位圈 Seat	130P-B-12
5、堵丝 Thread	130P-B-05	13、螺纹圈 Adjusting Nut	130P-B-13
6、导向套 Guide Sleeve	130P-B-06		
7、外套管 Outer Sleeve	130P-B-07		
8、活塞 Piston	130P-B-08		

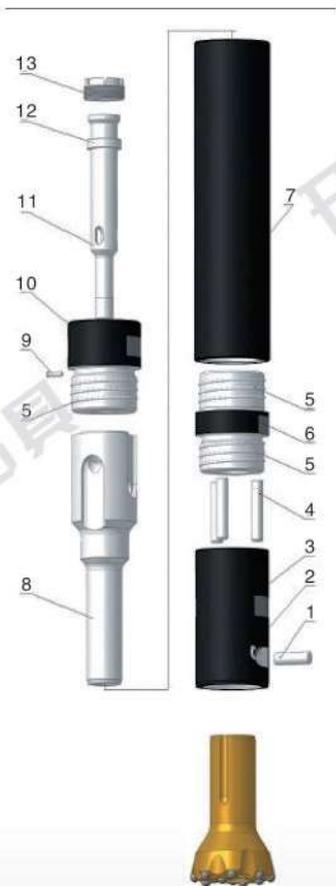


## 低风压潜孔冲击器 LOW AIR PRESSURE HAMMERS

# 140P-4.5KW(Spline)

### 产品参数 Product data:

总长度 Hammer Length without bit:	728(mm)
后接头螺纹 Top sub thread:	F72x10 BOX
外径 Outside diameter:	120(mm)
重量 Weight:	35.5(KG)
钻头直径 Bit diameter:	140-165(mm)
工作风压 Working Pressure:	7-11(Bar)
耗气量 Air consumption:	7-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	KNSH-140



零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、卡簧 Retainer Ring	140P-B-01	9、插销 Retainer	140P-B-09
2、钢球 Ball	140P-B-02	10、后接头 Top Sub	140P-B-10
3、前接头 Driver Sub	140P-B-03	11、配气杆 Air distribution Tube	140P-B-11
4、挡块 Roller	140P-B-04	12、定位圈 Seat	140P-B-12
5、堵丝 Thread	140P-B-05	13、螺纹圈 Adjusting Nut	140P-B-13
6、导向套 Guide Sleeve	140P-B-06		
7、外套管 Outer Sleeve	140P-B-07		
8、活塞 Piston	140P-B-08		

## 中风压潜孔冲击器 MEDIUM AIR PRESSURE HAMMERS

### KQ-M3"

#### 产品参数 Product data:

总长度 Hammer Length without bit:	870(mm)
后接头螺纹 Top sub thread:	F48x10PIN
外径 Outside diameter:	80(mm)
重量 Weight:	24(KG)
钻头直径 Bit diameter:	90-120(mm)
工作风压 Working Pressure:	10-13(Bar)
耗气量 Air consumption:	8-10(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR90/M3

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQM3-01	9、卡簧 Jump Ring	KQM3-09
2、O形圈 O-Ring	KQM3-02	10、导向套 Guide Sleeve	KQM3-10
3、顶头 Cap	KQM3-03	11、前接头 Driver Sub	KQM3-11
4、逆止阀 Check Valve	KQM3-04	12、卡环 Bit Retainer Ring	KQM3-12
5、弹簧 Spring	KQM3-05	13、前接头 Driver Sub	KQM3-13
6、阀座 Air Distributor	KQM3-06	14、外套管 Outer Sleeve	KQM3-14
7、气缸 Inner Cylinder	KQM3-07		
8、活塞 Piston	KQM3-08		



## 中风压潜孔冲击器 MEDIUM AIR PRESSURE HAMMERS

### KQ-M3"(NEW)

#### 产品参数 Product data:

总长度 Hammer Length without bit:	775(mm)
后接头螺纹 Top sub thread:	F48x10PIN
外径 Outside diameter:	82(mm)
重量 Weight:	21(KG)
钻头直径 Bit diameter:	90-120(mm)
工作风压 Working Pressure:	10-13(Bar)
耗气量 Air consumption:	8-10(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR90/M3

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQM3-01	9、导向套 Guide Sleeve	KQM3-09
2、O形圈 O-Ring	KQM3-02	10、前接头 Driver Sub	KQM3-10
3、顶头 Cap	KQM3-03	11、卡环 Bit Retainer Ring	KQM3-11
4、逆止阀 Check Valve	KQM3-04	12、前接头 Driver Sub	KQM3-12
5、弹簧 Spring	KQM3-05	13、外套管 Outer Sleeve	KQM3-13
6、阀座 Air Distributor	KQM3-06		
7、气缸 Inner Cylinder	KQM3-07		
8、活塞 Piston	KQM3-08		



## 中风压潜孔冲击器 MEDIUM AIR PRESSURE HAMMERS

### KQ-M4"

#### 产品参数 Product data:

总长度 Hammer Length without bit:	764(mm)
后接头螺纹 Top sub thread:	API 23/8"REG BOX
外径 Outside diameter:	102(mm)
重量 Weight:	33(KG)
钻头直径 Bit diameter:	115-150(mm)
工作风压 Working Pressure:	10-15(Bar)
耗气量 Air consumption:	8-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR110

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQM4-01	8、活塞 Piston	KQM4-08
2、O形圈 O-Ring	KQM4-02	9、导向套 Guide Sleeve	KQM4-09
3、顶头 Cap	KQM4-03	10、前接头 Driver Sub	KQM4-10
4、逆止阀 Check Valve	KQM4-04	11、外套管 Outer Sleeve	KQM4-11
5、弹簧 Spring	KQM4-05		
6、阀座 Air Distributor	KQM4-06		
7、气缸 Inner Cylinder	KQM4-07		



## 中风压潜孔冲击器 MEDIUM AIR PRESSURE HAMMERS

# KQ-CP110

### 产品参数 Product data:

总长度 Hammer Length without bit:	723/737(mm)
后接头螺纹 Top sub thread:	F68*10BOX
外径 Outside diameter:	99(mm)
重量 Weight:	27.2(KG)
钻头直径 Bit diameter:	110-140(mm)
工作风压 Working Pressure:	7-13(Bar)
耗气量 Air consumption:	7-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	P-110/CIR110

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	CP110-01	9、导向套 Guide Sleeve	CP110-09
2、O形圈 O-Ring	CP110-02	10、前接头 Driver Sub(CIR110)	CP110-10
3、顶头 Cap	CP110-03	11、前接头 Driver Sub(P-110)	CP110-11
4、逆止阀 Check Valve	CP110-04	12、外套管 Outer Sleeve	CP110-12
5、弹簧 Spring	CP110-05		
6、阀座 Air Distributor	CP110-06		
7、气缸 Inner Cylinder	CP110-07		
8、活塞 Piston	CP110-08		



## 中风压潜孔冲击器 MEDIUM AIR PRESSURE HAMMERS

# KQ-M5"/CP130

### 产品参数 Product data:

总长度 Hammer Length without bit:	767(mm)
后接头螺纹 Top sub thread:	API 23/8"REG BOX
外径 Outside diameter:	116(mm)
重量 Weight:	43(KG)
钻头直径 Bit diameter:	130-150(mm)
工作风压 Working Pressure:	10-15(Bar)
耗气量 Air consumption:	10-14(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR110

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQM5-01	8、活塞 Piston	KQM5-08
2、O形圈 O-Ring	KQM5-02	9、导向套 Guide Sleeve	KQM5-09
3、顶头 Cap	KQM5-03	10、前接头 Driver Sub	KQM5-10
4、逆止阀 Check Valve	KQM5-04	11、外套管 Outer Sleeve	KQM5-11
5、弹簧 Spring	KQM5-05		
6、阀座 Air Distributor	KQM5-06		
7、气缸 Inner Cylinder	KQM5-07		



## 中风压潜孔冲击器 MEDIUM AIR PRESSURE HAMMERS

### KQ-M6"

#### 产品参数 Product data:

总长度 Hammer Length without bit:	877(mm)
后接头螺纹 Top sub thread:	API 23/8"REG BOX
外径 Outside diameter:	137.5(mm)
重量 Weight:	72(KG)
钻头直径 Bit diameter:	150-200(mm)
工作风压 Working Pressure:	10-15(Bar)
耗气量 Air consumption:	12-20(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	CIR150

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQM6-01	8、导向套 Guide Sleeve	KQM6-08
2、O形圈 O-Ring	KQM6-02	9、前接头 Driver Sub	KQM6-09
3、逆止阀 Check Valve	KQM6-03	10、外套管 Outer Sleeve	KQM6-10
4、弹簧 Spring	KQM6-04		
5、阀座 Air Distributor	KQM6-05		
6、气缸 Inner Cylinder	KQM6-06		
7、活塞 Piston	KQM6-07		



## 中风压潜孔冲击器 MEDIUM AIR PRESSURE HAMMERS

### KQ-BR1"

#### 产品参数 Product data:

总长度 Hammer Length without bit:	698(mm)
后接头螺纹 Top sub thread:	RD40 BOX
外径 Outside diameter:	56(mm)
重量 Weight:	8.8(KG)
钻头直径 Bit diameter:	64-76(mm)
工作风压 Working Pressure:	8-15(Bar)
耗气量 Air consumption:	3-4(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	BR1

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQBR1-01	8、导向套 Guide Sleeve	KQBR1-08
2、O形圈 O-Ring	KQBR1-02	09、前接头 Driver Sub	KQBR1-09
3、逆止阀 Check Valve	KQBR1-03	10、外套管 Outer Sleeve	KQBR1-10
4、弹簧 Spring	KQBR1-04		
5、阀座 Air Distributor	KQBR1-05		
6、气缸 Inner Cylinder	KQBR1-06		
7、活塞 Piston	KQBR1-07		



## 中风压潜孔冲击器 MEDIUM AIR PRESSURE HAMMERS

### KQ-BR2"

#### 产品参数 Product data:

总长度 Hammer Length without bit:	810(mm)
后接头螺纹 Top sub thread:	RD50 BOX
外径 Outside diameter:	64(mm)
重量 Weight:	12.5(KG)
钻头直径 Bit diameter:	70-90(mm)
工作风压 Working Pressure:	8-15(Bar)
耗气量 Air consumption:	3-4.5(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	BR2

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQBR2-01	8、导向套 Guide Sleeve	KQBR2-08
2、O形圈 O-Ring	KQBR2-02	09、前接头 Driver Sub	KQBR2-09
3、逆止阀 Check Valve	KQBR2-03	10、外套管 Outer Sleeve	KQBR2-10
4、弹簧 Spring	KQBR2-04		
5、阀座 Air Distributor	KQBR2-05		
6、气缸 Inner Cylinder	KQBR2-06		
7、活塞 Piston	KQBR2-07		



## 中风压潜孔冲击器 MEDIUM AIR PRESSURE HAMMERS

### KQ-BR3"

#### 产品参数 Product data:

总长度 Hammer Length without bit:	871 (mm)
后接头螺纹 Top sub thread:	RD50 BOX
外径 Outside diameter:	82 (mm)
重量 Weight:	21 (KG)
钻头直径 Bit diameter:	90-115 (mm)
工作风压 Working Pressure:	10-17 (Bar)
耗气量 Air consumption:	4-7 (M <sup>3</sup> /min)
钻头尾柄 Bit shank:	BR3

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQBR3-01	8、导向套 Guide Sleeve	KQBR3-08
2、O形圈 O-Ring	KQBR3-02	09、前接头 Driver Sub	KQBR3-09
3、逆止阀 Check Valve	KQBR3-03	10、外套管 Outer Sleeve	KQBR3-10
4、弹簧 Spring	KQBR3-04		
5、阀座 Air Distributor	KQBR3-05		
6、气缸 Inner Cylinder	KQBR3-06		
7、活塞 Piston	KQBR3-07		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

### KQL4A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	1050(mm)
后接头螺纹 Top sub thread:	API 23/8"REG PIN
外径 Outside diameter:	99(mm)
重量 Weight:	42.5(KG)
钻头直径 Bit diameter:	110-140(mm)
工作风压 Working Pressure:	10-20(Bar)
耗气量 Air consumption:	6-10(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	QL40

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQL4A-01	9、卡环 Bit Retainer Ring	KQL4A-09
2、O形圈 O-Ring	KQL4A-02	10、O形圈 O-Ring	KQL4A-10
3、逆止阀 Check Valve	KQL4A-03	11、前接头 Driver Sub	KQL4A-11
4、弹簧 Spring	KQL4A-04	12、外套管 Outer Sleeve	KQL4A-12
5、阀座 Air Distributor	KQL4A-05		
6、气缸 Inner Cylinder	KQL4A-06		
7、活塞 Piston	KQL4A-07		
8、导向套 Guide Sleeve	KQL4A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

### KQL5A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	1075(mm)
后接头螺纹 Top sub thread:	API 23/8"REG PIN
外径 Outside diameter:	126(mm)
重量 Weight:	65(KG)
钻头直径 Bit diameter:	135-165(mm)
工作风压 Working Pressure:	10-20(Bar)
耗气量 Air consumption:	8-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	QL50

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQL5A-01	09、卡环 Bit Retainer Ring	KQL5A-09
2、O形圈 O-Ring	KQL5A-02	10、O形圈 O-Ring	KQL5A-10
3、逆止阀 Check Valve	KQL5A-03	11、前接头 Driver Sub	KQL5A-11
4、弹簧 Spring	KQL5A-04	12、外套管 Outer Sleeve	KQL5A-12
5、阀座 Air Distributor	KQL5A-05		
6、气缸 Inner Cylinder	KQL5A-06		
7、活塞 Piston	KQL5A-07		
8、导向套 Guide Sleeve	KQL5A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

### KQL6A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	1146(mm)
后接头螺纹 Top sub thread:	API 31/2"REG PIN
外径 Outside diameter:	150(mm)
重量 Weight:	105(KG)
钻头直径 Bit diameter:	165-203(mm)
工作风压 Working Pressure:	12-24(Bar)
耗气量 Air consumption:	12-20(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	QL60

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQL6A-01	9、卡环 Bit Retainer Ring	KQL6A-09
2、O形圈 O-Ring	KQL6A-02	10、O形圈 O-Ring	KQL6A-10
3、逆止阀 Check Valve	KQL6A-03	11、前接头 Driver Sub	KQL6A-11
4、弹簧 Spring	KQL6A-04	12、外套管 Outer Sleeve	KQL6A-12
5、阀座 Air Distributor	KQL6A-05		
6、气缸 Inner Cylinder	KQL6A-06		
7、活塞 Piston	KQL6A-07		
8、导向套 Guide Sleeve	KQL6A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

### KQL8A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	1333(mm)
后接头螺纹 Top sub thread:	API 41/2"REG PIN
外径 Outside diameter:	185(mm)
重量 Weight:	190(KG)
钻头直径 Bit diameter:	195-254(mm)
工作风压 Working Pressure:	12-24(Bar)
耗气量 Air consumption:	15-28(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	QL80

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KQL8A-01	9、卡环 Bit Retainer Ring	KQL8A-09
2、O形圈 O-Ring	KQL8A-02	10、O形圈 O-Ring	KQL8A-10
3、逆止阀 Check Valve	KQL8A-03	11、前接头 Driver Sub	KQL8A-11
4、弹簧 Spring	KQL8A-04	12、外套管 Outer Sleeve	KQL8A-12
5、阀座 Air Distributor	KQL8A-05		
6、气缸 Inner Cylinder	KQL8A-06		
7、活塞 Piston	KQL8A-07		
8、导向套 Guide Sleeve	KQL8A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

### KD25A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	844(mm)
后接头螺纹 Top sub thread:	F48x10PIN
外径 Outside diameter:	71(mm)
重量 Weight:	16(KG)
钻头直径 Bit diameter:	76-90(mm)
工作风压 Working Pressure:	10-17(Bar)
耗气量 Air consumption:	6-10(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	KD25A

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KD25A-01	9、导向套 Guide Sleeve	KD25A-09
2、O形圈 O-Ring	KD25A-02	10、卡环 Bit Retainer Ring	KD25A-10
3、顶头 Cap	KD25A-03	11、O形圈 O-Ring	KD25A-11
4、逆止阀 Check Valve	KD25A-04	12、前接头 Driver Sub	KD25A-12
5、弹簧 Spring	KD25A-05	13、外套管 Outer Sleeve	KD25A-13
6、阀座 Air Distributor	KD25A-06		
7、气缸 Inner Cylinder	KD25A-07		
8、活塞 Piston	KD25A-08		



## 高风压潜孔冲击器 **HIGH AIR PRESSURE HAMMERS** **KD35A**

### 产品参数 Product data:

总长度 Hammer Length without bit:	899(mm)
后接头螺纹 Top sub thread:	API 23/8"REG PIN
外径 Outside diameter:	82(mm)
重量 Weight:	25(KG)
钻头直径 Bit diameter:	90-110(mm)
工作风压 Working Pressure:	10-17(Bar)
耗气量 Air consumption:	6-10(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	DHD3.5

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KD35A-01	9、导向套 Guide Sleeve	KD35A-09
2、O形圈 O-Ring	KD35A-02	10、卡环 Bit Retainer Ring	KD35A-10
3、顶头 Cap	KD35A-03	11、O形圈 O-Ring	KD35A-11
4、逆止阀 Check Valve	KD35A-04	12、前接头 Driver Sub	KD35A-12
5、弹簧 Spring	KD35A-05	13、外套管 Outer Sleeve	KD35A-13
6、阀座 Air Distributor	KD35A-06		
7、气缸 Inner Cylinder	KD35A-07		
8、活塞 Piston	KD35A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

### KD45A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	976(mm)
后接头螺纹 Top sub thread:	API 23/8"REG PIN
外径 Outside diameter:	99(mm)
重量 Weight:	40.5(KG)
钻头直径 Bit diameter:	105-140(mm)
工作风压 Working Pressure:	10-20(Bar)
耗气量 Air consumption:	6-10(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	DHD340、COP44

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KD45A-01	9、卡环 Bit Retainer Ring	KD45A-09
2、O形圈 O-Ring	KD45A-02	10、O形圈 O-Ring	KD45A-10
3、逆止阀 Check Valve	KD45A-03	11、前接头 Driver Sub	KD45A-11
4、弹簧 Spring	KD45A-04	12、外套管 Outer Sleeve	KD45A-12
5、阀座 Air Distributor	KD45A-05		
6、气缸 Inner Cylinder	KD45A-06		
7、活塞 Piston	KD45A-07		
8、导向套 Guide Sleeve	KD45A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

# KD55A

### 产品参数 Product data:

总长度 Hammer Length without bit:	1095(mm)
后接头螺纹 Top sub thread:	API 23/8"REG PIN
外径 Outside diameter:	126(mm)
重量 Weight:	66(KG)
钻头直径 Bit diameter:	138-165(mm)
工作风压 Working Pressure:	10-20(Bar)
耗气量 Air consumption:	8-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	DHD350R、COP54

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KD55A-01	09、卡环 Bit Retainer Ring	KD55A-09
2、O形圈 O-Ring	KD55A-02	10、O形圈 O-Ring	KD55A-10
3、逆止阀 Check Valve	KD55A-03	11、前接头 Driver Sub	KD55A-11
4、弹簧 Spring	KD55A-04	12、外套管 Outer Sleeve	KD55A-12
5、阀座 Air Distributor	KD55A-05		
6、气缸 Inner Cylinder	KD55A-06		
7、活塞 Piston	KD55A-07		
8、导向套 Guide Sleeve	KD55A-08		



## 高风压潜孔冲击器 **HIGH AIR PRESSURE HAMMERS** **KD65A**

### 产品参数 Product data:

总长度 Hammer Length without bit:	1240(mm)
后接头螺纹 Top sub thread:	API 31/2"REG PIN
外径 Outside diameter:	148(mm)
重量 Weight:	110(KG)
钻头直径 Bit diameter:	165-203(mm)
工作风压 Working Pressure:	12-24(Bar)
耗气量 Air consumption:	12-20(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	DHD360、COP64

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KD65A-01	9、卡环 Bit Retainer Ring	KD65A-09
2、O形圈 O-Ring	KD65A-02	10、O形圈 O-Ring	KD65A-10
3、逆止阀 Check Valve	KD65A-03	11、前接头 Driver Sub	KD65A-11
4、弹簧 Spring	KD65A-04	12、外套管 Outer Sleeve	KD65A-12
5、阀座 Air Distributor	KD65A-05		
6、气缸 Inner Cylinder	KD65A-06		
7、活塞 Piston	KD65A-07		
8、导向套 Guide Sleeve	KD65A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

### KD85A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	1351(mm)
后接头螺纹 Top sub thread:	API 41/2"REG PIN
外径 Outside diameter:	185(mm)
重量 Weight:	191(KG)
钻头直径 Bit diameter:	195-254(mm)
工作风压 Working Pressure:	12-24(Bar)
耗气量 Air consumption:	15-28(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	DHD380、COP84

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KD85A-01	9、卡环 Bit Retainer Ring	KD85A-09
2、O形圈 O-Ring	KD85A-02	10、O形圈 O-Ring	KD85A-10
3、逆止阀 Check Valve	KD85A-03	11、前接头 Driver Sub	KD85A-11
4、弹簧 Spring	KD85A-04	12、外套管 Outer Sleeve	KD85A-12
5、阀座 Air Distributor	KD85A-05		
6、气缸 Inner Cylinder	KD85A-06		
7、活塞 Piston	KD85A-07		
8、导向套 Guide Sleeve	KD85A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

### KM4A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	995(mm)
后接头螺纹 Top sub thread:	API 23/8"REG PIN
外径 Outside diameter:	99(mm)
重量 Weight:	40.5(KG)
钻头直径 Bit diameter:	105-140(mm)
工作风压 Working Pressure:	10-20(Bar)
耗气量 Air consumption:	6-10(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	Mission40

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KM4A-01	9、卡环 Bit Retainer Ring	KM4A-09
2、O形圈 O-Ring	KM4A-02	10、O形圈 O-Ring	KM4A-10
3、逆止阀 Check Valve	KM4A-03	11、前接头 Driver Sub	KM4A-11
4、弹簧 Spring	KM4A-04	12、外套管 Outer Sleeve	KM4A-12
5、阀座 Air Distributor	KM4A-05		
6、气缸 Inner Cylinder	KM4A-06		
7、活塞 Piston	KM4A-07		
8、导向套 Guide Sleeve	KM4A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

# KM5A

### 产品参数 Product data:

总长度 Hammer Length without bit:	1095(mm)
后接头螺纹 Top sub thread:	API 23/8"REG PIN
外径 Outside diameter:	126(mm)
重量 Weight:	66(KG)
钻头直径 Bit diameter:	138-165(mm)
工作风压 Working Pressure:	10-20(Bar)
耗气量 Air consumption:	8-12(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	Mission50

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KM5A-01	09、卡环 Bit Retainer Ring	KM5A-09
2、O形圈 O-Ring	KM5A-02	10、O形圈 O-Ring	KM5A-10
3、逆止阀 Check Valve	KM5A-03	11、前接头 Driver Sub	KM5A-11
4、弹簧 Spring	KM5A-04	12、外套管 Outer Sleeve	KM5A-12
5、阀座 Air Distributor	KM5A-05		
6、气缸 Inner Cylinder	KM5A-06		
7、活塞 Piston	KM5A-07		
8、导向套 Guide Sleeve	KM5A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

### KM6A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	1123(mm)
后接头螺纹 Top sub thread:	API 31/2"REG PIN
外径 Outside diameter:	150(mm)
重量 Weight:	104(KG)
钻头直径 Bit diameter:	165-203(mm)
工作风压 Working Pressure:	12-24(Bar)
耗气量 Air consumption:	12-20(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	Mission60

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KM6A-01	9、卡环 Bit Retainer Ring	KM6A-09
2、O形圈 O-Ring	KM6A-02	10、O形圈 O-Ring	KM6A-10
3、逆止阀 Check Valve	KM6A-03	11、前接头 Driver Sub	KM6A-11
4、弹簧 Spring	KM6A-04	12、外套管 Outer Sleeve	KM6A-12
5、阀座 Air Distributor	KM6A-05		
6、气缸 Inner Cylinder	KM6A-06		
7、活塞 Piston	KM6A-07		
8、导向套 Guide Sleeve	KM6A-08		



## 高风压潜孔冲击器 HIGH AIR PRESSURE HAMMERS

### KM8A

#### 产品参数 Product data:

总长度 Hammer Length without bit:	1330(mm)
后接头螺纹 Top sub thread:	API 41/2"REG PIN
外径 Outside diameter:	185(mm)
重量 Weight:	190(KG)
钻头直径 Bit diameter:	195-254(mm)
工作风压 Working Pressure:	12-24(Bar)
耗气量 Air consumption:	15-28(M <sup>3</sup> /min)
钻头尾柄 Bit shank:	Mission80

零部件名称 Item Description	零部件代号 Part Number	零部件名称 Item Description	零部件代号 Part Number
1、后接头 Top Sub	KM8A-01	9、卡环 Bit Retainer Ring	KM8A-09
2、O形圈 O-Ring	KM8A-02	10、O形圈 O-Ring	KM8A-10
3、逆止阀 Check Valve	KM8A-03	11、前接头 Driver Sub	KM8A-11
4、弹簧 Spring	KM8A-04	12、外套管 Outer Sleeve	KM8A-12
5、阀座 Air Distributor	KM8A-05		
6、气缸 Inner Cylinder	KM8A-06		
7、活塞 Piston	KM8A-07		
8、导向套 Guide Sleeve	KM8A-08		

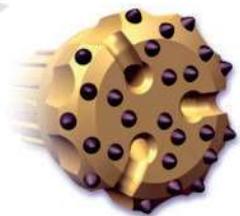


## 钻头头部形状选择 Bit Face Shape Selection



**凹面型** 这种头部形状适用于所有岩层，特别是在中硬和岩性均匀的岩层中使用效果最好。炮孔偏离度小，排渣效果好。

**Concave Face** the all-round application bit face specifically for medium hard and homogenous rock formations. Good hole deviation control and good flushing capacity.



**凸面型** 这种形状适用于低——中风压时钻凿软——中硬岩层，钻头钢体不易磨蚀。其特点是边齿承载较低，磨损不严重，钻岩速度快，但炮孔偏差难以控制。

**Convex-Face** For high penetration rates in soft to medium-hard with low to medium air pressures. It is the most resistance to steel wash, and may reduce the load and wear on the gauge buttons, but poor hole deviation control.



**平面型** 这种平型头部适用于高风压时钻凿很坚硬岩层以及磨蚀性强的岩层。此时，钻速较快，钻体磨蚀较少。

**Flat Face** This kind of face shape is suitable for hard to very hard and abrasive rock formations in applications with high air pressures. Good penetration rates and resistance to steel wash.

## 硬质合金齿形状选择 Carbide Button Shape Selection



### 球齿

主要用作潜孔钻头边齿，  
适用于磨蚀性强、非常坚硬的岩石。

### Domed/Round Button

Domed/Round Buttons are usually used as gauge buttons of DTH Bits, suitable for very abrasive and very hard formations.



### 抛物线齿

主要用作潜孔钻头的边齿和中齿，  
适用于磨蚀性中等、比较坚硬的岩石。

### Parabolic/Semi-Ballistic Button

Parabolic Buttons are usually used as gauge buttons and front buttons of DTH Bits, suitable for medium abrasive and hard formations.



### 弹头齿

主要用作潜孔钻头的中齿，  
适用于磨蚀性中等、硬度中等的岩石。岩石比较软的情况下也可以做边齿

### Ballistic Button

Ballistic Buttons are usually used as front buttons of DTH Bits, suitable for medium abrasive and medium hard formations. They can also be used as gauge buttons if the rock is soft



### 尖齿

主要用作潜孔钻头的中齿，适用于高钻速、低断齿率的软岩层。

### Sharp Button

Sharp Buttons are usually used as front buttons of DTH Bits for soft formations where fast penetration rates are possible and button breakage is minimal.



### 平头齿

主要用作潜孔钻头边保护齿，减少钻头体表面的磨损。

### Flat Button

Flat Buttons are usually used as protection buttons to reduce wear on rubbing surfaces of DTH Bits.

低风压潜孔钻头 Low Air Pressure DTH Bits

CIR Series

CIR50	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
尖齿/平面型 Ballistic button/Flat face 	50	3×φ10	4	70
CIR60	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
尖齿/平面型 Ballistic button/Flat face 	60	3×φ12	4	82
CIR65	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
尖齿/平面型 Ballistic button/Flat face 	65	4×φ12	4	105
CIR70	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
尖齿/平面型 Ballistic button/Flat face 	76	5×φ12	4	112

低风压潜孔钻头 Low Air Pressure DTH Bits

CIR Series

CIR90	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
尖齿/凸面型 Ballistic button/Convex face 	90	6×φ14	6	130
	100	6×φ14	6	130
	110	6×φ14	6	130
	120	6×φ14	6	130
	130	7×φ14	6	130
CIR110	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
尖齿/凸面型 Ballistic button/Convex face 	110	6×φ14	6	140
	120	6×φ14	6	140
	130	7×φ14	6	140
	140	8×φ14	6	140
	150	8×φ14	6	140
	170	9×φ14	6	140
尖齿/平面型 Ballistic button/Flat face 	110	6×φ14	6	140
	120	6×φ14	6	140
	130	7×φ14	6	140
	140	8×φ14	6	140
	150	8×φ14	6	140
	170	9×φ14	6	140
CIR130(Shank 65mm and 76mm)	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
尖齿/凸面型 Ballistic button/Convex face 	130	7×φ14	6	140
	140	8×φ14	6	140
	150	8×φ14	6	140
	170	9×φ14	6	140

高风压潜孔钻头 High Air Pressure DTH Bits

Cop/DHD Series

DHD3.5	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	85	6×φ13	8	180
	90	6×φ14	8	180
	95	6×φ14	8	180
	100	6×φ14	8	180
	105	6×φ14	8	180
COP44/DHD340	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	105	6×φ14	8	209
	110	6×φ16	8	209
	115	7×φ16	8	209
	120	7×φ16	8	209
	125	8×φ16	8	209
	130	8×φ16	8	209
COP54/DHD350R	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	133	7×φ16	8	260
	140	7×φ18	8	260
	146	8×φ18	8	260
	152	8×φ18	8	260
	165	8×φ18	8	260

高风压潜孔钻头 High Air Pressure DTH Bits

Cop/DHD Series

COP64/DHD360	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	152	8×φ18	8	309
	165	8×φ18	8	309
	175	8×φ18	8	309
	190	10×φ18	8	309
	203	10×φ18	8	309
COP84/DHD380	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	195	9×φ18	10	350
	203	10×φ18	10	350
	216	10×φ18	10	350
	254	12×φ18	10	350
	305	12×φ18	10	350

## 高风压潜孔钻头 High Air Pressure DTH Bits **QL Series**

QL40	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	105	6×φ14	10	280
	110	6×φ16	10	280
	115	7×φ16	10	280
	120	7×φ16	10	280
	125	8×φ16	10	280
	130	8×φ16	10	280
QL50	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	133	7×φ16	12	240
	140	7×φ18	12	240
	146	8×φ18	12	240
	152	8×φ18	12	240
	165	8×φ18	12	240
QL60	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	152	8×φ18	12	253
	165	8×φ18	12	253
	175	8×φ18	12	253
	190	10×φ18	12	253
	203	10×φ18	12	253
QL80	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	195	9×φ18	16	332
	203	10×φ18	16	332
	216	10×φ18	16	332
	254	12×φ18	16	332
	305	12×φ18	16	332

## 高风压潜孔钻头 High Air Pressure DTH Bits Mission Series

Mission40	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	105	6×φ14	10	228
	110	6×φ16	10	228
	115	7×φ16	10	228
	120	7×φ16	10	228
	125	8×φ16	10	228
	130	8×φ16	10	228
Mission50	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	133	7×φ16	12	260
	140	7×φ18	12	260
	146	8×φ18	12	260
	152	8×φ18	12	260
	165	8×φ18	12	260
Mission60	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	152	8×φ18	12	231
	165	8×φ18	12	231
	175	8×φ18	12	231
	190	10×φ18	12	231
	203	10×φ18	12	231
Mission80	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	195	9×φ18	16	329
	203	10×φ18	16	329
	216	10×φ18	16	329
	254	12×φ18	16	329
	305	12×φ18	16	329

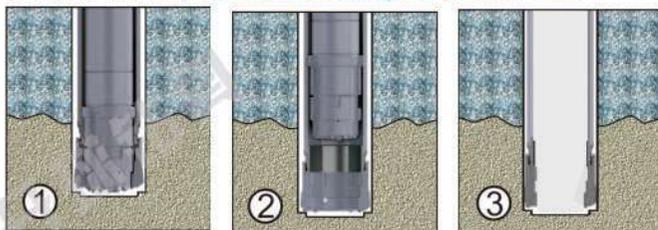
## 中风压潜孔钻头 Medium Air Pressure DTH Bits **BR Series**

BR1	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	64	6×φ10	6	163
	70	6×φ12	6	163
	76	6×φ12	6	163
BR2	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	76	6×φ12	6	165
	80	6×φ13	6	165
	90	6×φ13	6	165
BR3	直径Dia.(mm)	边齿 Gauge button	花键数 Spline Quantity	尾部长度 Bit Shank Length
	90	6×φ14	6	165
	96	6×φ14	6	165
	100	6×φ13	6	165
	105	6×φ13	6	165

## 同心跟管钻具 Symmetric Drilling Tools with casing tube

### •可回收同心跟管钻具钻进步骤

Retrievable Symmetric Drilling tools with casing



1.开始工作时,中心钻头带动环形钻头向下钻进,同时也带动管靴和跟管向下跟进。

When the drilling starts, the central bit drive the ring bit down the hole, meanwhile the casing shoe and casing tube follow down together.

2.到达基岩时,反转钻头,将中心钻头从孔中提出,环形钻头留在孔底。

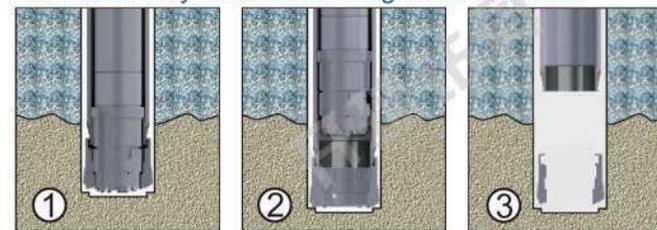
When arriving the bedrock, reversly rotate the tools and the central bit is pulled out from the hole.

3.边注浆边将跟管连同环形钻头从底部拔出。

During pouring the concretes through the casing tube, pull out the casing tube with the ring bit synchronoly.

### •不可回收同心跟管钻具钻进步骤

Permanent Symmetric Drilling tools with casing



1.开始工作时,中心钻头带动环形钻头向下钻进,同时也带动管靴和跟管向下跟进。

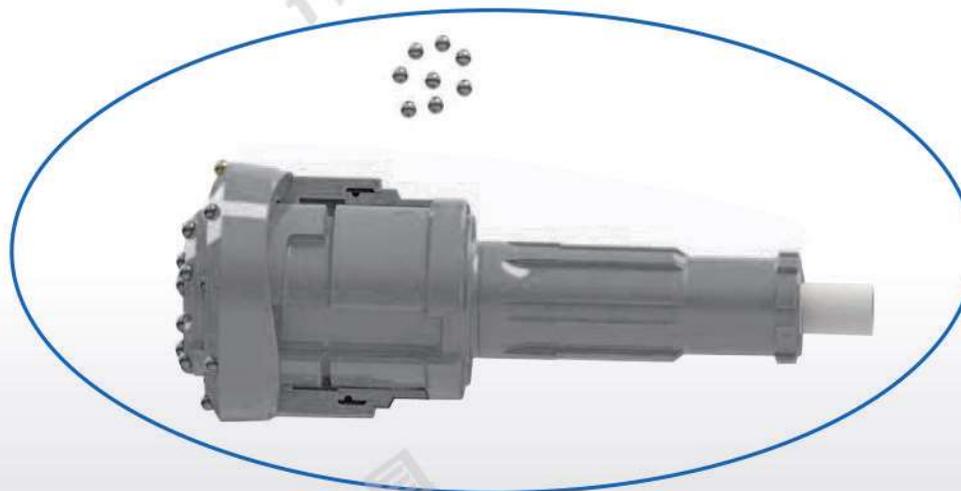
When the drilling starts, the central bit drive the ring bit down the hole, meanwhile the casing shoe and casing tube follow down together.

2.到达基岩时,反转钻头,将中心钻头从孔中提出,环形钻头留在孔底。

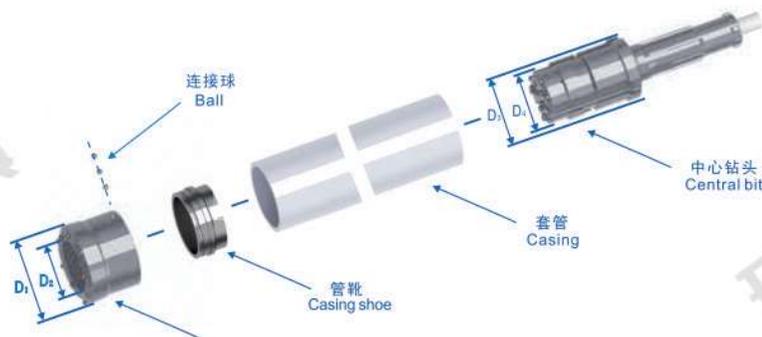
When arriving the bedrock, reversly rotate the tools and the central bit is pulled out while leaving ring bit in the hole bottom.

3.直接注浆或者进行下一步施工。

Pouring the concretes into the casing tube or move to next filed work process.



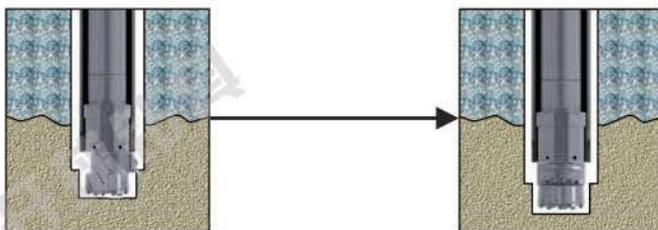
## 同心跟管钻具 Symmetric Drilling Tools with casing tube



## 规格参数 Specification

总成代号 Assembly Code	套管 Casing tube		环形钻头 Ring bit		中心钻头 Central bit		配套冲击器 Hammer	钻杆 Drill pipe dia. (mm)
	外径 Outside dia. (mm)	最大壁厚 Wall thickness (mm)	D <sub>1</sub> (mm)	D <sub>2</sub> (mm)	D <sub>3</sub> (mm)	D <sub>4</sub> (mm)		
TGZ75-3.5-108/7.5	108	7.5	118	77	91	75	DHD3.5	76
TGZ80-3.5-114/6	114	6	127	88	100	80	DHD3.5	76
TGZ90-3.5-127/6.5	127	6.5	138	92	112	90	DHD3.5	76
TGZ103-340-140/6	140	6	152	105	126	103	DHD340A	76
TGZ106-340-146/7.5	146	7.5	158	108	129	106	DHD340A	76
TGZ121-350-168/10.5	168	10.5	189	123.5	145.5	121	DHD350R	76/89
TGZ130-350-168/8	168	8	189	132	149	130	DHD350R	76/89
TGZ136-350-178/9	178	9	192	138	158	136	DHD350R	76/89
TGZ139-350-183/10	183	10	195	141	161	139	DHD350R	76/89
TGZ148-360-194/6.5	194	6.5	211	150	179	148	DHD360	114
TGZ163-360-219/7	219	7	232	165	203	163	DHD360	114
TGZ163-360-219/12.5	219	12.5	232	165	191	163	DHD360	114
TGZ218-380-273/11.5	273	11.5	308	220	247	218	DHD380	114/140
TGZ218-380-273/6.5	273	6.5	308	220	257	218	DHD380	114/140
TGZ253-110-324/9.5	324	9.5	348	255	303	253	DHD110	140/194
TGZ338-112-406/9.5	406	9.5	440	340	382	338	DHD112	194/273

## 偏心跟管钻具 **Eccentric Drilling Tools with casing tube**



1. 偏心跟管是由一个导向钻头一个偏心钻头和一個导向器组成。在进行钻孔操作时偏心钻头扩出足够大的孔使套管尾随其后潜入，而同时粉尘从套管内被吹走。

When drilling, the PGZ reamer swings out and drills a hole wide enough for the casing tube to slide down behind the reamer.

2. 当钻进达到设定深度后, 钻具反方向旋转, 偏心钻头被收拢与导向钻头位置重合, 此时钻具可从套管内提钻取出。

When required depth is reached, the drill is reversed and the reamer swings in, allowing the bit to pass through the casing.



3. 用水泥浆或其他结合剂使套管固定在孔底或拔出。

Casing tube is pulled out directly or fixed at the bottom of the hole by means of cement grout or other agglutinant.

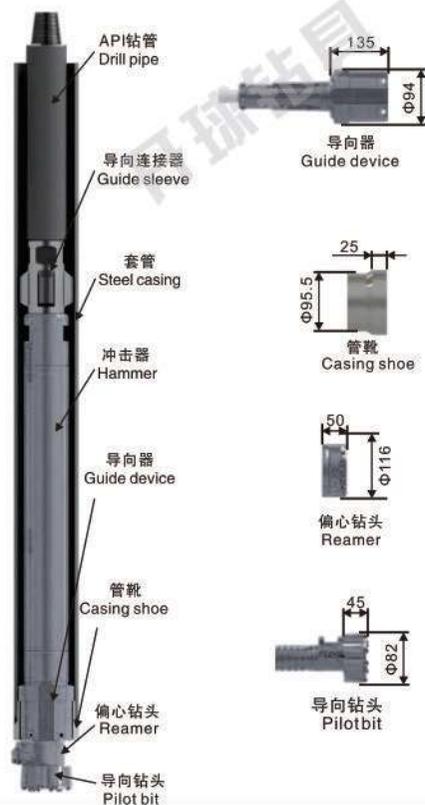
4. 使用常规的潜孔钻头将其从套管内放入至孔底又可继续钻进, 用潜孔钻头持续钻孔至规定的深度。

Drilling continues to the desired depth using conventional DTH equipment.



## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ82-3.5-108/6



套管的选材范围(Alternative casings may be used):

最大外径 (Maximum outside diameter).....	108mm
最小内径 (Minimum inside diameter) .....	96mm
壁厚 (Wall thickness) .....	6mm

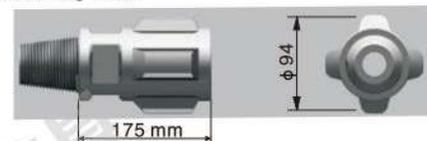
### 部件图 Description

单重(kg)  
Weight

件号  
Part NO.

PGZ82-3.5-108/6尾柄适用于TND-IR3.5、DHD3.5、TD3.5型冲击器 PGZ82-3.5-108/6 shank for TND-IR3.5、DHD3.5、TD3.5 hammer		
导向器 Guide device .....	6.20	DXQ823.5
管靴 Casing shoe .....	0.80	GX82
偏心钻头 Eccentric reamer .....	1.00	PZT82116
导向钻头 Pilot bit .....	3.00	DZT82

导向连接器 Guide sleeve API 2 $\frac{3}{8}$ " REG



5.80

DLQ82

扳手槽 Wrench flat 65mm 分 Guide device locking kit is comprised of three sets:

导向器的锁定装置包含三部

三部分分别是: 2个导向钻头插销, 2个自锁弹簧和8个锁定球, 还有1个用于导向钻头

和弹簧卸销棒  
2 pilot bit pins, 2 self-locking spring pins and 8 locking balls, one pusher for pilot bit pin and spring pin.

A 导向钻头插销 Pilot bit pin .....	( $\phi$ 9.5 × 51mm)	1 piece	0.02	PGZ82-01
B 自锁弹簧 Self-locking spring pin .....	( $\phi$ 11 × 7mm)	1 piece	0.02	PGZ82-02
C 卸销棒 Pusher for pilot bit pin .....	( $\phi$ 7.8 × 140mm)	1 piece	0.04	PGZ82-03
D 锁定球 Locking ball .....	( $\phi$ 9.5mm)	1 piece	0.01	PGZ82-04



A

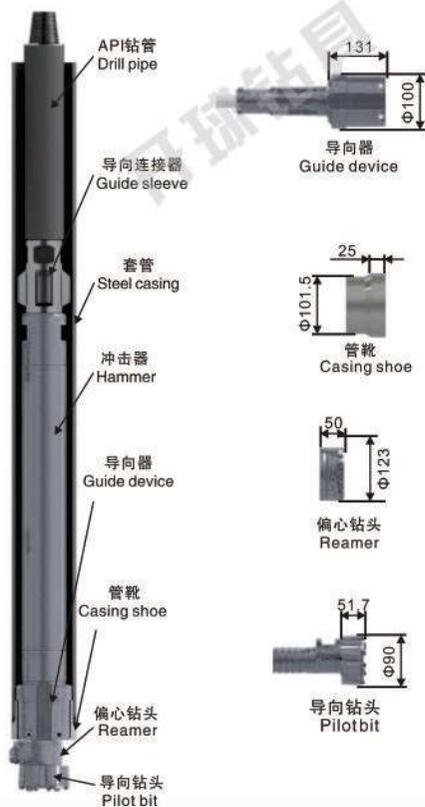
B

C

D

## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ90-3.5-114/6



套管的选材范围(Alternative casings may be used):

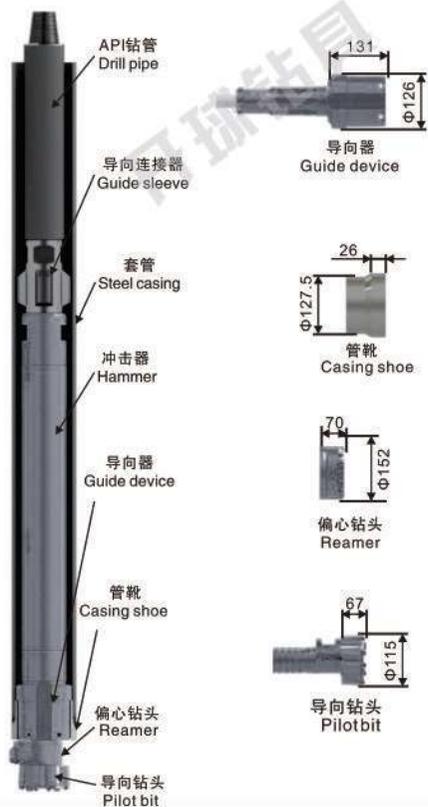
最大外径 (Maximum outside diameter) ..... 115mm  
最小内径 (Minimum inside diameter) ..... 102mm  
壁厚 (Wall thickness) ..... 6mm

部件图 Description	单重(kg) Weight	件号 Part NO.
PGZ90-3.5-114/6尾柄适用于TND-IR3.5、DHD3.5、TD3.5型冲击器 PGZ90-3.5-114/6 shank for TND-IR3.5、DHD3.5、TD3.5 hammer		
导向器 Guide device	7.80	DXQ903.5
管靴 Casing shoe	1.10	GX90
偏心钻头 Eccentric reamer	1.35	PZT90123
导向钻头 Pilot bit	3.60	DZT90
导向连接器 Guide sleeve API 2 $\frac{3}{8}$ " REG	5.80	DLO90
扳手槽 Wrench flat 65mm		
导向器的锁定装置包含三部分 Guide device locking kit is comprised of three sets: 三部分分别是: 2个导向钻头插销, 2个自锁弹簧和8个锁定球, 还有1个用于导向 钻头和弹簧卸销棒 2 pilot bit pins, 2 self-locking spring pins and 8 locking balls, one pusher for pilot bit pin and spring pin.		
A 导向钻头插销 Pilot bit pin ..... ( $\phi 9.5 \times 51\text{mm}$ ) 1 piece	0.02	PGZ90-01
B 自锁弹簧 Self-locking spring pin ..... ( $\phi 11 \times 10\text{mm}$ ) 1 piece	0.02	PGZ90-02
C 卸销棒 Pusher for pilot bit pin ..... ( $\phi 7.8 \times 140\text{mm}$ ) 1 piece	0.04	PGZ90-03
D 锁定球 Locking ball ..... ( $\phi 9.5\text{mm}$ ) 1 piece	0.01	PGZ90-04



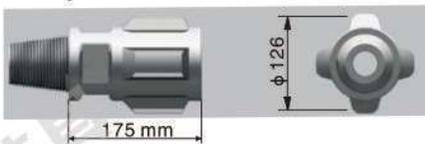
## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ115-340-142/7



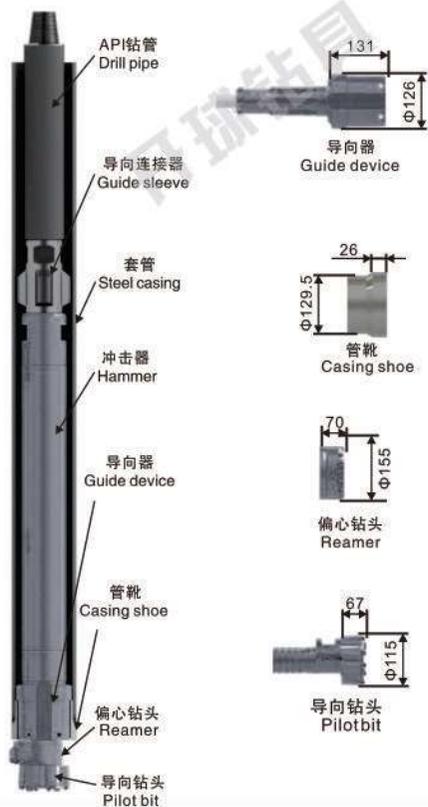
套管的选材范围(Alternative casings may be used):

最大外径 (Maximum outside diameter).....	142mm
最小内径 (Minimum inside diameter) .....	128mm
壁厚 (Wall thickness) .....	7mm

部件图 Description	单重(kg) Weight	件号 Part NO.
PGZ115-340-142/7尾柄适用于TND-IR340、DHD340A、TD4 型冲击器 PGZ115-340-142/7 shank for TND-IR340、DHD340A、TD4 hammer		
导向器 Guide device .....	11.0	DXQ115340
管靴 Casing shoe .....	1.60	GX115A
偏心钻头 Eccentric reamer .....	2.60	PZT115158
导向钻头 Pilot bit .....	7.80	DZT115
导向连接器 Guide sleeve API 2 $\frac{3}{8}$ " REG		
	8.50	DLQ115
扳手槽 Wrench flat 65mm		
导向器的锁定装置包含三部分 Guide device locking kit is comprised of three sets: 三部分分别是: 2个导向钻头插销, 2个自锁弹簧和10个锁定球, 还有1个用于导向 钻头和弹簧卸销棒 2 pilot bit pins, 2 self-locking spring pins and 10 locking balls, one pusher for pilot bit pin and spring pin.		
A 导向钻头插销 Pilot bit pin .....	( $\phi$ 11.5 × 62mm) 1 piece	0.03 PGZ115-01
B 自锁弹簧 Self-locking spring pin .....	( $\phi$ 13 × 12mm) 1 piece	0.02 PGZ115-02
C 卸销棒 Pusher for pilot bit pin .....	( $\phi$ 10 × 150mm) 1 piece	0.09 PGZ115-03
D 锁定球 Locking ball .....	( $\phi$ 11mm) 1 piece	0.01 PGZ115-04
		

## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ115-340-146/8



套管的选材范围(Alternative casings may be used):

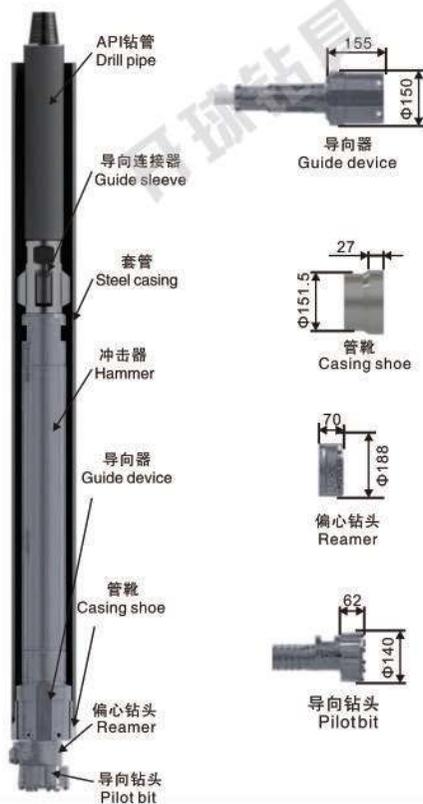
最大外径 (Maximum outside diameter) ..... 146mm  
 最小内径 (Minimum inside diameter) ..... 130mm  
 壁厚 (Wall thickness) ..... 8mm

部件图 Description	单重(kg) Weight	件号 Part NO.
PGZ115-340-146/8尾柄适用于TND-IR340、DHD340A、TD4 型冲击器 PGZ115-340-146/8 shank for TND-IR340、DHD340A、TD4 hammer		
导向器 Guide device	11.7	DXQ115340A
管靴 Casing shoe	1.60	GX115A
偏心钻头 Eccentric reamer	2.60	PZT115158A
导向钻头 Pilot bit	7.80	DZT115
导向连接器 Guide sleeve API 2 $\frac{3}{8}$ " REG	8.50	DLQ115A
扳手槽 Wrench flat 65mm		
导向器的锁定装置包含三部分 Guide device locking kit is comprised of three sets: 三部分分别是: 2个导向钻头插销, 2个自锁弹簧和10个锁定球, 还有1个用于导向 钻头和弹簧卸销棒 2 pilot bit pins, 2 self-locking spring pins and 10 locking balls, one pusher for pilot bit pin and spring pin.		
A 导向钻头插销 Pilot bit pin	0.03	PGZ115-01
B 自锁弹簧 Self-locking spring pin	0.02	PGZ115-02
C 卸销棒 Pusher for pilot bit pin	0.09	PGZ115-03
D 锁定球 Locking ball	0.01	PGZ115-04



## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ140-350-168/8



套管的选材范围(Alternative casings may be used):

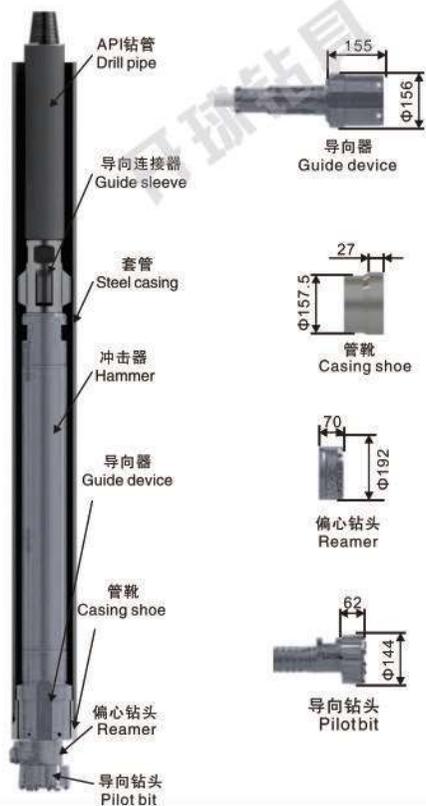
最大外径 (Maximum outside diameter) ..... 168mm  
 最小内径 (Minimum inside diameter) ..... 152mm  
 壁厚 (Wall thickness) ..... 8mm

部件图 Description	单重(kg) Weight	件号 Part NO.
PGZ140-350-168/8尾柄适用于TND-IR350、DHD350R、COP54、DHD5 型冲击器 PGZ140-350-168/8 shank for TND-IR350、DHD350R、COP54、DHD5 hammer		
导向器 Guide device	11.9	DXQ140350
管靴 Casing shoe	2.40	GX140
偏心钻头 Eccentric reamer	4.10	PZT140188
导向钻头 Pilot bit	11.0	DZT140
导向连接器 Guide sleeve		
扳手槽 Wrench flat 65mm	9.00	DLQ140
扳手槽 Wrench flat 95mm	16.4	DLQ140-1
导向器的锁定装置包含三部分 Guide device locking kit is comprised of three sets: 三部分分别是: 2个导向钻头插销, 2个自锁弹簧和12个锁定球, 还有1个用于导向 钻头和弹簧卸销棒 2 pilot bit pins, 2 self-locking spring pins and 12 locking balls, one pusher for pilot bit pin and spring pin.		
A 导向钻头插销 Pilot bit pin	(φ 11.8 × 78mm) 1 piece	0.03 PGZ140-01
B 自锁弹簧 Self-locking spring pin	(φ 13 × 19mm) 1 piece	0.02 PGZ140-02
C 卸销棒 Pusher for pilot bit pin	(φ 10 × 160mm) 1 piece	0.10 PGZ140-03
D 锁定球 Locking ball	(φ 11mm) 1 piece	0.01 PGZ140-04



## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ145-350-178/9



套管的选材范围(Alternative casings may be used):

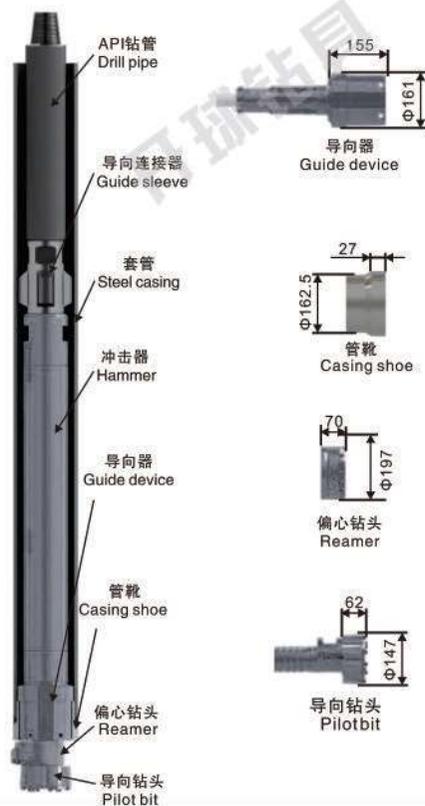
最大外径 (Maximum outside diameter) ..... 178mm  
最小内径 (Minimum inside diameter) ..... 158mm  
壁厚 (Wall thickness) ..... 9mm

部件图 Description	单重(kg) Weight	件号 Part NO.
PGZ145-350-178/9尾柄适用于TND-IR350、DHD350R、COP54、DHD5 型冲击器 PGZ145-350-178/9 shank for TND-IR350、DHD350R、COP54、DHD5 hammer		
导向器 Guide device	20.5	DXQ145350
管靴 Casing shoe	2.60	GX145
偏心钻头 Eccentric reamer	4.50	PZT145192
导向钻头 Pilot bit	12.0	DZT145
导向连接器 Guide sleeve		
扳手槽 Wrench flat 65mm	9.00	DLQ145
扳手槽 Wrench flat 95mm	16.4	DLQ145-1
<p>导向器的锁定装置包含三部分 Guide device locking kit is comprised of three sets: 三部分分别是: 2个导向钻头插销, 2个自锁弹簧和14个锁定球, 还有1个用于导向 钻头和弹簧卸销棒 2 pilot bit pins, 2 self-locking spring pins and 14 locking balls, one pusher for pilot bit pin and spring pin.</p>		
A 导向钻头插销 Pilot bit pin	( $\phi$ 11.8 × 78mm) 1 piece	0.03 PGZ140-01
B 自锁弹簧 Self-locking spring pin	( $\phi$ 13 × 19mm) 1 piece	0.02 PGZ140-02
C 卸销棒 Pusher for pilot bit pin	( $\phi$ 10 × 160mm) 1 piece	0.10 PGZ140-03
D 锁定球 Locking ball	( $\phi$ 11mm) 1 piece	0.01 PGZ140-04



## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ147-350-183/10



套管的选材范围(Alternative casings may be used):

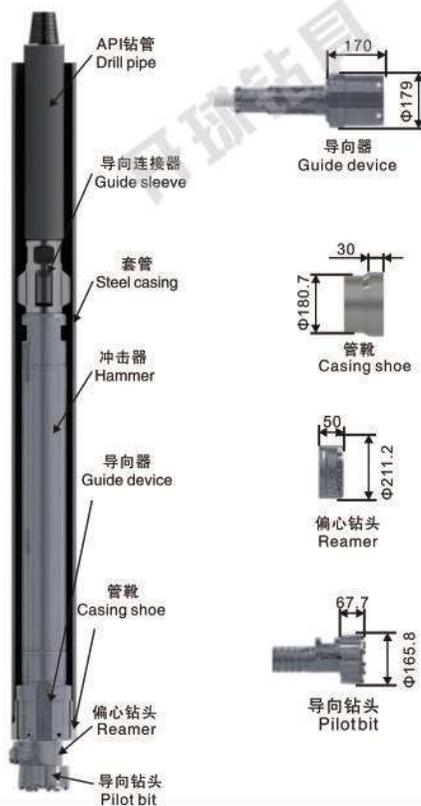
最大外径 (Maximum outside diameter) ..... 183mm  
 最小内径 (Minimum inside diameter) ..... 163mm  
 壁厚 (Wall thickness) ..... 10mm

部件图 Description	单重(kg) Weight	件号 Part NO.
PGZ147-350-183/10尾柄适用于TND-IR350、DHD350R、COP54、DHD5型冲击器 PGZ147-350-183/10 shank for TND-IR350、DHD350R、COP54、DHD5 hammer		
导向器 Guide device	21.0	DXQ147350
管靴 Casing shoe	2.80	GX147
偏心钻头 Eccentric reamer	4.80	PZT147197
导向钻头 Pilot bit	12.5	DZT147
导向连接器 Guide sleeve		
扳手槽 Wrench flat 65mm	9.50	DLQ147
扳手槽 Wrench flat 95mm	17.0	DLQ147-1
导向器的锁定装置包含三部分Guide device locking kit is comprised of three sets: 三部分分别是: 2个导向钻头插销, 2个自锁弹簧和12个锁定球, 还有1个用于导向 钻头和弹簧卸销棒 2 pilot bit pins, 2 self-locking spring pins and 12 locking balls, one pusher for pilot bit pin and spring pin.		
A 导向钻头插销 Pilot bit pin	( $\phi$ 11.8 × 78mm) 1 piece	0.03 PGZ140-01
B 自锁弹簧 Self-locking spring pin	( $\phi$ 13 × 19mm) 1 piece	0.02 PGZ140-02
C 卸销棒 Pusher for pilot bit pin	( $\phi$ 10 × 160mm) 1 piece	0.10 PGZ140-03
D 锁定球 Locking ball	( $\phi$ 11mm) 1 piece	0.01 PGZ140-04



## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ165-360-195/6.5



套管的选材范围(Alternative casings may be used):

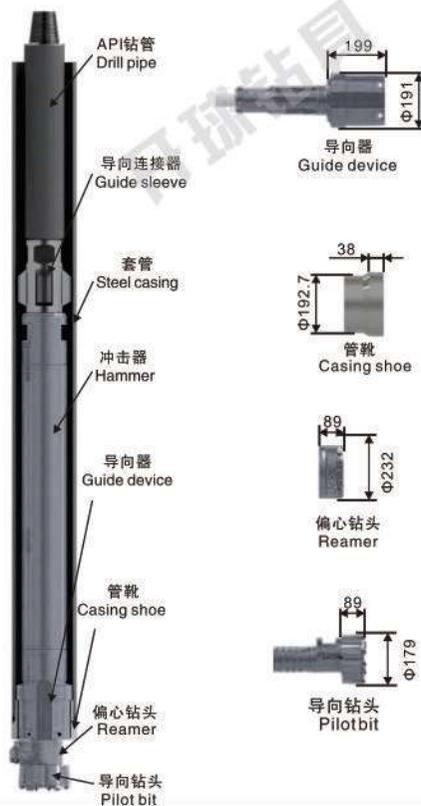
最大外径 (Maximum outside diameter) ..... 195mm  
 最小内径 (Minimum inside diameter) ..... 182mm  
 壁厚 (Wall thickness) ..... 6.5mm

部件图 Description	单重(kg) Weight	件号 Part NO.
PGZ165-360-195/6.5尾柄适用于TND-IR360、DHD360、COP64、DHD6 型冲击器 PGZ165-360-195/6.5 shank for TND-IR360、DHD360、COP64、DHD6 hammer		
导向器 Guide device	33.5	DXQ165360
管靴 Casing shoe	3.20	GX165
偏心钻头 Eccentric reamer	7.00	PZT165211
导向钻头 Pilot bit	17.0	DZT165
导向连接器 Guide sleeve API 3 $\frac{1}{2}$ " REG	21.5	DLQ165
扳手槽 Wrench flat 95mm		
导向器的锁定装置包含三部分 Guide device locking kit is comprised of three sets: 三部分分别是: 2个导向钻头插销, 2个自锁弹簧和16个锁定球, 还有1个用于导向 钻头和弹簧卸销棒 2 pilot bit pins, 2 self-locking spring pins and 16 locking balls, one pusher for pilot bit pin and spring pin.		
A 导向钻头插销 Pilot bit pin ..... ( $\phi$ 12 $\times$ 97mm) 1 piece	0.02	PGZ165-01
B 自锁弹簧 Self-locking spring pin ..... ( $\phi$ 13.5 $\times$ 22mm) 1 piece	0.02	PGZ165-02
C 卸销棒 Pusher for pilot bit pin ..... ( $\phi$ 10 $\times$ 160mm) 1 piece	0.10	PGZ165-03
D 锁定球 Locking ball ..... ( $\phi$ 11mm) 1 piece	0.01	PGZ165-04



## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ180-360-219/12.5



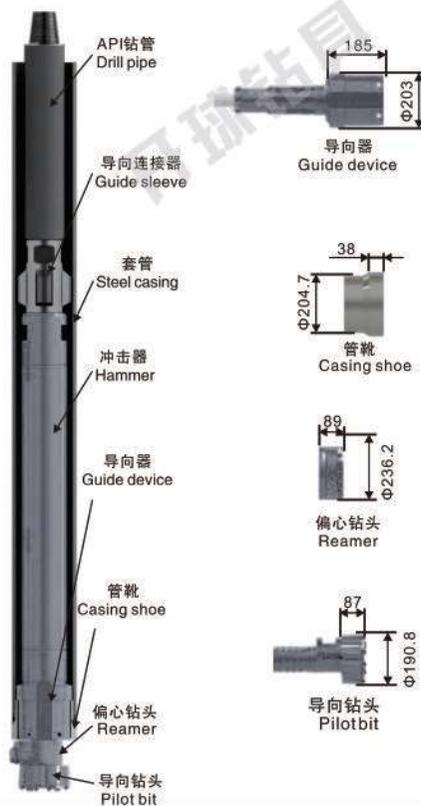
套管的选材范围(Alternative casings may be used):

最大外径 (Maximum outside diameter).....	219mm
最小内径 (Minimum inside diameter) .....	194mm
壁厚 (Wall thickness) .....	12.5mm

部件图 Description	单重(kg) Weight	件号 Part NO.
PGZ180-360-219/12.5尾柄适用于TND-IR360、DHD360、COP64、DHD6型冲击器 PGZ180-360-219/12.5 shank for TND-IR360、DHD360、COP64、DHD6 hammer		
导向器 Guide device .....	44.0	DXQ180360
管靴 Casing shoe .....	4.00	GX180
偏心钻头 Eccentric reamer .....	10.0	PZT180232
导向钻头 Pilot bit .....	23.7	DZT180
导向连接器 Guide sleeve API 3 1/2" REG		
	25.0	DLQ180
扳手槽 Wrench flat 95mm		
导向器的锁定装置包含三部分Guide device locking kit is comprised of three sets: 三部分分别是: 2个导向钻头插销, 2个自锁弹簧和16个锁定球, 还有1个用于导向 钻头和弹簧卸销棒 2 pilot bit pins, 2 self-locking spring pins and 16 locking balls, one pusher for pilot bit pin and spring pin.		
A 导向钻头插销 Pilot bit pin .....	0.05	PGZ180-01
B 自锁弹簧 Self-locking spring pin .....	0.02	PGZ180-02
C 卸销棒 Pusher for pilot bit pin .....	0.10	PGZ180-03
D 锁定球 Locking ball .....	0.01	PGZ180-04
		

## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ190-360-219/7



套管的选材范围(Alternative casings may be used):

最大外径 (Maximum outside diameter).....	219mm
最小内径 (Minimum inside diameter) .....	205mm
壁厚 (Wall thickness) .....	7mm

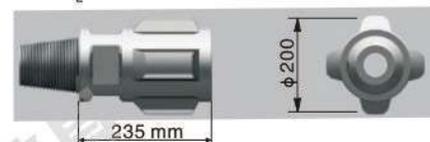
### 部件图 Description

单重(kg)  
Weight

件号  
Part NO.

PGZ190-360-195/6.5尾柄适用于TND-IR360、DHD360、COP64、DHD6型冲击器		
PGZ190-360-195/6.5 shank for TND-IR360、DHD360、COP64、DHD6 hammer		
导向器 Guide device .....	44.0	DXQ190360
管靴 Casing shoe .....	4.00	GX190
偏心钻头 Eccentric reamer .....	10.0	PZT190236
导向钻头 Pilot bit .....	23.7	DZT190

导向连接器 Guide sleeve API 3 1/2" REG



28.0 DLQ190

扳手槽 Wrench flat 95mm

导向器的锁定装置包含三部分 Guide device locking kit is comprised of three sets:  
三部分分别是: 2个导向钻头插销, 2个自锁弹簧和14个锁定球, 还有1个用于导向  
钻头和弹簧卸销棒

2 pilot bit pins, 2 self-locking spring pins and 14 locking balls, one pusher for  
pilot bit pin and spring pin.

A 导向钻头插销 Pilot bit pin .....	( $\phi$ 13.5 × 118mm)	1 piece	0.05	PGZ190-01
B 自锁弹簧 Self-locking spring pin .....	( $\phi$ 15 × 18mm)	1 piece	0.02	PGZ190-02
C 卸销棒 Pusher for pilot bit pin .....	( $\phi$ 10 × 160mm)	1 piece	0.10	PGZ190-03
D 锁定球 Locking ball .....	( $\phi$ 13mm)	1 piece	0.01	PGZ190-04



## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ230-380-273/11.5



套管的选材范围(Alternative casings may be used):

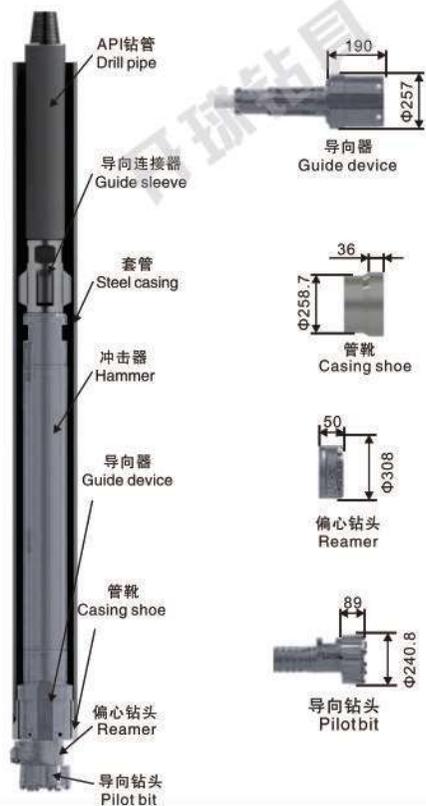
最大外径 (Maximum outside diameter) ..... 273mm  
最小内径 (Minimum inside diameter) ..... 250mm  
壁厚 (Wall thickness) ..... 11.5mm

部件图 Description	单重(kg) Weight	件号 Part NO.
PGZ230-380-273/11.5尾柄适用于TND-IR380、DHD380、COP84、DHD8型冲击器 PGZ230-380-273/11.5 shank for TND-IR380、DHD380、COP84、DHD8 hammer		
导向器 Guide device	67.0	DXQ230380
管靴 Casing shoe	6.80	GX230
偏心钻头 Eccentric reamer	18.0	PZT230286
导向钻头 Pilot bit	47.0	DZT230
导向连接器 Guide sleeve API 3 $\frac{1}{2}$ " REG	30.0	DLQ230
扳手槽 Wrench flat 95mm		
导向器的锁定装置包含三部分 Guide device locking kit is comprised of three sets: 三部分分别是: 2个导向钻头插销, 2个自锁弹簧和16个锁定球, 还有1个用于导向 钻头和弹簧卸销棒 2 pilot bit pins, 2 self-locking spring pins and 16 locking balls, one pusher for pilot bit pin and spring pin.		
A 导向钻头插销 Pilot bit pin ..... ( $\phi$ 15.5 × 129mm) 1 piece	0.05	PGZ230-01
B 自锁弹簧 Self-locking spring pin ..... ( $\phi$ 13 × 31mm) 1 piece	0.02	PGZ230-02
C 卸销棒 Pusher for pilot bit pin ..... ( $\phi$ 10 × 160mm) 1 piece	0.10	PGZ230-03
D 锁定球 Locking ball ..... ( $\phi$ 15mm) 1 piece	0.01	PGZ230-04



## 偏心跟管钻具 Eccentric Drilling Tools with casing tube

总成代号 Assembly Code:  
PGZ240-380-273/6.5



套管的选材范围(Alternative casings may be used):

最大外径 (Maximum outside diameter).....	273mm
最小内径 (Minimum inside diameter).....	260mm
壁厚 (Wall thickness).....	6.5mm

部件图 Description	单重(kg) Weight	件号 Part NO.
PGZ240-380-273/6.5尾柄适用于TND-IR380、DHD380、COP84、DHD8型冲击器 PGZ240-380-273/6.5 shank for TND-IR380、DHD380、COP84、DHD8 hammer		
导向器 Guide device .....	67.0	DXQ240380
管靴 Casing shoe .....	6.80	GX240
偏心钻头 Eccentric reamer .....	18.0	PZT240308
导向钻头 Pilot bit .....	49.0	DZT240
导向连接器 Guide sleeve API 3 1/2" REG		
	31	DLQ240
扳手槽 Wrench flat 95mm		
导向器的锁定装置包含三部分Guide device locking kit is comprised of three sets: 三部分分别是: 2个导向钻头插销, 2个自锁弹簧和18个锁定球, 还有1个用于导向 钻头和弹簧卸销棒 2 pilot bit pins, 2 self-locking spring pins and 18 locking balls, one pusher for pilot bit pin and spring pin.		
A 导向钻头插销 Pilot bit pin .....	0.14	PGZ240-01
B 自锁弹簧 Self-locking spring pin .....	0.02	PGZ240-02
C 卸销棒 Pusher for pilot bit pin .....	0.10	PGZ240-03
D 锁定球 Locking ball .....	0.01	PGZ240-04
		

## 高气压潜孔钻机 **High pressure down-hole drilling machine**

API thread Drill Pipe matched up with  
High Air Pressure Drill Rig — we're doing pretty well

● 高强度和耐磨性匹配优质合金钢管，由国家知名特钢厂供应，（钢管厚度和材质可供用户选择）。  
Hardness and wear resistance combined alloy steel, supplied by national top level specialsteel manufacturer. (Pipe thickness and material can be users' choice)

● 钻杆弯曲校正是每支钻杆必须完成工艺步骤。  
Pipe curvature correction is a must process for each drill pipe

● 接头采用优质合金钢材料、严格热处理及标准API螺纹加工技术,这些容易被折扣的地方我们做的很认真，确保稳定性和丝扣耐用性。  
Premium alloy steel made joints, strictly controlled heat treatment process and standard API thread processing technology; we pay high attention to all these easily ignored details to ensure pipe stability and thread durability.



● 标准API螺纹及螺纹导向加工一次完成，是我们工艺诀窍。  
Standard API thread forming and orientating processed at one step, which is our technical highlight.

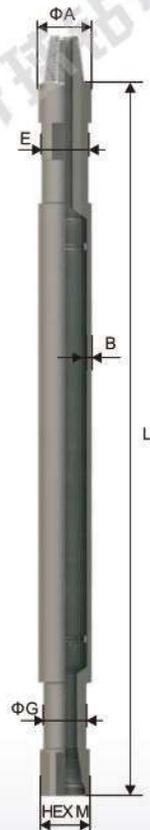
● 不是摩擦焊接就牢固，经过了特殊工艺处理的摩擦焊，能确保焊接质量。  
Not all friction welding is strong, after a specialized friction welding process, welding outcome can be ensured.

● 每一个工艺环节不被忽略，R圆弧都用数控加工。  
Each processing step is stringently controlled, all R arcs are CNC machined.

## 钻管 Drill pipes

阿特拉斯-英格索兰 T4,IRT4 钻杆

Atlas Copco - Ingersoll Rand T4,IRT4 Drill Pipe

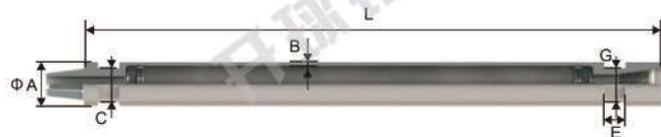


外径(mm)	壁厚(mm)	有效长度(mm)	扳手槽尺寸(mm)	凹槽外径(mm)	六方尺寸(mm)	连接螺纹
OD A	Wall B	Length L	Across Flat E	Recess Dia. G	Across Hex M	Connection P / N
102	8.38	6350	89	89	95	2 $\frac{7}{8}$ " REG
102	8.38	7620	89	89	95	2 $\frac{7}{8}$ " REG
114	8.56	6350	89	102	86	3 $\frac{1}{2}$ " REG
114	8.56	6350	89	102	86	2 $\frac{1}{2}$ " IF
114	8.56	7620	89	102	86	3 $\frac{1}{2}$ " REG
114	8.56	7620	89	102	86	2 $\frac{1}{2}$ " IF
114	12.70	7620	89	102	86	3 $\frac{1}{2}$ " REG
114	19.05	6350	89	102	86	3 $\frac{1}{2}$ " REG
114	19.05	7620	89	102	86	3 $\frac{1}{2}$ " REG
127	9.19	6350	89	102	89	3 $\frac{1}{2}$ " REG
127	9.19	7620	89	102	89	3 $\frac{1}{2}$ " REG
127	12.70	6350	89	102	89	3 $\frac{1}{2}$ " REG
127	19.05	7620	89	102	89	3 $\frac{1}{2}$ " REG
127	12.70	6350	89	102	89	3 $\frac{1}{2}$ " REG
127	12.70	7620	89	102	89	3 $\frac{1}{2}$ " REG
140	12.70	6350	89	127	86	3 $\frac{1}{2}$ " Beco
140	12.70	7620	89	127	86	3 $\frac{1}{2}$ " Beco
140	12.70	6350	89	127	86	4FH
140	12.70	7620	89	127	86	4FH
140	19.05	6350	89	127	86	3 $\frac{1}{2}$ " Beco
140	19.05	7620	89	127	86	3 $\frac{1}{2}$ " Beco
140	19.05	6350	89	127	86	4FH
140	19.05	7620	89	127	86	4FH

## 钻管 Drill pipes

常规钻杆

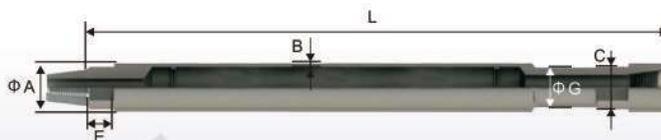
Standard Design Flush Joint Drill Pipe



外径 (mm)	壁厚 (mm)	有效长度 (mm)	扳手槽尺寸 (mm)	扳手槽长度 (mm)	扳手槽尺寸 (mm)	连接螺纹
OD A	Wall B	Length L	Across Flat C	Flat Length E	Across Flat G	Connection P/N
76	5.5	1000/1500/2000/3000	57	46	57	2 <sup>3</sup> / <sub>8</sub> " REG
76	5.5	1000/1500/2000/3000	65	42	65	2 <sup>3</sup> / <sub>8</sub> " REG
76	6.5	3000/4500/6000	65	42	65	2 <sup>3</sup> / <sub>8</sub> " REG
89	5.5	1000/1500/2000/3000	65	42	65	2 <sup>3</sup> / <sub>8</sub> " REG
89	6.5	1000/1500/2000/ 3000/4500/6000	65	42	65	2 <sup>3</sup> / <sub>8</sub> " REG
89	5.5	1000/1500/2000/3000	65	42	65	2 <sup>3</sup> / <sub>8</sub> " IF
89	6.5	1000/1500/2000/ 3000/4500/6000	65	42	65	2 <sup>3</sup> / <sub>8</sub> " IF
114	6.5	1000/1500/2000/ 3000/4500/6000	95	45	95	2 <sup>3</sup> / <sub>8</sub> " IF
114	6.5	1000/1500/2000/3000	95	45	95	3 <sup>1</sup> / <sub>2</sub> " IF
114	6.5	1000/1500/2000/ 3000/4500/6000	95	45	95	3 <sup>1</sup> / <sub>2</sub> " REG

美国善姆钻杆

Schramm Carousel Style Drill Pipe

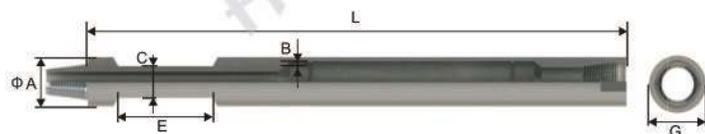


外径 (mm)	壁厚 (mm)	有效长度 (mm)	扳手槽尺寸 (mm)	扳手槽长度 (mm)	凹处直径 (mm)	连接螺纹
OD A	Wall B	Length L	Across Flat C	Flat Length E	Recess Dia. G	Connection P/N
89	9.35	6096	82	70	70	2 <sup>3</sup> / <sub>8</sub> " IF
89	8.56	6096	98	57	89	3 <sup>1</sup> / <sub>2</sub> " REG
89	8.56	7620	98	57	89	2 <sup>7</sup> / <sub>8</sub> " IF
89	8.56	7620	98	57	89	3 <sup>1</sup> / <sub>2</sub> " REG
89	8.56	7620	98	57	89	2 <sup>7</sup> / <sub>8</sub> " IF

## 钻管 Drill pipes

山特维克D25/D40K钻杆

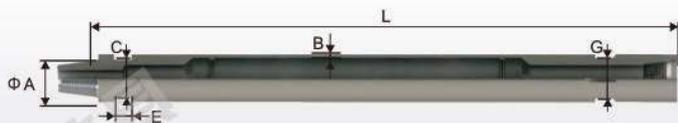
Sandvik/Driltech D25/D40K Drill Pipe



外径(mm)	壁厚(mm)	有效长度(mm)	扳手槽尺寸(mm)	扳手槽长度(mm)	扳手尺寸(mm)	连接螺纹
OD A	Wall B	Length L	Across Flat C	Flat Length E	Across Flat G	Connection P/N
89	8.00	6096	70	317.5	83	2 $\frac{3}{8}$ " IF
114	8.56	6096	76	317.5	102	3 $\frac{1}{2}$ " REG
114	8.56	6096	76	317.5	102	2 $\frac{7}{8}$ " IF
114	8.56	7620	76	317.5	102	3 $\frac{1}{2}$ " REG
114	8.56	7620	76	317.5	102	2 $\frac{7}{8}$ " IF
114	8.56	9144	76	317.5	102	3 $\frac{1}{2}$ " REG
114	12.7	7620	76	317.5	102	3 $\frac{1}{2}$ " REG
114	12.7	9144	76	317.5	102	3 $\frac{1}{2}$ " REG
114	19.05	7620	76	317.5	102	3 $\frac{1}{2}$ " REG
127	12.7	7620	76	317.5	102	3 $\frac{1}{2}$ " REG
127	12.7	9144	76	317.5	102	3 $\frac{1}{2}$ " REG
127	19.05	9144	76	317.5	102	3 $\frac{1}{2}$ " REG
127	19.05	7625	76	317.5	117	3 $\frac{1}{2}$ " Beco
140	19.05	7625	76	317.5	117	3 $\frac{1}{2}$ " Beco
140	19.05	9144	76	317.5	117	3 $\frac{1}{2}$ " Beco

CP650 钻杆

CP650 Drill Pipe

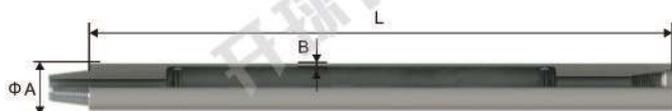


外径(mm)	壁厚(mm)	有效长度(mm)	扳手槽尺寸(mm)	扳手槽长度(mm)	尺寸(mm)	连接螺纹
OD A	Wall B	Length L	Across Flat C	Flat Length E	Dist From Shoulder G	Connection P/N
114	8.56	6096	95	38	152	3 $\frac{1}{2}$ " REG
114	8.56	6096	95	38	152	3 $\frac{1}{2}$ " REG

## 钻管 Drill pipes

阿特拉斯F6/L6/L8钻杆

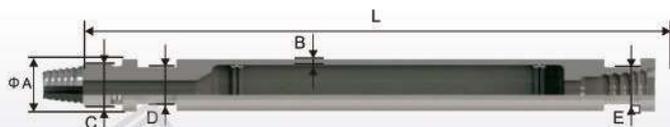
Design group Atlas Copco Roc F6/L6/L8



外径(mm)	壁厚(mm)	有效长度(mm)	扳手槽尺寸(mm)	扳手槽长度(mm)	扳手尺寸(mm)	连接螺纹
OD A	Wall B	Length L	Across Flat C	Flat Length E	Across Flat G	Connection P/N
76	6.3	4000	—	—	—	2 $\frac{3}{8}$ " REG
76	6.3	5000	—	—	—	2 $\frac{3}{8}$ " REG
89	6.3	4000	—	—	—	2 $\frac{3}{8}$ " REG
89	6.3	5000	—	—	—	2 $\frac{3}{8}$ " REG
89	6.3	6000	—	—	—	2 $\frac{3}{8}$ " REG
89	8.8	6000	—	—	—	2 $\frac{3}{8}$ " REG
102	6.3	4000	—	—	—	2 $\frac{7}{8}$ " REG
102	6.3	5000	—	—	—	2 $\frac{7}{8}$ " REG
102	6.3	6000	—	—	—	2 $\frac{7}{8}$ " REG
114	6.3	6000	—	—	—	3 $\frac{1}{2}$ " REG
114	8.8	6000	—	—	—	3 $\frac{1}{2}$ " REG
114	8.8	6000	—	—	—	4 $\frac{1}{2}$ " REG

CM760/780钻杆

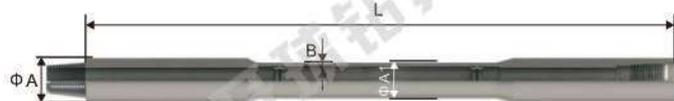
Design group CM(CM760/780)



外径(mm)	壁厚(mm)	有效长度(mm)	扳手槽长度(mm)	扳手槽尺寸(mm)	扳手尺寸(mm)	连接螺纹
OD A	Wall B	Length L	Across Flat C	Flat Length D	Across Flat E	Connection P/N
102	8.5	4400	86	76	76	2 $\frac{1}{2}$ " Z/3 $\frac{1}{2}$ " REG
102	8.5	5000	86	76	76	2 $\frac{1}{2}$ " Z/2 $\frac{1}{2}$ " REG

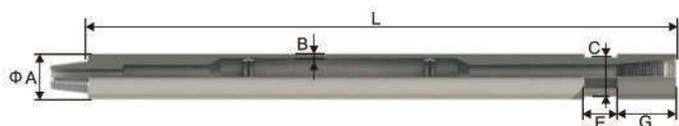
## 钻管 Drill pipes

石油钻杆 Petroleum pipes



外径 (mm)	壁厚 (mm)	有效长度 (mm)	扳手槽尺寸 (mm)	扳手槽长度 (mm)	扳手尺寸 (mm)	连接螺纹	
A <sup>OD</sup> A1	Wall B	Length L	Across Flat C	Flat Length E	Across Flat G	Connection P/N	
85.7	60	7.0	6000	—	—	—	2 $\frac{3}{8}$ " IF
104.8	73	9.0	6000	—	—	—	2 $\frac{1}{2}$ " IF
120.6	89	6.5	9000	—	—	—	3 $\frac{1}{2}$ " IF
120.6	89	9.5	9000	—	—	—	3 $\frac{1}{2}$ " IF
127.0	89	9.5	9000	—	—	—	3 $\frac{1}{2}$ " IF
127.0	89	11.5	9000	—	—	—	3 $\frac{1}{2}$ " IF

水井钻机用钻杆 Schramm T64 Style Drill Pipe

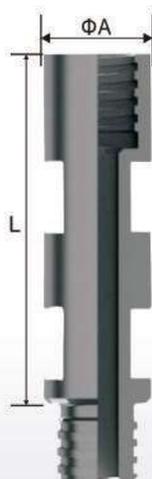


外径 (mm)	壁厚 (mm)	有效长度 (mm)	扳手槽尺寸 (mm)	扳手槽长度 (mm)	尺寸 (mm)	连接螺纹
OD A	Wall B	Length L	Across Flat C	Flat Length E	Dist From Shoulder G	Connection P/N
114	8.5	6000	98	51	95	3 $\frac{1}{2}$ " REG
114	8.5	6000	45	51	57	3 $\frac{1}{2}$ " REG

## 转换接头 Adapters

内外接头

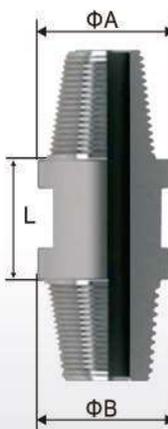
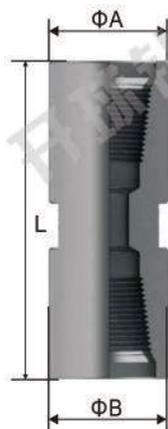
Box-pin adapters



螺纹 API Threads		扳手槽 Wrench flats	长度 Length	直径 Dia. (mm)		单重 Weight	件号 Part No.
内 Box	外 Pin	(mm)	(mm)	A	B	(kg)	
2 $\frac{3}{8}$ " REG	2 $\frac{3}{8}$ " REG	65	140	77	77	4.0	JT2-1010-140065
2 $\frac{3}{8}$ " REG	2 $\frac{3}{8}$ " REG	65	140	90	90	5.5	JT2-1010-140065-A
2 $\frac{3}{8}$ " REG	2 $\frac{3}{8}$ " IF	65	144	90	90	5.5	JT2-1011-140065
2 $\frac{3}{8}$ " REG	2 $\frac{7}{8}$ " REG	65	130	95	95	8.0	JT2-1020-130065
2 $\frac{3}{8}$ " REG	3 $\frac{1}{2}$ " REG	95	120	90	102	10.5	JT2-1030-120095
2 $\frac{3}{8}$ " IF	2 $\frac{3}{8}$ " REG	65	164	90	90	6.8	JT2-1110-164065
2 $\frac{7}{8}$ " REG	2 $\frac{3}{8}$ " REG	65	154	90	90	6.5	JT2-2011-154065
2 $\frac{7}{8}$ " REG	3 $\frac{1}{2}$ " REG	95	120	90	115	11	JT2-2030-120095
3 $\frac{1}{2}$ " REG	2 $\frac{3}{8}$ " REG	95	219	115	90	12.5	JT2-3010-219095
3 $\frac{1}{2}$ " REG	2 $\frac{3}{8}$ " IF	95	160	115	115	10.5	JT2-3011-160095
3 $\frac{1}{2}$ " REG	2 $\frac{7}{8}$ " REG	95	160	115	115	10.8	JT2-3020-160095
3 $\frac{1}{2}$ " REG	2 $\frac{7}{8}$ " IF	95	160	115	115	10.8	JT2-3021-160095
3 $\frac{1}{2}$ " REG	3 $\frac{1}{2}$ " REG	95	160	115	115	10.5	JT2-3030-160095
3 $\frac{1}{2}$ " REG	4 $\frac{1}{2}$ " REG	120	132	115	146	16.0	JT2-3040-132120
4 $\frac{1}{2}$ " REG	3 $\frac{1}{2}$ " REG	95	235	146	115	17.0	JT2-4030-235095
F48	F42	40	203	59	59	4.6	JT2-7060-203040
F48	F48	40	203	59	59	5.0	JT2-7070-203040
F48	2" REG	40	203	59	59	5.2	JT2-7080-203040

## 转换接头 Adapters

内接头 外接头    Box-Box adapters    Pin-Pin adapters



螺纹 API Threads		扳手槽 Wrench flats	长度 Length	直径 Dia. (mm)		单重 Weight	件号 Part No.
内/内 Box/Box	外/外 Pin/Pin	(mm)	(mm)	A	B	(kg)	
2 <sup>9/16</sup> " REG / 2 <sup>3/8</sup> " REG	—	65	200	77	77	4.5	JT1-1010-200065
2 <sup>9/16</sup> " REG / 2 <sup>3/8</sup> " REG	—	65	200	90	90	5.8	JT1-1010-200065-A
2 <sup>9/16</sup> " REG / 2 <sup>3/8</sup> " IF	—	65	220	90	90	6.0	JT1-1011-220065
2 <sup>9/16</sup> " REG / 2 <sup>7/8</sup> " REG	—	65	225	90	90	6.2	JT1-1020-225065
2 <sup>9/16</sup> " REG / 2 <sup>7/8</sup> " IF	—	65	220	90	90	6.0	JT1-1021-220065
2 <sup>9/16</sup> " IF / 3 <sup>1/2</sup> " REG	—	95	210	90	115	10.5	JT1-1130-210095
2 <sup>9/16</sup> " IF / 2 <sup>3/8</sup> " IF	—	65	230	90	90	6.2	JT1-1111-230095
2 <sup>9/16</sup> " IF / 6 <sup>1/2</sup> " REG	—	171	260	180	114	21.0	JT1-1160-260171
2 <sup>9/16</sup> " IF / 7 <sup>1/2</sup> " REG	—	180	270	205	120	28.2	JT1-1170-270180
3 <sup>1/2</sup> " REG / 2 <sup>3/8</sup> " IF	—	95	200	115	90	9.0	JT1-3011-200095
3 <sup>1/2</sup> " REG / 2 <sup>1/8</sup> " REG	—	95	230	115	90	10.0	JT1-3020-230095
3 <sup>1/2</sup> " REG / 2 <sup>7/8</sup> " IF	—	95	220	115	115	10.0	JT2-3021-220095
3 <sup>1/2</sup> " REG / 3 <sup>1/2</sup> " REG	—	95	220	115	115	10.5	JT2-3030-220095
3 <sup>1/2</sup> " REG / 4 <sup>1/2</sup> " REG	—	120	240	115	146	18.0	JT2-3040-240120
—	2 <sup>9/16</sup> " REG / 2 <sup>3/8</sup> " REG	65	70	90	90	5.0	JT3-1010-070065
—	2 <sup>9/16</sup> " REG / 3 <sup>1/8</sup> " REG	95	97	90	115	9.0	JT3-1030-097095
—	3 <sup>1/2</sup> " REG / 3 <sup>1/8</sup> " REG	95	90	115	115	10.0	JT3-3030-090095

## 扳手和拆卸台 **Wrenchs and Hammer breakout equipment**

钻管扳手

Wrenches for drill pipes



扳手槽 B Wrench flats B	件号 Part No.
28	BS1-028
40	BS1-040
57	BS1-057
65	BS1-065
75	BS1-075
95	BS1-095
102	BS1-102
120	BS1-120
140	BS1-140

扳手槽 B Wrench flats B	件号 Part No.
40	BS2-040
57	BS2-057
65	BS2-065
75	BS2-075
95	BS2-095
102	BS2-102
120	BS2-120