



01

DTH HAMMER 潜孔冲击器

什么是潜孔冲击器？

潜孔冲击器广泛应用于岩土工程中，具有各种坚硬，高硬度等坚韧度差的坚硬岩石，具有以下特点：

- 根据中国的采矿条件，吸收国内外冲击器先进技术，设计制造新产品。
- 选料合理，制造工艺先进，质量保证完美。
- 钻速更高。
- 可以提供硬化处理，延长使用寿命，降低使用成本。
- 单冲击力大，破碎时的耗电量低。
- 活塞和重锤有优良的动力传递。
- 结构设计采用现代理论，使应力波持续时间更长，应力幅值更低，活塞寿命更长。

What is DTH hammer ?

DTH Hammer has a wide range of use in all kinds of hard and abrasive rocks, following features:

- New products designed based on mining condition, improved by advanced technology.
- International High-Standard materials with advanced process guaranteed quality.
- Faster drilling rate.
- Enhanced hardness to expand the life of hammer, and lower the using cost.
- Low consumption of electricity with big impact force.
- Good transmission of power.
- The modern theory is adopted in the structural design, which makes the stress wave duration longer, the stress amplitude is lower, and the piston life is long.

潜孔冲击器的应用

The Application of DTH Hammer

潜孔冲击器配合潜孔钻机 and 潜孔钻头，主要应用于矿山、大理石、采石场爆破、水井钻井等工程建设。

DTH hammers are used for blast hole drilling and blasting, mainly applied in Mining, Marble quarry or well drilling and other construction projects.

Speed Master Series

速霸系列



城市高层建筑的建设，高铁、公路、桥梁、地铁的建设，水电站、核电站等项目的建设都会涉及到灌注桩基工程项目。随着这些工程项目对于桩基孔在硬岩地层入岩需求的逐渐增多，我公司凭借在大直径钻孔及超深孔领域拥有的丰富经验推出了专为这类工程而设计的速霸系列大孔径潜孔冲击器，全面满足建筑领域桩基施工入岩需求。

Urban high-rise building construction, high-speed rail, highways, bridges, subway construction, hydroelectric stations, nuclear power plant construction projects will involve the pile foundation project. With the increasing demand for hard rock drilling in these projects, Our company designed Super series hammers and bits specifically for these types of projects is being developed by most experienced engineering experience in large diameter boreholes and ultra-deep boreholes drilling, fully meet the requirements of the pile foundation construction drilling work.

我司自主设计研发的无尾管高压冲击器

Our company own design high air pressure DTH hammer, without foot-valve, is one of the most advanced design in the world.

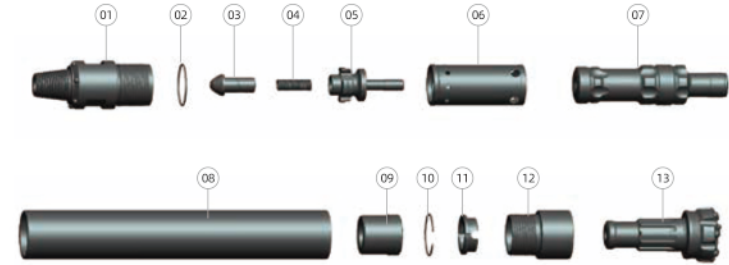
其主要特点如下:

- 钻头不需要尼龙管，因而省去了尼龙管断裂、破损和热胀冷缩而“硬气”的麻烦。
- 冲击器能耗低，冲击频率高，钻进速度比同类型带尼龙管冲击器快15%-30%。
- 结构非常简单，部件可靠性好，冲击器寿命长，维修保养简单，费用低。
- 所用部件少，结构简单，加上各部件均硬化处理，因此，工作寿命长，故障少，维修方便。

It has following advantages:

- Bit without foot valve will avoid the problem of foot valve broken or thermal expansion
- Lower energy consumption and higher impact frequency. The drilling speed is 15%-30% higher than the one with foot valve.
- Less parts, simplified, and with parts proper heating treated.
- Extend the life of using and easier to repairing.

SP480

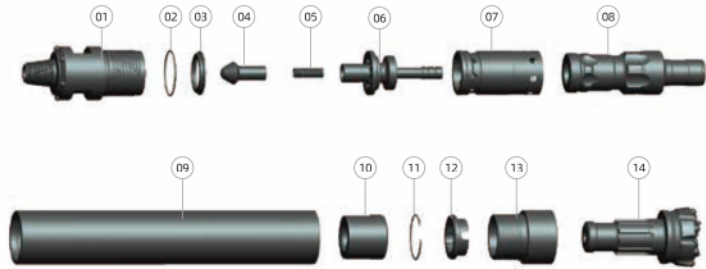


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	7.4 Kg	01-SP480-01	09	衬套 Guide sleeve	1.5 Kg	01-SP480-09
02	O形圈 O Ring	0.01 Kg	01-SP480-02	10	挡圈 Circlip	0.02 Kg	01-SP480-10
03	逆止阀 Check Valve	0.3 Kg	01-SP480-03	11	卡环 Retainer Ring	0.34 Kg	01-SP480-11
04	弹簧 Spring	0.04 Kg	01-SP480-04	12	卡钎套 Drive Chuck	3.1 Kg	01-SP480-12
05	配气座 Valve Seat	1 Kg	01-SP480-05	13	钻头 Drill Bit		01-SP480-13
06	内缸 Inner Cylinder	1.5 Kg	01-SP480-06				
07	活塞 Piston	8 Kg	01-SP480-07				
08	外缸 Piston Case	11.6 Kg	01-SP480-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
863mm	35Kg	φ 100mm	API2 3/8"REG	SP480	φ 108- φ 135mm
工作风压 Working Pressure		推荐转速 Recommended Rotation Speed		耗风量 / Air Consumption	
1.0-1.9 Mpa		30-60 r/min		1.0Mpa	1.8Mpa
				5.5m ³ /min	9m ³ /min

SP580

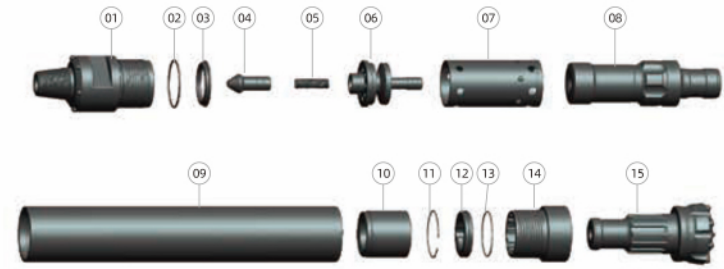


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	14.2 Kg	01-SP580-01	09	外缸 Piston Case	22.7 Kg	01-SP580-09
02	O形圈 O Ring	0.01 Kg	01-SP580-02	10	衬套 Guide sleeve	3.1 Kg	01-SP580-10
03	碟簧 Disc Spring	0.2 Kg	01-SP580-03	11	挡圈 Circlip	0.02 Kg	01-SP580-11
04	逆止阀 Check Valve	0.4 Kg	01-SP580-04	12	卡环 Retainer Ring	0.7 Kg	01-SP580-12
05	弹簧 Spring	0.02 Kg	01-SP580-05	13	卡钎套 Drive Chuck	5.7 Kg	01-SP580-13
06	配气座 Valve Seat	2.5 Kg	01-SP580-06	14	钻头 Drill Bit		01-SP580-14
07	内缸 Internal Cylinder	2.3 Kg	01-SP580-07				
08	活塞 Piston	12 Kg	01-SP580-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
970mm	64Kg	φ 126mm	API2 3/8"REG	SP580	φ 136- φ 155mm
适用气压 Work Pressure		推荐转速 Recommended Rotation Speed		耗风量 / Air Consumption	
1.2-2.2 Mpa		30-60 r/min		1.0Mpa	1.8Mpa
				7.5m ³ /min	12m ³ /min

SP680

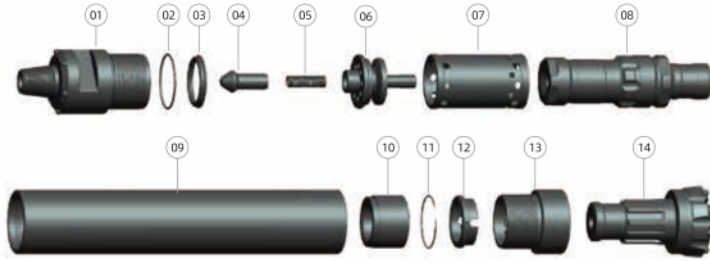


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	21.5 Kg	01-SP680-01	09	外缸 Piston Case	33 Kg	01-SP680-09
02	O形圈 O Ring	0.01 Kg	01-SP680-02	10	衬套 Guide sleeve	5.5 Kg	01-SP680-10
03	碟簧 Disc Spring	0.34 Kg	01-SP680-03	11	挡圈 Circlip	0.02 Kg	01-SP680-11
04	逆止阀 Check Valve	0.56 Kg	01-SP680-04	12	卡环 Retainer Ring	1 Kg	01-SP680-12
05	弹簧 Spring	0.05 Kg	01-SP680-05	13	O形圈 "O"Ring	0.01 Kg	01-SP680-13
06	配气座 Valve Seat	4.3 Kg	01-SP680-06	14	卡钎套 Drive Chuck	7 Kg	01-SP680-14
07	内缸 Internal Cylinder	4.2 Kg	01-SP680-07	15	钻头 Drill Bit		01-SP680-15
08	活塞 Piston	23 Kg	01-SP680-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1131mm	100.5Kg	φ 148mm	API3 1/2"REG	SP680	φ 158- φ 203mm
适用气压 Work Pressure		推荐转速 Recommended Rotation Speed		耗风量 / Air Consumption	
1.2-2.7 Mpa		30-60 r/min		1.8Mpa	2.4Mpa
				16m ³ /min	23m ³ /min

SP780

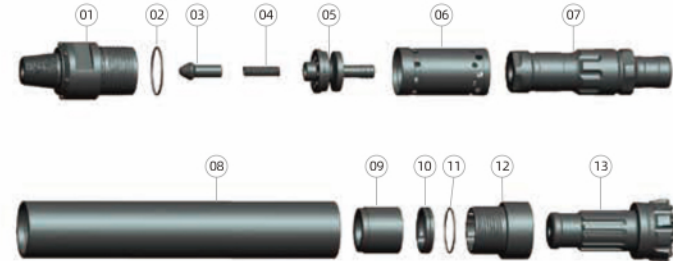


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	31.2 Kg	01-SP780-01	09	外缸 Piston Case	44.5 Kg	01-SP780-09
02	O形圈 O Ring	0.01 Kg	01-SP780-02	10	衬套 Guide sleeve	5 Kg	01-SP780-10
03	碟簧 Disc Spring	0.5 Kg	01-SP780-03	11	挡圈 Circlip	0.03 Kg	01-SP780-11
04	逆止阀 Check Valve	0.65 Kg	01-SP780-04	12	卡环 Retainer Ring	1.5 Kg	01-SP780-12
05	弹簧 Spring	0.09 Kg	01-SP780-05	13	卡钎套 Drive Chuck	10.5 Kg	01-SP780-13
06	配气座 Valve Seat	5.5 Kg	01-SP780-06	14	钻头 Drill Bit		01-SP780-14
07	内缸 Inner Cylinder	5.5 Kg	01-SP780-07				
08	活塞 Piston	34.5 Kg	01-SP780-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1195mm	140Kg	φ 165mm	API3 1/2"REG	SP780	φ 178- φ 216mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-2.8 Mpa	30-60 r/min	21m ³ /min	28m ³ /min		

SP882

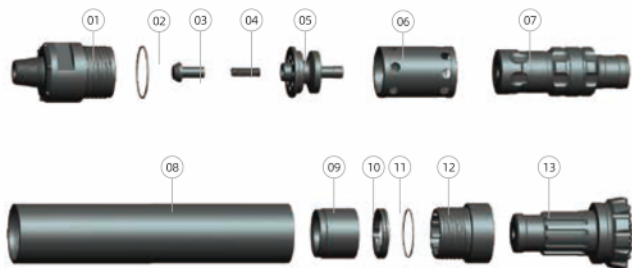


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	38.5 Kg	01-SP882-01	09	衬套 Guide sleeve	6.8 Kg	01-SP882-09
02	O形圈 O Ring	0.02 Kg	01-SP882-02	10	卡环 Retainer Ring	1.3 Kg	01-SP882-10
03	逆止阀 Check Valve	0.65 Kg	01-SP882-03	11	O形圈 O Ring	0.01 Kg	01-SP882-11
04	弹簧 Spring	0.1 Kg	01-SP882-04	12	卡钎套 Drive Chuck	12.6 Kg	01-SP882-12
05	配气座 Valve Seat	6.2 Kg	01-SP882-05	13	钻头 Drill Bit		01-SP882-13
06	内缸 Inner Cylinder	7.4 Kg	01-SP882-06				
07	活塞 Piston	44.5 Kg	01-SP882-07				
08	外缸 Piston Case	63 Kg	01-SP882-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1264mm	181Kg	φ 185mm	API4 1/2"REG	SP882	φ 198- φ 254mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.3 Mpa	30-60 r/min	25m ³ /min	34m ³ /min		

SP1080

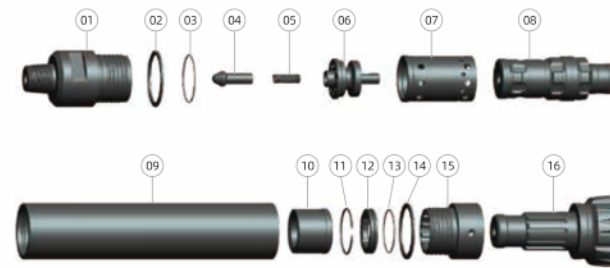


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	62 Kg	01-SP1080-01	09	衬套 Guide sleeve	12.5 Kg	01-SP1080-09
02	O形圈 O Ring	0.02 Kg	01-SP1080-02	10	卡环 Retainer Ring	2 Kg	01-SP1080-10
03	逆止阀 Check Valve	1.5 Kg	01-SP1080-03	11	O形圈 O Ring	0.02 Kg	01-SP1080-11
04	弹簧 Spring	0.25 Kg	01-SP1080-04	12	卡钎套 Drive Chuck	19.8 Kg	01-SP1080-12
05	配气座 Valve Seat	13.5 Kg	01-SP1080-05	13	钻头 Drill Bit		01-SP1080-13
06	内缸 Inner Cylinder	13 Kg	01-SP1080-06				
07	活塞 Piston	71.5 Kg	01-SP1080-07				
08	外缸 Piston Case	92 Kg	01-SP1080-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1410mm	289Kg	φ 225mm	API5 1/2"REG	SP1080	φ 254- φ 311mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.3 Mpa	25 ~ 50 r/min	36m ³ /min	58m ³ /min		

SP1280

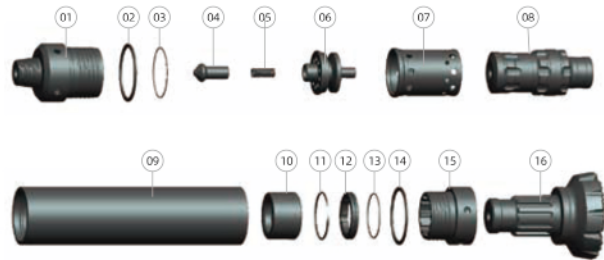


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	126 Kg	01-SP1280-01	09	外缸 Piston Case	185.4 Kg	01-SP1280-09
02	垫片 Adjuster Shim	1.2 Kg	01-SP1280-02	10	衬套 Guide sleeve	19 Kg	01-SP1280-10
03	O形圈 O Ring	0.03 Kg	01-SP1280-03	11	挡圈 Circlip	0.25 Kg	01-SP1280-11
04	逆止阀 Check Valve	1.5 Kg	01-SP1280-04	12	卡环 Retainer Ring	4.5 Kg	01-SP1280-12
05	弹簧 Spring	0.2 Kg	01-SP1280-05	13	O形圈 O Ring	0.03 Kg	01-SP1280-13
06	配气座 Valve Seat	18.5 Kg	01-SP1280-06	14	垫片 Squashing Ring	1.2 Kg	01-SP1280-14
07	内缸 Inner Cylinder	22 Kg	01-SP1280-07	15	卡钎套 Drive Chuck	42.5 Kg	01-SP1280-15
08	活塞 Piston	107 Kg	01-SP1280-08	16	钻头 Drill Bit		01-SP1280-16

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1630mm	530Kg	φ 275mm	API6 5/8"REG	SP1280	φ 295- φ 400mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.3 Mpa	30 ~ 55 r/min	45m ³ /min	68m ³ /min		

SP1480

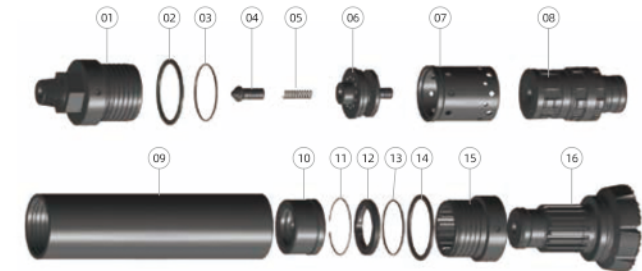


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	160 Kg	01-SP1480-01	09	外缸 Piston Case	292 Kg	01-SP1480-09
02	垫片 Adjuster Shim	1.5 Kg	01-SP1480-02	10	衬套 Guide sleeve	31.5 Kg	01-SP1480-10
03	O形圈 O Ring	0.05 Kg	01-SP1480-03	11	挡圈 Circlip	0.5 Kg	01-SP1480-11
04	逆止阀 Check Valve	3.4 Kg	01-SP1480-04	12	卡环 Retainer Ring	7.6 Kg	01-SP1480-12
05	弹簧 Spring	0.4 Kg	01-SP1480-05	13	O形圈 O Ring	0.03 Kg	01-SP1480-13
06	配气座 Valve Seat	31.5 Kg	01-SP1480-06	14	垫片 Squashing Ring	1.5 Kg	01-SP1480-14
07	内缸 Inner Cylinder	28.7 Kg	01-SP1480-07	15	卡钎套 Drive Chuck	64 Kg	01-SP1480-15
08	活塞 Piston	173 Kg	01-SP1480-08	16	钻头 Drill Bit		01-SP1480-16

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1744mm	796Kg	φ 332mm	API7 5/8"REG	SP1480	φ 350- φ 550mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.3 Mpa	30 ~ 55 r/min	53m ³ /min	76m ³ /min		

SP1880



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	361.5Kg	01-SP1880-01	09	外缸 Piston Case	493 Kg	01-SP1880-09
02	垫片 Adjuster Shim	4 Kg	01-SP1880-02	10	衬套 Guide sleeve	69 Kg	01-SP1880-10
03	O形圈 O Ring	0.1 Kg	01-SP1880-03	11	挡圈 Circlip	1 Kg	01-SP1880-11
04	逆止阀 Check Valve	3.4 Kg	01-SP1880-04	12	卡环 Retainer Ring	14.8 Kg	01-SP1880-12
05	弹簧 Spring	0.4 Kg	01-SP1880-05	13	O形圈 O Ring	0.08 Kg	01-SP1880-13
06	配气座 Valve Seat	76 Kg	01-SP1880-06	14	垫片 Squashing Ring	4 Kg	01-SP1880-14
07	内缸 Inner Cylinder	54.5 Kg	01-SP1880-07	15	卡钎套 Drive Chuck	134 Kg	01-SP1880-15
08	活塞 Piston	366 Kg	01-SP1880-08	16	钻头 Drill Bit		01-SP1880-16

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1957mm	1582Kg	φ 445mm	API8 5/8"REG	SP1880	φ 500- φ 680mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.3 Mpa	20-40 r/min	73m ³ /min	97m ³ /min		

ND/QL Valveless Series DTH Hammer

ND/QL 无尾管系列冲击器



搭配使用无尼龙管钻头的高风压潜孔冲击器由我司自主设计研发，是目前世界上最先进的冲击器之一。

This high air pressure DTH hammer work without footvalve is designed and developed by our own, which is the one of the most advanced DTH hammer in the world.

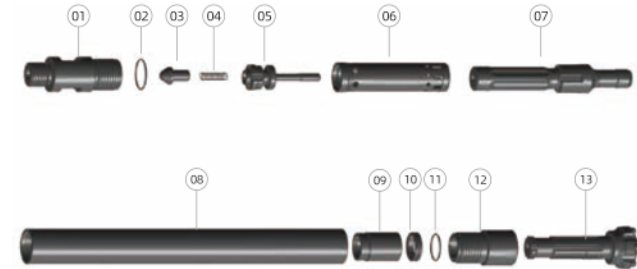
其主要特点如下:

- 钻头不需要尼龙管，因而省去了尼龙管断裂、破损和热胀冷缩而“硬气”的麻烦。
- 冲击器能耗低，冲击频率高，钻进速度比同类型带尼龙管冲击器快15%-30%。
- 所用部件少，结构简单。维修保养简单，费用低。
- 内部零件均硬化处理。工作寿命长，故障少。
- 接头和卡钎套采用螺纹与外缸联接，拆卸容易。

It has following advantages

- Avoid the problem happens on foot valve. Fracture, expansion and contraction.
- Lower air consumption and higher impact frequency. 15-30% higher drilling efficiency than the bit with foot valve.
- Simpler structure and less spare parts, makes easier & cheaper maintenance.
- Heat-hardened spare parts, makes longer serving life and less problem.
- Thread connection for top sub and drive chuck, makes easier disassembly.

ND25A

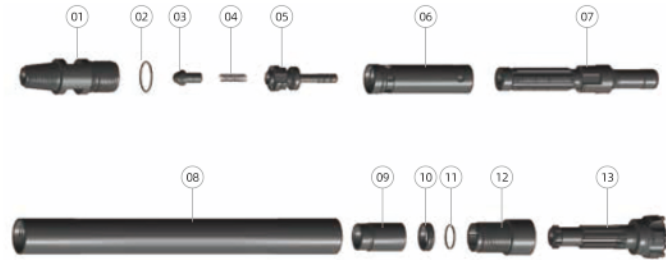


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	3.5 Kg	01-ND25A-01	09	衬套 Guide sleeve	0.7 Kg	01-ND25A-09
02	O形圈 O Ring	0.01 Kg	01-ND25A-02	10	卡环 Retainer Ring	0.1 Kg	01-ND25A-10
03	逆止阀 Check Valve	0.13 Kg	01-ND25A-03	11	O形圈 O Ring	0.01 Kg	01-ND25A-11
04	弹簧 Spring	0.02 Kg	01-ND25A-04	12	卡钎套 Drive Chuck	1.5 Kg	01-ND25A-12
05	配气座 Valve Seat	0.56 Kg	01-ND25A-05	13	钻头 Drill Bit		01-ND25A-13
06	内缸 Inner Cylinder	1.1 Kg	01-ND25A-06				
07	活塞 Piston	3.8 Kg	01-ND25A-07				
08	外缸 Piston Case	4.5 Kg	01-ND25A-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
872mm	16Kg	φ 71mm	T48X10X1.5	ND25A	φ 76- φ 90mm
适用气压 Work Pressure		推荐转速 Recommended Rotation Speed		耗风量 / Air Consumption	
1.0-1.7 Mpa		30-50 r/min		1.0Mpa	1.5Mpa
				3m³/min	4.5m³/min

ND35A

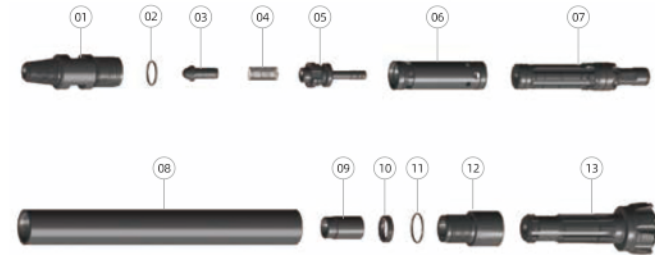


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	4.5 Kg	01-ND35A-01	09	衬套 Guide sleeve	0.9 Kg	01-ND35A-09
02	O形圈 O Ring	0.01 Kg	01-ND35A-02	10	卡环 Retainer Ring	0.15 Kg	01-ND35A-10
03	逆止阀 Check Valve	0.13 Kg	01-ND35A-03	11	O形圈 O Ring	0.01 Kg	01-ND35A-11
04	弹簧 Spring	0.02 Kg	01-ND35A-04	12	卡钎套 Drive Chuck	1.9 Kg	01-ND35A-12
05	配气座 Valve Seat	0.76 Kg	01-ND35A-05	13	钻头 Drill Bit		01-ND35A-13
06	内缸 Inner Cylinder	1.45 Kg	01-ND35A-06				
07	活塞 Piston	4.8 Kg	01-ND35A-07				
08	外缸 Piston Case	9.5 Kg	01-ND35A-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
886mm	24.2Kg	φ 82mm	API2 3/8"REG	ND35A	φ 90- φ 115mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption			
		1.0Mpa	1.5Mpa		
1.0-1.7 Mpa	30-50 r/min	4m ³ /min	6.5m ³ /min		

ND45A

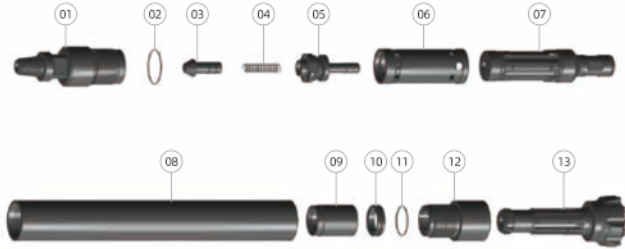


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	8.1 Kg	01-ND45A-01	09	衬套 Guide sleeve	1 Kg	01-ND45A-09
02	O形圈 O Ring	0.01 Kg	01-ND45A-02	10	卡环 Retainer Ring	0.2 Kg	01-ND45A-10
03	逆止阀 Check Valve	0.3 Kg	01-ND45A-03	11	O形圈 O Ring	0.01 Kg	01-ND45A-11
04	弹簧 Spring	0.04 Kg	01-ND45A-04	12	卡钎套 Drive Chuck	3.6 Kg	01-ND45A-12
05	配气座 Valve Seat	1.5 Kg	01-ND45A-05	13	钻头 Drill Bit		01-ND45A-13
06	内缸 Inner Cylinder	2.1 Kg	01-ND45A-06				
07	活塞 Piston	8.4 Kg	01-ND45A-07				
08	外缸 Piston Case	15 Kg	01-ND45A-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
986mm	40.5Kg	φ 99mm	API2 3/8"REG	ND45A	φ 110- φ 135mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption			
		1.0Mpa	1.8Mpa		
1.0-2.2 Mpa	30-60 r/min	5m ³ /min	9m ³ /min		

ND55A

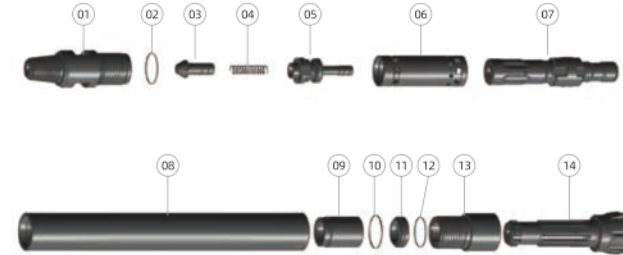


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	14 Kg	01-ND55A-01	09	衬套 Guide sleeve	2.64 Kg	01-ND55A-09
02	O形圈 O Ring	0.01 Kg	01-ND55A-02	10	卡环 Retainer Ring	0.5 Kg	01-ND55A-10
03	逆止阀 Check Valve	0.6 Kg	01-ND55A-03	11	O形圈 O Ring	0.01 Kg	01-ND55A-11
04	弹簧 Spring	0.06 Kg	01-ND55A-04	12	卡钎套 Drive Chuck	7 Kg	01-ND55A-12
05	配气座 Valve Seat	2.15 Kg	01-ND55A-05	13	钻头 Drill Bit		01-ND55A-13
06	内缸 Inner Cylinder	3.3 Kg	01-ND55A-06				
07	活塞 Piston	15.5 Kg	01-ND55A-07				
08	外缸 Piston Case	24.2 Kg	01-ND55A-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1122mm	70Kg	φ 126mm	API2 3/8"REG	ND55A	φ 136- φ 155mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量 / Air Consumption			
		1.0Mpa	1.5Mpa		
1.0-2.5 Mpa	30-60 r/min	7m ³ /min	13m ³ /min		

ND55S

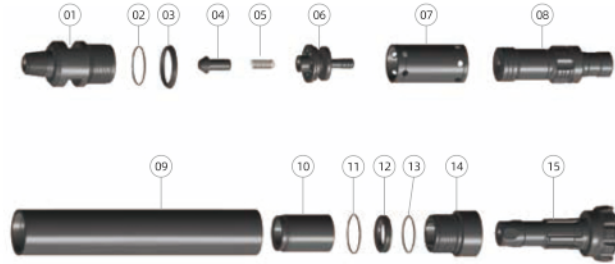


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	13.5 Kg	01-ND55S-01	09	衬套 Guide sleeve	2.3 Kg	01-ND55S-09
02	O形圈 O Ring	0.01 Kg	01-ND55S-02	10	挡圈 Circlip	0.02 Kg	01-ND55S-10
03	逆止阀 Check Valve	0.6 Kg	01-ND55S-03	11	卡环 Retainer Ring	0.5 Kg	01-ND55S-11
04	弹簧 Spring	0.06 Kg	01-ND55S-04	12	O形圈 O Ring	0.01 Kg	01-ND55S-12
05	配气座 Valve Seat	1.85 Kg	01-ND55S-05	13	卡钎套 Drive Chuck	5.8 Kg	01-ND55S-13
06	内缸 Inner Cylinder	3.1 Kg	01-ND55S-06	14	钻头 Drill Bit		01-ND55S-13
07	活塞 Piston	11.8 Kg	01-ND55S-07				
08	外缸 Piston Case	22.5 Kg	01-ND55S-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1119mm	62Kg	φ 117mm	API3 1/2"REG	ND55S	φ 127- φ 145mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量 / Air Consumption			
		1.0Mpa	1.5Mpa		
1.0-2.5 Mpa	30-60 r/min	6m ³ /min	12m ³ /min		

SP681 (ND65A)

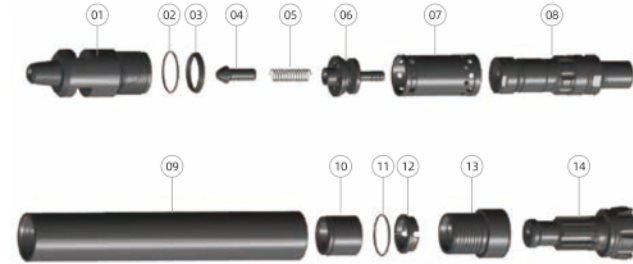


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	21.5 Kg	01-SP681-01	09	外缸 Piston Case	36.5 kg	01-SP681-09
02	O形圈 O Ring	0.01 Kg	01-SP681-02	10	衬套 Guide sleeve	6.3 kg	01-SP681-10
03	碟簧 Disc Spring	0.34 Kg	01-SP681-03	11	挡圈 Circlip	0.02 kg	01-SP681-11
04	逆止阀 Check Valve	0.56 Kg	01-SP681-04	12	卡环 Retainer Ring	1 kg	01-SP681-12
05	弹簧 Spring	0.05 Kg	01-SP681-05	13	O形圈 O Ring	0.01 Kg	01-SP681-13
06	配气座 Valve Seat	4.3 Kg	01-SP681-06	14	卡钎套 Drive Chuck	8.2 kg	01-SP681-14
07	内缸 Inner Cylinder	4.2 Kg	01-SP681-07	15	钻头 Drill Bit		01-SP681-15
08	活塞 Piston	23 Kg	01-SP681-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1210mm	106Kg	φ 148mm	API3 1/2"REG	ND65A	φ 158- φ 190mm
适用气压 Work Pressure		推荐转速 Recommended Rotation Speed		耗风量 / Air Consumption	
1.2-2.5 Mpa		30-60 r/min		1.8Mpa	2.4Mpa
				16m ³ /min	23m ³ /min

SP781 (ND75A)

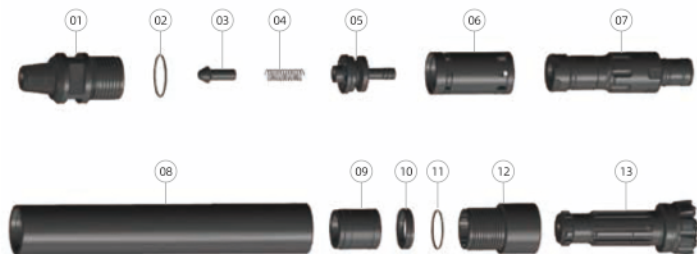


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	31.2 Kg	01-SP781-01	09	外缸 Piston Case	47 kg	01-SP781-09
02	O形圈 O Ring	0.01 Kg	01-SP781-02	10	衬套 Guide sleeve	5.65 kg	01-SP781-10
03	碟簧 Disc Spring	0.5 Kg	01-SP781-03	11	挡圈 Circlip	0.02 kg	01-SP781-11
04	逆止阀 Check Valve	0.65 Kg	01-SP781-04	12	卡环 Retainer Ring	1.3 kg	01-SP781-12
05	弹簧 Spring	0.09 Kg	01-SP781-05	13	卡钎套 Drive Chuck	11.5 kg	01-SP781-13
06	配气座 Valve Seat	5.5 Kg	01-SP781-06	14	钻头 Drill Bit		01-SP781-14
07	内缸 Inner Cylinder	5.5 Kg	01-SP781-07				
08	活塞 Piston	34.5 Kg	01-SP781-08				

技术参数 / Technical specification

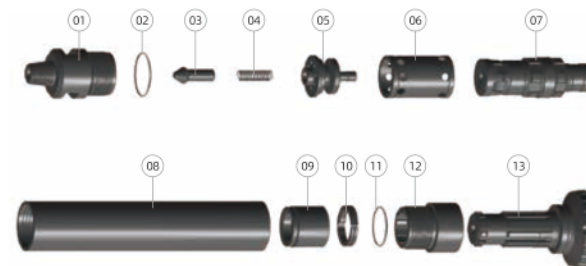
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1225mm	143.5Kg	φ 165mm	API3 1/2"REG	ND75A	φ 178- φ 216mm
适用气压 Work Pressure		推荐转速 Recommended Rotation Speed		耗风量 / Air Consumption	
1.5-2.8 Mpa		30-60 r/min		1.8Mpa	2.4Mpa
				21m ³ /min	28m ³ /min

SP880 (ND85A)



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	38.5 Kg	01-SP880-01	09	衬套 Guide sleeve	6.1 kg	01-SP880-09
02	O形圈 O Ring	0.02 Kg	01-SP880-02	10	卡环 Retainer Ring	1.2 kg	01-SP880-10
03	逆止阀 Check Valve	0.65 Kg	01-SP880-03	11	O形圈 O Ring	0.01 Kg	01-SP880-11
04	弹簧 Spring	0.1 Kg	01-SP880-04	12	卡钎套 Drive Chuck	19.3 kg	01-SP880-12
05	配气座 Valve Seat	6.2 Kg	01-SP880-05	13	钻头 Drill Bit		01-SP880-13
06	内缸 Inner Cylinder	7.4 Kg	01-SP880-06				
07	活塞 Piston	44.5 Kg	01-SP880-07				
08	外缸 Piston Case	69.5 Kg	01-SP880-08				

SP1081 (N100A)



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	62 Kg	01-SP1081-01	09	衬套 Guide sleeve	11.5 kg	01-SP1081-09
02	O形圈 O Ring	0.02 Kg	01-SP1081-02	10	卡环 Retainer Ring	2.2 kg	01-SP1081-10
03	逆止阀 Check Valve	1.5 Kg	01-SP1081-03	11	O形圈 O Ring	0.02 Kg	01-SP1081-11
04	弹簧 Spring	0.20 Kg	01-SP1081-04	12	卡钎套 Drive Chuck	26 kg	01-SP1081-12
05	配气座 Valve Seat	13.5 Kg	01-SP1081-05	13	钻头 Drill Bit		01-SP1081-13
06	内缸 Inner Cylinder	13 Kg	01-SP1081-06				
07	活塞 Piston	71.5 Kg	01-SP1081-07				
08	外缸 Piston Case	98 Kg	01-SP1081-08				

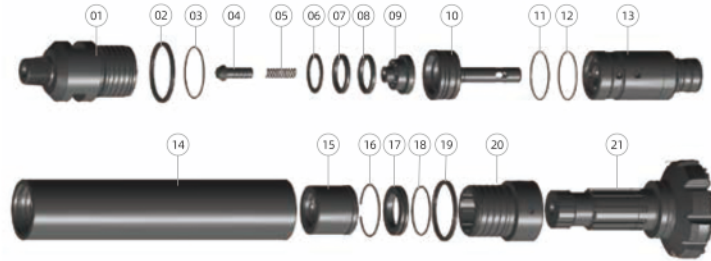
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1354mm	193Kg	φ 185mm	API4 1/2"REG	ND85A	φ 198- φ 254mm
适用气压 Work Pressure	1.5-3.3 Mpa	推荐转速 Recommended Rotation Speed	30-60 r/min	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
				25m ³ /min	34m ³ /min

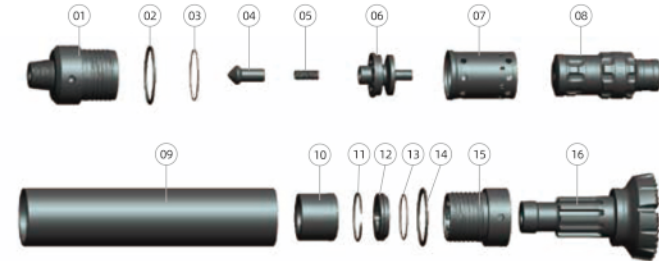
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1475mm	299.5Kg	φ 225mm	API5 1/2"REG	NUMA100A	φ 254- φ 311mm
适用气压 Work Pressure	1.5-3.3 Mpa	推荐转速 Recommended Rotation Speed	25 ~ 50 r/min	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
				36m ³ /min	58m ³ /min

N125A



SP330 (ND140A)



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	163.5 Kg	01-N125A-01	12	O形圈 O Ring	0.03 Kg	01-N125A-12
02	垫圈 Washer	1.5 Kg	01-N125A-02	13	活塞 Piston	137.7Kg	01-N125A-13
03	O形圈 O Ring	0.03 Kg	01-N125A-03	14	外缸 Piston Case	247.5Kg	01-N125A-14
04	逆止阀 Check Valve	1.5 Kg	01-N125A-04	15	衬套 Guide sleeve	29.7 Kg	01-N125A-15
05	弹簧 Spring	0.2 Kg	01-N125A-05	16	挡圈 Circlip	0.2 Kg	01-N125A-16
06	垫片 Squashing Ring	0.7 Kg	01-N125A-06	17	卡环 Retainer Ring	7 Kg	01-N125A-17
07	橡胶垫 Rubber Buffer	0.3 Kg	01-N125A-07	18	O形圈 O Ring	0.3 Kg	01-N125A-18
08	橡胶垫 Rubber Buffer	0.3 Kg	01-N125A-08	19	垫圈 Washer	1.5 Kg	01-N125A-19
09	配气座 Valve Seat	11.8 Kg	01-N125A-09	20	卡钎套 Drive Chuck	67.2 Kg	01-N125A-20
10	配气杆 Rigid Valve	27.4 Kg	01-N125A-10	21	钻头 Drill Bit		01-N125A-21
11	O形圈 O Ring	0.03 Kg	01-N125A-11				

Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	160 Kg	01-SP330-01	09	外缸 Piston Case	317 Kg	01-SP330-09
02	垫片 Squashing Ring	1.5 Kg	01-SP330-02	10	衬套 Guide sleeve	43.5 Kg	01-SP330-10
03	O形圈 O Ring	0.05 Kg	01-SP330-03	11	挡圈 Circlip	0.5 Kg	01-SP330-11
04	逆止阀 Check Valve	3.4 Kg	01-SP330-04	12	卡环 Retainer Ring	12.4 Kg	01-SP330-12
05	弹簧 Spring	0.4 Kg	01-SP330-05	13	O形圈 O Ring	0.03 Kg	01-SP330-13
06	配气座 Valve Seat	31.5 Kg	01-SP330-06	14	垫片 Squashing Ring	1.9 Kg	01-SP330-14
07	内缸 Inner Cylinder	28.7 Kg	01-SP330-07	15	卡钎套 Drive Chuck	77.4 Kg	01-SP330-15
08	活塞 Piston	173 Kg	01-SP330-08	16	钻头 Drill Bit		01-SP330-16

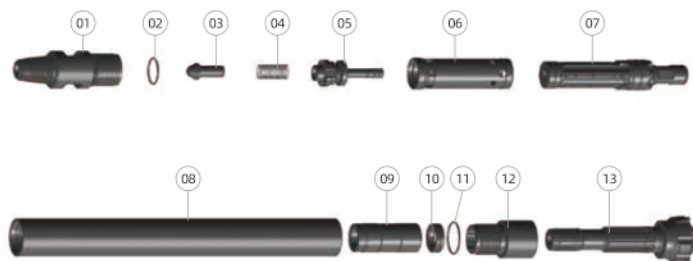
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1785mm	698.5Kg	φ 305mm	API6 5/8"REG	NUMA125A	φ 330- φ 400mm
适用气压 Work Pressure		推荐转速 Recommended Rotation Speed		耗风量/Air Consumption	
1.5-3.3 Mpa		25 ~ 45 r/min		1.8Mpa	2.4Mpa
				46m ³ /min	58m ³ /min

技术参数 / Technical specification

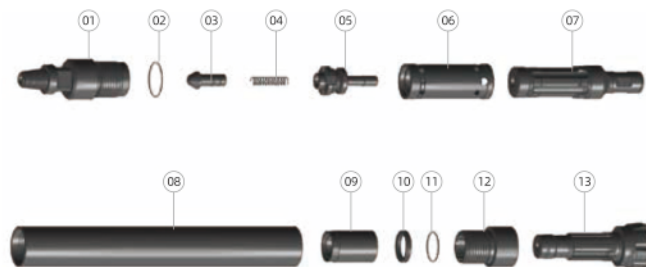
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1861mm	851Kg	φ 332mm	API7 5/8"REG	SP330	φ 350- φ 550mm
适用气压 Work Pressure		推荐转速 Recommended Rotation Speed		耗风量/Air Consumption	
1.5-3.3 Mpa		25 ~ 45 r/min		1.8Mpa	2.4Mpa
				53m ³ /min	76m ³ /min

QL40A



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	8.1 Kg	01-QL40A-01	09	衬套 Guide sleeve	2.3 Kg	01-QL40A-09
02	O形圈 O Ring	0.01 Kg	01-QL40A-02	10	卡环 Retainer Ring	0.27 Kg	01-QL40A-10
03	逆止阀 Check Valve	0.3 Kg	01-QL40A-03	11	O形圈 O Ring	0.01 Kg	01-QL40A-11
04	弹簧 Spring	0.04 Kg	01-QL40A-04	12	卡钎套 Driver Chuck	3.3 Kg	01-QL40A-12
05	配气座 Valve Seat	1.5 Kg	01-ND45A-05	13	钻头 Drill Bit		01-QL40A-13
06	内缸 Inner Cylinder	2.1 Kg	01-QL40A-06				
07	活塞 Piston	8.4 Kg	01-QL40A-07				
08	外缸 Piston Case	16.4 Kg	01-QL40A-08				

QL50A



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	14 Kg	01-QL50A-01	09	衬套 Guide sleeve	2.75 Kg	01-QL50A-09
02	O形圈 O Ring	0.01 Kg	01-QL50A-02	10	卡环 Retainer Ring	0.45 Kg	01-QL50A-10
03	逆止阀 Check Valve	0.6 Kg	01-QL50A-03	11	O形圈 O Ring	0.01 Kg	01-QL50A-11
04	弹簧 Spring	0.06 Kg	01-QL50A-04	12	卡钎套 Drive Chuck	5.4 Kg	01-QL50A-12
05	配气座 Valve Seat	2.15 Kg	01-QL50A-05	13	钻头 Drill Bit		01-QL50A-13
06	内缸 Inner Cylinder	3.3 Kg	01-QL50A-06				
07	活塞 Piston	15.5 Kg	01-QL50A-07				
08	外缸 Piston Case	24.2 Kg	01-QL50A-08				

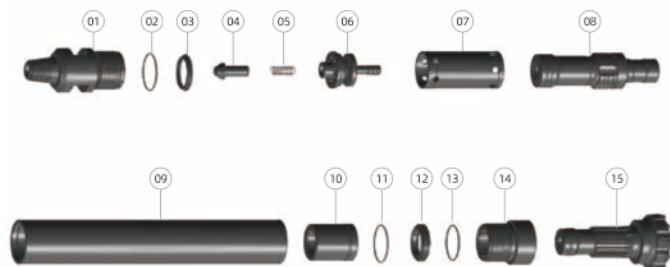
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1057mm	42.7Kg	φ 99mm	API2 3/8"REG	QL40A	φ 110- φ 135mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption			
		1.0Mpa	1.8Mpa		
1.0-2.2 Mpa	30-60 r/min	5m ³ /min	9m ³ /min		

技术参数 / Technical specification

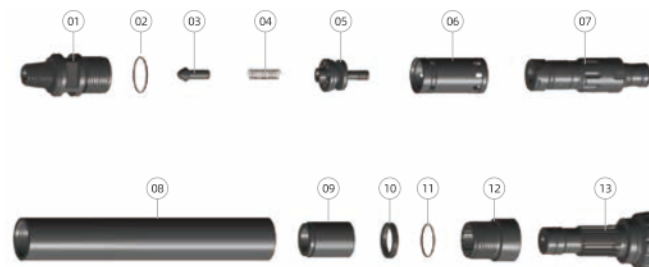
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1102mm	68.5Kg	φ 126mm	API2 3/8"REG	QL50A	φ 136- φ 155mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量/Air Consumption			
		1.0Mpa	1.8Mpa		
1.0-2.5 Mpa	30-60 r/min	7m ³ /min	13m ³ /min		

QL680



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	21.5 Kg	01-QL680-01	09	外缸 Piston Case	34.3 Kg	01-QL680-09
02	O形圈 O Ring	0.01 Kg	01-QL680-02	10	衬套 Guide sleeve	5.4 Kg	01-QL680-10
03	碟簧 Disc Spring	0.34 Kg	01-QL680-03	11	挡圈 Circlip	0.02 Kg	01-QL680-11
04	逆止阀 Check Valve	0.56 Kg	01-QL680-04	12	卡环 Retainer Ring	0.92 Kg	01-QL680-12
05	弹簧 Spring	0.05 Kg	01-QL680-05	13	O形圈 O Ring	0.01 Kg	01-QL680-13
06	配气座 Valve Seat	4.3 Kg	01-QL680-06	14	卡钎套 Drive Chuck	7.5 Kg	01-QL680-14
07	内缸 Inner Cylinder	4.2 Kg	01-QL680-07	15	钻头 Drill Bit		01-QL680-15
08	活塞 Piston	23 Kg	01-QL680-08				

QL880



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	38.5 Kg	01-QL880-01	09	衬套 Guide sleeve	10.5 kg	01-QL880-09
02	O形圈 O Ring	0.02 Kg	01-QL880-02	10	卡环 Retainer Ring	1.2 kg	01-QL880-10
03	逆止阀 Check Valve	0.65 Kg	01-QL880-03	11	O形圈 O Ring	0.01 Kg	01-QL880-11
04	弹簧 Spring	0.1 Kg	01-QL880-04	12	卡钎套 Drive Chuck	14.5 kg	01-QL880-12
05	配气座 Valve Seat	6.2 Kg	01-QL880-05	13	钻头 Drill Bit		01-QL880-13
06	内缸 Inner Cylinder	7.4 Kg	01-QL880-06				
07	活塞 Piston	44.5 Kg	01-QL880-07				
08	外缸 Piston Case	64.5 Kg	01-QL880-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1155mm	102Kg	φ 148mm	API3 1/2"REG	QL60A	φ 158- φ 203mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.2-2.7 Mpa	30 ~ 60 r/min	16m ³ /min	23m ³ /min		

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 External Diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1335mm	188Kg	φ 185mm	API4 1/2"REG	QL80A	φ 198- φ 254mm
适用气压 Work Pressure	推荐转速 Recommended Rotation Speed	耗风量 / Air Consumption			
			2.4Mpa		
1.5-3.3 Mpa	30 ~ 60 r/min	25m ³ /min	34m ³ /min		

ND/QL Series DTH Hammer with foot valve

ND/QL 有尾管系列冲击器

装配带尼龙管钻头的高风压潜孔冲击器是我公司自行设计的无阀高压冲击器
This high air pressure DTH hammer working with footvalve

其主要特点如下:

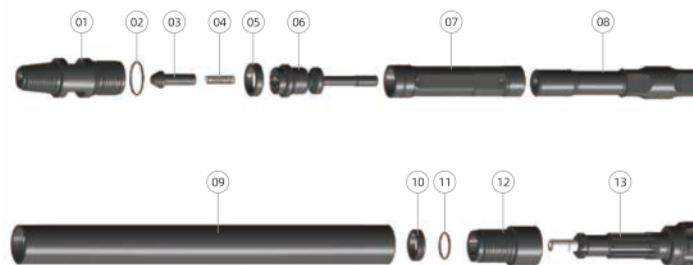
- 采用无阀方式配气, 配气可靠。
- 活塞构造简单, 不易损坏。
- 能量传递理想, 钻进速度快, 耗气量小, 油耗低。
- 所用部件少, 结构简单, 加上各部件均硬化处理, 因此, 工作寿命长, 故障少, 维修方便。
- 接头和卡钎套采用螺纹与外缸联接, 拆卸容易。

The main features are as following:

- Valveless air distribution. More reliable.
- Simple design of the piston. long life span.
- More efficient energy transfer, faster drilling speed, lower air consumption and lower oil consumption.
- Fewer internal parts, simple structure, long life span, less failure and easier to maintain because all the parts are heat treated.
- Easy to disassemble because the top sub, the drive chuck and the external cylinder are connected by multiple steps thread.



DHD3.5

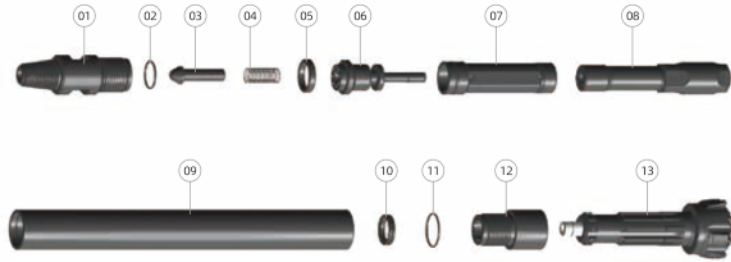


Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	4.4 Kg	01-DHD3.5-01	09	外缸 External Cylinder	9.5 Kg	01-DHD3.5-09
02	O形圈 O Ring	0.01 Kg	01-DHD3.5-02	10	卡环 Stop Ring	0.1 Kg	01-DHD3.5-10
03	逆止阀 Check Valve	0.2 Kg	01-DHD3.5-03	11	O形圈 O Ring	0.01 Kg	01-DHD3.5-11
04	弹簧 Spring	0.02 Kg	01-DHD3.5-04	12	卡钎套 Drive Chuck	2.1 Kg	01-DHD3.5-12
05	橡胶垫 Rubber Buffer	0.02 Kg	01-DHD3.5-05	13	钻头 Drill Bit		01-DHD3.5-13
06	配气座 Valve Seat	1.4 Kg	01-DHD3.5-06				
07	内缸 Inner Cylinder	1.7 Kg	01-DHD3.5-07				
08	活塞 Piston	5.6 Kg	01-DHD3.5-08				

技术参数 / Technical specification

总长 (不含钻头) Length (Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
928mm	25Kg	φ 82mm	API2 3/8"REG	DHD3.5	φ 90 - φ 110mm
工作风压 working pressure		推荐转速 Recommended rotation speed		耗风量 / Air Consumption	
1.0-1.7 Mpa		30-60 r/min		1.0Mpa	1.5Mpa
				4.5m ³ /min	8.5m ³ /min

DHD340

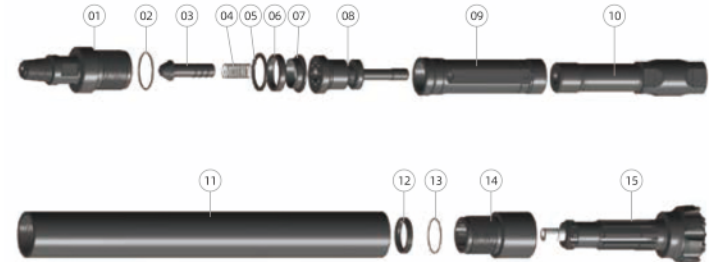


Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	8.8 Kg	01-DHD340-01	09	外缸 External Cylinder	15.9 Kg	01-DHD340-09
02	O形圈 O Ring	0.01 Kg	01-DHD340-02	10	卡环 Stop Ring	0.2 Kg	01-DHD340-10
03	逆止阀 Check Valve	0.46 Kg	01-DHD340-03	11	O形圈 O Ring	0.01 Kg	01-DHD340-11
04	弹簧 Spring	0.04 Kg	01-DHD340-04	12	卡钎套 Drive Chuck	3.7 Kg	01-DHD340-12
05	橡胶垫 rubber Buffer	0.2 Kg	01-DHD340-05	13	钻头 Drill Bit		01-DHD340-13
06	配气座 Valve Seat	2.1 Kg	01-DHD340-06				
07	内缸 Internal Cylinder	2.45 Kg	01-DHD340-07				
08	活塞 Piston	9 Kg	01-DHD340-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1032mm	43Kg	φ 99mm	API2 3/8"REG	DHD340	φ 110- φ 135mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量/Air Consumption			
		1.0Mpa	1.8Mpa		
1.0-2.2 Mpa	30-60 r/min	5.5m ³ /min	10m ³ /min		

DHD350

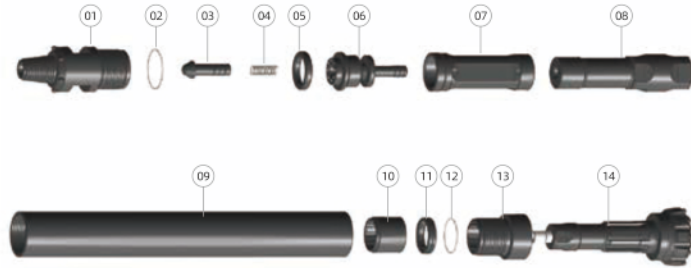


Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	14.7 Kg	01-DHD350-01	09	内缸 Inner Cylinder	4.9 Kg	01-DHD350-09
02	O形圈 O Ring	0.02 Kg	01-DHD350-02	10	活塞 Piston	15.5 Kg	01-DHD350-10
03	逆止阀 Check Valve	1 Kg	01-DHD350-03	11	外缸 Piston Case	30.3 Kg	01-DHD350-11
04	弹簧 Spring	0.06 Kg	01-DHD350-04	12	卡环 Retainer Ringk	0.3 Kg	01-DHD350-12
05	调整圈 Regulate Ring	0.1 Kg	01-DHD350-05	13	O形圈 O Ring	0.01 Kg	01-DHD350-13
06	橡胶垫 Rubber Buffer	0.06 Kg	01-DHD350-06	14	卡钎套 Drive Chuck	7.1 Kg	01-DHD350-14
07	垫座 Pedestal	0.2 Kg	01-DHD350-07	15	钻头 Drill Bit		01-DHD350-15
08	配气座 Valve Seat	4.2 Kg	01-DHD350-08				

技术参数 / Technical specification

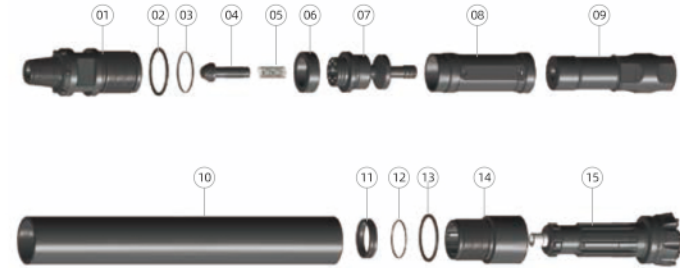
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1209mm	78.5Kg	φ 125mm	API2 3/8"REG	DHD350	φ 135- φ 155mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量/Air Consumption			
		1.0Mpa	1.8Mpa		
1.0-2.5 Mpa	30-60 r/min	9m ³ /min	15m ³ /min		

DHD360



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	20.3 Kg	01-DHD360-01	09	外缸 Piston Case	37.2 Kg	01-DHD360-09
02	O形圈 O Ring	0.02 Kg	01-DHD360-02	10	衬套 Guide sleeve	2.5 Kg	01-DHD360-10
03	逆止阀 Check Valve	0.8 Kg	01-DHD360-03	11	卡环 Retainer Ring	0.6 Kg	01-DHD360-11
04	弹簧 Spring	0.05 Kg	01-DHD360-04	12	O形圈 O Ring	0.02 Kg	01-DHD360-12
05	橡胶垫 Rubber Buffer	0.3 Kg	01-DHD360-05	13	卡钎套 Drive Chuck	6 Kg	01-DHD360-13
06	配气座 Valve Seat	5 Kg	01-DHD360-06	14	钻头 Drill Bit		01-DHD360-14
07	内缸 Inner Cylinder	4 Kg	01-DHD360-07				
08	活塞 Piston	23.5 Kg	01-DHD360-08				

DHD380



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	42 Kg	01-DHD380-01	09	活塞 Piston	41.5 Kg	01-DHD380-09
02	垫片 Squashing Ring	0.2 Kg	01-DHD380-02	10	外缸 Piston Case	62.5 Kg	01-DHD380-10
03	O形圈 O Ring	0.02 Kg	01-DHD380-03	11	卡环 Retainer Ring	1.2 Kg	01-DHD380-11
04	逆止阀 Check Valve	1.3 Kg	01-DHD380-04	12	O形圈 O Ring	0.02 Kg	01-DHD380-12
05	弹簧 Spring	0.09 Kg	01-DHD380-05	13	垫片 Squashing Ring	0.2 Kg	01-DHD380-13
06	橡胶垫 Rubber Buffer	0.4 Kg	01-DHD380-06	14	卡钎套 Drive Chuck	18.2 Kg	01-DHD380-14
07	配气座 Valve Seat	13 Kg	01-DHD380-07	15	钻头 Drill Bit		01-DHD380-15
08	内缸 Inner Cylinder	9.1 Kg	01-DHD380-08				

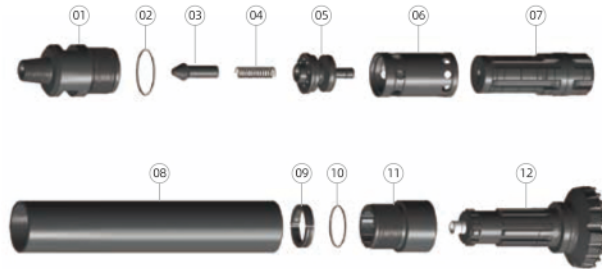
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1063mm	100.5Kg	φ142mm	API3 1/2"REG	DHD360	φ150-φ190mm
适用气压 Work Pressure	1.0-2.5 Mpa	推荐转速 Recommended rotation speed	30-60 r/min	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
				20m ³ /min	28m ³ /min

技术参数 / Technical specification

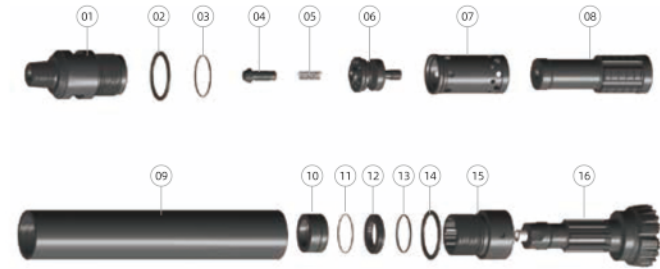
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1492mm	190Kg	φ180mm	API4 1/2"REG	DHD380	φ195-φ254mm
适用气压 Work Pressure	1.5-3.3 Mpa	推荐转速 Recommended rotation speed	30-60 r/min	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
				26m ³ /min	34m ³ /min

NUMA100



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	60 kg	01-NUMA100-01	09	卡环 Retainer Ring	2.2 kg	01-NUMA100-09
02	O形圈 O Ring	0.03 kg	01-NUMA100-02	10	O形圈 O Ring	0.02 kg	01-NUMA100-10
03	逆止阀 Check Valve	1.5 kg	01-NUMA100-03	11	卡钎套 Drive Chuck	27 kg	01-NUMA100-11
04	弹簧 Spring	0.2 kg	01-NUMA100-04	12	钻头 Drill Bit		01-NUMA100-12
05	配气座 Valve Seat	12.8 kg	01-NUMA100-05				
06	内缸 Inner Cylinder	13.5 kg	01-NUMA100-06				
07	活塞 Piston	71 kg	01-NUMA100-07				
08	外缸 Piston Case	94.5 kg	01-NUMA100-08				

DHD1120



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	134 kg	01-DHD1120-01	09	外缸 Piston Case	220 Kg	01-DHD1120-09
02	垫片 Squashing Ring	0.8 kg	01-DHD1120-02	10	衬套 Guide sleeve	12 Kg	01-DHD1120-10
03	O形圈 O Ring	0.04 kg	01-DHD1120-03	11	挡圈 Circlip	0.25 Kg	01-DHD1120-11
04	逆止阀 Check Valve	1.5 kg	01-DHD1120-04	12	卡环 Retainer Ring	5.2 Kg	01-DHD1120-12
05	弹簧 Spring	0.2 kg	01-DHD1120-05	13	O形圈 O Ring	0.04 Kg	01-DHD1120-13
06	配气座 Valve Seat	21 kg	01-DHD1120-06	14	垫片 Squashing Ring	1.2 Kg	01-DHD1120-14
07	内缸 Inner Cylinder	29 kg	01-DHD1120-07	15	卡钎套 Drive Chuck	53.5 Kg	01-DHD1120-15
08	活塞 Piston	119 kg	01-DHD1120-08	16	钻头 Drill Bit		01-DHD1120-16

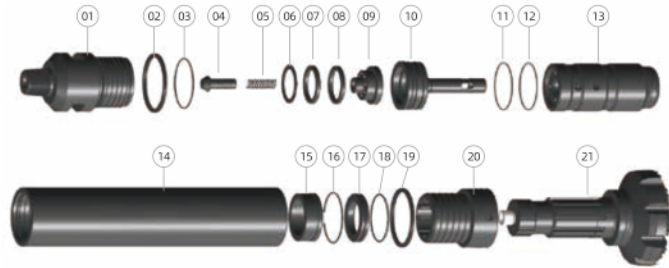
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1432mm	283Kg	φ 225mm	API5 1/2"REG	NUMA100	φ 254- φ 311mm
适用气压 Work Pressure	1.5-3.3 Mpa	25 ~ 50 r/min	40m ³ /min	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
				25 ~ 50 r/min	60m ³ /min

技术参数 / Technical specification

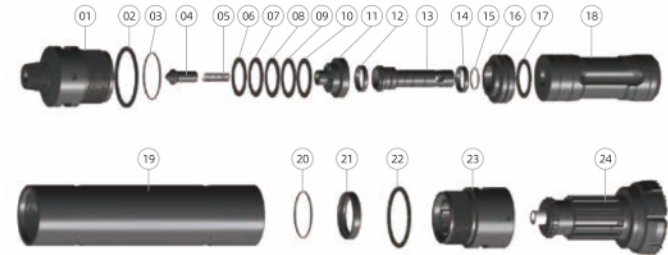
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1845mm	598Kg	φ 275mm	API6 5/8"REG	DHD1120	φ 295- φ 400mm
适用气压 Work Pressure	1.5-3.3 Mpa	25 ~ 50 r/min	50m ³ /min	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
				25 ~ 50 r/min	70m ³ /min

N125



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	163.5 Kg	01-N125-01	12	O形圈 O Ring	0.03 Kg	01-N125-12
02	垫圈 Washer	1.5 Kg	01-N125-02	13	活塞 Piston	154 Kg	01-N125-13
03	O形圈 O Ring	0.03 Kg	01-N125-03	14	外缸 Piston Case	246.5Kg	01-N125-14
04	逆止阀 Check Valve	1.5 Kg	01-N125-04	15	衬套 Guide Sleeve	12.7 Kg	01-N125-15
05	弹簧 Spring	0.2 Kg	01-N125-05	16	挡圈 Circlip	0.2 Kg	01-N125-16
06	垫片 Squashing Ring	0.7 Kg	01-N125-06	17	卡环 Retainer Ring	7 Kg	01-N125-17
07	橡胶垫 Rubber Buffer	0.3 Kg	01-N125-07	18	O形圈 O Ring	0.3 Kg	01-N125-18
08	橡胶垫 rubber Buffer	0.3 Kg	01-N125-08	19	垫圈 Washer	1.5 Kg	01-N125-19
09	配气座 Valve Seat	11.8 Kg	01-N125-09	20	卡钎套 Driver Chuck	68.5 Kg	01-N125-20
10	配气杆 Rigid Valve	27.4 Kg	01-N125-10	21	钻头 Drill Bit		01-N125-21
11	O形圈 O Ring	0.03 Kg	01-N125-11				

YC410



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	274 Kg	01-YC410-01	13	配气杆 Rigid Valve	0.3 Kg	01-YC410-13
02	垫片 Squashing Ring	2.9 Kg	01-YC410-02	14	橡胶垫 Rubber Buffer	0.3 Kg	01-YC410-14
03	O形圈 O Ring	0.03 Kg	01-YC410-03	15	O形圈 O Ring	0.03 Kg	01-YC410-15
04	逆止阀 Check Valve	3.4 Kg	01-YC410-04	16	杆座 Pole seat	50 Kg	01-YC410-16
05	弹簧 Spring	0.3 Kg	01-YC410-05	17	O形圈 O Ring	0.03 Kg	01-YC410-17
06	调整圈 regulate ring	1.5 Kg	01-YC410-06	18	活塞 Piston	347 Kg	01-YC410-18
07	碟簧 Disc Sping	1.35 Kg	01-YC410-07	19	外缸 Piston Case	562 Kg	01-YC410-19
08	碟簧 Disc Sping	1.35 Kg	01-YC410-08	20	挡圈 Circlip	0.3 Kg	01-YC410-20
09	碟簧 Disc Sping	1.35 Kg	01-YC410-09	21	卡环 Retainer Ring	10 Kg	01-YC410-21
10	碟簧 Disc Sping	1.35 Kg	01-YC410-10	22	垫片 Squashing Ring	2.9 Kg	01-YC410-22
11	配气座 Valve Seat	26.4 Kg	01-YC410-11	23	卡钎套 Driver Chuck	155 Kg	01-YC410-23
12	橡胶垫 Rubber Buffer	0.3 Kg	01-YC410-12	24	钻头 Drill Bit		01-YC410-24

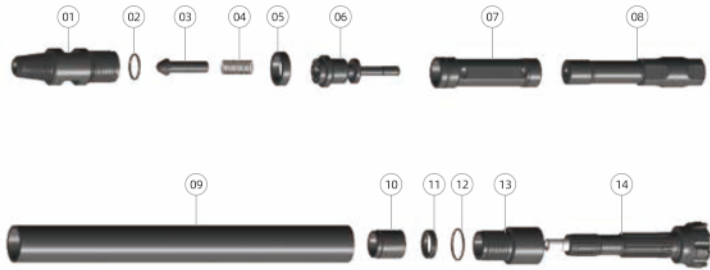
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1785mm	698Kg	φ 305mm	API6 5/8"REG	NUMA125	φ 330- φ 400mm
适用气压 Work Pressure	1.5-3.3 Mpa	推荐转速 Recommended rotation speed	25 ~ 45 r/min	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
				46m ³ /min	58m ³ /min

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
2162mm	1464Kg	φ 406mm	API8 5/8"REG	YC410	φ 450- φ 600mm
适用气压 Work Pressure	1.5-3.5 Mpa	推荐转速 Recommended rotation speed	20~40 r/min	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
				63m ³ /min	85m ³ /min

QL40

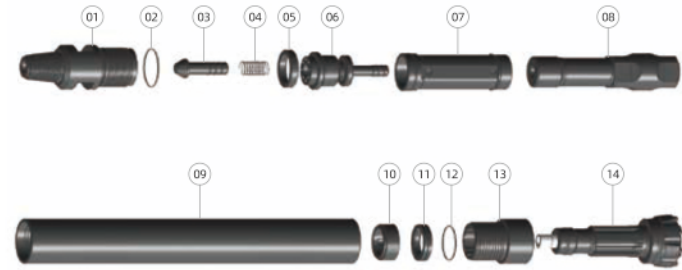


Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	8.8 Kg	01-QL40-01	09	外缸 Piston Case	16.5 Kg	01-QL40-09
02	O形圈 O Ring	0.01 Kg	01-QL40-02	10	衬套 Guide Sleeve	0.9 Kg	01-QL40-10
03	逆止阀 Check Valve	0.46 Kg	01-QL40-03	11	卡环 Retainer Ring	0.2 Kg	01-QL40-11
04	弹簧 Spring	0.04 Kg	01-QL40-04	12	O形圈 O Ring	0.01 Kg	01-QL40-12
05	橡胶垫 Rubber Buffer	0.2 Kg	01-QL40-05	13	卡钎套 Drive Chuck	3.3 Kg	01-QL40-13
06	配气座 Valve Seat	2.1 Kg	01-QL40-06	14	钻头 Drill Bit		01-QL40-14
07	内缸 Inner Cylinder	2.45 Kg	01-QL40-07				
08	活塞 Piston	8.8 Kg	01-QL40-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1102mm	43.7Kg	φ 99mm	API2 3/8"REG	QL40	φ 110- φ 135mm
适用气压 Work Pressure	1.0-2.2 Mpa	30-60 r/min	5.5m³/min	耗风量/Air Consumption	
				1.0Mpa	1.8Mpa

QL50

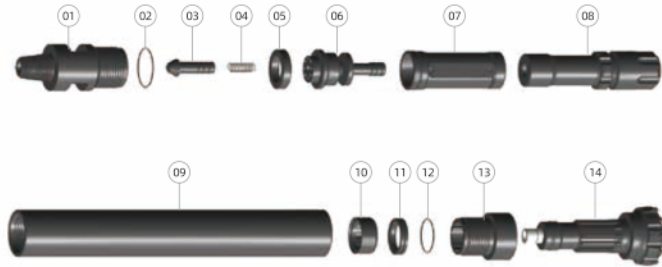


Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	14.7 Kg	01-QL50-01	09	外缸 Piston Case	24.7 Kg	01-QL50-09
02	O形圈 O Ring	0.02 Kg	01-QL50-02	10	衬套 Guide Sleeve	1 Kg	01-QL50-10
03	逆止阀 Check Valve	1 Kg	01-QL50-03	11	卡环 Retainer Ring	0.6 Kg	01-QL50-11
04	弹簧 Spring	0.06 Kg	01-QL50-04	12	O形圈 O Ring	0.01 Kg	01-QL50-12
05	橡胶垫 Rubber Buffer	0.2 Kg	01-QL50-05	13	卡钎套 Drive Chuck	5.6 Kg	01-QL50-13
06	配气座 Valve Seat	4.1 Kg	01-QL50-06	14	钻头 Drill Bit		01-QL50-14
07	内缸 Inner Cylinder	4.4 Kg	01-QL50-07				
08	活塞 Piston	17 Kg	01-QL50-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1154mm	73.5Kg	φ 126mm	API2 3/8"REG	QL50	φ 135- φ 155mm
适用气压 Work Pressure	1.0-2.5 Mpa	30-60 r/min	9m³/min	耗风量/Air Consumption	
				1.0Mpa	1.8Mpa

QL60

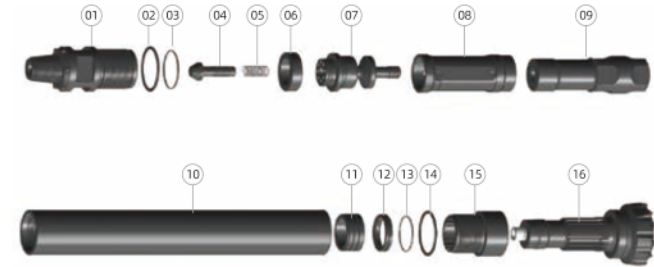


Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	23 Kg	01-QL60-01	09	外缸 Piston Case	39 Kg	01-QL60-09
02	O形圈 O Ring	0.02 Kg	01-QL60-02	10	衬套 Guide Sleeve	1.1 Kg	01-QL60-10
03	逆止阀 Check Valve	0.08 Kg	01-QL60-03	11	卡环 Retainer Ring	0.6 Kg	01-QL60-11
04	弹簧 Spring	0.05 Kg	01-QL60-04	12	O形圈 O Ring	0.02 Kg	01-QL60-12
05	橡胶垫 Rubber Buffer	0.3 Kg	01-QL60-05	13	卡钎套 Drive Chuck	6.3 Kg	01-QL60-13
06	配气座 Valve Seat	6.2 Kg	01-QL60-06	14	钻头 Drill Bit		01-QL60-14
07	内缸 Inner Cylinder	5 Kg	01-QL60-07				
08	活塞 Piston	23.5 Kg	01-QL60-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1211mm	105Kg	φ 148mm	API3 1/2"REG	QL60	φ 158- φ 190mm
适用气压 Work Pressure	1.0-2.5 Mpa	30-60 r/min	推荐转速 Recommended rotation speed	耗风量/Air Consumption	
				1.0Mpa	1.8Mpa
1.0-2.5 Mpa		30-60 r/min		20m ³ /min	28m ³ /min

QL80



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	42 Kg	01-QL80-01	09	活塞 Piston	41 Kg	01-QL80-09
02	垫片 Squashing Ring	0.2 Kg	01-QL80-02	10	外缸 Piston Case	64 Kg	01-QL80-10
03	O形圈 O Ring	0.02 Kg	01-QL80-03	11	衬套 Guide Sleeve	2.9 Kg	01-QL80-11
04	逆止阀 Check Valve	1.3 Kg	01-QL80-04	12	卡环 Retainer Ring	1.2 Kg	01-QL80-12
05	弹簧 Spring	0.1 Kg	01-QL80-05	13	O形圈 O Ring	0.02 Kg	01-QL80-13
06	橡胶垫 Rubber Buffer	0.4 Kg	01-QL80-06	14	垫片 Squashing Ring	0.2 Kg	01-QL80-14
07	配气座 Valve Seat	12.7 Kg	01-QL80-07	15	卡钎套 Drive Chuck	12 Kg	01-QL80-15
08	内缸 Inner Cylinder	9.1 Kg	01-QL80-08	16	钻头 Drill Bit		01-QL80-16

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1471mm	187Kg	φ 180mm	API4 1/2"REG	QL80	φ 195- φ 254mm
适用气压 Work Pressure	1.5-3.3 Mpa	30-60 r/min	推荐转速 Recommended rotation speed	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
1.5-3.3 Mpa		30-60 r/min		26m ³ /min	34m ³ /min

MISSION / SD Shank DTH Hammer

Mission/SD series 系列

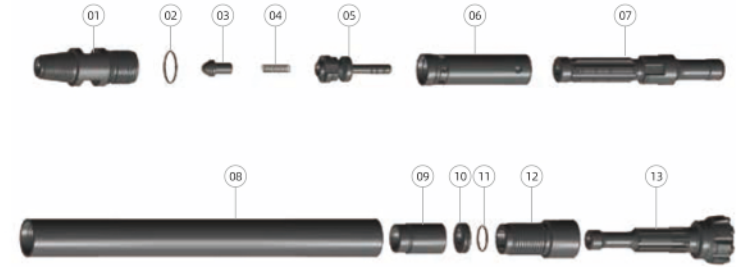


我公司冲击器采用国际先进设计原理,使冲击器能更好地传导能量,钻孔速度更快,耗气量更低。我公司采用优质的原材料,先进的加工工艺,冲击器性能稳定,寿命长,易于使用、安装、拆卸和维修。

Our company DTH hammer designed by international advanced high-tech theory, which make the hammer has better energy transduction, faster working speed and less air consumption. Our company use best raw material with advanced production process make the hammers have much stable working performance, long life and easier to use, to assemble and to repair.



M30

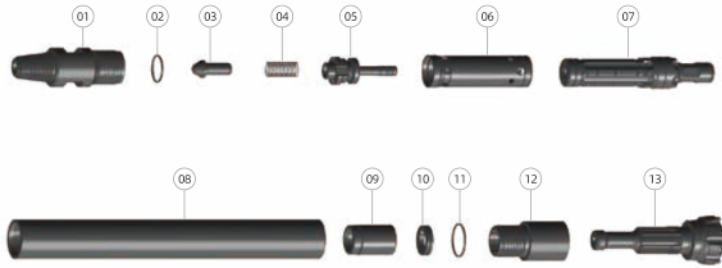


Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	4.5 Kg	01-Mis30-01	09	衬套 Guide Sleeve	0.9 Kg	01-Mis30-09
02	O形圈 O Ring	0.01 Kg	01-Mis30-02	10	卡环 Retainer Ring	0.2 kg	01-Mis30-10
03	逆止阀 Check Valve	0.13 Kg	01-Mis30-03	11	O形圈 O Ring	0.01 Kg	01-Mis30-11
04	弹簧 Spring	0.02 Kg	01-Mis30-04	12	卡钎套 Drive Chuck	2.5 kg	01-Mis30-12
05	配气座 Valve Seat	0.76 Kg	01-Mis30-05	13	钻头 Drill Bit		01-Mis30-13
06	内缸 Inner Cylinder	1.45 Kg	01-Mis30-06				
07	活塞 Piston	4.8 Kg	01-Mis30-07				
08	外缸 Piston Case	7.6 Kg	01-Mis30-08				

技术参数 / Technical specification

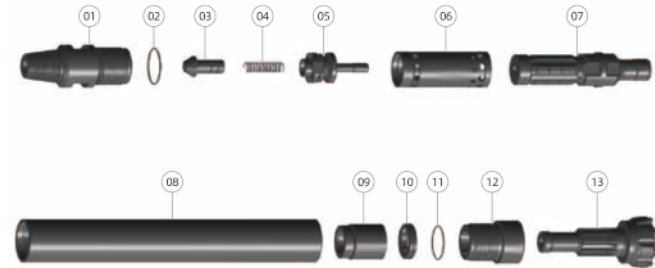
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
931mm	23Kg	φ 82mm	API2 3/8"REG	M30	φ 90- φ 115mm
通用气压 Work Pressure		推荐转速 Recommended rotation speed		耗风量 / Air Consumption	
1.0-1.7 Mpa		30-50 r/min		1.0Mpa	1.5Mpa
				4m³/min	6.5m³/min

M40



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	8.1 Kg	01-Mis40-01	09	衬套 Guide Sleeve	1.84 Kg	01-Mis40-09
02	O形圈 O Ring	0.01 Kg	01-Mis40-02	10	卡环 Retainer Ring	0.3 Kg	01-Mis40-10
03	逆止阀 Check Valve	0.3 Kg	01-Mis40-03	11	O形圈 O Ring	0.01 Kg	01-Mis40-11
04	弹簧 Spring	0.04 Kg	01-Mis40-04	12	卡钎套 Drive Chuck	3.9 Kg	01-Mis40-12
05	配气座 Valve Seat	1.5 Kg	01-Mis40-05	13	钻头 Drill Bit		01-Mis40-13
06	内缸 Inner Cylinder	2.1 Kg	01-Mis40-06				
07	活塞 Piston	8.4 Kg	01-Mis40-07				
08	外缸 Piston Case	15 Kg	01-Mis40-08				

NM5C



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	12.7 Kg	01-NM5C-01	09	衬套 Guide Sleeve	3 Kg	01-NM5C-09
02	O形圈 O Ring	0.01 Kg	01-NM5C-02	10	卡环 Retainer Ring	0.7 Kg	01-NM5C-10
03	逆止阀 Check Valve	0.6 Kg	01-NM5C-03	11	O形圈 O Ring	0.01 Kg	01-NM5C-11
04	弹簧 Spring	0.06 Kg	01-NM5C-04	12	卡钎套 Drive Chuck	5.3 Kg	01-NM5C-12
05	配气座 Valve Seat	1.7 Kg	01-NM5C-05	13	钻头 Drill Bit		01-NM5C-13
06	内缸 Inner Cylinder	2.9 Kg	01-NM5C-06				
07	活塞 Piston	12 Kg	01-NM5C-07				
08	外缸 Piston Case	23 Kg	01-NM5C-08				

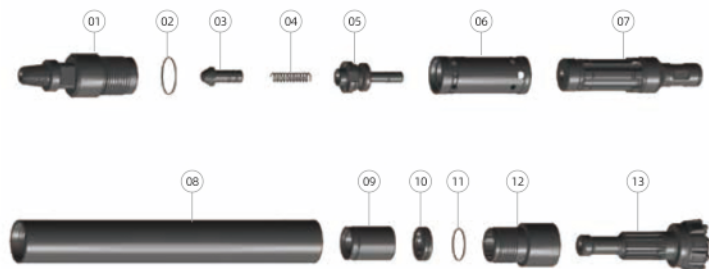
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1004mm	40.5Kg	φ 99mm	API2 3/8"REG	M40	φ 110-φ 135mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量/Air Consumption			
		1.0Mpa	1.8Mpa		
1.0-2.2 Mpa	30-60 r/min	5m ³ /min	9m ³ /min		

技术参数 / Technical specification

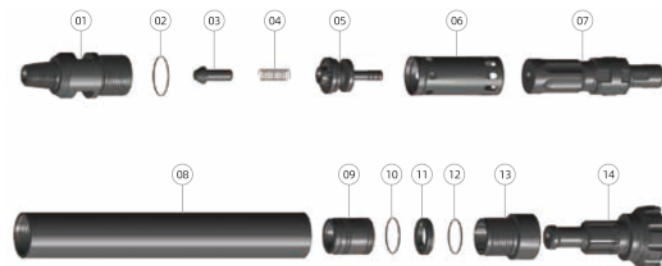
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1080mm	62Kg	φ 114mm	API2 3/8"REG	NM5C	φ 125-φ 146mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量/Air Consumption			
		1.0Mpa	1.8Mpa		
1.0-2.5 Mpa	30-60 r/min	6m ³ /min	12m ³ /min		

M50



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	13.7 Kg	01-Mis50-01	09	衬套 Guide Sleeve	2.6 Kg	01-Mis50-09
02	O形圈 O Ring	0.02 Kg	01-Mis50-02	10	卡环 Retainer Ring	0.7 Kg	01-Mis50-10
03	逆止阀 Check Valve	0.7 Kg	01-Mis50-03	11	O形圈 O Ring	0.01 Kg	01-Mis50-11
04	弹簧 Spring	0.1 Kg	01-Mis50-04	12	卡钎套 Drive Chuck	7.1 Kg	01-Mis50-12
05	配气座 Valve Seat	2 Kg	01-Mis50-05	13	钻头 Drill Bit		01-Mis50-13
06	内缸 Inner Cylinder	2.8 Kg	01-Mis50-06				
07	活塞 Piston	15 Kg	01-Mis50-07				
08	外缸 Piston Case	24 Kg	01-Mis50-08				

M60



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	20 kg	01-Mis60-01	09	衬套 Guide Sleeve	4.8 kg	01-Mis60-09
02	O形圈 O Ring	0.01 Kg	01-Mis60-02	10	O形圈 O Ring	0.01 Kg	01-Mis60-10
03	逆止阀 Check Valve	0.56 Kg	01-Mis60-03	11	卡环 Retainer Ring	0.9 kg	01-Mis60-11
04	弹簧 Spring	0.06 Kg	01-Mis60-04	12	O形圈 O Ring	0.01 Kg	01-Mis60-12
05	配气座 Valve Seat	3.5 kg	01-Mis60-05	13	卡钎套 Drive Chuck	5.8 kg	01-Mis60-13
06	内缸 Inner Cylinder	3.9 kg	01-Mis60-06	14	钻头 Drill Bit		01-Mis60-14
07	活塞 Piston	21.5 kg	01-Mis60-07				
08	外缸 Piston Case	30.5 kg	01-Mis60-08				

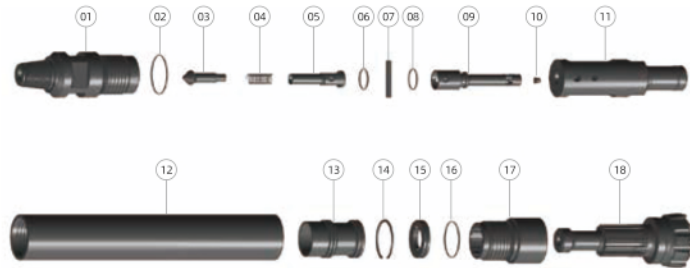
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1122mm	70.5Kg	φ 126mm	API2 3/8"REG	M50	φ 136- φ 155mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.0Mpa	1.8Mpa		
1.0-2.5 Mpa	30-60 r/min	7m ³ /min	13m ³ /min		

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1129mm	91.5Kg	φ 144mm	API3 1/2"REG	M60	φ 152- φ 203mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.0Mpa	1.8Mpa		
1.0-2.8 Mpa	30-60 r/min	18m ³ /min	25m ³ /min		

M80

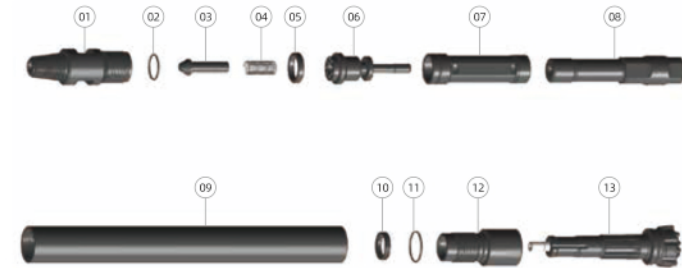


Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	43 Kg	01-Mis80-01	10	尼龙塞 Nylon Plug	0.04 Kg	01-Mis80-10
02	O形圈 O Ring	0.01 Kg	01-Mis80-02	11	活塞 Piston	42 Kg	01-Mis80-11
03	逆止阀 Check Valve	0.46 Kg	01-Mis80-03	12	外缸 Piston Case	43 Kg	01-Mis80-12
04	弹簧 Spring	0.07 Kg	01-Mis80-04	13	衬套 Guide Sleeve	9.8 Kg	01-Mis80-13
05	阀座 Valve Seat	0.65 Kg	01-Mis80-05	14	挡圈 Circlip	0.09 Kg	01-Mis80-14
06	O形圈 O Ring	0.01 Kg	01-Mis80-06	15	卡环 Retainer Ring	1.9 Kg	01-Mis80-15
07	插销 Bole	0.3 Kg	01-Mis80-07	16	O形圈 O Ring	0.01 Kg	01-Mis80-16
08	O形圈 O Ring	0.01 Kg	01-Mis80-08	17	卡钎套 Drive Chuck	17 Kg	01-Mis80-17
09	配气杆 Rigid Valve	2 Kg	01-Mis80-09	18	钻头 Drill Bit		01-Mis80-18

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1333mm	160.5Kg	φ 180mm	API4 1/2"REG	M80	φ 195- φ 245mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量/Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.3 Mpa	30 ~ 60 r/min	26m ³ /min	35m ³ /min		

SD4

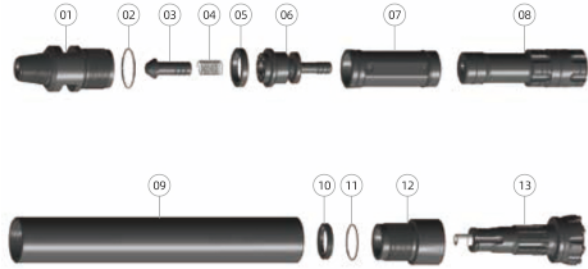


Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	01 接头 Top Sub	8.8 Kg	01-SD4-01	09	外缸 Piston Case	15.6 Kg	01-SD4-09
02	O形圈 O Ring	0.01 Kg	01-SD4-02	10	卡环 Retainer Ring	0.2 Kg	01-SD4-10
03	逆止阀 Check Valve	0.46 Kg	01-SD4-03	11	O形圈 O Ring	0.01 Kg	01-SD4-11
04	弹簧 Spring	0.04 Kg	01-SD4-04	12	卡钎套 Drive Chuck	4 Kg	01-SD4-12
05	橡胶垫 Rubber Buffer	0.2 Kg	01-SD4-05	13	钻头 Drill Bit		01-SD4-13
06	配气座 Valve Seat	2.1 Kg	01-SD4-06				
07	内缸 Inner Cylinder	2.45 Kg	01-SD4-07				
08	活塞 Piston	9 Kg	01-SD4-08				

技术参数 / Technical specification

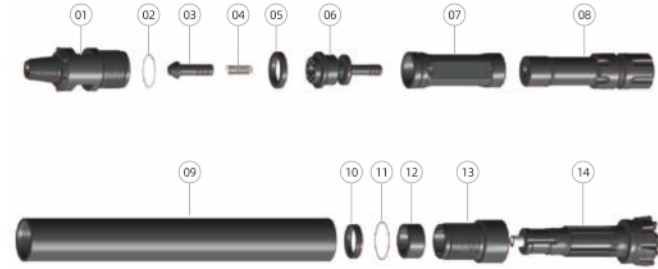
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1082mm	43Kg	φ 99mm	API2 3/8"REG	SD4	φ 110- φ 135mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量/Air Consumption			
		1.8Mpa	2.4Mpa		
1.0-2.2 Mpa	30-60 r/min	5.5m ³ /min	10m ³ /min		

SD5



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	14.7 Kg	01-SD5-01	09	外缸 Piston Case	23.5 Kg	01-SD5-09
02	O形圈 O Ring	0.02 Kg	01-SD5-02	10	卡环 Retainer Ring	0.5 Kg	01-SD5-10
03	逆止阀 Check Valve	1 Kg	01-SD5-03	11	O形圈 O Ring	0.01 Kg	01-SD5-11
04	弹簧 Spring	0.06 Kg	01-SD5-04	12	卡钎套 Drive Chuck	7.8 Kg	01-SD5-12
05	橡胶垫 Rubber Buffer	0.2 Kg	01-SD5-05	13	钻头 Drill Bit		01-SD5-13
06	配气座 Valve Seat	4.1 Kg	01-SD5-06				
07	内缸 Inner Cylinder	4.4 Kg	01-SD5-07				
08	活塞 Piston	17.3 Kg	01-SD5-08				

SD6



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	20.3 Kg	01-SD6-01	09	外缸 Piston Case	34.5 Kg	01-SD6-09
02	O形圈 O Ring	0.02 Kg	01-SD6-02	10	卡环 Retainer Ring	0.5 Kg	01-SD6-10
03	逆止阀 Check Valve	0.8 Kg	01-SD6-03	11	O形圈 O Ring	0.01 Kg	01-SD6-11
04	弹簧 Spring	0.05 Kg	01-SD6-04	12	衬套 Guide Sleeve	1.6 Kg	01-SD6-12
05	橡胶垫 Rubber Buffer	0.3 Kg	01-SD6-05	13	卡钎套 Drive Chuck	8 Kg	01-SD6-13
06	配气座 Valve Seat	5 Kg	01-SD6-06	14	钻头 Drill Bit		01-SD6-14
07	内缸 Inner Cylinder	4 Kg	01-SD6-07				
08	活塞 Piston	23.5 Kg	01-SD6-08				

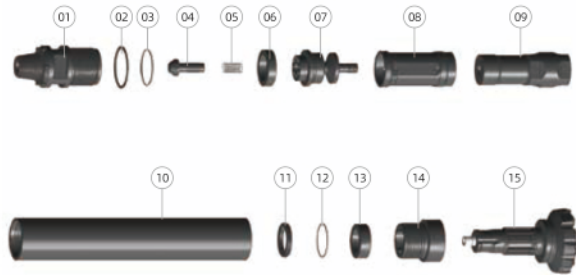
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1178mm	73.6Kg	φ 125mm	API2 3/8"REG	SD5	φ 135- φ 155mm
适用气压 Work Pressure	1.0-2.5 Mpa	30-60 r/min	推荐转速 Recommended rotation speed	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
1.0-2.5 Mpa	30-60 r/min	9m³/min		15m³/min	

技术参数 / Technical specification

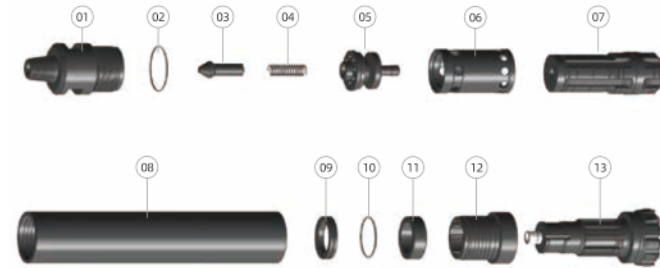
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1277mm	99Kg	φ 142mm	API3 1/2"REG	SD6	φ 150- φ 190mm
适用气压 Work Pressure	1.0-2.5 Mpa	30-60 r/min	推荐转速 Recommended rotation speed	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
1.0-2.5 Mpa	30-60 r/min	20m³/min		28m³/min	

SD8



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	42 Kg	01-SD8-01	09	活塞 Piston	43.5 Kg	01-SD8-09
02	垫片 Squashing Ring	0.2 Kg	01-SD8-02	10	外缸 Piston Case	64.5 Kg	01-SD8-10
03	O形圈 O Ring	0.02 Kg	01-SD8-03	11	卡环 Retainer Ring	1.25 Kg	01-SD8-11
04	逆止阀 Check Valve	1.3 Kg	01-SD8-04	12	O形圈 O Ring	0.02 Kg	01-SD8-12
05	弹簧 Spring	0.09 Kg	01-SD8-05	13	衬套 Guide Sleeve	3.35 Kg	01-SD8-13
06	橡胶垫 Rubber Buffer	0.4 Kg	01-SD8-06	14	卡钎套 Drive Chuck	16 Kg	01-SD8-14
07	配气座 Valve Seat	12.7 Kg	01-SD8-07	15	钻头 Drill Bit		01-SD8-15
08	内缸 Inner Cylinder	9.1 Kg	01-SD8-08				

SD10



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	60 kg	01-SD10-01	09	卡环 Retainer Ring	2.76 kg	01-SD10-09
02	O形圈 O Ring	0.03 kg	01-SD10-02	10	O形圈 O Ring	0.02 kg	01-SD10-10
03	逆止阀 Check Valve	1.5 kg	01-SD10-03	11	衬套 Guide Sleeve	5 kg	01-SD10-11
04	弹簧 Spring	0.2 kg	01-SD10-04	12	卡钎套 Drive Chuck	21 kg	01-SD10-12
05	配气座 Valve Seat	12.8 kg	01-SD10-05	13	钻头 Drill Bit		01-SD10-13
06	内缸 Inner Cylinder	13.5 kg	01-SD10-06				
07	活塞 Piston	71 kg	01-SD10-07				
08	外缸 Piston Case	85 kg	01-SD10-08				

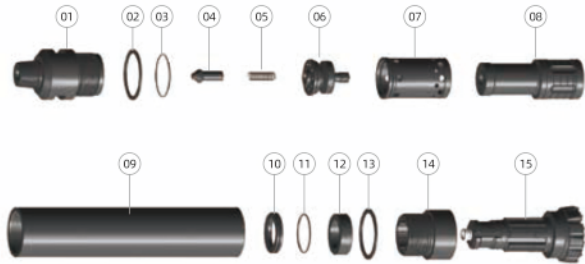
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1463mm	194Kg	φ 180mm	API4 1/2"REG	SD8	φ 195- φ 254mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量/Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.3 Mpa	30-60 r/min	26m³/min	34m³/min		

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1413mm	273Kg	φ 225mm	API5 1/2"REG	SD10	φ 254- φ 311mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量/Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.3 Mpa	25 ~ 50 r/min	40m³/min	60m³/min		

SD12



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	134 kg	01-SD12-01	09	外缸 Piston Case	220 kg	01-SD12-09
02	垫片 Squashing Ring	0.8 kg	01-SD12-02	10	卡环 Retainer Ring	5.2 kg	01-SD12-10
03	O形圈 O Ring	0.04 kg	01-SD12-03	11	O形圈 O Ring	0.03 kg	01-SD12-11
04	逆止阀 Check Valve	1.5 kg	01-SD12-04	12	衬套 Guide Sleeve	5.2 kg	01-SD12-12
05	弹簧 Spring	0.2 kg	01-SD12-05	13	垫片 Squashing Ring	0.8 kg	01-SD12-13
06	配气座 Valve Seat	21 kg	01-SD12-06	14	卡钎套 Drive Chuck	53.5 kg	01-SD12-14
07	内缸 Inner Cylinder	29 kg	01-SD12-07	15	钻头 Drill Bit		01-SD12-15
08	活塞 Piston	118 kg	01-SD12-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1825mm	589Kg	φ 275mm	API6 5/8"REG	SD12	φ 295- φ 400mm
适用气压 Work Pressure	1.5-3.3 Mpa	推荐转速 Recommended rotation speed	25 ~ 50 r/min	耗风量/Air Consumption	
				1.8Mpa	2.4Mpa
				50m ³ /min	70m ³ /min

TD40

Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	8.9 Kg	01-TD40-01	08	活塞 Piston	9 Kg	01-TD40-09
02	O形圈 O Ring	0.01 Kg	01-TD40-02	09	外缸 Piston Case	15.9 Kg	01-TD40-10
03	逆止阀 Check Valve	0.46 Kg	01-TD40-03	10	卡环 Retainer Ring	0.2 Kg	01-TD40-11
04	弹簧 Spring	0.04 Kg	01-TD40-04	11	O形圈 O Ring	0.01 Kg	01-TD40-12
05	橡胶垫 Rubber Buffer	0.2 Kg	01-TD40-05	12	卡钎套 Drive Chuck	3.6 Kg	01-TD40-13
06	配气座 Valve Seat	2.1 Kg	01-TD40-06	13	钻头 Drill Bit		
07	内缸 Inner Cylinder	2.45 Kg	01-TD40-07				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1032mm	42.8Kg	φ 99mm	API2 3/8"REG	TD40	φ 110- φ 135mm
适用气压 Work Pressure	1.0-2.2 Mpa	推荐转速 Recommended rotation speed	30-60 r/min	耗风量/Air Consumption	
				1.0Mpa	1.8Mpa
				5.5m ³ /min	10m ³ /min

COP32

Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	4.5 Kg	01-COP32-01	08	外缸 Piston Case	9.6 Kg	01-COP32-09
02	O形圈 O Ring	0.01 Kg	01-COP32-02	09	衬套 Guide Sleeve	0.9 Kg	01-COP32-10
03	逆止阀 Check Valve	0.13 Kg	01-COP32-03	10	卡环 Retainer Ring	0.15 Kg	01-COP32-11
04	弹簧 Spring	0.02 Kg	01-COP32-04	11	O形圈 O Ring	0.01 Kg	01-COP32-12
05	配气座 Valve Seat	0.76 Kg	01-COP32-05	12	卡钎套 Drive Chuck	1.9 Kg	01-COP32-13
06	内缸 Inner Cylinder	1.45 Kg	01-COP32-06	13	钻头 Drill Bit		
07	活塞 Piston	4.8 Kg	01-COP32-07				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
921mm	25.5Kg	φ 82mm	API2 3/8"REG	COP32	φ 90- φ 115mm
适用气压 Work Pressure	1.0-1.7 Mpa	推荐转速 Recommended rotation speed	30-50 r/min	耗风量/Air Consumption	
				1.0Mpa	1.5Mpa
				4m ³ /min	6.5m ³ /min

Medium-low DTH hammer

中低风压潜孔冲击器

其主要特点如下

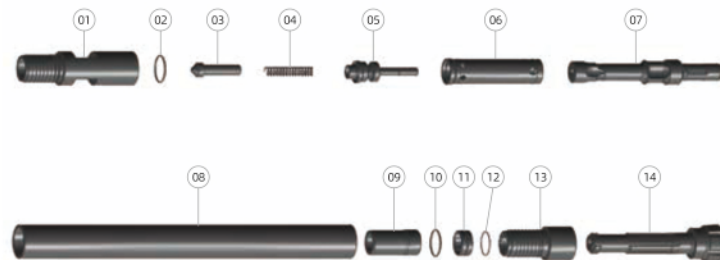
- 适应工作压力为0.7—1.75Mpa。
- 该冲击器为无阀冲击器。
- 结构简单、拆卸容易、寿命长。
- 冲击功率大,钻进速度快。
- 耗风量小,能耗低。当需要加大排渣时,可在逆止阀上钻孔。
- 特别适应于石材开采。

The main features are as following:

- The pressure are between 0.7 MPa and 1.75 MPa.
- Valveless hammers.
- Simple structure, esily to assemble and to disassemble, long lifespan.
- Higher impulse and faster drilling rate.
- Lower air consumption and lower oil consumption. A hole can be drilled on the check valve to provide more efficient cuttings discharge.
- Especially suitable for quarrying.



BR1

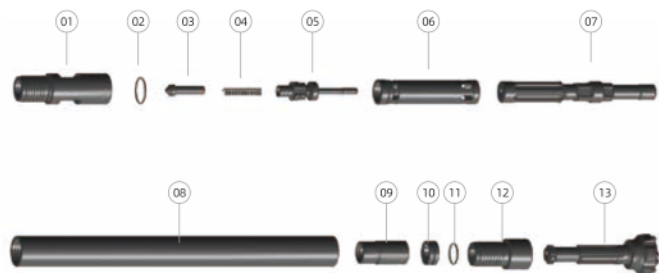


Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	1.92 kg	03-BR1-01	09	衬套 Guide Sleeve	0.29 kg	03-BR1-09
02	O形圈 O Ring	0.01 Kg	03-BR1-02	10	挡圈 Circlip	0.1 kg	03-BR1-10
03	逆止阀 Check Valve	0.08 kg	03-BR1-03	11	卡环 Retainer Ring	0.08 kg	03-BR1-11
04	弹簧 Spring	0.01 Kg	03-BR1-04	12	O形圈 O Ring	0.01 Kg	03-BR1-12
05	配气座 Valve Seat	0.46 kg	03-BR1-05	13	卡钎套 Drive Chuck	0.82 kg	03-BR1-13
06	内缸 Inner Cylinder	0.38 kg	03-BR1-06	14	钻头 Drill Bit		03-BR1-14
07	活塞 Piston	1.16 kg	03-BR1-07				
08	外缸 Piston Case	3.46 kg	03-BR1-08				

技术参数 / Technical specification

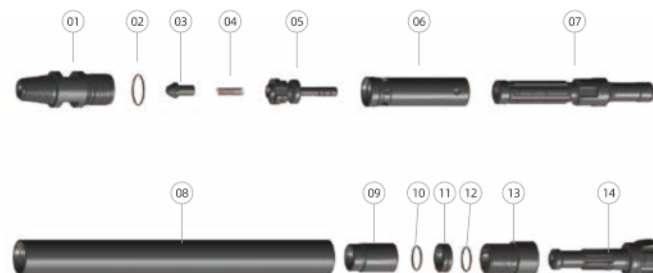
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
698mm	8.8Kg	φ 56mm	RD40 BOX	BR1	φ 64- φ 76mm
适用气压 Working Pressure		推荐转速 Recommended rotation speed		耗风量/Air Consumption	
0.8-1.5 MPa		30-50 r/min		1.0MPa	1.4MPa
				2m ³ /min	3m ³ /min

BR2



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	2.5 Kg	03-BR2-01	09	衬套 Guide Sleeve	0.52 Kg	03-BR2-09
02	O形圈 O Ring	0.01 Kg	03-BR2-02	10	卡环 Retainer Ring	0.1 Kg	03-BR2-10
03	逆止阀 Check Valve	0.08 Kg	03-BR2-03	11	O形圈 O Ring	0.01 Kg	03-BR2-11
04	弹簧 Spring	0.05 Kg	03-BR2-04	12	卡钎套 Drive Chuck	1.2 Kg	03-BR2-12
05	配气座 Valve Seat	0.5 Kg	03-BR2-05	13	钻头 Drill Bit		03-BR2-13
06	内缸 Inner Cylinder	0.6 Kg	03-BR2-06				
07	活塞 Piston	2.3 Kg	03-BR2-07				
08	外缸 Piston Case	4.5 Kg	03-BR2-08				

BR3



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	4.4 Kg	01-BR3-01	09	衬套 Guide Sleeve	0.9 Kg	01-BR3-09
02	O形圈 O Ring	0.01 Kg	01-BR3-02	10	挡圈 Circlip	0.15 Kg	01-BR3-10
03	逆止阀 Check Valve	0.13 Kg	01-BR3-03	11	卡环 Retainer Ring	0.25 Kg	01-BR3-11
04	弹簧 Spring	0.02 Kg	01-BR3-04	12	O形圈 O Ring	0.01 Kg	01-BR3-12
05	配气座 Valve Seat	0.76 Kg	01-BR3-05	13	卡钎套 Drive Chuck	2 kg	01-BR3-13
06	内缸 Inner Cylinder	1.45 Kg	01-BR3-06	14	钻头 Drill Bit		01-BR3-14
07	活塞 Piston	4.7 Kg	01-BR3-07				
08	外缸 Piston Case	6 Kg	01-BR3-08				

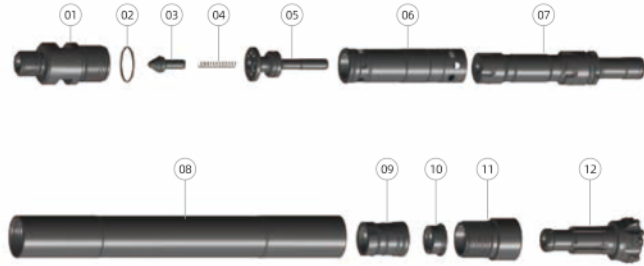
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
810mm	12.5Kg	φ 64mm	RD50 BOX	BR2	φ 70- φ 90mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.0Mpa	1.4Mpa		
0.8-1.5 Mpa	30-50 r/min	3m ³ /min	4.5m ³ /min		

技术参数 / Technical specification

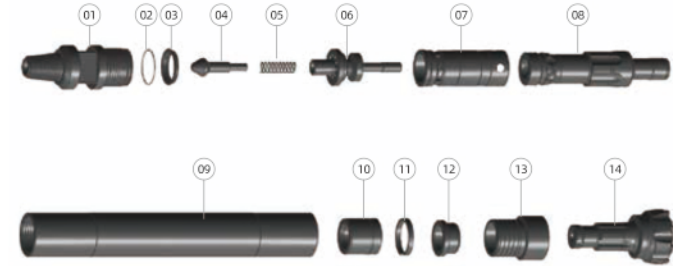
总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
871mm	21Kg	φ 82mm	API2 3/8"REG	BR3	φ 90- φ 115mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.0Mpa	1.5Mpa		
1.0-1.7 Mpa	30-50 r/min	4m ³ /min	7m ³ /min		

N3



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	3.55 Kg	01-N3-01	07	活塞 Piston	4.7 Kg	01-N3-07
02	O形圈 O Ring	0.01 Kg	01-N3-02	08	外缸 Piston Case	7.5 Kg	01-N3-08
03	逆止阀 Check Valve	0.12 Kg	01-N3-03	09	衬套 Guide Sleeve	0.9 Kg	01-N3-09
04	弹簧 Spring	0.01 Kg	01-N3-04	10	卡环 Retainer Ring	0.2 Kg	01-N3-10
05	配气座 Valve Seat	0.7 Kg	01-N3-05	11	卡钎套 Drive Chuck	1.75 Kg	01-N3-11
06	内缸 Inner Cylinder	1 Kg	01-N3-06	12	钻头 Drill Bit		01-N3-12

N4



Ref.	部件 Parts	单重 Weight	件号 Part No.	Ref.	部件 Parts	单重 Weight	件号 Part No.
01	接头 Top Sub	6.65 Kg	01-N4-01	09	外缸 Piston Case	12.1 Kg	01-N4-09
02	O形圈 O Ring	0.01 KG	01-N4-02	10	衬套 Guide Sleeve	1.6 Kg	01-N4-10
03	承压垫 Bearing Pad	0.12 Kg	01-N4-03	11	挡圈 Retaining Ring	0.1 Kg	01-N4-11
04	逆止阀 Check Valve	0.41 Kg	01-N4-04	12	卡环 Retainer Ring	0.5 Kg	01-N4-12
05	弹簧 Spring	0.05 Kg	01-N4-05	13	卡钎套 Drive Chuck	2.9 Kg	01-N4-13
06	配气座 Valve Seat	1.4 Kg	01-N4-06	14	钻头 Drill Bit		01-N4-14
07	内缸 Inner Cylinder	1.4 Kg	01-N4-07				
08	活塞 Piston	7.8 Kg	01-N4-08				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
771.5mm	20.5Kg	φ 80mm	T48X10	N3	φ 87- φ 110mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.0Mpa	1.5Mpa		
0.8-1.7 Mpa	30-60 r/min	5m ³ /min	7m ³ /min		

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
856mm	35kg	φ 100mm	API2 3/8"REG	N4	φ 108- φ 135mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.0Mpa	1.5Mpa		
0.8-1.9 Mpa	30-60 r/min	5.5m ³ /min	9m ³ /min		

02

DOWN THE HOLE BITS

潜孔钻头

潜孔钻头特色优势

- **钻头寿命长:** 合金材质, 其使用寿命, 并且高于同类产品;
- **钻进效率高:** 钻齿耐磨, 使得钻头能始终保持锐利, 因而大大提高进齿速度;
- **钻进速度稳定:** 钻头以冲击、剪切来破碎岩石;
- **保径效果好:** 我公司钻头耐磨性强, 保径性能好, 能使切削齿得到高效利用;
- **使用范围广:** 实践证明, 该钻头适用于碳酸盐岩、灰岩、白垩岩、粘土岩、粉砂岩、砂岩等软、中硬(可钻性9级以下的岩层)硬地层的钻进, 与一般的钻头相比, 特别是钻进6-8级的岩层, 效果尤为显著。

潜孔冲击器的应用

The application of DTH Hammer

我公司潜孔钻头主要用于地质勘探、煤矿、水利水电、公路、铁路、桥梁、建设施工等。

Our company dive drill is mainly used in geological exploration, coal mine, water conservancy and hydropower, highway, railway, bridge, construction and construction, etc.

Advantages of new diamond dive drilling

- **The longer life of the drill:** the alloy material, with longer using life which better than the similar products;
- **High Drilling Efficiency:** the drill buttons is wear-resistant, so that the drill can always keep sharp, thus greatly improving the speed of the drilling.
- **The drilling speed is stable:** the bit is scraped and cut to break the rock.
- **Good Performance:** Our company bit has strong wear resistance, good diameter protection and can make the cutting teeth be used efficiently.
- **The use of a wide range:** the practice proves that the bit is suitable for carbonate rock, limestone, chalk, clay rock, siltstone, sandstone and other soft and hard (9 - grade drillability of rock, hard rock drilling), compared with normal bit, especially drilling in 6-8 grade rock the effect is particularly significant.



Drill Bit Design

钻头面型示意图



Drill Bit Characteristics

钻头面型特点

平面型 / Flat Face

这种平面型头适应于高风压时钻凿很坚硬岩层以及腐蚀性强的岩层。钻速更快，钻体磨损小。

This flat face is suitable for drilling very hard rock formations and corrosive wall formations at high air pressures. When the bits is drilling, the faster the drilling speed, the less wear of the drill body.

凹面型 / Concave Face

这种凹面型头适应于所有岩层，特别是中硬和岩性均匀的岩层中使用效果好。炮孔偏离度小，排渣效果好。

This Concave face is suitable for all rock formations, especially in medium-hard and homogeneous rock formations, the effect is good. The blast hole deviation is small, and the slag discharge effect is good.

中心下陷型 / Drop Center

采用低-中风压钻凿软-中硬以及有裂缝的岩层时，为了获得很快的凿岩速度和较小炮孔偏斜率，通常采用这种头部形状。

When using low-medium pressure to drill soft-medium hard and fractured rock formations, in order to obtain fast rock drilling speed and less blast hole slope, this face shape is usually used.

凸面型 / Convex Face

这种形状适合用于低-中风压钻凿软-中硬岩层，钻头钢体不易腐蚀。其特点是边齿承载较低，磨损不严重，钻速速度快。

This Convex face is suitable for low- to medium-pressure drilling of soft-medium hard rock formations, and the drill block is not easy to corrode. The characteristics of this design are the low load of the side button, the wear is not badly and the drilling speed is fast.

双边齿型 / Double Gauge Face

这种双边齿型头适应于高风压时钻凿很坚硬的岩层。此时钻速快，钻头体磨损较少。

This double-sided button face is suitable for drilling very hard rock formations at high air pressures. When the bits is drilling, drilling speed is fast, the bit body wear will also be less.

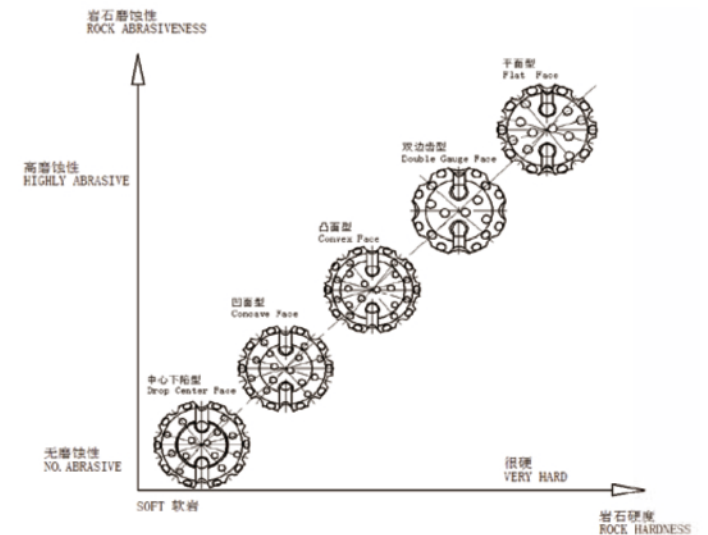
Carbide Button Shape Selection

合金齿形选择

齿形 / Tooth profile	名称 / Product Name	应用 / Application
球齿 Domed/Round Button		潜孔钻头边齿，适用于磨蚀性强、非常坚硬的岩石。 Domed/round buttons are usually used as gauge buttons of DTH bits, suitable for very abrasive and very hard formations.
抛物线齿 Parabolic/Semi-Ballistic Button		潜孔钻头的边齿和中齿，适用于磨蚀性中等、比较硬的岩石。 Parabolic buttons are usually used as gauge buttons and front buttons of DTH bits, suitable for medium abrasive and hard formations.
弹头齿 Ballistic Button		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 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 Sharp Button		潜孔钻头的中齿，适用于高转速、低断齿率的软岩层。 Sharp buttons are usually used as front buttons of DTH bits for soft formations, suitable for high rotation speed and low bit broken rate soft rock.
平头齿 Flat Button		潜孔钻头的边保护齿，减少钻头体表面的磨损。 Flat buttons are usually used as protection buttons to reduce wear on rubbing surface of DTH bits.

Main technical features

主要技术



SD系列钻头 / SD Shank Drill Bits

钻头规格 Specifications	头部规格 Specification		尾柄长度 Shank Length	花键数 Spline	排气孔数量 Port holes	合金数量X直径 Button qty.pcs X dia.mm			重量 Weight (kg)
	头部形状 Head Shape	钻头头部直径 Head Diameter (mm)				齿型 Button Type (选配件 Optional)	边齿 Gauge Buttons	芯齿 Front buttons	
SD4									
	凸面 convex face	108	260	8	2	球齿+弹头齿 Spherical+Ballistic	7XØ16	6XØ14	9
	凸面 convex face	115	260	8	2	球齿+弹头齿 Spherical+Ballistic	7XØ16	6XØ14	9.3
	凸面 convex face	127	260	8	2	球齿+弹头齿 Spherical+Ballistic	8XØ16	4XØ14+3XØ13	10.3
	凸面 convex face	130	260	8	2	球齿+弹头齿 Spherical+Ballistic	8XØ16	4XØ14+3XØ13	10.5
SD5									
	凸面 convex face	140	259	8	2	球齿+弹头齿 Spherical+Ballistic	7XØ18	4XØ15+3XØ14	15
	平面 Flat Face	146	259	8	2	球齿+弹头齿 Spherical+Ballistic	8XØ18	8XØ14	15.8
	平面 Flat Face	152	259	8	2	球齿+弹头齿 Spherical+Ballistic	8XØ18	8XØ14	16.1
	凹面 concave face	165	259	8	2	球齿 Spherical	8XØ18	4XØ16+4XØ14	18.2
	凹面 concave face	178	259	8	2	球齿 Spherical	8XØ18	6XØ16+5XØ14	19.6
SD6									
	凹面 concave face	154	322	8	2	球齿 Spherical	8XØ18	4XØ16+4XØ15	25
	平面 Flat Face	165	322	8	2	球齿 Spherical	8XØ18	8XØ16	25.8
	凹面 concave face	171	322	8	2	球齿 Spherical	8XØ18	6XØ16+4XØ15	27.3
	凹面 concave face	178	322	8	2	球齿 Spherical	8XØ18	6XØ16+5XØ15	28.2
	凹面 concave face	190	322	8	3	球齿 Spherical	9XØ18	6XØ16+5XØ15	29.4
	凹面 concave face	203	322	8	2	球齿 Spherical	10XØ18	8XØ16+6XØ15	32.5
SD8									
	凹面 concave face	203	321	8	2	球齿 Spherical	10XØ18	4XØ18+10XØ16	41.3
	凹面 concave face	216	321	8	2	球齿 Spherical	10XØ18	4XØ18+10XØ16	45
	凹面 concave face	230	321	8	2	球齿 Spherical	12XØ18	12XØ18+6XØ16	47.8
	凹面 concave face	235	321	8	2	球齿 Spherical	12XØ18	12XØ18+6XØ16	48.4
	凹面 concave face	254	321	8	2	球齿 Spherical	12XØ18	12XØ18+8XØ16	55.3
	凸凹面 concave face	275	321	8	2	球齿 Spherical	12XØ18	27XØ16	62
	凸凹面 concave face	305	321	8	3	球齿 Spherical	15XØ18	35XØ16	70.5
SD10									
	凸凹面 concave face	254	356	8	2	球齿 Spherical	12XØ19	8XØ18+19XØ16	83.2
	凸凹面 concave face	275	356	8	2	球齿 Spherical	12XØ19	8XØ18+20XØ16	87.7
	凸凹面 concave face	305	356	8	3	球齿 Spherical	15XØ19	27XØ18+8XØ16	97.5
	凸凹面 concave face	325	356	8	3	球齿 Spherical	15XØ19	27XØ18+9XØ16	106
	凸凹面 concave face	350	356	8	4	球齿 Spherical	16XØ19	32XØ18+14XØ16	115.3
	凸凹面 concave face	400	356	8	4	球齿 Spherical	16XØ19	40XØ18+25XØ16	140.7
SD12									
	凸凹面 concave face	305	470	8	3	球齿 Spherical	15XØ20	27XØ18+8XØ16	146.5
	凸凹面 concave face	311	470	8	3	球齿 Spherical	15XØ20	27XØ18+8XØ16	147
	凸凹面 concave face	325	470	8	3	球齿 Spherical	15XØ20	27XØ18+9XØ16	156
	凸凹面 concave face	350	470	8	4	球齿 Spherical	16XØ20	32XØ18+13XØ16	166
	凸凹面 concave face	381	470	8	4	球齿 Spherical	16XØ20	36XØ18+18XØ16	184
	凸凹面 concave face	400	470	8	4	球齿 Spherical	16XØ20	40XØ18+28XØ16	199
	凸凹面 concave face	445	470	8	4	球齿 Spherical	20XØ20	48XØ18+25XØ16	237.5
	凸凹面 concave face	500	470	8	4	球齿 Spherical	24XØ20	90XØ18	293









SP1880+SP330系列钻头 / SP1880 + SP330 Shank Drill Bits

钻头规格 Specifications	头部规格 Specification		尾柄长度 Shank Length	花键数 Spline	排气孔数量 Port holes	合金数量X直径 Button qty.pcs X dia.mm			重量 Weight (kg)
	头部形状 Head Shape	钻头头部直径 Head Diameter (mm)				齿型 Button Type (选配件 Optional)	边齿 Gauge Buttons	芯齿 Front buttons	
SP330									
	双边齿凹面 Double gauge button concave face	450	520	10	4	球齿 Domed	20XØ20	16XØ19+57XØ18	308
	双边齿凹面 Double gauge button concave face	500	520	10	4	球齿 Domed	24XØ20	16XØ19+73XØ18	354
	双边齿凹面 Double gauge button concave face	550	520	10	4	球齿 Domed	24XØ20	16XØ19+79XØ18	410
	双边齿凹面 Double gauge button concave face	600	520	10	4	球齿 Domed	24XØ20	16XØ19+96XØ18	483
SP1880									
	凸凹面 concave face	600	480	16	4	球齿 Domed	24XØ22	72XØ20+32XØ18	636
	双边齿凹面 Double gauge button concave face	650	480	16	4	球齿 Domed	24XØ22	80XØ20+38XØ18	721
	双边齿凹面 Double gauge button concave face	700	480	16	5	球齿 Domed	30XØ22	90XØ20+43XØ18	838
	凸凹面 concave face	800	480	16	6	球齿 Domed	36XØ22	182XØ19	1152

Middle-Low Air Pressure DTH Button Bits

中低风压潜孔钻头

CIR系列钻头 / CIR series drill bits

钻头规格 Face shape	头部规格 Button bits face		尾柄长度 Shank Length	花键数 Spline	排气孔数量 NO.Air Holes	合金数量X直径 Button qty.pcs X dia.mm		重量 Weight (Kg)
	头部形状 Head Shape	钻头头部直径 Diameter of button face (mm)				齿型 Button Type (选配件 Optional)	边齿 Gauge Buttons	
	平面 Flat Face	65	105	4	2	球齿 Spherical	4XØ12 2XØ12	1.5
	平面 Flat Face	68	105	4	2	球齿 Spherical	4XØ12 2XØ12	1.6
	平面 Flat Face	76	111	4	2	球齿 Spherical	6XØ12 4XØ11	2
	凸面 convex face	85	111	4	2	球齿 Spherical	6XØ13 2XØ12+2XØ11	2.3
	凸面 convex face	90	130	6	2	球齿 Spherical	6XØ14 2XØ13+2XØ12	3.75
	凹面 concave face	110	130	6	2	弹头齿 Ballistic	6XØ14 6XØ13	4.8
	凹面 concave face	110	140	6	2	弹头齿 Ballistic	6XØ14 6XØ13	6.2
	凹面 concave face	130	140	6	2	弹头齿 Ballistic	8XØ14 4XØ14+3XØ13	8.05
	平面 Flat Face	140	140	6	2	弹头齿 Ballistic	8XØ14 8XØ14	9
	凸面 convex face	155	170	6	3	弹头齿 Ballistic	9XØ16 10XØ14	16.7
	凸面 convex face	165	170	6	3	弹头齿 Ballistic	9XØ16 10XØ14	17.55
	凸面 convex face	178	170	6	3	弹头齿 Ballistic	9XØ16 6XØ16+6XØ14	18.85
	凸面 convex face	195	170	6	3	弹头齿 Ballistic	9XØ16 6XØ16+8XØ14	24.2
	凸面 convex face	203	170	6	3	弹头齿 Ballistic	9XØ16 6XØ16+10XØ14	26.35
	凸面 convex face	90	130	6	2	弹头齿 Ballistic	6XØ14 2XØ13+2XØ12	3.55
	凹面 concave face	110	130	6	2	弹头齿 Ballistic	6XØ14 6XØ13	4.6
	凹面 concave face	110	140	6	2	弹头齿 Ballistic	6XØ14 6XØ13	6
	凹面 concave face	130	140	6	2	弹头齿 Ballistic	8XØ14 4XØ14+3XØ13	7.85
	平面 Flat Face	140	140	6	2	弹头齿 Ballistic	8XØ14 8XØ14	8.8

BR系列钻头 / BR series drill bits

钻头规格 Face shape	头部规格 Button bits face		尾柄长度 Shank Length	花键数 Spline	排气孔数量 PORT Holes	合金数量X直径 Button qty.pcs X dia.mm		重量 Weight (Kg)
	头部形状 Head Shape	钻头头部直径 Diameter of button face (mm)				齿型 Button Type (选配件 Optional)	边齿 Gauge Buttons	
	平面 Flat Face	64	163	6	2	弹头齿 Ballistic	6XØ10 4XØ9	1.8
	凸面 convex face	70	163	6	2	弹头齿 Ballistic	6XØ11 4XØ10	2
	平面 Flat Face	76	165	6	2	弹头齿 Ballistic	6XØ14 4XØ11	2.7
	平面 Flat Face	80	165	6	2	弹头齿 Ballistic	6XØ14 4XØ11	2.8
	平面 Flat Face	85	165	6	2	弹头齿 Ballistic	6XØ14 4XØ12	3
	平面 Flat Face	90	165	6	2	弹头齿 Ballistic	6XØ14 4XØ12	3.1
	平面 Flat Face	90	165	6	2	球齿+弹头齿 Spherical+Ballistic	6XØ14 5XØ12	4.1
	平面 Flat Face	95	165	6	2	球齿+弹头齿 Spherical+Ballistic	6XØ14 5XØ12	4.3
	平面 Flat Face	100	165	6	2	球齿+弹头齿 Spherical+Ballistic	6XØ14 6XØ12	4.5
	平面 Flat Face	108	165	6	2	球齿+弹头齿 Spherical+Ballistic	8XØ13 6XØ12	4.8

Hole Opener Bit Design

潜孔扩孔钻头

扩孔钻头示意图
3D-effect drawing of hole opener bit



扩孔钻头规格/Reaming Bit's

头部规格 Specification 钻头规格 Specifications	具体尺寸 Specific Detailed Size											
D(mm)	165	178	190	216	254	305	305	381	381	445	482	600
D1(mm)	82	99	115	138	159	208	208	296	296	305	311	445
边齿	16	16	18	18	18	18	20	20	20	20	22	22
中齿	14	14	15	15	16	16	18	18	18	18	19	19
可配尾柄	ND45A SP480 Mission40	ND55A SP580 Mission50	ND65A SP680 Mission60	SP880A SP882/SP883 Mission80	SP1080/SP1081 SD10	SP1280/SD12/ QL120						

备注:扩孔钻头的导向尺寸与扩孔尺寸, 合金大小, 可根据客户要求设计。

3-Wings DTH Bit

潜孔三翼钻头

三翼钻头规格/3-Wings DTH Bit's

头部规格 Specification 钻头规格 Specifications	钻头头部直径 Head Diameter (mm)	排气孔数量 Port Holes	合金数量X直径 Button qty.pcs X dia.mm		
			齿型 Button Type (选配件 Optional)	边齿 Gauge Buttons	芯齿 Front Buttons
	130	3	弹头齿 Ballistic	9×Ø14	3×Ø13
	140	3	弹头齿 Ballistic	9×Ø14	3×Ø14
	150	3	弹头齿 Ballistic	9×Ø14	3×Ø14
	152	3	弹头齿 Ballistic	9×Ø15	3×Ø15
	165	3	弹头齿 Ballistic	9×Ø15	3×Ø15
	180	3	弹头齿 Ballistic	9×Ø15	3×Ø15
	180	3	弹头齿 Ballistic	9×Ø16	3×Ø15
	190	3	弹头齿 Ballistic	9×Ø16	4×Ø15
	203	3	弹头齿 Ballistic	9×Ø16	4×Ø15
	219	3	弹头齿 Ballistic	12×Ø16	4×Ø15
	254	3	弹头齿 Ballistic	15×Ø16	4×Ø15

备注:三翼钻头同规格的头部布齿一样, 只是钻头尾柄不一样。





03

CASING SYSTEM

跟管钻具

跟管钻具的应用

The Application Of Casing System

适用于建筑、堤坝、港口工程的水井、地热井、短孔、中、小型灌浆孔的钻进。
It is suitable for drilling water wells , geothermal wells , short micropiles ,medium mini-type grouting hole of building .



Eccentric casing system

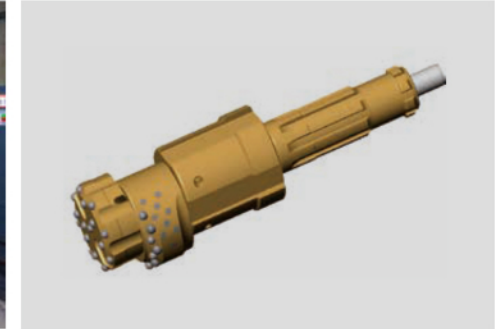
偏心扩孔钻具

零件表面的硬化处理
Hardening treatment of the part's surface

具有较长的使用寿命和优异的抗磨性能。
with longer operating life and excellent anti-wear properties.

优越性能
Superior performance

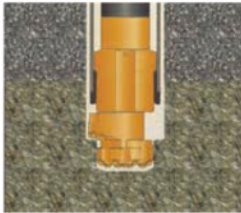
性能稳定可靠，钻进速度快。
Stable and reliable performance, high drilling speed



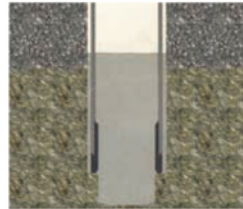
Working principle of Drill

钻具工作原理

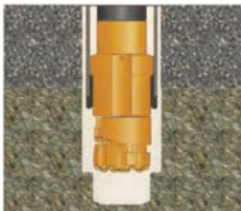
01 凿岩工作开始时，偏心扩孔套沿偏心导向钻头旋出，同时开始扩孔以保证套管和钻进系统同时前进。
When starting drilling, the reamer swings out and reams the pilot-hole wide enough for the casing tube to slide down behind the drill bit assembly.



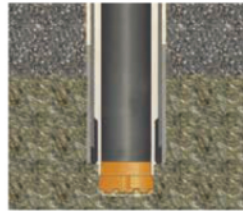
02 套管向上拔，同时在孔底喷灌泥浆或其它填充物。
Casing tubes that are to be left in the drill hole should be sealed at the bottom of the hole by means of cement grout or some other sealing agent.



03 跟管钻进到位后，小心地反转，偏心扩孔套旋回，并将偏心钻具系统从套管中拔出。
When the required depth is reached, rotation is reversed carefully, whereupon the reamer swings in. Allowing the drill bit assembly to be pulled up through the casing



04 在基岩中采用常规钻具钻进以达到所需深度。
Drilling continues to the desired depth in the bedrock using a conventional drill string.



偏心扩孔钻具规格/ODEX Casing System/Eccentric Overburden Casing System

规格型号 Model	套管外径(mm) Casing Tube O.D.	稳杆器最大外径 (mm) Maximum O.D. of Guide Device	钻头直径D1(mm) Bit Diameter (bit not included)	套管内径(mm) Casing Shoe I.D.	扩孔最大直径D2 (mm) Maximum Reaming O.D.	所配冲击器规格 Hammer Style
108偏心钻具	φ 108	φ 92	φ 84	φ 86	φ 118	3寸
114偏心钻具	φ 114	φ 100	φ 92	φ 94	φ 124	3寸
127偏心钻具	φ 127	φ 110	φ 100	φ 102	φ 136	3~4寸
146偏心钻具	φ 146	φ 124	φ 115	φ 117	φ 156	4寸
168偏心钻具	φ 168	φ 146	φ 134	φ 138	φ 178	5寸
178偏心钻具	φ 178	φ 156	φ 144	φ 148	φ 193	5寸
183偏心钻具	φ 183	φ 160	φ 144	φ 152	φ 193	5寸
194偏心钻具	φ 194	φ 178	φ 165	φ 167	φ 208	6寸
219偏心钻具	φ 219	φ 203	φ 189	φ 193	φ 237	6~7寸
245偏心钻具	φ 245	φ 220	φ 206	φ 210	φ 260	6~8寸
273偏心钻具	φ 273	φ 256	φ 238	φ 242	φ 308	8寸
325偏心钻具	φ 325	φ 297	φ 280	φ 285	φ 355	8~10寸
377偏心钻具	φ 377	φ 351	φ 328	φ 333	φ 420	10~12寸

备注:以上尺寸为厂标设计尺寸,客户套管壁厚如有不同需特殊设计.

Concentric Casing System

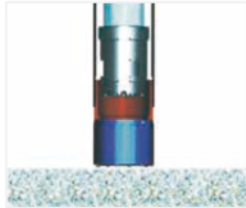
同心跟管钻具



Working principle of Drill 钻具工作原理

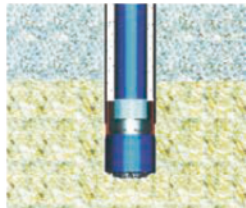
① 钻孔之前，将环形钻头和套管组件与套管焊好，然后将导向钻头与环形钻头套管组件锁好，导向钻头肩部与套管啮合。

Ring bit and casing shoe assembly is welded to casing prior to drilling. Lock the assembly into pilot bit with hammer. The pilot bit's shoulder engages the shoulder of the casing shoe.



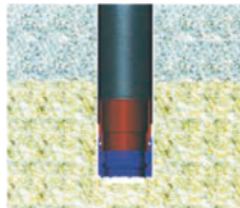
② 冲击器的冲击能传至导向钻头和环形钻头开始破岩，部分能量带动套管向前。

Hammer's percussive energy is transferred through the pilot and ring bit, crushing rock. Part of impact energy advances casing.



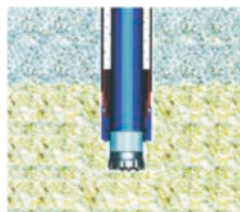
③ 在钻进结束之后，通过轻轻反转让卡口连接解锁而取回钻具。环形钻头留在孔内，当孔进行注浆完毕，套管拔出时，环形钻头一起取出。

On completion of drilling and casing, the drill string with pilot bit is retrieved by a slight reverse rotation to unlock the bayonet coupling. The ring bit stays in the hole, and can be recovered only if the casing is retrieved.



④ 在基岩中，如果需要进一步钻进，将导向钻头换成尺寸合适的标准DTH钻头。

If further drilling is required on the bedrock, the pilot bit is simply replaced by an appropriate size of standard DTH bit.



Advantages of Concentric Drilling 同心跟管钻具优势

- **成孔直线度好，钻进速度快。**
对心钻进的工作原理能保证在砾石层、砂层和卵石层等所有地层中钻出较直的孔，并且钻进速度快。
- **钻进中扭矩较小。**
对心钻进比偏心钻进需要的扭矩小得多。环形钻头保证在所有条件下顺利稳定地钻进，即使用小钻机也能钻较大的孔。
- **解锁-重新锁定比较容易。**
钻孔过程中有时需要将系统解锁，对心钻进容易重新锁定，因为该系统中没有必须在孔内打开和关闭的偏心构件。
- **可以进行任何角度的钻孔。**
对心钻具能钻任何角度的孔。
- **排渣效果好。**
对心钻进中用于排渣的气流从导向钻头喷出后立即沿套管上升，因此，对孔壁损害较小，排渣效果好。
- **操作容易，系统安全。**
由于对心钻进工作较顺利，钻孔工人不需要持续关注钻进工作。
- **经济，成本低。**
对心钻进系统的结构和工作原理能保证显著减少停机时间，消耗品少，运转成本低。

- **Drilling Straight and fast**
Theoretically, Concentric drilling makes sure the hole in all formations such as gravel bed, sand bed and pebble bed etc. is considerably straight, the drilling speed fast and the drilling torque relatively small.
- **The torque for Concentric drilling is much less than for eccentric drilling.**
A smooth and steady drilling may be achieved using ring bit on all conditions and create big hole even if a small drilling rig is used.
- **Easily Unlocking-relocking**
Unlocking the system is sometimes required during process. Relocking is easy since there are no eccentric components that must be opened or closed inside the hole.
- **Drilling in any angle.**
Concentric drilling system can drill the hole at any angle.
- **Effective cuttings discharge.**
The airflow for cutting discharge purpose during the Concentric drilling will instantly ascend along the casing pipe after spurring out from the pilot bit. Hence, the negligible damage on the wall of hole can guarantee effective cutting discharge.
- **Easy-to-operate and system security**
Drilling workers are relieved of the need to maintain their continuous and constant attention on drilling process since Concentric drilling can carry on smoothly.
- **Economical and cost-effective.**
The structure and principle of operation of Concentric drilling system can guarantee considerable reduction in downtime, fewer consumable and lower operation costs.

同心跟管钻具规格/Concentric Casing System

规格型号 Model	套管外径(mm) Casing Tube O.D	中心钻头最大外径(mm) Bit Diameter (Bit not included)	管靴内径(mm) Casing Shoe I.D.	扩孔最大尺寸(mm) Maximum Reaming O.D.	所配冲击器规格 Hammer Style
146同心钻具 Concentric Casing	φ 146	φ 123.5	φ 116	φ 156	4寸
168同心钻具 Concentric Casing	φ 168	φ 146	φ 140	φ 184	5寸
178同心钻具 Concentric Casing	φ 178	φ 157	φ 150	φ 194	5寸
183同心钻具 Concentric Casing	φ 183	φ 160	φ 152	φ 198	5寸
194同心钻具 Concentric Casing	φ 194	φ 178	φ 164	φ 208	6寸
219同心钻具 Concentric Casing	φ 219	φ 203	φ 192	φ 234	6~7寸
245同心钻具 Concentric Casing	φ 245	φ 217	φ 205	φ 260	6~8寸
273同心钻具 Concentric Casing	φ 273	φ 246	φ 233	φ 291	8寸
325同心钻具 Concentric Casing	φ 325	φ 297	φ 282	φ 340	8~10寸
377同心钻具 Concentric Casing	φ 377	φ 351	φ 332	φ 405	10~12寸

备注:以上尺寸为厂标设计尺寸,客户套管壁厚如有不同需特殊设计。

Slide Block Casing System

滑块式跟管钻具



滑块式跟管钻具规格/Slide Block Casing System

	规格型号 Model	套管外径(mm) Casing OD	中心钻头 最大外径D(mm) Maximum OD of Center Bit	套管内径(mm) Casing Shoe ID	扩孔最大尺寸(mm) Maximum OD of Reaming	所配冲击器规格 Hammer Type
	146滑块钻具 Slide Block Casing	φ 146	φ 123	φ 115	φ 156	4寸
	168滑块钻具 Slide Block Casing	φ 168	φ 146	φ 140	φ 185	5寸
	178滑块钻具 Slide Block Casing	φ 178	φ 156	φ 150	φ 193	5寸
	183滑块钻具 Slide Block Casing	φ 183	φ 160	φ 154	φ 193	5寸
	194滑块钻具 Slide Block Casing	φ 194	φ 178	φ 166	φ 211	6寸
	219滑块钻具 Slide Block Casing	φ 219	φ 203	φ 193	φ 237	6~7寸
	245滑块钻具 Slide Block Casing	φ 245	φ 220	φ 210	φ 260	6~8寸
	273滑块钻具 Slide Block Casing	φ 273	φ 251	φ 241	φ 308	8寸
	325滑块钻具 Slide Block Casing	φ 325	φ 298	φ 281	φ 378	8~10寸
	377滑块钻具 Slide Block Casing	φ 377	φ 350	φ 335	φ 430	10~12寸
	406滑块钻具 Slide Block Casing	φ 406	φ 380	φ 363	φ 426	12寸
560滑块钻具 Slide Block Casing	φ 560	φ 530	φ 511	φ 590	18寸	
610滑块钻具 Slide Block Casing	φ 610	φ 582	φ 556	φ 640	18寸	

备注:以上尺寸为厂标设计尺寸,客户套管壁厚如有不同需特殊设计.

Overburden Wing Bit

旋翼式跟管钻具



旋翼式跟管钻具规格/Overburden Wing Bit

	规格型号 Model	套管外径(mm) Casing OD	中心钻头 最大外径D(mm) Maximum OD of Center Bit	套管内径(mm) Casing Shoe ID	扩孔最大尺寸(mm) Maximum OD of Reaming	所配冲击器规格 Hammer Type
	146旋翼钻具 Overburden Wing Bit	φ 146	φ 123	φ 115	φ 156	4寸
	168旋翼钻具 Overburden Wing Bit	φ 168	φ 146	φ 136	φ 184	5寸
	178旋翼钻具 Overburden Wing Bit	φ 178	φ 156	φ 142	φ 193	5寸
	183旋翼钻具 Overburden Wing Bit	φ 183	φ 160	φ 146	φ 198	5寸
	194旋翼钻具 Overburden Wing Bit	φ 194	φ 178	φ 162	φ 208	6寸
	219旋翼钻具 Overburden Wing Bit	φ 219	φ 203	φ 180	φ 234	6~7寸
	245旋翼钻具 Overburden Wing Bit	φ 245	φ 220	φ 202	φ 260	6~8寸
	273旋翼钻具 Overburden Wing Bit	φ 273	φ 251	φ 237	φ 300	8寸
	325旋翼钻具 Overburden Wing Bit	φ 325	φ 298	φ 280	φ 355	8~10寸
	377旋翼钻具 Overburden Wing Bit	φ 377	φ 350	φ 330	φ 407	10~12寸

备注:以上尺寸为厂标设计尺寸,客户套管壁厚如有不同需特殊设计.

Drilling Equipment

管靴与跟管产品



焊接管靴示意图
Weldable Casing Shoe / Weldable Crown



螺纹管靴示意图
Threaded Casing Shoe / Threaded Crown



跟管示意图
Casing Tube



04

TOP HAMMER DRILL BIT

顶锤钻头

我公司顶锤产品主要用于地质勘探、煤矿、水利水电、公路、铁路、桥梁、建设施工等。








Our company top hammer drill bit is mainly used in geological exploration, coal mine, water conservancy and hydropower, highway, railway, bridge, construction and construction, etc.




Top Hammer Drill Bit

顶锤钻头









导向系列钻头/Retrac Button Bit

头部规格 Specification 钻头规格 Specifications	头部形状 Head Shape	钻头头部直径 Head Diameter (mm)	钎头长度 (不含合金) Length (without Button)	水孔数量 Holes		合金数量X直径 Button qty pcs X dia.mm			重量 Weight (Kg)
				面水孔 Port Holes	边水孔 Side Holes	齿型 Button Type (可选 Optional)	边齿 Gauge Buttons	芯齿 Front buttons	
R32									
	平面 Flat Face	51	130	3	/	球齿+球齿 Domed+Domed	6- ϕ 10	3- ϕ 9	1.25
	平面 Flat Face	57	130	3	/	弹头齿 Ballistic	6- ϕ 10	3- ϕ 9	1.65
R38									
	平面 Flat Face	64	140	3	/	球齿+弹头齿 Domed+Ballistic	6X ϕ 11	3- ϕ 9	2.05
	中心下陷 Center Drop Face	76	160	4	/	球齿+球齿 Domed+Domed	8- ϕ 11	5- ϕ 11	3.65
	中心下陷 Center Drop Face	89	170	4	/	球齿+球齿 Domed+Domed	8- ϕ 12	4- ϕ 12+2- ϕ 10	5.3
T38									
	中心下陷 Center Drop Face	64	160	2	/	球齿+球齿 Domed+Domed	8- ϕ 9	5- ϕ 9	2.45
	平面 Flat Face	70	160	3	/	球齿+球齿 Domed+Domed	6- ϕ 11	4- ϕ 9	2.85
	中心下陷 Center Drop Face	76	160	4	/	球齿+球齿 Domed+Domed	8- ϕ 11	5- ϕ 11	3.7
	中心下陷 Center Drop Face	89	170	4	/	抛物线+抛物线 Parabola+Parabola	8- ϕ 12	4- ϕ 12+2- ϕ 10	5.3
T45									
	中心下陷 Center Drop Face	72	160	4	/	球齿+球齿 Domed+Domed	8- ϕ 11	5- ϕ 10	3.15
	中心下陷 Center Drop Face	76	160	4	/	球齿+球齿 Domed+Domed	8- ϕ 12	4- ϕ 11+1- ϕ 10	3.55
	中心下陷 Center Drop Face	89	170	4	/	弹头齿+弹头齿 Ballistic+Ballistic	8- ϕ 12	4- ϕ 12+2- ϕ 10	5
	中心下陷 Center Drop Face	102	180	4	/	球齿+球齿 Domed+Domed	8- ϕ 13	6- ϕ 12	7.3
T51									
	中心下陷 Center Drop Face	89	170	4	/	弹头齿+弹头齿 Ballistic+Ballistic	8- ϕ 12	4- ϕ 12+2- ϕ 11	5
	中心下陷 Center Drop Face	102	180	4	/	弹头齿+弹头齿 Ballistic+Ballistic	8- ϕ 13	4- ϕ 13+2- ϕ 12	7.12
	平面 Flat Face	115	185	2	2	球齿+球齿 Domed+Domed	8- ϕ 14	6- ϕ 13	10.1
	中心下陷 Center Drop Face	127	185	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+3- ϕ 13	12.4
ST58									
	平面 Flat Face	102	180	3	/	抛物线+抛物线 Parabola+Parabola	9- ϕ 13	6- ϕ 12	6.5
	平面 Flat Face	115	185	2	2	球齿+球齿 Domed+Domed	8- ϕ 14	6- ϕ 13	9.5
	中心下陷 Center Drop Face	127	185	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+3- ϕ 13	11.7
GT60山特维克款									
	平面三角形 Flat Triangle Face	102	212	3	/	球齿+球齿 Domed+Domed	9- ϕ 13	9- ϕ 11	10
	平面三角形 Flat Triangle Face	115	212	3	/	球齿+球齿 Domed+Domed	9- ϕ 14	10- ϕ 12	8
	平面三角形 Flat Triangle Face	127	212	3	/	球齿+球齿 Domed+Domed	9- ϕ 16	10- ϕ 14	13.9
	平面三角形 Flat Triangle Face	140	225	3	/	球齿+球齿 Domed+Domed	9- ϕ 16	10- ϕ 14	17.4

导向系列钻头/Retrac Button Bit

头部规格 Specification 钻头规格 Specifications	头部形状 Head Shape	钻头头部直径 Head Diameter (mm)	钎头长度 (不含合金) Length (without Button)	水孔数量 Holes		合金数量X直径 Button qty pcs X dia.mm			重量 Weight (Kg)
				面水孔 Port Holes	边水孔 Side Holes	齿型 Button Type (可选 Optional)	边齿 Gauge Buttons	芯齿 Front buttons	
EL60款									
	中心下陷 Center Drop Face	102	200	3	/	球齿+球齿 Domed+Domed	9- ϕ 14	7- ϕ 13	6.5
	中心下陷 Center Drop Face	115	200	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+2- ϕ 13	9
	中心下陷 Center Drop Face	127	205	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+3- ϕ 13	12
ST68									
	中心下陷 Center Drop Face	102	185	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 13+2- ϕ 12	6.1
	中心下陷 Center Drop Face	115	185	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+2- ϕ 13	8.4
	中心下陷 Center Drop Face	127	190	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+3- ϕ 13	11.4
	中心下陷 Center Drop Face	140	190	4	/	球齿+球齿 Domed+Domed	8- ϕ 16	4- ϕ 14+3- ϕ 13	14.3
T45 山特维克款									
	梅花槽 Triangle Face	89	170	4	/	球齿+球齿 Domed+Domed	8- ϕ 13	5- ϕ 13	5
	平面三角形 Flat Triangle Face	102	175	3	/	球齿+球齿 Domed+Domed	9- ϕ 13	9- ϕ 11	7.25
	平面三角形 Flat Triangle Face	115	175	3	/	球齿+球齿 Domed+Domed	9- ϕ 14	10- ϕ 12	9.5
T51 山特维克款									
	平面三角形 Flat Triangle Face	102	185	3	/	球齿+球齿 Domed+Domed	9- ϕ 13	9- ϕ 11	7.5
	平面三角形 Flat Triangle Face	115	185	3	/	球齿+球齿 Domed+Domed	9- ϕ 14	10- ϕ 12	10
	平面三角形 Flat Triangle Face	127	185	3	/	球齿+球齿 Domed+Domed	9- ϕ 14	10- ϕ 13	12.8

| 螺纹系列钻头/Normal Button Bit

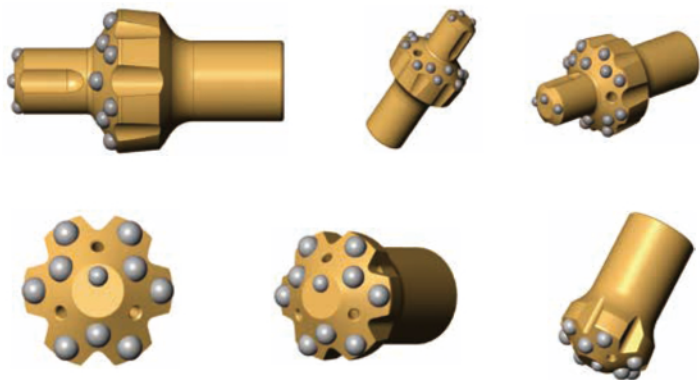
钻头规格 Specifications	头部规格 Specification		水孔数量 Holes		合金数量X直径 Button qty pcs X dia.mm			重量 Weight (kg)	
	头部形状 Head Shape	钻头头部直径 Head Diameter (mm)	钻头长度 (不含合金) Length (without Button)	面水孔 Port Holes	边水孔 Side Holes	可选 Button Type (可选 Optional)	边齿 Gauge Buttons		芯齿 Front buttons
	平面 Flat Face	38	105	1	2	弹头齿 Ballistic	5- ϕ 8	2- ϕ 8	0.5
	平面 Flat Face	45	110	3	2	弹头齿 Ballistic	6- ϕ 9	3- ϕ 8	0.65
	平面 Flat Face	45	113	3	2	弹头齿 Ballistic	6- ϕ 9	3- ϕ 8	0.75
	平面 Flat Face	64	130	2	/	球齿 Domed	6- ϕ 10	4- ϕ 9	2.1
	凸面 Convex face	76	130	2	/	球齿 Domed	6- ϕ 12	2- ϕ 12+2- ϕ 10	2.7
	中心下陷 Center Drop Face	64	130	3	/	球齿+弹头齿 Domed+Ballistic	6X ϕ 11	3- ϕ 9	1.85
	中心下陷 Center Drop Face	76	130	2	2	球齿+球齿 Domed+Domed	8- ϕ 12	4- ϕ 12	2.45
	中心下陷 Center Drop Face	89	130	2	2	球齿+球齿 Domed+Domed	8- ϕ 12	6- ϕ 12	3.5
	中心下陷 Center Drop Face	64	130	2	/	球齿+球齿 Domed+Domed	8- ϕ 9	5- ϕ 9	1.85
	平面 Flat Face	70	130	3	2	球齿+球齿 Domed+Domed	6- ϕ 12	4- ϕ 10	2.05
	中心下陷 Center Drop Face	76	130	4	/	球齿+球齿 Domed+Domed	8- ϕ 11	5- ϕ 10	2.55
	中心下陷 Center Drop Face	89	130	4	/	抛物线+抛物线 Parabolic+Parabolic	8- ϕ 12	4- ϕ 12+2- ϕ 10	3.55
	中心下陷 Center Drop Face	72	140	4	/	球齿+球齿 Domed+Domed	8- ϕ 11	5- ϕ 10	2.25
	中心下陷 Center Drop Face	76	140	4	/	球齿+球齿 Domed+Domed	8- ϕ 11	4- ϕ 11+1- ϕ 10	2.9
	中心下陷 Center Drop Face	89	145	4	/	弹头齿+弹头齿 Ballistic+Ballistic	8- ϕ 12	4- ϕ 12+2- ϕ 10	3.8
	中心下陷 Center Drop Face	102	150	4	/	球齿+球齿 Domed+Domed	8- ϕ 13	6- ϕ 12	4.8
	中心下陷 Center Drop Face	89	155	4	/	弹头齿+弹头齿 Ballistic+Ballistic	8- ϕ 12	4- ϕ 12+2- ϕ 11	4.15
	中心下陷 Center Drop Face	102	155	4	/	弹头齿+弹头齿 Ballistic+Ballistic	8- ϕ 14	4- ϕ 13+2- ϕ 12	5.8
	平面 Flat Face	115	160	2	2	球齿+球齿 Domed+Domed	8- ϕ 14	6- ϕ 13	6.55
	中心下陷 Center Drop Face	127	165	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+3- ϕ 13	7.7
	中心下陷 Center Drop Face	89	175	4	/	弹头齿+弹头齿 Ballistic+Ballistic	8- ϕ 12	4- ϕ 12+2- ϕ 11	4.4
	平面 Flat Face	102	180	3	/	抛物线+抛物线 Parabolic+Parabolic	9- ϕ 13	6- ϕ 12	5.8
	平面 Flat Face	115	185	2	2	球齿+球齿 Domed+Domed	8- ϕ 14	6- ϕ 13	7.7
	中心下陷 Center Drop Face	127	185	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+3- ϕ 13	8.9
	平面三角形 Flat Triangle Face	102	220	3	/	球齿+球齿 Domed+Domed	9- ϕ 13	9- ϕ 11	8.1
	平面三角形 Flat Triangle Face	115	220	3	/	球齿+球齿 Domed+Domed	9- ϕ 14	10- ϕ 12	8.8
	平面三角形 Flat Triangle Face	127	225	3	/	球齿+球齿 Domed+Domed	9- ϕ 16	10- ϕ 14	10.6
	平面三角形 Flat Triangle Face	140	230	3	/	球齿+球齿 Domed+Domed	9- ϕ 16	10- ϕ 14	11.7

| 螺纹系列钻头/Normal Button Bit

钻头规格 Specifications	头部规格 Specification		水孔数量 Holes		合金数量X直径 Button qty pcs X dia.mm			重量 Weight (kg)	
	头部形状 Head Shape	钻头头部直径 Head Diameter (mm)	钻头长度 (不含合金) Length (without Button)	面水孔 Port Holes	边水孔 Side Holes	可选 Button Type (可选 Optional)	边齿 Gauge Buttons		芯齿 Front buttons
	平面 Flat Face	102	180	2	2	球齿+球齿 Domed+Domed	8- ϕ 14	6- ϕ 13	5.4
	中心下陷 Center Drop Face	115	180	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+2- ϕ 13	6.65
	中心下陷 Center Drop Face	127	190	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+3- ϕ 13	8.9
	中心下陷 Center Drop Face	140	190	4	/	球齿+球齿 Domed+Domed	8- ϕ 16	4- ϕ 14+3- ϕ 13	10.8
	梅花槽 Triangle Face	89	145	4	/	球齿+球齿 Domed+Domed	8- ϕ 13	5- ϕ 13	3.5
	平面三角形 Flat Triangle Face	102	150	3	/	球齿+球齿 Domed+Domed	9- ϕ 13	9- ϕ 11	4.5
	平面三角形 Flat Triangle Face	115	160	3	/	球齿+球齿 Domed+Domed	9- ϕ 14	10- ϕ 12	5
	平面三角形 Flat Triangle Face	102	155	3	/	球齿+球齿 Domed+Domed	9- ϕ 13	9- ϕ 11	5.5
	平面三角形 Flat Triangle Face	115	165	3	/	球齿+球齿 Domed+Domed	9- ϕ 14	10- ϕ 12	6.5
	平面三角形 Flat Triangle Face	127	165	3	/	球齿+球齿 Domed+Domed	9- ϕ 14	10- ϕ 13	7.5
	平面 Flat Face	102	210	2	2	球齿+球齿 Domed+Domed	8- ϕ 14	6- ϕ 13	7.5
	中心下陷 Center Drop Face	115	210	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+2- ϕ 13	8.2
	中心下陷 Center Drop Face	127	220	4	/	球齿+球齿 Domed+Domed	8- ϕ 14	4- ϕ 14+3- ϕ 13	10

Top Hammer Opener Bit

顶锤扩孔钻头



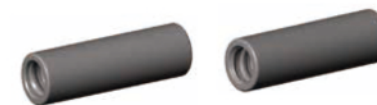
螺纹扩孔钻头规格 / Thread Opener Bits

头部规格 Specification	具体尺寸 Specific Detailed Size									
钻头规格 Specifications	具体尺寸 Specific Detailed Size									
D(mm)	76	89	102	115	102	115	127	140	165	
D1(mm)	26	43	43	76	43	76	76	89	102	
螺纹规格	R32	R32	R38	R38	T38	T38	T45	T45	T51	

备注:扩孔钻头的导向尺寸与扩孔尺寸,合金大小,可根据客户要求设计。

Coupling Sleeves

钎杆连接套



产品材质: 主体采用优质合金钢为原料

工艺: 采用先进的高压锻制生产工艺, 真空整体调质热处理。应用数控自动化设备加工成型, 保证了稳定可靠的产品质量

用途: 连接钻杆和钻机; 连接钻杆与钻杆; 连接钻杆与钻头。

Product Material: Alloy Steel

Process: use the most advanced forging process and heat treatment technology with the latest automated equipment to ensure quality control.

Use: connecting drill rod and drilling rig; connecting drill rod and drill rod; connecting drill rod and drill bit.

连接套常用规格

	具体尺寸 Specific Detailed Size					
连接套螺纹型号	T38-R32	T38-T38	T38-T45	T38-T51	T45-T45	T51-T51
外径(D) mm	56	56	68	74	68	77
长度(L) mm	170	190	200	210	210	230

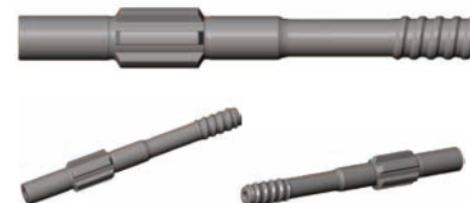
备注:连接套的长度/外径尺寸, 可根据客户需求定制

Shank Adapters

钎尾

凿岩机具的钎子承受凿岩冲击和施加扭矩的部分。它应具有韧性大和不产生塑性变形的性能。钎尾可以是钎子的一部分,也可制成独立的尾杆。

Shank adapter is the part that bears the impact and torque of a rock drill. high toughness and resilient function is needed for it. The shank adapter could be used as part, also manufactured into independent tool.



05

REVERSE CIRCULATION PRODUCT

反循环产品

反循环冲击器优势

- 根据以往普通冲击器的经验，结合反循环冲击器的使用特点，优化内部结构，使能量传递理想，从而保证该系列冲击器钻速快，能平稳连续取样。
- 内部结构非常简单，部件刚性好，从而保证冲击器寿命长，维护简单方便。
- 采集管用一体式，无需拆卸冲击器即可更换。采集管经过渗碳处理，因此耐磨性好。
- 配用钻头采用专利设计，只需要更换钻头，同一冲击器即可钻不同尺寸的孔，并且能保证样本不受污染。
- 在松散土质、硬岩和有大量水等各种困难的条件下，都能很好的完成取样工作。

Advantages of reverse circulation Hammer

- Based on previous experience of conventional hammer,combined with feature of reverse circulation hammer,optimized internal structure and ideal energy transfer, to ensure the RC hammers achieves fast drilling rate stable and continuous sampling.
- The internal structure is very simple with components of high rigidity,thus ensured hammer life and convenience of maintenance.
- The sample tube uses an integrative design and can be replaced without disassembling the hammer. With carburizing treatment,it has good abrasive resistance.
- Bits designed with patent. Simply by replacing the drill bit, the hammer can drill holes different from sizes and ensure that the sample is not contaminated.
- In tough conditions such as loose soil,hard rock and plenty of water exist,sampling can be done well.

反循环冲击器的应用

The application of reverse circulation

NRC反循环系列潜孔冲击器是我公司研制的反循环冲击器，主要用于深孔勘探钻进和获取岩心样品。
NRC series reverse circulation hammer is the newest developed product of our company. It is mainly used for deep exploration drilling and core sampling.



RE004

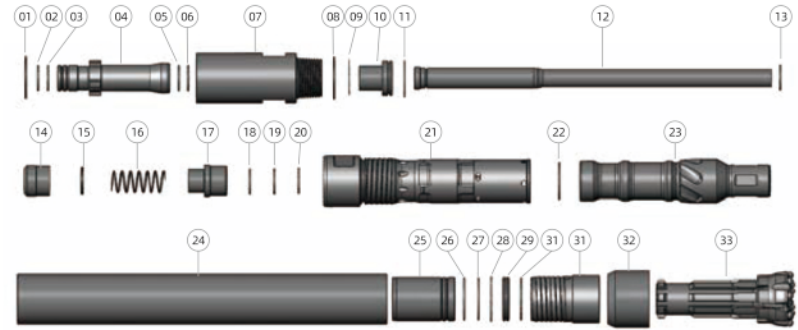


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	卡簧 Jump Ring	0.03 Kg	01-RE004-01	15	内缸 Innre Cylinder	2.5 Kg	08-RE004-15
02	O形圈 O ring	0.02 Kg	01-RE004-02	16	O形圈 O ring	0.02 Kg	08-RE004-16
03	O形圈 O ring	0.02 Kg	01-RE004-03	17	O形圈 O ring	0.02 Kg	08-RE004-17
04	适配管 Adapter	1.0 Kg	01-RE004-04	18	O形圈 O ring	0.02 Kg	08-RE004-18
05	O形圈 O ring	0.02 Kg	01-RE004-05	19	采集管 Collecting Tube	2.6 Kg	08-RE004-19
06	O形圈 O ring	0.02 Kg	01-RE004-06	20	活塞 Piston	10.5 Kg	08-RE004-20
07	接头 Top Sub	7.9 Kg	01-RE004-07	21	外缸 Piston Case	18 Kg	08-RE004-21
08	Y形圈 Y Ring	0.02 Kg	01-RE004-08	22	衬套 Guide Sleeve	1.8 Kg	08-RE004-22
09	逆止阀 Check Valve	0.5 Kg	01-RE004-09	23	卡环 Retainer Ring	0.3 Kg	08-RE004-23
10	弹簧 Spring	0.1 Kg	01-RE004-10	24	O形圈 O ring	0.02 Kg	08-RE004-24
11	联接管 Collecting Pipe	1.1 Kg	01-RE004-11	25	卡钎套 Driver Chuck	3.2 Kg	08-RE004-25
12	碟簧 Disc Sping	0.15 Kg	01-RE004-12	26	耐磨套 Shroud	1.1 Kg	08-RE004-26
13	配气座 Valve Seat	2.0 Kg	01-RE004-13	27	钻头 Drill Bit		08-RE004-27
14	O形圈 O ring	0.02 Kg	01-RE004-14				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1252mm	53 Kg	φ 107mm	4"Remet	RE004	φ 112- φ 127mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.2-2.5	30 ~ 60 r/min	8.5m ³ /min	12m ³ /min		

RE542



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	卡簧 Circlip	0.03	08-RE542-01	17	限位轴套 Sample Tube Retainer	0.88	08-RE542-17
02	O形圈 O ring	0.02	08-RE542-02	18	O形圈 O ring	0.02	08-RE542-18
03	O形圈 O ring	0.02	08-RE542-03	19	O形圈 O ring	0.02	08-RE542-19
04	适配管 Adaptor Tube	2.83	08-RE542-04	20	O形圈 O ring	0.02	08-RE542-20
05	O形圈 O ring	0.02	08-RE542-05	21	内缸 Inner Cylinder	6.6	08-RE542-21
06	O形圈 O ring	0.02	08-RE542-06	22	O形圈 O ring	0.02	08-RE542-22
07	接头 Backhead	9	08-RE542-07	23	活塞 Piston	11.6	08-RE542-23
08	过滤板 Air Screen	0.1	08-RE542-08	24	外缸 Piston Case	13.7	08-RE542-24
09	挡环 Piston Retaining Ring	0.05	08-RE542-09	25	衬套 Guide Sleeve	2.4	08-RE542-25
10	配气座 Air Distributer	0.6	08-RE542-10	26	O形圈 O ring	0.02	08-RE542-26
11	O形圈 O ring	0.02	08-RE542-11	27	O形圈 O ring	0.02	08-RE542-27
12	采集管 Inner Tube	3.1	08-RE542-12	28	挡环 Piston Retaining Ring	0.05	08-RE542-28
13	O形圈 O ring	0.02	08-RE542-13	29	卡环 Retainer Ring	0.29	08-RE542-29
14	逆止阀 Check Valve	0.4	08-RE542-14	30	O形圈 O ring	0.02	08-RE542-30
15	逆止阀橡胶圈 Rubber Ring	0.02	08-RE542-15	31	卡钎套 Chuck Drive	2.85	08-RE542-31
16	逆止阀弹簧 Check Valve Spring	0.1	08-RE542-16	32	耐磨套 Shroud		08-RE542-32

技术参数 / Technical specification

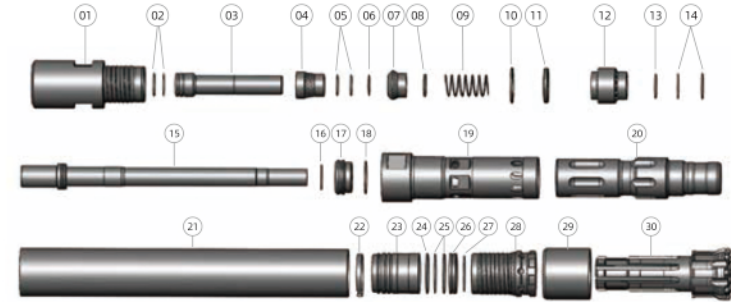
总长 (不含钻头) Length(Less bit)	总重 (不含钻头) Weight(Less bit)	冲击器外径 Outer diameter	接头螺纹 Connection Thread	可配钻头钎柄 Bit Shank	钻孔范围 Hole Range
1192mm	55Kg	φ 110mm	4" Remet螺纹 (可选)	RE542	φ 113- φ 130mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.2-2.5 Mpa	30 ~ 60 r/min	12m ³ /min	18m ³ /min		

PR52



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	卡簧 Jump Ring	0.03 Kg	08-PR52-01	13	内缸 Inre Cylinder	3 Kg	08-PR52-13
02	O形圈 O Ring	0.02 Kg	08-PR52-02	14	活塞 Piston	18 Kg	08-PR52-14
03	O形圈 O Ring	0.02 Kg	08-PR52-03	15	外缸 Piston Case	22.5 Kg	08-PR52-15
04	采集管 Collecting Tube	7.2 Kg	08-PR52-04	16	O形圈 O Ring	0.02 Kg	08-PR52-16
05	过滤器 Filter Screen	0.14 Kg	08-PR52-05	17	O形圈 O Ring	0.02 Kg	08-PR52-17
06	接头 Tup Sub	13.5 Kg	08-PR52-06	18	衬套 Guide Sleeve	1.9 Kg	08-PR52-18
07	逆止阀 Check Valve	0.6 Kg	08-PR52-07	19	卡环 Retainer Ring	0.3 Kg	08-PR52-19
08	弹簧 Spring	0.1 Kg	08-PR52-08	20	O形圈 O Ring	0.02 Kg	08-PR52-20
09	O形圈 O Ring	0.02 Kg	08-PR52-09	21	卡钎套 Driver Chuck	4.1 Kg	08-PR52-21
10	O形圈 O Ring	0.02 Kg	08-PR52-10	22	耐磨套 Shroud	1.6 Kg	08-PR52-22
11	配气座 Valve Seat	1.4 Kg	08-PR52-11	23	钻头 Drill Bit		08-PR52-23
12	O形圈 O Ring	0.02 Kg	08-PR52-12				

PR54R



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Backhead	11.5	08-PR54R-01	16	O形圈 O Ring	0.02	08-PR54R-16
02	O形圈 (O Ring) X2	0.02X2	08-PR54R-02	17	限位销套 Sample Tube Retainer	1	08-PR54R-17
03	联接管 Adaptor Tube	2.27	08-PR54R-03	18	O形圈 O Ring	0.02	08-PR54R-18
04	过滤器 Air Screen	0.39	08-PR54R-04	19	内缸 Inner Cylinder	8.25	08-PR54R-19
05	O形圈 (O Ring) X2	0.02X2	08-PR54R-05	20	活塞 Piston	16.7	08-PR54R-20
06	卡簧 Circlip	0.03	08-PR54R-06	21	外缸 Piston Case	23.5	08-PR54R-21
07	逆止阀 Check Valve	0.4	08-PR54R-07	22	推环 Piston Retaining Ring	0.1	08-PR54R-22
08	逆止阀胶圈 Rubber Spacer	0.1	08-PR54R-08	23	衬套 Guide Sleeve	2.5	08-PR54R-23
09	逆止阀弹簧 Check Valve Spring	0.1	08-PR54R-09	24	O形圈 O Ring	0.02	08-PR54R-24
10	垫圈 Gasket	0.1	08-PR54R-10	25	O形圈 (O Ring) X2	0.02X2	08-PR54R-25
11	橡胶垫圈 Rubber Spacer	0.1	08-PR54R-11	26	卡环 Retainer Ring	0.4	08-PR54R-26
12	配气座 Air Distributer	1.58	08-PR54R-12	27	O形圈 O Ring	0.02	08-PR54R-27
13	O形圈 O Ring	0.02	08-PR54R-13	28	卡钎套 Chuck Drive	4.1	08-PR54R-28
14	O形圈 (O Ring) X2	0.02X2	08-PR54R-14	29	耐磨套 Shroud		08-PR54R-29
15	采集管 Inner Tube	7.43	08-PR54R-15	30	钻头 Drill Bit		08-PR54R-30

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1208mm	75.2Kg	φ 126mm	4 1/2"Remet	PR52	φ 130- φ 146mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.0 Mpa	30 ~ 60 r/min	16m³/min	22m³/min		

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 (不含钻头) Weight(Less bit)	冲击器外径 Outer diameter	接头螺纹 Connection Thread	可配钻头钎柄 Bit Shank	钻孔范围 Hole Range
1294mm	81Kg	φ 130mm	4 1/2 "Remet螺纹 (可选)	PR54R	φ 135- φ 150mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.0 Mpa	30 ~ 60 r/min	16m³/min	22m³/min		

Reverse Circulation Drill Bits

反循环钻头

RE004系列钻头/RE004 Drill Bit

钻头规格 Specifications	头部规格 Specification		钻头头部直径 Head Diameter (mm)	尾柄长度 Shank Length	花键数 Spline	排气孔数量 Port holes	合金数量X直径 Button qty:pcs X dia:mm			重量 Weight (Kg)			
	头部形状 Head Shape	齿型 Button Type (选配件 Optional)					边齿 Gauge Buttons	芯齿 Front buttons					
	RE004												
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ14	4XØ14+4XØ13	11.5	115	271	8	2	球齿 Domed Button	8XØ14	4XØ14+4XØ13	11.5
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ14	4XØ14+4XØ13	12.1	121	271	8	2	球齿 Domed Button	8XØ14	4XØ14+4XØ13	12.1
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	4XØ14+2X14	12.3	124	271	8	2	球齿 Domed Button	8XØ16	4XØ14+2X14	12.3
中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	4XØ14+2X14	12.5	127	271	8	2	球齿 Domed Button	8XØ16	4XØ14+2X14	12.5	

RE542系列钻头/RE542 Drill Bit

钻头规格 Specifications	头部规格 Specification		钻头头部直径 Head Diameter (mm)	尾柄长度 Shank Length	花键数 Spline	排气孔数量 Port holes	合金数量X直径 Button qty:pcs X dia:mm			重量 Weight (Kg)			
	头部形状 Head Shape	齿型 Button Type (选配件 Optional)					边齿 Gauge Buttons	芯齿 Front buttons					
	RE542												
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ14	4XØ14+4XØ13	10.7	121	225	8	2	球齿 Domed Button	8XØ14	4XØ14+4XØ13	10.7
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ14	4XØ14+4XØ13	11	124	225	8	2	球齿 Domed Button	8XØ14	4XØ14+4XØ13	11
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	4XØ14+2X14	11.2	127	225	8	2	球齿 Domed Button	8XØ16	4XØ14+2X14	11.2
中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	4XØ14+2X14	11.4	133	225	8	2	球齿 Domed Button	8XØ16	4XØ14+2X14	11.4	

PR52系列钻头/PR52 Drill Bit

钻头规格 Specifications	头部规格 Specification		钻头头部直径 Head Diameter (mm)	尾柄长度 Shank Length	花键数 Spline	排气孔数量 Port holes	合金数量X直径 Button qty:pcs X dia:mm			重量 Weight (Kg)			
	头部形状 Head Shape	齿型 Button Type (选配件 Optional)					边齿 Gauge Buttons	芯齿 Front buttons					
	PR52												
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	6XØ16+2XØ14	16.5	133	282	8	2	球齿 Domed Button	8XØ16	6XØ16+2XØ14	16.5
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	6XØ16+2XØ14	16.7	136	282	8	2	球齿 Domed Button	8XØ16	6XØ16+2XØ14	16.7
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	6XØ16+3XØ14	16.9	140	282	8	2	球齿 Domed Button	8XØ16	6XØ16+3XØ14	16.9
中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	6XØ16+3XØ14	17.1	143	282	8	2	球齿 Domed Button	8XØ16	6XØ16+3XØ14	17.1	

PR54R系列钻头/PR54R Drill Bit

钻头规格 Specifications	头部规格 Specification		钻头头部直径 Head Diameter (mm)	尾柄长度 Shank Length	花键数 Spline	排气孔数量 Port holes	合金数量X直径 Button qty:pcs X dia:mm			重量 Weight (Kg)			
	头部形状 Head Shape	齿型 Button Type (选配件 Optional)					边齿 Gauge Buttons	芯齿 Front buttons					
	PR54R												
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	6XØ16+2XØ14	18.3	136	261	8	2	球齿 Domed Button	8XØ16	6XØ16+2XØ14	18.3
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	6XØ16+3XØ14	18.5	140	261	8	2	球齿 Domed Button	8XØ16	6XØ16+3XØ14	18.5
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	6XØ16+3XØ14	18.7	143	261	8	2	球齿 Domed Button	8XØ16	6XØ16+3XØ14	18.7
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ16	6XØ16+3XØ14	18.9	146	261	8	2	球齿 Domed Button	8XØ16	6XØ16+3XØ14	18.9
	中心下陷 Drop-Center Face	球齿 Domed Button	8XØ18	6XØ16+4XØ16	21	165	261	8	2	球齿 Domed Button	8XØ18	6XØ16+4XØ16	21
中心下陷 Drop-Center Face	球齿 Domed Button	8XØ18	6XØ16+4XØ16	22.5	178	261	8	2	球齿 Domed Button	8XØ18	6XØ16+4XØ16	22.5	



06

ADAPTER AND DRILL PIPE 过渡接头与钻杆

过渡接头、钻杆

过渡接头是钻杆的组成部分，分公接头和母接头，连接在钻杆管体的两端。

钻杆是尾部带有螺纹的钢管，用于连接钻机地表设备和位于钻井底部钻磨设备或底孔装置。

Drill rod adapter and DTH drill rod

Adapter is the portion of drill pipe, which includes pin adapter and box adapter, connected the two sides of the casing tube.

A drill pipe is a seamless steel pipe with the API thread connection, which is used for connecting the drill rig equipment.



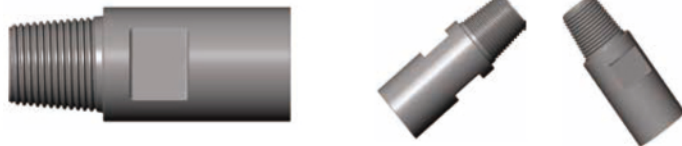
Drill rod adapter

过渡接头

过渡接头可以根据客户要求定制

adapter sub can be manufactured by customer specifications

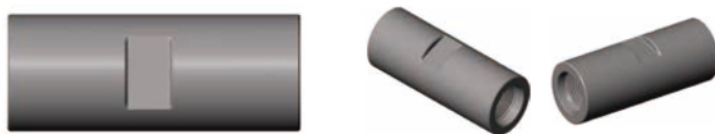
Pin-Box Adapter 公母接头



Pin-Pin Adapter 公公接头



Box-Box Adapter 母母接头



公母接头规格/Pin-Box Adapters

编号 number	接头型号	尺寸A (mm) Size A	尺寸B (mm) Size A	尺寸C (mm) Size A	铣方尺寸D (mm) Wrench Flat
1	2-3/8公-2-3/8母过渡接头	25	45	ø78	57
2	2-3/8IF公-2-3/8母过渡接头	25	45	ø89	70
3	2-3/8IF公-2-3/8IF母过渡接头	25	45	ø89	70
4	2-3/8公-2-7/8母过渡接头	25	45	ø102	70
5	2-7/8IF公-2-7/8IF母过渡接头	25	45	ø108	85
6	3-1/2公-3-1/2母过渡接头	25	50	ø114	95



公公接头规格/Pin-Pin Adapters

编号 number	接头型号	尺寸A (mm) Size A	尺寸B (mm) Size A	尺寸C (mm) Size A	铣方尺寸D (mm) Wrench Flat
1	2-3/8公-2-3/8公过渡接头	21	45	ø89	70
2	3-1/2公-3-1/2公过渡接头	23	50	ø114	95
3	3-1/2公-4-1/2公过渡接头	30	50	ø140	102
4	4-1/2公-4-1/2公过渡接头	30	50	ø140	102



母母接头规格/Box-Box Adapters

编号 number	接头型号	尺寸A (mm) Size A	尺寸B (mm) Size A	尺寸C (mm) Size A	铣方尺寸D (mm) Wrench Flat
1	2-3/8母-2-3/8母过渡接头	97	45	ø89	70
2	2-3/8母-2-7/8母过渡接头	115	50	ø102	85
3	2-3/8IF母-3-1/2母过渡接头	102	50	ø114	95
4	2-7/8母-3-1/2母过渡接头	122	50	ø114	95



07

CONSTRUCTION & PILING BIG HOLE DRILLING PRODUCT

桩基用大孔径产品

这种类型的大孔径是我公司针对水井、建筑基桩和尤其钻井的特点，自行设计开发和制造的。

This type of big hole drilling product is designed and developed by our company in accordance with the characteristics of water wells, building foundation piles and especially for water wells.

大孔径的优势

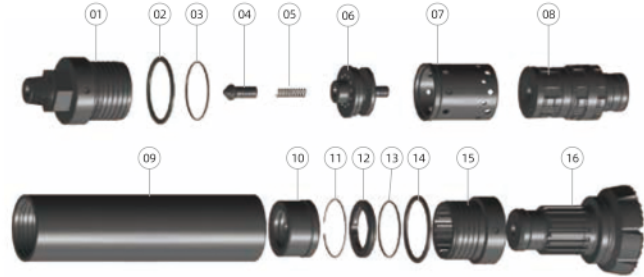
- 采用先进的凿岩理论，优化内部结构和配气尺寸，使冲击器获得理想的能量传递。因此，钻进速度快，耗风量低。
- 针对此类工程钻头断裂打捞十分困难的情况，专门设计了安全可靠的钻头防脱落装置。
- 使用中如需要加强排渣，可更换不同尺寸调气孔的逆止阀达到目的。
- 接头和卡钎套采用特殊牙型的螺纹可使拆卸容易。

Advantages of Big Hole Drilling Product

- Adopt advanced rock drilling theory to optimize internal structure and gas distribution size to make hammer device to achieve ideal energy transfer. Therefore, the drilling speed is fast and the air consumption is low.
- In this kind of engineering projects, after drill bit breaks, it will be very difficult to salvage, it is specially designed safe and reliable bit anti-falling device.
- If you need to strengthen the slag discharge during use, you can replace the check valve of the air regulating hole of different sizes to achieve the goal.
- The special thread of the top sub and the drive chuck can be easily disassembled.

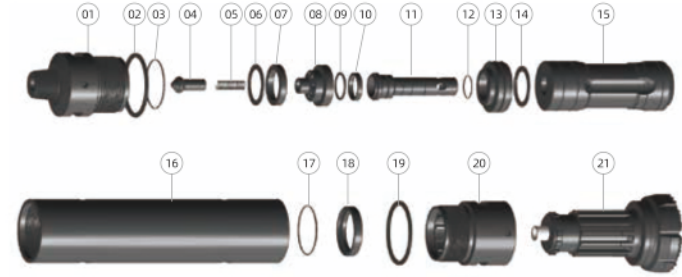


SP1880



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	361.5Kg	01-SP1880-01	09	外缸 Piston Case	493 Kg	01-SP1880-09
02	垫片 Squashing Ring	4 Kg	01-SP1880-02	10	衬套 Guide Sleeve	69 Kg	01-SP1880-10
03	O形圈 O Ring	0.1 Kg	01-SP1880-03	11	挡圈 Circlip	1 Kg	01-SP1880-11
04	逆止阀 Check Valve	3.4 Kg	01-SP1880-04	12	卡环 Retainer Ring	14.8 Kg	01-SP1880-12
05	弹簧 Spring	0.4 Kg	01-SP1880-05	13	O形圈 O Ring	0.08 Kg	01-SP1880-13
06	配气座 Valve Seat	76 Kg	01-SP1880-06	14	垫片 Squashing Ring	4 Kg	01-SP1880-14
07	内缸 Inner Cylinder	54.5 Kg	01-SP1880-07	15	卡钎套 Driver Chuck	134 Kg	01-SP1880-15
08	活塞 Piston	366 Kg	01-SP1880-08	16	钻头 Drill Bit		01-SP1880-16

ND180



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	接头 Top Sub	274 Kg	01-YC410-01	11	配气杆 Rigid Valve	22.3 Kg	01-YC410-11
02	垫片 Squashing Ring	2.9 Kg	01-YC410-02	12	O形圈 O Ring	0.03 Kg	01-YC410-12
03	O形圈 O Ring	0.03 Kg	01-YC410-03	13	杆座 Pole seat	50 Kg	01-YC410-13
04	逆止阀 Check Valve	3.4 Kg	01-YC410-04	14	O形圈 O Ring	0.03 Kg	01-YC410-14
05	弹簧 Spring	0.3 Kg	01-YC410-05	15	活塞 Piston	347 Kg	01-YC410-15
06	调整圈 Regulate Ring	1.5 Kg	01-YC410-06	16	外缸 Piston Case	562 Kg	01-YC410-16
07	尼龙垫 Nylon washer	1.2 Kg	01-YC410-07	17	挡圈 Circlip	0.3 Kg	01-YC410-17
08	配气座 Valve Seat	26.4 Kg	01-YC410-08	18	卡环 Retainer Ring	10 Kg	01-YC410-18
09	调整圈 Regulate Ring	0.4 Kg	01-YC410-09	19	垫片 Squashing Ring	2.9 Kg	01-YC410-19
10	橡胶垫 Rubber Buffer	0.3 Kg	01-YC410-10	20	卡钎套 Driver Chuck	155 Kg	01-YC410-20
				21	钻头 Drill Bit		01-YC410-21

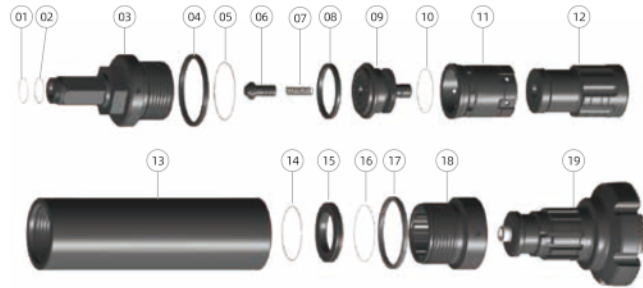
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
1957mm	1582Kg	φ 445mm	API8 5/8"REG	SP1880	φ 500- φ 680mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.3 Mpa	20-40 r/min	73m ³ /min	97m ³ /min		

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
2162mm	1460Kg	φ 410mm	API8 5/8"REG	ND180	φ 500- φ 650mm
适用气压 Work Pressure	推荐转速 Recommended rotation speed	耗风量 / Air Consumption			
		1.8Mpa	2.4Mpa		
1.5-3.5 Mpa	25 ~ 40 r/min	63m ³ /min	85m ³ /min		

SW530

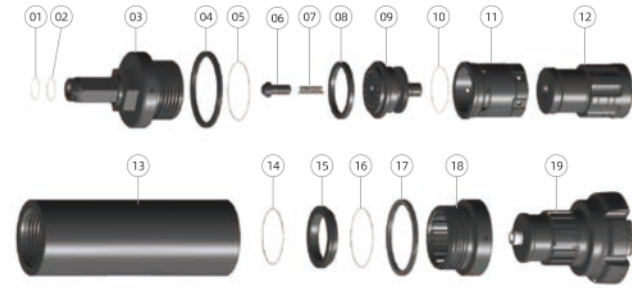


Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	O形圈 O Ring	0.05 Kg	01-SW530-01	11	内缸 Innre Cylinder	93 Kg	01-SW530-11
02	O形圈 O Ring	0.05 Kg	01-SW530-02	12	活塞 Piston	454.5 Kg	01-SW530-12
03	接头 Top Sub	534 Kg	01-SW530-03	13	外缸 Piston Case	1139.5Kg	01-SW530-13
04	垫片 Squashing Ring	8 Kg	01-SW530-04	14	挡圈 Retaining Ring	0.3 Kg	01-SW530-14
05	O形圈 O Ring	0.1 Kg	01-SW530-05	15	卡环 Retainer Ring	33 Kg	01-SW530-15
06	逆止阀 Check Valve	7.5 Kg	01-SW530-06	16	O形圈 O Ring	0.1 Kg	01-SW530-16
07	弹簧 Spring	0.4 Kg	01-SW530-07	17	垫片 Squashing Ring	8 Kg	01-SW530-17
08	橡胶垫 Rubber Buffer	1.5 Kg	01-SW530-08	18	卡钎套 Driver Chuck	246.8Kg	01-SW530-18
09	配气座 Valve Seat	134 Kg	01-SW530-09	19	钻头 Drill Bit		01-SW530-19
10	O形圈 O Ring	0.1 Kg	01-SW530-10				

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
2438mm	2660.5Kg	φ 530mm	320 六方	SW530	φ 600- φ 800mm
适用气压 Work Pressure		推荐转速 Recommended rotation speed		耗风量/Air Consumption	
1.5-3.5 Mpa		15 ~ 30 r/min		1.8Mpa	2.4Mpa
				85m ³ /min	110m ³ /min

SW640



Ref.	部件 Parts	单重 Weight	件号 Part No	Ref.	部件 Parts	单重 Weight	件号 Part No
01	O形圈 O Ring	0.05 Kg	01-SW640-01	11	内缸 Innre Cylinder	137.6Kg	01-SW640-11
02	O形圈 O Ring	0.05 Kg	01-SW640-02	12	活塞 Piston	626.3Kg	01-SW640-12
03	接头 Top Sub	705.5Kg	01-SW640-03	13	外缸 Piston Case	1797 Kg	01-SW640-13
04	垫片 Squashing Ring	15.4 Kg	01-SW640-04	14	挡圈 Retaining Ring	0.4 Kg	01-SW640-14
05	O形圈 O Ring	0.2 Kg	01-SW640-05	15	卡环 Retainer Ring	42.3 Kg	01-SW640-15
06	逆止阀 Check Valve	7.5 Kg	01-SW640-06	16	O形圈 O Ring	0.2 Kg	01-SW640-16
07	弹簧 Spring	0.4 Kg	01-SW640-07	17	垫片 Squashing Ring	15.4 Kg	01-SW640-17
08	橡胶垫 Rubber Buffer	3 Kg	01-SW640-08	18	卡钎套 Driver Chuck	240.4 Kg	01-SW640-18
09	配气座 Valve Seat	203.6Kg	01-SW640-09	19	钻头 Drill Bit		01-SW640-19
10	O形圈 O Ring	0.2 Kg	01-SW640-10				

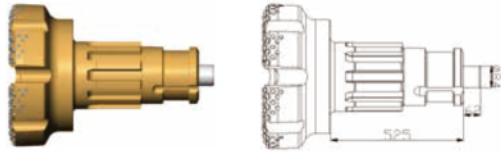
技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	钻头钎柄 Bit Shank	钻孔范围 Hole Range
2390mm	3795.5Kg	φ 640mm	320 六方	SW640	φ 720- φ 1000mm
适用气压 Work Pressure		推荐转速 Recommended rotation speed		耗风量/Air Consumption	
1.5-3.5 Mpa		15 ~ 30 r/min		1.8Mpa	2.4Mpa
				92m ³ /min	122m ³ /min

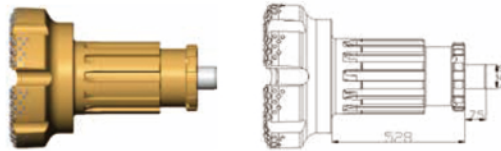
Piling Bits

大孔径钻头

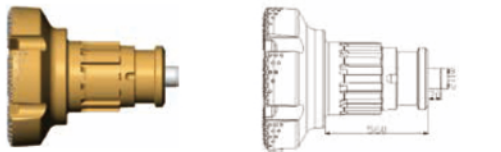
桩孔系列钻头/Piling Drill Bit



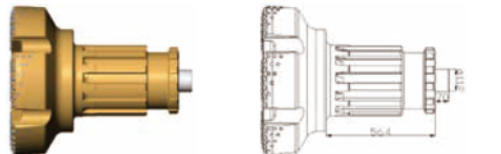
型号 Model	花键数 Spline	尾部长 Tail length
SW370	10	525
钻孔范围 Hole range		450-600mm



型号 Model	花键数 Spline	尾部长 Tail length
SW410	12	528
钻孔范围 Hole range		500-800mm

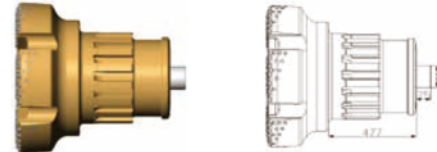


型号 Model	花键数 Spline	尾部长 Tail length
SW530	12	560
钻孔范围 Hole range		600-1000mm

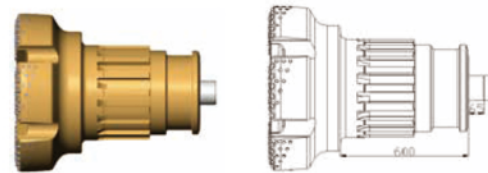


型号 Model	花键数 Spline	尾部长 Tail length
N240	12	564
钻孔范围 Hole range		600-1000mm

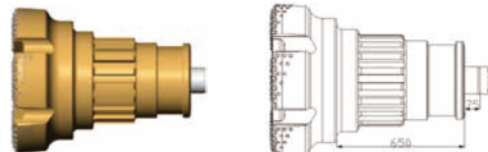
桩孔系列钻头/Piling Drill Bit



型号 Model	花键数 Spline	尾部长 Tail length
SW640	16	477
钻孔范围 Hole range		700-1200mm



型号 Model	花键数 Spline	尾部长 Tail length
640SN	16	600
钻孔范围 Hole range		700-1200mm



型号 Model	花键数 Spline	尾部长 Tail length
SW800S	18	650
钻孔范围 Hole range		900-1250mm





08

OTHER PARTS
其他工具与配件

Back Hammer

反打冲击器

BH140

BH140反打冲击器/Back Hammer		Ref.	部件 Parts	单重 Weight	件号 Part No.
	01	芯轴 Mandrel	16.5 Kg	20-BH140-01	
	02	活塞 Piston	8.7 Kg	20-BH140-02	
	03	撞块 Bumping Block	2 Kg	20-BH140-03	
	04	外套管 Outer Casing	6.7 Kg	20-BH140-04	

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	接头螺纹 Connection Thread
420mm	34Kg	φ 155mm	API2 3/8"REG	0.8-1.7 Mpa

BH170

BH170反打冲击器/Back Hammer		Ref.	部件 Parts	单重 Weight	件号 Part No.
	01	芯轴 Mandrel	32 Kg	20-BH170-01	
	02	活塞 Piston	18 Kg	20-BH170-02	
	03	撞块 Bumping Block	2.5 Kg	20-BH170-03	
	04	外套管 Outer Casing	9 Kg	20-BH170-04	
	05	平键 Flat Key	0.1 Kg	20-BH170-05	
	06	垫块 Cushion Block	2.7 Kg	20-BH170-06	

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	接头螺纹 Connection Thread
606 mm	64.5 Kg	φ 190mm	API3 1/2"REG	0.8-2.5 Mpa

BH190

BH190反打冲击器/Back Hammer		Ref.	部件 Parts	单重 Weight	件号 Part No.
	01	芯轴 Mandrel	42.5 Kg	20-BH190-01	
	02	活塞 Piston	25.2 KG	20-BH190-02	
	03	撞块 Bumping Block	3.4 Kg	20-BH190-03	
	04	外套管 Outer Casing	13.5 Kg	20-BH190-04	

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	接头螺纹 Connection Thread
560 mm	84.5 Kg	φ 220mm	API3 1/2"REG	0.8-3.0 Mpa

BH240

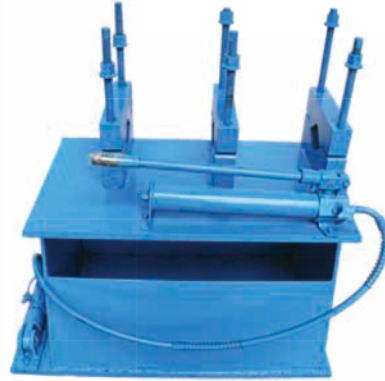
BH240反打冲击器/Back Hammer		Ref.	部件 Parts	单重 Weight	件号 Part No.
	01	芯轴 Mandrel	71.5 Kg	20-BH240-01	
	02	活塞 Piston	44.3 KG	20-BH240-02	
	03	撞块 Bumping Block	7.8 Kg	20-BH240-03	

技术参数 / Technical specification

总长 (不含钻头) Length(Less bit)	总重 Weight	冲击器外径 Outer diameter	接头螺纹 Connection Thread	接头螺纹 Connection Thread
600mm	123.5 Kg	φ 240mm	API4 1/2"REG	0.8-3.0 Mpa

Breakout Bench

拆卸台



冲击器拆卸工作台使用方法:

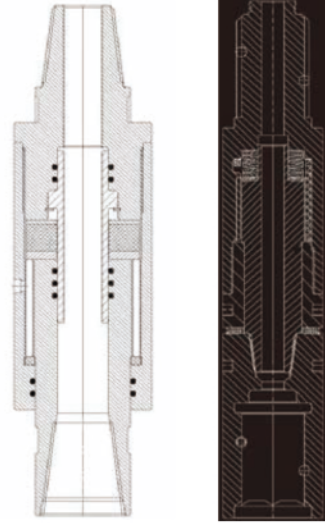
- 把冲击器放进卸钎器里边。
- 调节冲击器和扳手的位置，使扳手卡住接头方口处，并与千斤顶处于同一平面内。
- 用螺丝固定好K形座。
- 用相应螺丝将扳手固定紧。
- 缓慢上下摇动千斤顶把手，将冲击器慢慢卸开。
- 接头拆卸完毕后，将千斤顶回油，回油完毕后，松开螺丝，放下扳手，卸下K形座，将冲击器调头。
- 调节冲击器和扳手的位置，使扳手卡住卡钳套并与千斤顶处于同一平面内。
- 调整冲击器。
- 放入K形座，并用螺丝将K形座及扳手固定好。
- 缓慢上下摇动千斤顶把手，将冲击器慢慢卸开。

Breakout Bench Operation Method:

- Put hammer in the bench.
- Adjust hammer and wrench to make wrench block at top sub; let wrench and jack be in the same plane.
- Fix K-shaped base with nut.
- Fix wrench with nuts.
- Sway jack handle slowly to unlink hammer .
- After top sub dismantled, grease jack, release nuts, discharge K-shaped base and turn around hammer.
- Adjust hammer and wrench to make wrench block drive chuck; let wrench and jack be in the same plane.
- Adjust hammer.
- Fix K-shaped base and wrench with nuts.
- Sway jack handle slowly to unlink hammer.

Shock Absorber

缓冲器



名称 Name	接头规格 Adapter	直径*长度(mm) Diameter*Length
12寸缓冲器	6-5/8REG	270*795
14寸缓冲器	273hexagonal	355*882
18寸缓冲器	273hexagonal	457*1110
24寸缓冲器	320hexagonal	600*1344
28寸缓冲器	320hexagonal	640*1540

Drilling Accessories

钻机配件



钻机孔套
Rig Deck Bush



钻杆拆卸扳手
Rod Spanner