



超金刚
Super Diamond

超金刚钻具 CJG ROCK DRILL



长沙超金刚机械制造有限公司

Changsha Chaojingang Machinery Manufacturing Co., Ltd

地址: 湖南省长沙市浏阳高新技术产业开发区丰裕北路
ADD: Fengyubei Road, Liu yang High-tech Industrial
Development zone, Changsha, Hunan.

电话: +86-731-83332587 Tel.: +86-731-83332587
传真: +86-731-83332597 Fax.: +86-731-83332597
邮箱: info@cjgdrill.com Email: info@cjgdrill.com
网址: www.cjgdrill.com / www.dthdrill.com
www.rcdrill.com

印刷日期: 2018年11月
Publishing In November 2018

由于技术不断更新, 技术参数如有更改, 恕不另行通知。版权
归长沙超金刚机械制造有限公司所有, 未经我司书面许可, 本
目录任何部分的内容不得被复制或抄袭用于任何目的。

Copyright, Changsha Chaojingang machinery
manufacturing Co., Ltd, specifications and equipment
subjects to change without notice due to technical
improvement. Any unauthorized use or copying of
contents or any part thereof is prohibited.



超金刚
Super Diamond

长沙超金刚机械制造有限公司

Changsha Chaojingang Machinery Manufacturing Co., Ltd

公司简介 COMPANY PROFILE

长沙超金刚机械制造有限公司是中国专业从事凿岩机械和风动工具研究与制造的现代化高新技术企业。公司拥有丰富的科研与生产经验，采用最优质的原材料、先进的生产工艺和严密的检测手段，制造出性能超越、质量稳定可靠的产品。“超金刚”牌凿岩与风动系列产品由于性能超越，质量稳定可靠而畅销全国，并批量出口到韩国、巴西、澳大利亚、南非等20多个国家和地区，深受用户好评。

公司位于美丽的烟花之城长沙浏阳，占地26600平方米，生产厂房22000平方米，员工近百人，工程技术人员26人，高级工程师8人。拥有凿岩机械与风动工具研究、制造和检测的专业设备近400台套。公司自行研发制造最先进的正循环潜孔冲击器和钻头；反循环冲击器和钻头；各种正反循环潜孔钻头；在覆盖岩层和松散岩层中用于跟管钻进的偏心跟管钻具、对心跟管钻具、滑块式跟管钻具、双重跟管钻具；各种螺纹钻头；钎尾和联接套；新型水井地热钻机、露天爆破孔钻机；钻管、接头及其它钻具配件，广泛应用于土石方工程、矿山开采、水井工程和建筑工程、地热钻探、市政工程等领域。

公司秉承继往革新精神，提供优质产品，先进技术，全面服务，以客户追求为中心，以质量为目的，以提供整体凿岩解决方案为发展目标，真诚希望与新老朋友携手共赢，共创美好明天。

Changsha Chaojingang machinery manufacturing Co., Ltd is a modern high-tech enterprise, which is specialized in researching and manufacturing rock drilling machine and pneumatic tools. The company has rich experiences for scientific research and production. It produces prime property and quality rock drilling products by using high-quality raw materials, utilizing advanced production technology and imposing strict quality inspection. The products produced by Super Drill are sold well all over China and exported to over 20 countries, such as Korea, Brazil, Australia, and South Africa etc, high praised by users for its prime property and quality.

Changsha Chaojingang is located in Liuyang, Changsha, Hunan, which is known as a beautiful fireworks city. It occupies 26600m², and workshop has 22000m². With more than 100 staffs, our company includes 26 specialized technicians and 8 senior engineers. And we are equipped with nearly 400 sets of advanced equipment required for manufacturing rock drilling machine and pneumatic tools. We have designed and manufactured the following products: normal circulation DTH hammers and bits, reverse circulation hammers and bits, various kinds of normal and reverse circulation hammers and bits, eccentric drilling equipment, symmetric drilling equipment, casting system, various kinds of threaded bits, shank adapters and coupling sleeves, new-style wells geothermal drilling rig, open-air blasthole drilling rig, all kinds of tool joints and drill pipe and spare parts for drill rig. Our products are widely used in earth-rock work, mining, well drilling, building engineer, geothermal drilling, civil project etc.

With innovative spirit and development goal to provide solution for rock drilling technique, we always guide ourselves with service concept "focus on users" requirements and meet customers' need with prime quality, advanced technology and full service. Sincerely hope we could achieve win-win to all customers and create a better future.



目录 CONTENTS

目 录
CONTENTS

公司简介 Company Introduction 01

低风压潜孔冲击器 Low Air Pressure DTH Hammers 03

中风压潜孔冲击器 Middle Air Pressure DTH Hammers 07

有尼龙管型高压冲击器 High Air Pressure with foot valve DTH Hammers 11

无尼龙管型高压冲击器 High Air Pressure without foot valve DTH Hammers 28

潜孔钻头 Down The Hole Bits 55

跟管钻具 Overburden Drilling 67

反循环冲击器和钻头 Reverse Circulation Hammers 77

螺纹钻头 Thread bits 91

其它产品 The Others 105

低风压潜孔冲击器的特点

The Characteristics Of Low Air Pressure DTH Hammer

CR系列潜孔冲击器是一种有阀低风压冲击器，属于单活塞、板阀、中心排气结构的冲击器，以压缩空气为动力。为防止粉尘污染，可在压缩空气中加入少量高压水，进行湿式凿岩。

CR Series DTH Hammer, a kind of valve-equipped Low-Air-Pressure hammer with a single piston, a plate valve and a central exhaust structure. The compressed air is adopted as the driving force. To prevent dust pollution and get a better performance, some high-pressure water may be added into the air for wet rock drilling.

主要具有以下特点：

- 1、单次冲击能大，破碎岩石的能耗低；
- 2、活塞与钻头重量比接近，有效作用时间长，有利于提高岩石破碎效率和延长钻具的寿命；
- 3、中心排气排渣效果好，减少了岩石的重复破碎；
- 4、冲击器带有逆止阀装置，可在水中钻凿炮孔。

CR系列潜孔冲击器，广泛应用于能源、交通、冶金、建材等行业，是理想的穿孔设备。

It is mainly featured in:

- 1 .The strong energy of single impact and the low energy consumption in rock crushing;
- 2.The weight ratio of Piston and Bit almost reaches 1:1 to provide long effective acting time, which leads to the improved efficiency in rock crushing and the extended service life of the drilling tool;
- 3.A good performance in central air exhaust and cuttings discharge, which reduces the repeated crushing of rock;
- 4.A check vlave device is available to drill holes under water.

The CR Series DTH Hammer, an ideal drilling tool, is widely used in such industries relating to energy,transportation,metallurgy,building etc.

低风压冲击器名称解释

例：CR90

C—Chaojingang (超金刚)简称

R—可与CIR钻头相配

90—表示冲击器的公称尺寸

Explanation of Low air pressure DTH Hammer code

For example:CR90

C—chaojingang(Our company name)

R—CIR Bit Shank

90—Nominal Bit Size

CR90 潜孔冲击器

CR90 DTH HAMMER

低风压潜孔冲击器系列 Low Air Pressure DTH Hammers		零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
	1、接 头	Top Sub	2.80	CR90-01
	2、顶 头	Valve Seal	0.01	CR90-02
	3、逆止阀	Check Valve	0.02	CR90-03
	4、弹 簧	Spring	0.01	CR90-04
	5、承压垫	Compression Buffer	0.01	CR90-05
	6、胶 圈	"O"Ring	0.01	CR90-06
	7、阀 盖	Valve cover	0.60	CR90-07
	8、导向管	Guide Tube	0.01	CR90-08
	9、阀 片	Valve	0.01	CR90-09
	10、阀 座	Air Distributor	0.60	CR90-10
	11、内 缸	Internal Cylinder	2.00	CR90-11
	12、活 塞	Piston	4.00	CR90-12
	13、外 缸	External Cylinder	5.80	CR90-13
	14、衬 套	Guided Sleeve	1.20	CR90-14
	15、挡 柱	Stop Ring	0.01	CR90-15
	16、卡钎套	Drive Chuck	1.60	CR90-16
	17、钻 头	Drill Bit	3.50	CR90-17

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Welgth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
800mm	19.0kg	Φ80mm	CIR90	Φ85-Φ110	T48X10X2
可用工作风压 Working Pressure	在1.5Mpa时的 冲击频率 Impact rate at 1.5Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			0.5Mpa	0.7Mpa	
0.5-0.7Mpa	14HZ	25-40r/min	6.5m³/min	8.0m³/min	

CR110 潜孔冲击器

CR110 DTH HAMMER

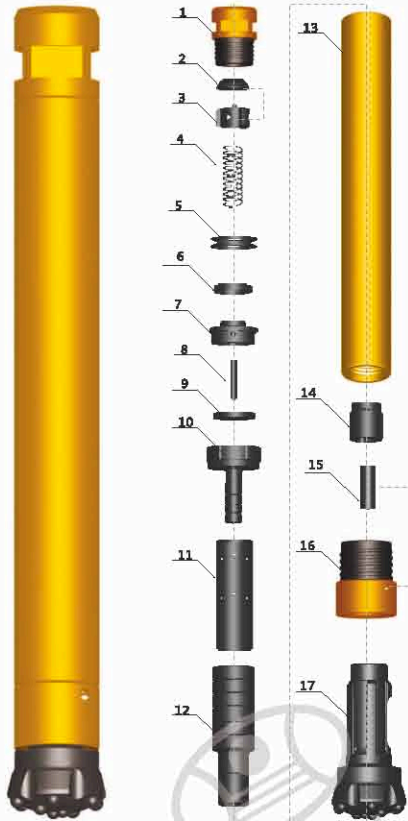
低风压潜孔冲击器系列 Low Air Pressure DTH Hammers		零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
	1、接 头	Top Sub	5.00	CR110-01
	2、顶 头	Valve Seal	0.01	CR110-02
	3、逆止阀	Check Valve	0.02	CR110-03
	4、弹 簧	Spring	0.01	CR110-04
	5、承压垫	Compression Buffer	0.015	CR110-05
	6、胶 圈	"O"Ring	0.01	CR110-06
	7、阀 盖	Valve cover	0.80	CR110-07
	8、导向管	Guide Tube	0.01	CR110-08
	9、阀 片	Valve	0.015	CR110-09
	10、阀 座	Air Distributor	1.00	CR110-10
	11、内 缸	Internal Cylinder	2.80	CR110-11
	12、活 塞	Piston	7.00	CR110-12
	13、外 缸	External Cylinder	8.80	CR110-13
	14、衬 套	Guided Sleeve	1.40	CR110-14
	15、挡 柱	Stop Ring	0.01	CR110-15
	16、卡钎套	Drive Chuck	3.80	CR110-16
	17、钻 头	Drill Bit	6.40	CR110-17

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Welgth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
839mm	32.0kg	Φ98mm	CIR110	Φ110-Φ135	T48X10X2
可用工作风压 Working Pressure	在1.5Mpa时的 冲击频率 Impact rate at 1.5Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			0.5Mpa	0.7Mpa	
0.5-0.7Mpa	14HZ	25-40r/min	9.5m³/min	11m³/min	

CR150 潜孔冲击器 CR150 DTH HAMMER

低风压潜孔冲击器系列
Low Air Pressure DTH Hammers



零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1、接 头	Top Sub	10.40	CR150-01
2、顶 头	Valve Seal	0.03	CR150-02
3、逆止阀	Check Valve	0.035	CR150-03
4、弹 簧	Spring	0.015	CR150-04
5、承压垫	Compression Buffer	0.06	CR150-05
6、胶 圈	"O"Ring	0.035	CR150-06
7、阀 盖	Valve cover	2.00	CR150-07
8、导向管	Guide Tube	0.02	CR150-08
9、阀 片	Valve	0.05	CR150-09
10、阀 座	Air Distributor	2.60	CR150-10
11、内 缸	Internal Cylinder	5.40	CR150-11
12、活 塞	Piston	14.00	CR150-12
13、外 缸	External Cylinder	22.20	CR150-13
14、衬 套	Guided Sleeve	3.20	CR150-14
15、挡 柱	Stop Ring	0.025	CR150-15
16、卡钎套	Drive Chuck	8.20	CR150-16
17、钻 头	Drill Bit	12.50	CR150-17

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
908mm	69.00kg	Φ137mm	CIR150	Φ155-Φ178	T75X10X2.5
可用工作风压 Working Pressure	在1.5Mpa时的冲击频率 Impact rate at 1.5Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.5Mpa	
0.5-0.7Mpa	13HZ	25-40r/min	15m³/min	17m³/min	

中风压潜孔冲击器的特点

The Characteristics Of Middle-Low Air Pressure DTH Hammer

CBR1、CBR2和CBR3潜孔冲击器
是一种可与BR系列钻头相配的中风压冲击器。

CBR1, CBR2 and CBR3 series DTH Hammers
are designed to operate efficiently at low air pressures and medium air pressures, using BR series bits.

其主要特点如下:

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

The main features are as follows:

1. The operating air pressures are between 0.7Mpa and 1.75Mpa.
2. Valveless hammers.
3. Simple structure, easy to assemble and to disassemble, long life.
4. Higher impact frequency and faster drilling speed.
5. lower air consumption and lower oil consumption. A hole can be drilled on the check valve to provide more efficient cuttings discharge.
6. Especially suitable for quarrying.

中风压冲击器名称解释

Explanation of Middle-Low Air Pressure DTH Hammer code

例|CBR2

For example:CBR2

C—chaojingang (超金刚)简称

C—chaojingang(Our company name)

BR2—可与BR2钻头相配

BR2—BR2 Bit Shank

CBR1 潜孔冲击器

CBR1 DTH HAMMER

中低风压潜孔冲击器系列 Middle-Low Air Pressure DTH Hammers	零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
--	---------------------------	----------------------	----------------------

	1、接 头 Top Sub	1.70	CBR1-01
	2、逆 止 阀 Check Valve	0.10	CBR1-02
	3、弹 簧 Spring	0.05	CBR1-03
	4、配 气 座 Air Distributor	0.80	CBR1-04
	5、内 缸 Internal Cylinder	0.80	CBR1-05
	6、活 塞 Piston	1.20	CBR1-06
	7、外 缸 External Cylinder	4.00	CBR1-07
	8、衬 套 Guided Sleeve	0.15	CBR1-08
	9、卡环O形圈 "O"Ring of Stop Ring	0.05	CBR1-09
	10、卡 环 Stop Ring	0.10	CBR1-10
	11、卡 钎 套 Drive Chuck	0.80	CBR1-11
	12、钻 头 Drill Bit	1.70	CBR1-12

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
707mm	10.00kg	Φ54mm	Br1	Φ64-Φ76	RD 40 BOX
可用工作风压 Working Pressure	在1.4Mpa时的 冲击频率 Impact rate at 1.5Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			0.7Mpa	1.0Mpa	1.4Mpa
0.7-1.8Mpa	27HZ	25-40r/min	1.5m³/min	2.5m³/min	3.0m³/min

CBR2 潜孔冲击器

CBR2 DTH HAMMER

中低风压潜孔冲击器系列 Middle-Low Air Pressure DTH Hammers	零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
--	---------------------------	----------------------	----------------------

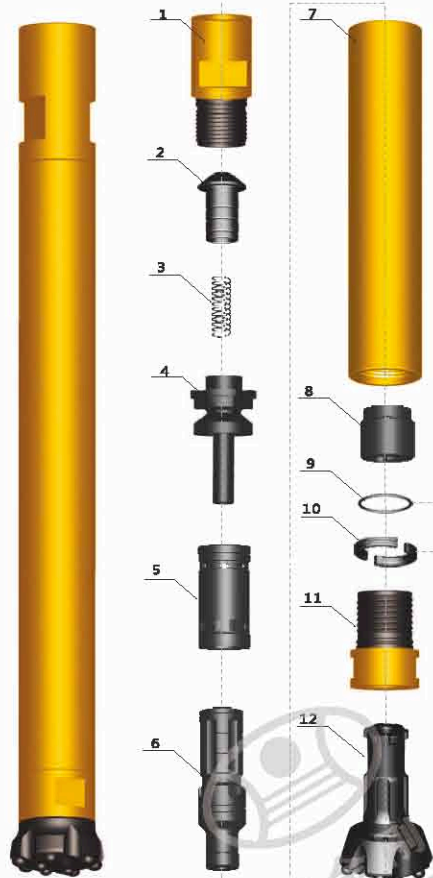
	1、接 头 Top Sub	2.60	CBR2-01
	2、逆 止 阀 Check Valve	0.10	CBR2-02
	3、弹 簧 Spring	0.05	CBR2-03
	4、配 气 座 Air Distributor	0.60	CBR2-04
	5、内 缸 Internal Cylinder	0.80	CBR2-05
	6、活 塞 Piston	3.80	CBR2-06
	7、外 缸 External Cylinder	4.50	CBR2-07
	8、衬 套 Guided Sleeve	0.60	CBR2-08
	9、卡环O形圈 "O"Ring of Stop Ring	0.005	CBR2-09
	10、卡 环 Stop Ring	0.10	CBR2-10
	11、卡 钎 套 Drive Chuck	1.20	CBR2-11
	12、钻 头 Drill Bit	2.50	CBR2-12

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
868mm	14.50kg	Φ62mm	Br2	Φ70-Φ90	RD 50 BOX
可用工作风压 Working Pressure	在1.4Mpa时的 冲击频率 Impact rate at 1.5Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			0.7Mpa	1.0Mpa	1.4Mpa
0.7-1.8Mpa	25HZ	25-40r/min	2.5m³/min	4.5m³/min	6.0m³/min

CBR3 潜孔冲击器 CBR3 DTH HAMMER

中低风压潜孔冲击器系列
Middle-Low Air Pressure DTH Hammers



零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
1、接 头 Top Sub	2.60	CBR3-01
2、逆 止 阀 Check Valve	0.10	CBR3-02
3、弹 簧 Spring	0.05	CBR3-03
4、配 气 座 Air Distributor	0.60	CBR3-04
5、内 缸 Internal Cylinder	0.80	CBR3-05
6、活 塞 Piston	3.80	CBR3-06
7、外 缸 External Cylinder	4.50	CBR3-07
8、衬 套 Guided Sleeve	0.60	CBR3-08
9、卡环O形圈 "O"Ring of Stop Ring	0.005	CBR3-09
10、卡 环 Stop Ring	0.10	CBR3-10
11、卡 钎 套 Drive Chuck	1.20	CBR3-11
12、钻 头 Drill Bit	2.50	CBR3-12

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
889mm	26.00kg	Φ82mm	Br3	Φ90-Φ110	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.4Mpa时的冲击频率 Impact rate at 1.5Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			0.7Mpa	1.0Mpa	1.4Mpa
0.7-1.8Mpa	25HZ	25-40r/min	4.0m³/min	6.0m³/min	8.0m³/min

有尼龙管高风压潜孔冲击器的特点
The Characteristics Of High Air Pressure DTH Hammer with foot valve

所配钻头有尼龙管高风压潜孔冲击器是我公司自行设计的有
阀高风压冲击器。

It is a kind of high air pressure DTH Hammer with
foot valve.

主要具有以下优点：

- 采用有阀方式配气，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，耗气量少，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。
- 接头和卡钎套采用多头螺纹与外缸联接，拆卸容易。

It has the following advantages:

- Valve air distribution. More reliable.
- Simple design of the piston, long life.
- More efficient energy transfer, faster drilling speed,
lower air consumption and lower oil consumption.
- Fewer internal parts, simple structure, longer life, 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 multi-
step thread.

有尼龙管高风压冲击器名称解释

Definition of High Air Pressure DTH Hammer With Foot valve

例：CD45

C—Chaojingang(超金刚)简称

D—所配钻头为DHD系列

4—表示冲击器的公称尺寸，4英寸冲击器

5—表示第五代冲击器

For Example:CD45

C—Chaojingang(Our company name)

D—DHD Bit Shank

4—4" Hammer

5—The Fifth Generation Hammer

例2：CQL40

C—Chaojingang(超金刚)简称

QL40—可与QL40钻头相配

Example Two:CQL40

C—Chaojingang(Our company name)

QL40—QL40 Bit Shank

CD35 潜孔冲击器

CD35 DTH HAMMER

有尼龙管高压冲击器系列
High Air Pressure DTH Hammers with foot valve

零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
---------------------------	----------------------	----------------------

1	接头	Top Sub	4.20	CD35-01
2	接头O形圈	"O" Ring of Top Sub	0.01	CD35-02
3	逆止阀	Check Valve	0.20	CD35-03
4	弹簧	Spring	0.02	CD35-04
5	承压垫	Compression Buffer	0.02	CD35-05
6	配气座	Air Distributor	1.40	CD35-06
7	内缸	Internal Cylinder	1.50	CD35-07
8	活塞	Piston	5.60	CD35-08
9	外缸	External Cylinder	9.40	CD35-09
10	卡环O形圈	"O" Ring of Stop Ring	0.01	CD35-10
11	卡环	Stop Ring	0.15	CD35-11
12	卡钎套	Drive Chuck	1.90	CD35-12
13	钻头	Drill Bit		CD35-13

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
918mm	24.4kg	Φ82mm	DHD3.5 CD35	Φ90-Φ105	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.5Mpa时的 冲击频率 Impact rate at 1.5Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.5Mpa	
1.0-1.5Mpa	28HZ	25-40r/min	4.5m³/min	9.0m³/min	

CD45 潜孔冲击器

CD45 DTH HAMMER

有尼龙管高压冲击器系列
High Air Pressure DTH Hammers with foot valve

零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
---------------------------	-------------------	----------------------

1	接头	Top Sub	6.50	CD45-01
2	接头O形圈	"O"Ring of Top Sub	0.01	CD45-02
3	逆止阀	Check Valve	0.42	CD45-03
4	弹簧	Spring	0.04	CD45-04
5	承压垫	Compression Buffer	0.04	CD45-05
6	配气座	Air Distributor	2.20	CD45-06
7	内缸	Internal Cylinder	2.30	CD45-07
8	活塞	Piston	9.00	CD45-08
9	外缸	External Cylinder	15.8	CD45-09
10	卡环O型圈	"O" Ring of Stop Ring	0.01	CD45-10
11	卡环	Stop Ring	0.20	CD45-11
12	卡钎套	Drive Chuck	3.50	CD45-12
13	钻头	Drill Bit		CD45-13

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1033mm	40.0kg	Φ99mm	Cop44 DHD340 CD45	Φ110-Φ135	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	27HZ	25-40r/min	6m³/min	10m³/min	15m³/min

CSD4 潜孔冲击器

CSD4 DTH HAMMER

有尼龙管高压冲击器系列
High Air Pressure DTH Hammers with foot valve

1	接头	Top Sub	6.50	CSD4-01
2	接头O形圈	"O"Ring of Top Sub	0.01	CSD4-02
3	逆止阀	Check Valve	0.42	CSD4-03
4	弹簧	Spring	0.04	CSD4-04
5	承压垫	Compression Buffer	0.04	CSD4-05
6	配气座	Air Distributor	2.20	CSD4-06
7	内缸	Internal Cylinder	2.50	CSD4-07
8	活塞	Piston	9.00	CSD4-08
9	外缸	External Cylinder	15.60	CSD4-09
10	卡环O形圈	"O" Ring of Stop Ring	0.02	CSD4-10
11	卡环	Stop Ring	0.20	CSD4-11
12	卡钎套	Drive Chuck	4.00	CSD4-12
13	钻头	Drill Bit		CSD4-13

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1084mm	40.5kg	φ99mm	SD4 CSD4	Φ110-Φ135	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	27HZ	25-40r/min	6m³/min	10m³/min	15m³/min

CQL40 潜孔冲击器

CQL40 DTH HAMMER

有尼龙管高压冲击器系列
High Air Pressure DTH Hammers with foot valve

1	接头	Top Sub	6.50	CQL40-01
2	接头O形圈	"O"Ring of Top Sub	0.01	CQL40-02
3	逆止阀	Check Valve	0.42	CQL40-03
4	弹簧	Spring	0.04	CQL40-04
5	承压垫	Compression Buffer	0.04	CQL40-05
6	配气座	Air Distributor	2.20	CQL40-06
7	内缸	Internal Cylinder	2.30	CQL40-07
8	活塞	Piston	8.80	CQL40-08
9	外缸	External Cylinder	16.50	CQL40-09
10	衬套	Guided Sleeve	0.80	CQL40-10
11	卡环O形圈	"O"Ring of Stop Ring	0.01	CQL40-11
12	卡环	Stop Ring	0.30	CQL40-12
13	卡钎套	Drive Chuck	3.00	CQL40-13
14	钻头	Drill Bit		CQL40-14

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

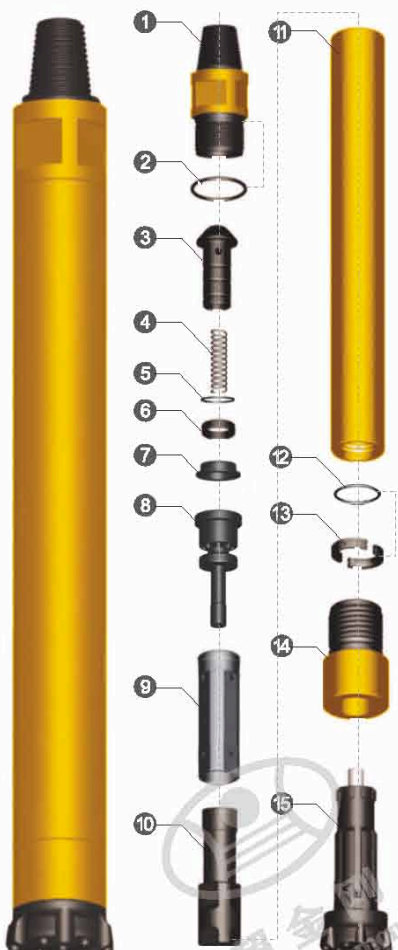
技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1097mm	41.00kg	φ99mm	QL40 CQL40	Φ110-Φ135	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	27HZ	25-40r/min	6m³/min	10m³/min	15m³/min

CD55 潜孔冲击器

CD55 DTH HAMMER

有尼龙管高风压冲击器系列
High Air Pressure DTH Hammers with foot valve



序号	零件名称	Part Description	重量 Weight (Kg)	零件代号 Part Number
1	接头	Top Sub	15.0	CD55-01
2	接头O形圈	"O"Ring of Top Sub	0.01	CD55-02
3	逆止阀	Check Valve	1.00	CD55-03
4	弹簧	Spring	0.04	CD55-04
5	垫片	Ring	0.10	CD55-05
6	承压垫	Compression Buffer	0.06	CD55-06
7	承压垫座	Compression Buffer Seat	0.40	CD55-07
8	配气座	Air Distributor	4.00	CD55-08
9	内缸	Internal Cylinder	4.70	CD55-09
10	活塞	Piston	15.50	CD55-10
11	外缸	External Cylinder	30.00	CD55-11
12	卡环O形圈	"O" Ring of Stop Ring	0.01	CD55-12
13	卡环	Stop Ring	0.30	CD55-13
14	卡钎套	Drive Chuck	6.40	CD55-14
15	钻头	Drill Bit		CD55-15

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

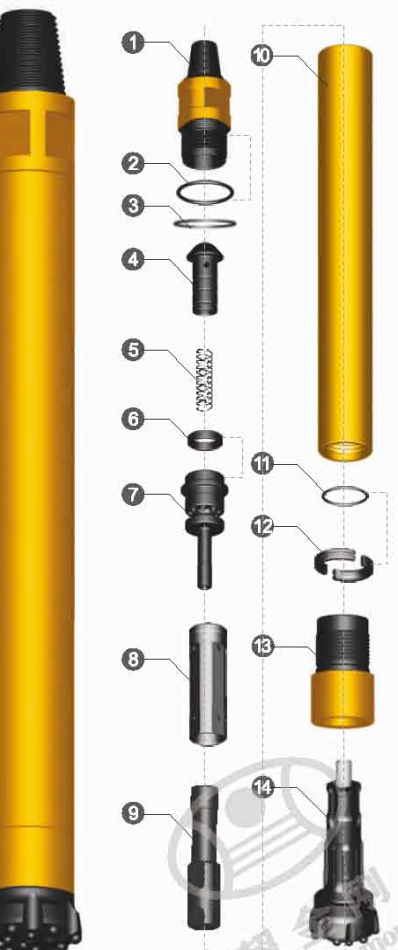
技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1214mm	77.5kg	Φ125mm	Cop54 DHD350R CD55	Φ135-Φ155	API 2 3/8" Reg API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	25HZ	20-35r/min	9m³/min	15m³/min	23m³/min

CSD5 潜孔冲击器

CSD5 DTH HAMMER

有尼龙管高风压冲击器系列
High Air Pressure DTH Hammers with foot valve



序号	零件名称	Part Description	重量 Weight (Kg)	零件代号 Part Number
1	接头	Top Sub	15.0	CSD5-01
2	接头O形圈	"O"Ring of Top Sub	0.01	CSD5-02
3	接头垫片	Breakout Ring of Top Sub	0.15	CSD5-03
4	逆止阀	Check Valve	1.00	CSD5-04
5	弹簧	Spring	0.10	CSD5-05
6	承压垫	Compression Buffer	0.05	CSD5-06
7	配气座	Air Distributor	3.50	CSD5-07
8	内缸	Internal Cylinder	4.20	CSD5-08
9	活塞	Piston	15.5	CSD5-09
10	外缸	External Cylinder	25.0	CSD5-10
11	卡环O形圈	"O" Ring of Stop Ring	0.01	CSD5-11
12	卡环	Stop Ring	0.50	CSD5-12
13	卡钎套	Drive Chuck	7.50	CSD5-13
14	钻头	Drill Bit		CSD5-14

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

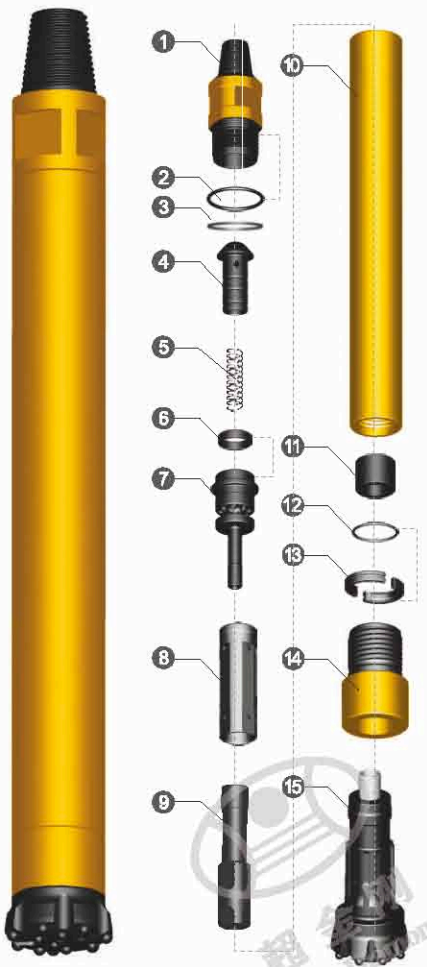
技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1175mm	72.50kg	Φ125mm	SD5 CSD5	Φ135-Φ155	API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	25HZ	20-35r/min	9m³/min	15m³/min	23m³/min

CQL50 潜孔冲击器

CQL50 DTH HAMMER

有尼龙管高压冲击器系列
High Air Pressure DTH Hammers with foot valve



零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	15.0	CQL50-01
2	接头O形圈 "O"Ring of Top Sub	0.015	CQL50-02
3	接头垫片 Breakout Ring of Top Sub	0.15	CQL50-03
4	逆止阀 Check Valve	1.00	CQL50-04
5	弹簧 Spring	0.10	CQL50-05
6	承压垫 Compression Buffer	0.10	CQL50-06
7	配气座 Air Distributor	3.50	CQL50-07
8	内缸 Internal Cylinder	4.20	CQL50-08
9	活塞 Piston	19.0	CQL50-09
10	外缸 External Cylinder	24.6	CQL50-10
11	衬套 Guided Sleeve	0.90	CQL50-11
12	卡环O型圈 "O"Ring of Stop Ring	0.01	CQL50-12
13	卡环 Stop Ring	0.40	CQL50-13
14	卡钎套 Drive Chuck	4.60	CQL50-14
15	钻头 Drill Bit		CQL50-15

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

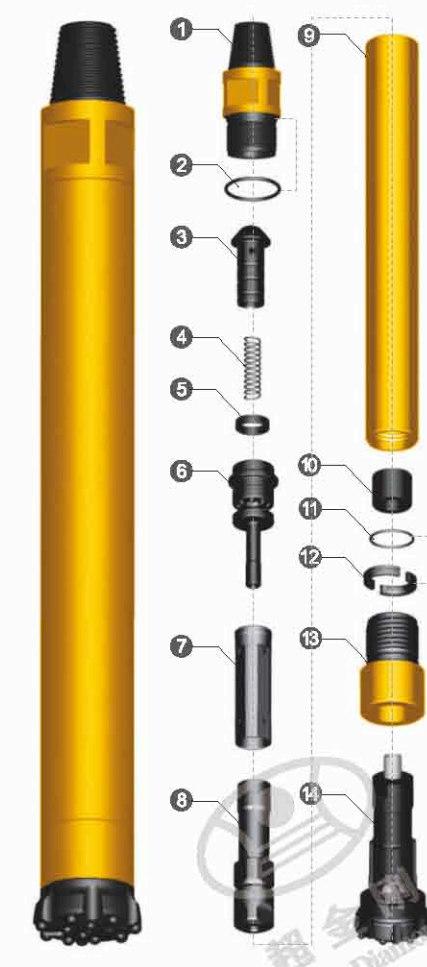
技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1156mm	73.0kg	Φ125mm	Cop54 Gold QL50 CQL50	Φ135-Φ155	API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	25HZ	20-35r/min	9m³/min	15m³/min	23m³/min

CD65 潜孔冲击器

CD65 DTH HAMMER

有尼龙管高压冲击器系列
High Air Pressure DTH Hammers with foot valve



零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	20.0	CD65-01
2	接头O形圈 "O"Ring of Top Sub	0.02	CD65-02
3	逆止阀 Check Valve	1.00	CD65-03
4	弹簧 Spring	0.04	CD65-04
5	承压垫 Compression Buffer	0.08	CD65-05
6	配气座 Air Distributor	5.00	CD65-06
7	内缸 Internal Cylinder	5.00	CD65-07
8	活塞 Piston	23.6	CD65-08
9	外缸 External Cylinder	36.8	CD65-09
10	衬套 Guided Sleeve	2.40	CD65-10
11	卡环O型圈 "O"Ring of Stop Ring	0.02	CD65-11
12	卡环 Stop Ring	0.60	CD65-12
13	卡钎套 Drive Chuck	6.00	CD65-13
14	钻头 Drill Bit		CD65-14

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

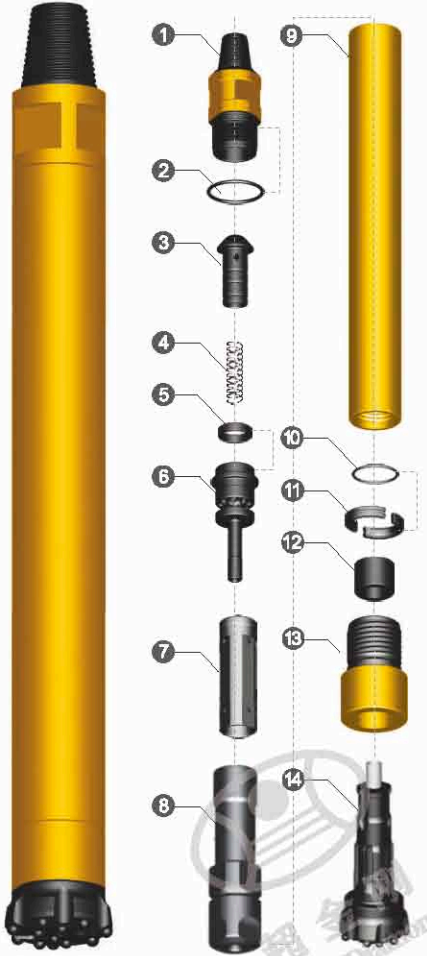
技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1248mm	100.6kg	Φ148mm	Cop64 DHD360 CD65	Φ155-Φ190	API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	23HZ	20-30r/min	10m³/min	20m³/min	28.5m³/min

CSD6 潜孔冲击器

CSD6 DTH HAMMER

有尼龙管高压冲击器系列
High Air Pressure DTH Hammers with foot valve



零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	20.00	CSD6-01
2	接头O形圈 "O"Ring of Top Sub	0.01	CSD6-02
3	逆止阀 Check Valve	1.00	CSD6-03
4	弹簧 Spring	0.05	CSD6-04
5	承压垫 Compression Buffer	0.10	CSD6-05
6	配气座 Air Distributor	5.00	CSD6-06
7	内缸 Internal Cylinder	5.00	CSD6-07
8	活塞 Piston	24.00	CSD6-08
9	外缸 External Cylinder	35.00	CSD6-09
10	卡环O形圈 "O"Ring of Stop Ring	0.50	CSD6-10
11	卡环 Stop Ring	1.50	CSD6-11
12	导向套 Guidance Package	4.50	CSD6-12
13	卡钎套 Drive Chuck	7.50	CSD6-13
14	钻头 Drill Bit		CSD6-14

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

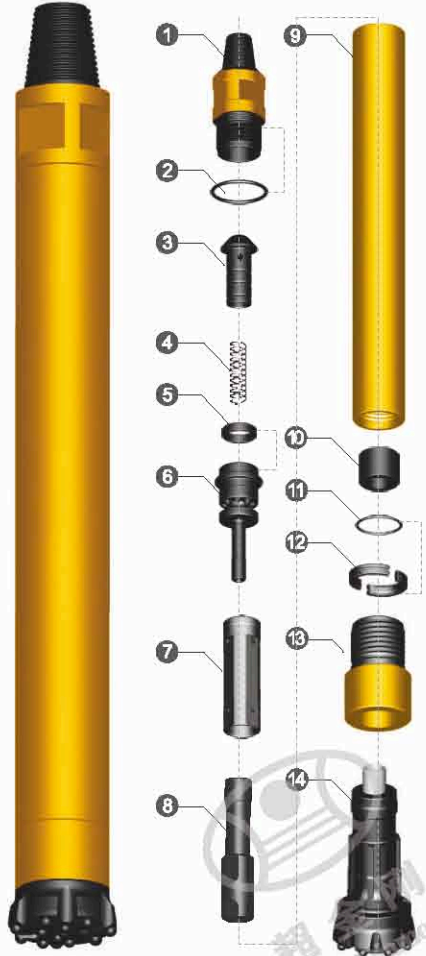
技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1261mm	100.0kg	Φ148mm	SD6 CSD6	Φ155-Φ190	API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	23HZ	20-30r/min	10m³/min	20m³/min	28.5m³/min

CQL60 潜孔冲击器

CQL60 DTH HAMMER

有尼龙管高压冲击器系列
High Air Pressure DTH Hammers with foot valve



零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	20.00	CQL60-01
2	接头O形圈 "O"Ring of Top Sub	0.02	CQL60-02
3	逆止阀 Check Valve	1.00	CQL60-03
4	弹簧 Spring	0.10	CQL60-04
5	承压垫 Compression Buffer	0.10	CQL60-05
6	配气座 Air Distributor	6.00	CQL60-06
7	内缸 Internal Cylinder	5.00	CQL60-07
8	活塞 Piston	23.50	CQL60-08
9	外缸 External Cylinder	31.00	CQL60-09
10	衬套 Guided Sleeve	1.00	CQL60-10
11	卡环O形圈 "O"Ring of Stop Ring	0.02	CQL60-11
12	卡环 Stop Ring	0.60	CQL60-12
13	卡钎套 Drive Chuck	5.40	CQL60-13
14	钻头 Drill Bit		CQL60-14

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

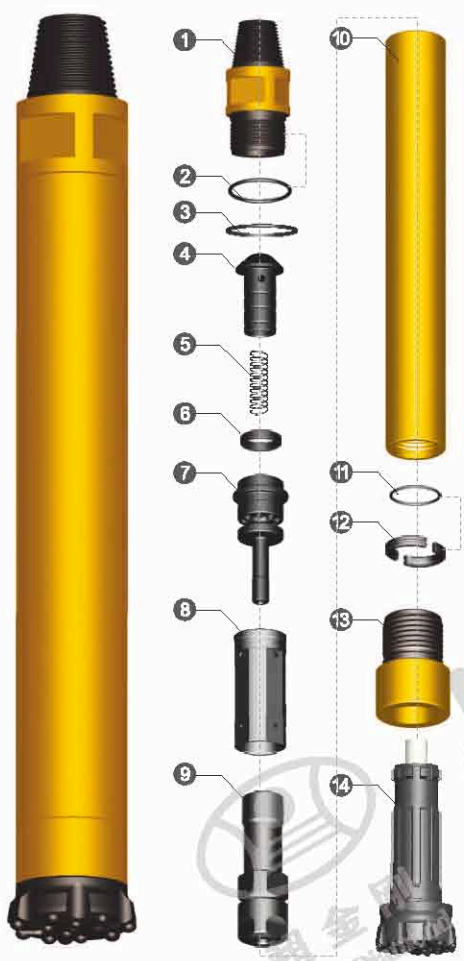
技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1212mm	95.00kg	Φ148mm	Cop64 Gold QL60 CQL60	Φ155-Φ190	API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7bar时的冲击频率 Impact rate at 2.4Bar	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	23HZ	20-30r/min	10m³/min	20m³/min	28.5m³/min

CD85 潜孔冲击器

CD85 DTH HAMMER

有尼龙管高风压冲击器系列
High Air Pressure DTH Hammers with foot valve



零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	41.0	CD85-01
2	接头O形圈 "O"Ring of Top Sub	0.02	CD85-02
3	接头垫片 Breakout Ring of Top Sub	0.20	CD85-03
4	逆止阀 Check Valve	1.50	CD85-04
5	弹簧 Spring	0.10	CD85-05
6	承压垫 Compression Buffer	0.42	CD85-06
7	配气座 Air Distributor	0.13	CD85-07
8	内缸 Internal Cylinder	8.60	CD85-08
9	活塞 Piston	41.0	CD85-09
10	外缸 External Cylinder	75.2	CD85-10
11	卡环O型圈 "O" Ring of Stop Ring	0.02	CD85-11
12	卡环 Stop Ring	1.20	CD85-12
13	卡钎套 Drive Chuck	17.5	CD85-13
14	钻头 Drill Bit		CD85-14

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

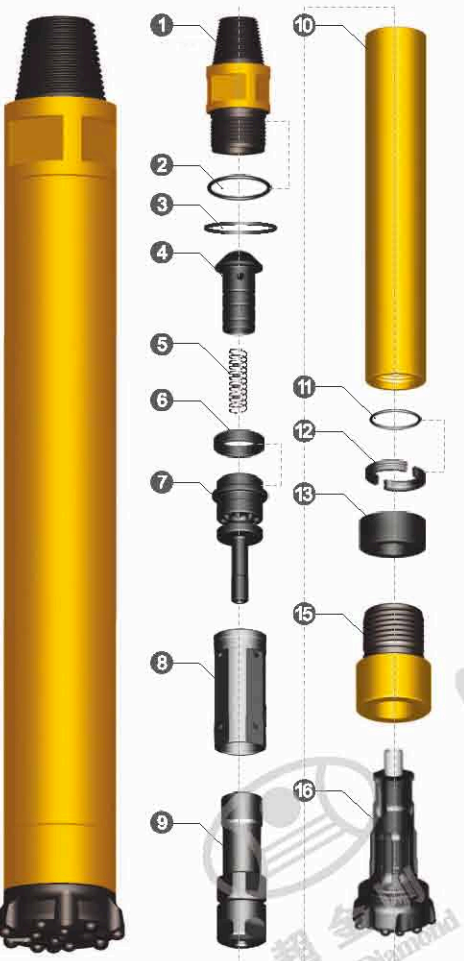
技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1492mm	186.9kg	Φ185mm	Cop84 DHD380 CD85	Φ195-Φ254	API 4 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	20HZ	20-30r/min	15m³/min	26m³/min	34m³/min

CSD8 潜孔冲击器

CSD8 DTH HAMMER

有尼龙管高风压冲击器系列
High Air Pressure DTH Hammers with foot valve



零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	41.0	CSD8-01
2	接头O形圈 "O"Ring of Top Sub	0.02	CSD8-02
3	接头垫片 Breakout Ring of Top Sub	0.20	CSD8-03
4	逆止阀 Check Valve	1.50	CSD8-04
5	弹簧 Spring	0.10	CSD8-05
6	承压垫 Compression Buffer	0.42	CSD8-06
7	配气座 Air Distributor	12.5	CSD8-07
8	内缸 Internal Cylinder	8.60	CSD8-08
9	活塞 Piston	42.0	CSD8-09
10	外缸 External Cylinder	85.0	CSD8-10
11	卡环O型圈 "O" Ring of Stop Ring	0.05	CSD8-11
12	卡环 Stop Ring	1.20	CSD8-12
13	衬套 Guided Sleeve	3.40	CSD8-13
14	卡钎套 Drive Chuck	15.5	CSD8-14
15	钻头 Drill Bit		CSD8-15

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

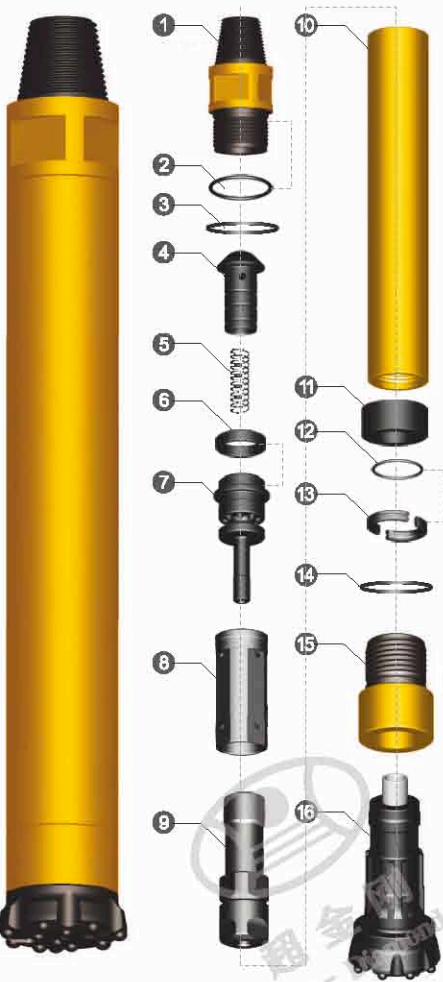
总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1463mm	192kg	Φ185mm	SD8 CSD8	Φ195-Φ254	API 4 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	20HZ	15-25r/min	15m³/min	26m³/min	34m³/min

CQL80 潜孔冲击器

CQL80 DTH HAMMER

有尼龙管高压冲击器系列

High Air Pressure DTH Hammers with foot valve



零部件名称	Part Description	重量	Weight (Kg)	零部件代号	Part Number
1	接头	Top Sub	41.00	CQL80-01	
2	接头O形圈	"O"Ring of Top Sub	0.02	CQL80-02	
3	接头垫片	Breakout Ring of Top Sub	0.30	CQL80-03	
4	逆止阀	Check Valve	1.50	CQL80-04	
5	弹簧	Spring	0.10	CQL80-05	
6	承压垫	Compression Buffer	0.42	CQL80-06	
7	配气座	Air Distributor	13.00	CQL80-07	
8	内缸	Internal Cylinder	8.60	CQL80-08	
9	活塞	Piston	41.00	CQL80-09	
10	外缸	External Cylinder	60.00	CQL80-10	
11	衬套	Guided Sleeve	2.20	CQL80-11	
12	卡环O型圈	"O" Ring of Stop Ring	0.02	CQL80-12	
13	卡环	Stop Ring	1.20	CQL80-13	
14	卡钎套垫片	Breakout Ring of Drive Chuck	0.30	CQL80-14	
15	卡钎套	Drive Chuck	12.00	CQL80-15	
16	钻头	Drill Bit		CQL80-16	

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。

According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

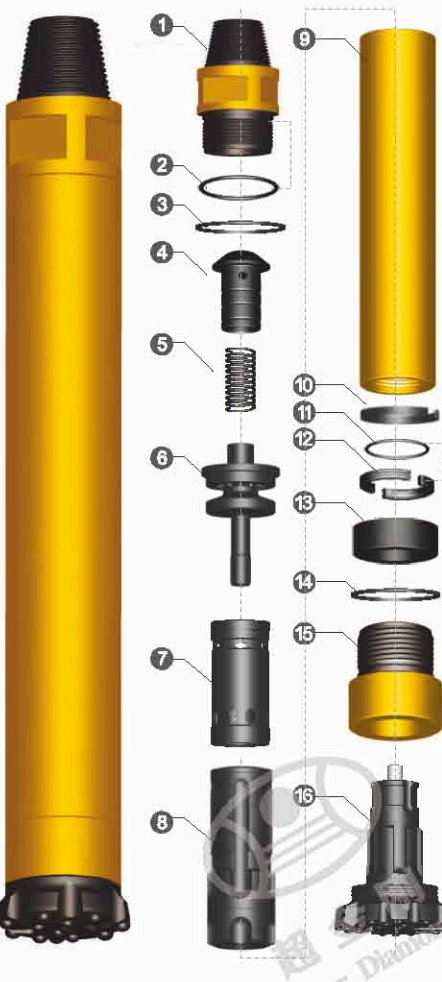
总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1465mm	182.00kg	Φ185mm	QL80 CQL80	Φ195-Φ254	API 4 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	20HZ	15-25r/min	15m³/min	26m³/min	34m³/min

CSD10 潜孔冲击器

CSD10 DTH HAMMER

有尼龙管高压冲击器系列

High Air Pressure DTH Hammers with foot valve



零部件名称	Part Description	重量	Weight (Kg)	零部件代号	Part Number
1	接头	Top Sub	59.00	CSD10-01	
2	接头O形圈	"O"Ring of Top Sub	0.03	CSD10-02	
3	接头垫片	Breakout Ring of Top Sub	0.30	CSD10-03	
4	逆止阀	Check Valve	1.40	CSD10-04	
5	弹簧	Spring	0.30	CSD10-05	
6	配气座	Air Distributor	11.50	CSD10-06	
7	内缸	Internal Cylinder	11.00	CSD10-07	
8	活塞	Piston	62.00	CSD10-08	
9	外缸	External Cylinder	110.00	CSD10-09	
10	挡环	Piston Retaining Ring	1.20	CSD10-10	
11	卡环O型圈	"O" Ring of Stop Ring	0.03	CSD10-11	
12	卡环	Stop Ring	1.60	CSD10-12	
13	衬套	Guided Sleeve	4.50	CSD10-13	
14	卡钎套垫片	Breakout Ring of Drive Chuck	0.30	CSD10-14	
15	卡钎套	Drive Chuck	24.00	CSD10-15	
16	钻头	Drill Bit		CSD10-16	

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。

According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1502mm	290.00kg	Φ225mm	SD10 CSD10	Φ254-Φ311	API 4 1/2" Reg API 5 1/2" Reg API 6 5/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	18HZ	15-25r/min	22m³/min	40m³/min	55m³/min

CN100 潜孔冲击器 CN100 DTH HAMMER

有尼龙管高压冲击器系列
High Air Pressure DTH Hammers with foot valve

1 接头 Top Sub 59.0 CN100-01
2 接头O形圈 "O"Ring of Top Sub 0.03 CN100-02
3 接头垫片 Breakout Ring of Top Sub 0.40 CN100-03
4 逆止阀 Check Valve 1.60 CN100-04
5 弹簧 Spring 0.30 CN100-05
6 配气座 Air Distributor 11.5 CN100-06
7 内缸 Internal Cylinder 11.0 CN100-07
8 活塞 Piston 62.0 CN100-08
9 外缸 External Cylinder 112.0 CN100-09
10 挡环 Piston Retaining Ring 1.20 CN100-10
11 卡环O型圈 "O" Ring of Stop Ring 0.03 CN100-11
12 卡环 Stop Ring 1.50 CN100-12
13 卡钎套垫片 Breakout Ring of Drive Chuck 0.40 CN100-13
14 卡钎套 Drive Chuck 26.0 CN100-14
15 钻头 Drill Bit CN100-15

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1510mm	288.00kg	Φ225mm	NUMA100 CN100	Φ254-Φ311	API 6 5/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	18HZ	15-25r/min	22m³/min	45m³/min	60m³/min

CSD12 潜孔冲击器 CSD12 DTH HAMMER

大口径潜孔冲击器系列 Big Size DTH Hammers

1 接头 Top Sub 70.0 CSD12-01
2 接头O形圈 "O"Ring of Top Sub 0.04 CSD12-02
3 接头垫片 Breakout Ring of Top Sub 0.80 CSD12-03
4 逆止阀 Check Valve 3.00 CSD12-04
5 弹簧 Spring 0.10 CSD12-05
6 配气座 Air Distributor 20.0 CSD12-06
7 内缸 Internal Cylinder 23.0 CSD12-07
8 活塞 Piston 125.0 CSD12-08
9 外缸 External Cylinder 170.0 CSD12-09
10 挡环 Piston Retaining Ring 1.50 CSD12-10
11 卡环O型圈 "O" Ring of Stop Ring 0.04 CSD12-11
12 卡环 Stop Ring 4.80 CSD12-12
13 衬套 Guided Sleeve 18.0 CSD12-13
14 卡钎套垫片 Breakout Ring of Drive Chuck 0.80 CSD12-14
15 卡钎套 Drive Chuck 51.0 CSD12-15
16 钻头 Drill Bit CSD12-16

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1880mm	487.00kg	Φ275mm	SD12 CSD12	Φ305-Φ445	API 6 5/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	16HZ	15-25r/min	30m³/min	56m³/min	78m³/min

无尼龙管高风压潜孔冲击器的特点

The Characteristics Of High Air Pressure DTH Hammers without foot valve

所配钻头无尼龙管的高风压潜孔冲击器是我公司最新设计的冲击器，是目前世界上最先进的冲击器之一。

It is a kind of high air pressure DTH Hammer without footvalve, our newest design. It is also one of the most advanced DTH Hammers in the world.

主要具有以下优点：

- 钻头不需要尼龙管，因而省去了尼龙管断裂、破损和热胀冷缩而引起的麻烦。
- 冲击能量损耗低，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。
- 耗风量低，省风省油，比同类型有尼龙管冲击器省油10%以上。

IT HAS THE FOLLOWING advantages:

- Out of the trouble of foot valve fracture and expansion and contraction.
- Lower energy consumption and higher impact frequency. The drilling speed is 15%-30% higher than the one with foot valve.
- Simple structure, reliable parts, long life, easy and cheap maintenance.
- Lower air and oil consumption. The oil consumption is about 10% lower than the one with foot valve.

无尼龙管高风压冲击器名称解释

Definition of High Air Pressure DTH Hammer without foot valve

例：CD45A

C—Chaojingang(超金刚)简称
D—所配钻头为DHD系列
4—表示冲击器的公称尺寸,4英寸冲击器
5—表示第五代冲击器
A—所配钻头无尼龙管

For Example:CD45A

C—Chaojingang(Our company name)
D—DHD Bit Shank
4—4” hammer
5—The Fifth Generation Hammer
A—Bit without foot valve

例2：CQL50A

C—Chaojingang(超金刚)简称
QL50—可与QL50钻头相配
A—所配钻头无尼龙管
★ S—冲击器外径比标准冲击器外径小

For Example:CQL50A

C—Chaojingang(Our company name)
QL50—QL50 Bit Shank
A—Bit without foot valve
★ S—Smaller size than general DTH Hammer

CD25A 潜孔冲击器 CD25A DTH HAMMER

无尼龙管高风压冲击器系列 High Air Pressure DTH Hammers without foot valve		零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
	1	接头 Top Sub	3.10	CD25A-01
	2	逆止阀 Check Valve	0.10	CD25A-02
	3	弹簧 Spring	0.05	CD25A-03
	4	配气座 Air Distributor	0.60	CD25A-04
	5	内缸 Internal Cylinder	0.80	CD25A-05
	6	活塞 Piston	3.80	CD25A-06
	7	外缸 External Cylinder	6.30	CD25A-07
	8	衬套 Guided Sleeve	0.60	CD25A-08
	9	卡环O形圈 "O" Ring Stop Ring	0.005	CD25A-09
	10	卡环 Stop Ring	0.10	CD25A-10
	11	卡钎套 Drive Chuck	1.40	CD25A-11
	12	钻头 Drill Bit		CD25A-12

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigh(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
872mm	16.9kg	Φ71mm	CD25A	Φ76-Φ90	T42x10x1.5 T48x10
可用工作风压 Working Pressure	在1.5Mpa时的冲击频率 Impact rate at 1.5Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa		1.5Mpa
1.0-1.5Mpa	25HZ	22-35r/min	4m³/min		6m³/min

CD35A 潜孔冲击器 CD35A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve

零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	4.20	CD35A-01
2	接头O形圈 "O"Ring of Top Sub	0.01	CD35A-02
3	逆止阀 Check Valve	0.20	CD35A-03
4	弹簧 Spring	0.02	CD35A-04
5	配气座 Air Distributor	0.80	CD35A-05
6	内缸 Internal Cylinder	1.30	CD35A-06
7	活塞 Piston	5.50	CD35A-07
8	外缸 External Cylinder	10.0	CD35A-08
9	衬套 Guided Sleeve	1.00	CD35A-09
10	卡环O型圈 "O" Ring of Stop Ring	0.05	CD35A-10
11	卡环 Stop Ring	0.15	CD35A-11
12	卡钎套 Drive Chuck	1.90	CD35A-12
13	钻头 Drill Bit		CD35A-13

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。

According to your request, the top sub can be made into four spanners, and put protection buttons

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
888mm	25.1kg	Φ82mm	CD35A	Φ90-Φ105	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.5Mpa时的 冲击频率 Impact rate at 1.5Mpa	推荐转速 Recommended rotation speed		耗风量 Air consumption	
				1.0Mpa	1.5Mpa
1.0-1.5Mpa	25HZ	25-40r/min		3.8m³/min	7.5m³/min

CM30A 潜孔冲击器 CM30A DTH HAMMER

无尼龙管高风压冲击器系列
High Air Pressure DTH Hammers without foot valve

零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	4.20	CM30A-01
2	接头O形圈 "O" Ring of Top Sub	0.01	CM30A-02
3	逆止阀 Check Valve	0.20	CM30A-03
4	弹簧 Spring	0.02	CM30A-04
5	配气座 Air Distributor	0.80	CM30A-05
6	内缸 Internal Cylinder	1.30	CM30A-06
7	活塞 Piston	5.50	CM30A-07
8	外缸 External Cylinder	10.0	CM30A-08
9	衬套 Guided Sleeve	1.00	CM30A-09
10	卡环O形圈 "O" Ring of Stop Ring	0.05	CM30A-10
11	卡环 Stop Ring	0.15	CM30A-11
12	卡钎套 Drive Chuck	1.90	CM30A-12
13	钻头 Drill Bit		CM30A-13

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weight(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
888mm	25.1kg	Φ82mm	Mission30 CM30A	Φ90-Φ105	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.5Mpa时的 冲击频率 Impact rate at 1.5Mpa	推荐转速 Recommended rotation speed		耗风量 Air consumption	
				1.0Mpa	1.5Mpa
1.0-1.5Mpa	25HZ	25-40r/min		3.8m³/min	7.5m³/min

CD45A 潜孔冲击器 CD45A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve

零件名称
Part Description

重量
Weight
(Kg)

零件代号
Part Number

1	接头	Top Sub	6.50	CD45A-01
2	接头O形圈	"O"Ring of Top Sub	0.01	CD45A-02
3	逆止阀	Check Valve	0.35	CD45A-03
4	弹簧	Spring	0.05	CD45A-04
5	配气座	Air Distributor	1.20	CD45A-05
6	内缸	Internal Cylinder	2.10	CD45A-06
7	活塞	Piston	8.50	CD45A-07
8	外缸	External Cylinder	15.2	CD45A-08
9	衬套	Guided Sleeve	1.30	CD45A-09
10	卡环O型圈	"O" Ring of Stop Ring	0.01	CD45A-10
11	卡环	Stop Ring	0.30	CD45A-11
12	卡钎套	Drive Chuck	3.40	CD45A-12
13	钻头	Drill Bit		CD45A-13

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1011mm	38.9kg	φ99mm	Cop44 DHD340 CD45A	Φ110-Φ130	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	30HZ	22-35r/min	6m³/min	10m³/min	15m³/min

CD45S 潜孔冲击器 CD45S DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve

零件名称
Part Description

重量
Weight
(Kg)

零件代号
Part Number

1	接头	Top Sub	6.00	CD45S-01
2	接头O形圈	"O"Ring of Top Sub	0.01	CD45S-02
3	逆止阀	Check Valve	0.30	CD45S-03
4	弹簧	Spring	0.05	CD45S-04
5	配气座	Air Distributor	1.30	CD45S-05
6	内缸	Internal Cylinder	1.90	CD45S-06
7	活塞	Piston	7.80	CD45S-07
8	外缸	External Cylinder	14.6	CD45S-08
9	衬套	Guided Sleeve	1.20	CD45S-09
10	卡环O型圈	"O" Ring of Stop Ring	0.005	CD45S-10
11	卡环	Stop Ring	0.20	CD45S-11
12	卡钎套	Drive Chuck	3.40	CD45S-12
13	钻头	Drill Bit		CD45S-13

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
986mm	36.8kg	φ92mm	Cop44 DHD340 CD45A	Φ102-Φ120	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	30HZ	25-40r/min	5m³/min	8m³/min	13m³/min

CM40A 潜孔冲击器 CM40A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve

序号	零件名称	Part Description	重量 Weight (Kg)	零件代号 Part Number
1	接头	Top Sub	6.50	CM40A-01
2	接头O形圈	"O"Ring of Top Sub	0.01	CM40A-02
3	逆止阀	Check Valve	0.35	CM40A-03
4	弹簧	Spring	0.05	CM40A-04
5	配气座	Air Distributor	1.20	CM40A-05
6	内缸	Internal Cylinder	2.10	CM40A-06
7	活塞	Piston	8.50	CM40A-07
8	外缸	External Cylinder	14.8	CM40A-08
9	衬套	External Cylinder	1.80	CM40A-09
10	卡环O型圈	"O" Ring of Stop Ring	0.005	CM40A-10
11	卡环	Stop Ring	0.30	CM40A-11
12	卡钎套	Drive Chuck	3.80	CM40A-12
13	钻头	Drill Bit		CM40A-13

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1005mm	39.4kg	Φ99mm	Mission40 CM40A	Φ110-Φ130	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	30HZ	25-40r/min	5m³/min	9m³/min	14m³/min

CQL40A 潜孔冲击器 HQL40A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve

序号	零件名称	Part Description	重量 Weight (Kg)	零件代号 Part Number
1	接头	Top Sub	8.50	CQL40A-01
2	接头O形圈	"O"Ring of Top Sub	0.01	CQL40A-02
3	逆止阀	Check Valve	0.35	CQL40A-03
4	弹簧	Spring	0.05	CQL40A-04
5	配气座	Compression Buffer	1.50	CQL40A-05
6	内缸	Air Distributor	2.10	CQL40A-06
7	活塞	Internal Cylinder	8.50	CQL40A-07
8	外缸	Piston	15.20	CQL40A-08
9	衬套	External Cylinder	1.80	CQL40A-09
10	卡环O型圈	"O" Ring of Stop Ring	0.005	CQL40A-10
11	卡环	Stop Ring	0.20	CQL40A-11
12	卡钎套	Drive Chuck	3.20	CQL40A-12
13	钻头	Drill Bit		CQL40A-13

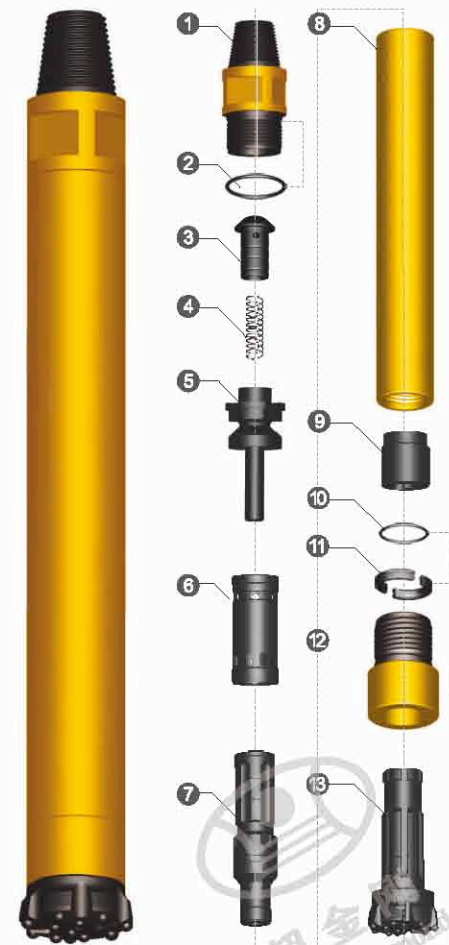
如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1070mm	40.00kg	Φ99mm	QI40 CQL40A	Φ110-Φ130	API 2 3/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	30HZ	25-40r/min	5m³/min	9m³/min	14m³/min

CD55A 潜孔冲击器 CD55A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve



序号	零件名称	Part Description	重量 Weight (Kg)	零件代号 Part Number
1	接头	Top Sub	13.70	CD55A-01
2	接头O形圈	"O"Ring of Top Sub	0.015	CD55A-02
3	逆止阀	Check Valve	0.70	CD55A-03
4	弹簧	Spring	0.10	CD55A-04
5	配气座	Air Distributor	2.00	CD55A-05
6	内缸	Internal Cylinder	2.80	CD55A-06
7	活塞	Piston	15.00	CD55A-07
8	外缸	External Cylinder	22.30	CD55A-08
9	衬套	Guided Sleeve	2.60	CD55A-09
10	卡环O型圈	"O"Ring of Stop Ring	0.01	CD55A-10
11	卡环	Stop Ring	0.50	CD55A-11
12	卡钎套	Drive Chuck	6.50	CD55A-12
13	钻头	Drill Bit		CD55A-13

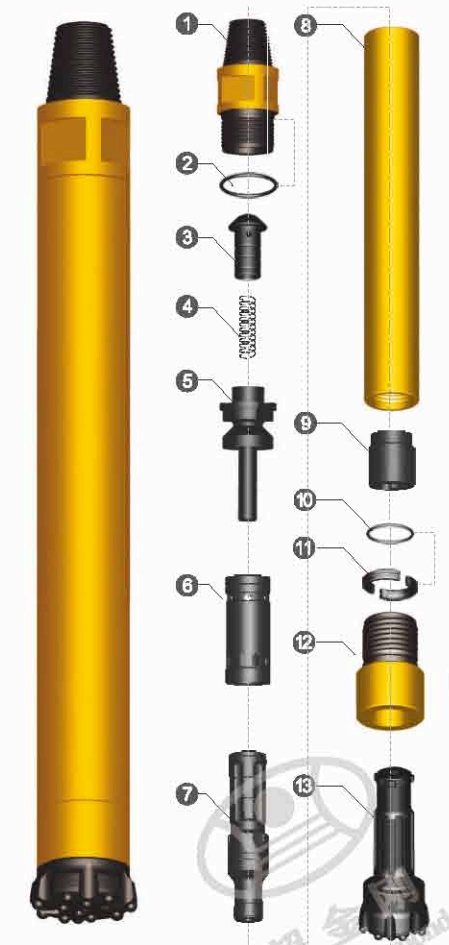
如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1110mm	66.2kg	Φ125mm	Cop54 DHD350R CD55A	Φ135-Φ155	API 2 3/8" Reg API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	28HZ	20-35r/min	7m³/min	14m³/min	19m³/min

CD55S 潜孔冲击器 CD55S DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve



序号	零件名称	Part Description	重量 Weight (Kg)	零件代号 Part Number
1	接头	Top Sub	13.3	CD55S-01
2	接头O形圈	"O"Ring of Top Sub	0.015	CD55S-02
3	逆止阀	Check Valve	0.70	CD55S-03
4	弹簧	Spring	0.10	CD55S-04
5	配气座	Compression Buffer	1.90	CD55S-05
6	内缸	Air Distributor	2.70	CD55S-06
7	活塞	Internal Cylinder	14.5	CD55S-07
8	外缸	Piston	23.0	CD55S-08
9	衬套	External Cylinder	2.50	CD55S-09
10	卡环O型圈	"O" Ring of Stop Ring	0.01	CD55S-10
11	卡环	Stop Ring	0.50	CD55S-11
12	卡钎套	Drive Chuck	6.20	CD55S-12
13	钻头	Drill Bit		CD55S-13

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1110mm	65.4kg	Φ116mm	Cop54 DHD350R CD55A	Φ127-Φ145	API 2 3/8" Reg API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	28HZ	20-35r/min	7m³/min	13m³/min	18m³/min

CM50A 潜孔冲击器 CM50A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve

零部件名称
Part Description

重量
Weight
(Kg)

零部件代号
Part Number

1	接头	Top Sub	13.7	CM50A-01
2	接头O形圈	"O"Ring of Top Sub	0.015	CM50A-02
3	逆止阀	Check Valve	0.70	CM50A-03
4	弹簧	Spring	0.10	CM50A-04
5	配气座	Air Distributor	2.00	CM50A-05
6	内缸	Internal Cylinder	2.80	CM50A-06
7	活塞	Piston	15.0	CM50A-07
8	外缸	External Cylinder	22.3	CM50A-08
9	衬套	Guided Sleeve	2.60	CM50A-09
10	卡环O型圈	"O"Ring of Stop Ring	0.01	CM50A-10
11	卡环	Stop Ring	0.70	CM50A-11
12	卡钎套	Drive Chuck	6.50	CM50A-12
13	钻头	Drill Bit		CM50A-13

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。

According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1110mm	66.4kg	Φ125mm	Mission50 CM50A	Φ135-Φ155	API 2 3/8" Reg API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	28HZ	20-35r/min	7m³/min	14m³/min	19m³/min

CSD5A 潜孔冲击器 CSD5A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve

零部件名称
Part Description

重量
Weight
(Kg)

零部件代号
Part Number

1	接头	Top Sub	13.70	CSD5A-01
2	接头O形圈	"O"Ring of Top Sub	0.015	CSD5A-02
3	逆止阀	Check Valve	0.70	CSD5A-03
4	弹簧	Spring	0.10	CSD5A-04
5	配气座	Compression Buffer	2.00	CSD5A-05
6	内缸	Air Distributor	2.80	CSD5A-06
7	活塞	Internal Cylinder	15.00	CSD5A-07
8	外缸	Piston	24.00	CSD5A-08
9	衬套	External Cylinder	2.80	CSD5A-09
10	卡环O型圈	"O" Ring of Stop Ring	0.01	CSD5A-10
11	卡环	Stop Ring	0.50	CSD5A-11
12	卡钎套	Drive Chuck	7.50	CSD5A-12
13	钻头	Drill Bit		CSD5A-13

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。

According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1090mm	70.00kg	Φ125mm	SD5 CSD5A	Φ135-Φ155	API 2 3/8" Reg API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	28HZ	20-35r/min	7m³/min	14m³/min	19m³/min

CQL50A 潜孔冲击器 CQL50A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve

零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	13.7	CQL50A-01
2	接头O形圈 "O"Ring of Top Sub	0.015	CQL50A-02
3	逆止阀 Check Valve	0.70	CQL50A-03
4	弹簧 Spring	0.10	CQL50A-04
5	配气座 Air Distributor	2.00	CQL50A-05
6	内缸 Internal Cylinder	2.70	CQL50A-06
7	活塞 Piston	15.0	CQL50A-07
8	外缸 External Cylinder	22.3	CQL50A-08
9	衬套 Guided Sleeve	3.00	CQL50A-09
10	卡环O型圈 "O"Ring of Stop Ring	0.01	CQL50A-10
11	卡环 Stop Ring	0.40	CQL50A-11
12	卡钎套 Drive Chuck	4.50	CQL50A-12
13	钻头 Drill Bit		CQL50A-13

如客户需要，接头可采用两个方口，并在接头上装耐磨合金。

According to your request, the top sub can be made into two spanners, and put protection buttons.

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1090mm	64.4kg	Φ125mm	Q150 COP54 Gold CQL50A	Φ135-Φ155	API 2 3/8" Reg API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	28HZ	20-35r/min	7m³/min	14m³/min	19m³/min

CD65A 潜孔冲击器 CD65A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve

零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number	
1	接头	Top Sub	20.0	CD65A-01
2	接头O形圈	"O"Ring of Top Sub	0.02	CD65A-02
3	逆止阀	Check Valve	0.70	CD65A-03
4	弹簧	Spring	0.10	CD65A-04
5	配气座	Air Distributor	3.50	CD65A-05
6	内缸	Internal Cylinder	4.20	CD65A-06
7	活塞	Piston	23.0	CD65A-07
8	外缸	External Cylinder	40.1	CD65A-08
9	衬套	Guided Sleeve	6.50	CD65A-09
10	卡环O型圈	"O" Ring of Stop Ring	0.01	CD65A-10
11	卡环	Stop Ring	0.60	CD65A-11
12	卡钎套	Drive Chuck	6.00	CD65A-12
13	钻头	Drill Bit		CD65A-13

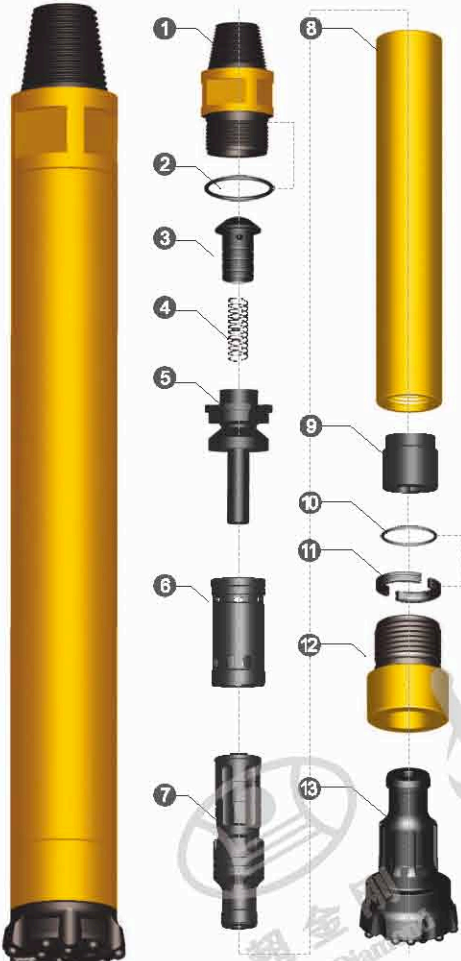
如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1238mm	104.7kg	Φ148mm	Cop64 DHD360 CD65A	Φ155-Φ190	API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	25HZ	20-30r/min	9m³/min	18m³/min	26m³/min

CM60A 潜孔冲击器 CM60A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve



序号	零件名称	Part Description	重量 Weight (Kg)	零件代号 Part Number
1	接头	Top Sub	20.0	CM60A-01
2	接头O形圈	"O"Ring of Top Sub	0.015	CM60A-02
3	逆止阀	Check Valve	0.70	CM60A-03
4	弹簧	Spring	0.10	CM60A-04
5	配气座	Air Distributor	3.50	CM60A-05
6	内缸	Internal Cylinder	4.20	CM60A-06
7	活塞	Piston	23.0	CM60A-07
8	外缸	External Cylinder	35.0	CM60A-08
9	衬套	Guided Sleeve	4.80	CM60A-09
10	卡环O形圈	"O"Ring of Stop Ring	0.01	CM60A-10
11	卡环	Stop Ring	0.80	CM60A-11
12	卡钎套	Drive Chuck	4.20	CM60A-12
13	钻头	Drill Bit		CM60A-13

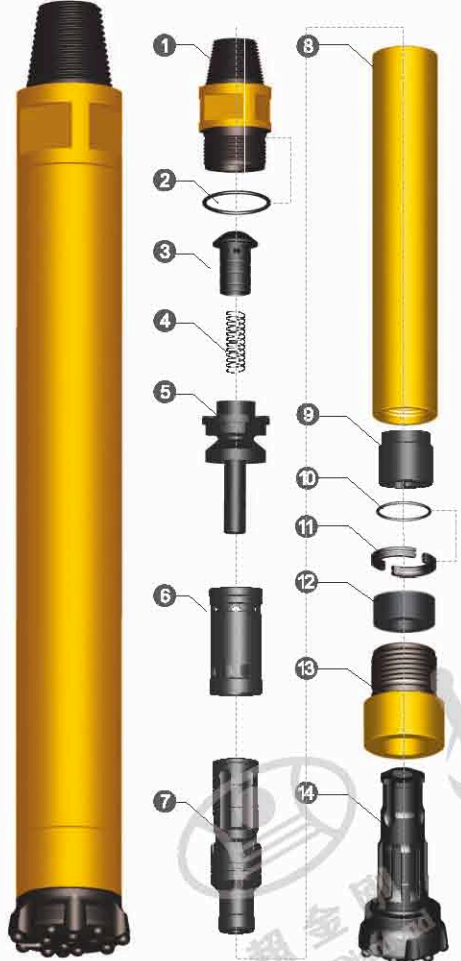
如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1161mm	96.3kg	Φ148mm	Mission60 CM60A	Φ155-Φ190	API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	25HZ	20-30r/min	9m³/min	18m³/min	26m³/min

CSD6A 潜孔冲击器 CSD6A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve



序号	零件名称	Part Description	重量 Weight (Kg)	零件代号 Part Number
1	接头	Top Sub	20.00	CSD6A-01
2	接头O形圈	"O"Ring of Top Sub	0.015	CSD6A-02
3	逆止阀	Check Valve	0.70	CSD6A-03
4	弹簧	Spring	0.10	CSD6A-04
5	配气座	Compression Buffer	3.50	CSD6A-05
6	内缸	Air Distributor	4.20	CSD6A-06
7	活塞	Internal Cylinder	23.00	CSD6A-07
8	外缸	Piston	28.00	CSD6A-08
9	衬套	External Cylinder	2.50	CSD6A-09
10	卡环O形圈	"O" Ring of Stop Ring	0.01	CSD6A-10
11	卡环	Stop Ring	0.50	CSD6A-11
12	导向套	Guidance Package	4.50	CSD6A-12
13	卡钎套	Drive Chuck	7.50	CSD6A-13
14	钻头	Drill Bit		

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1182mm	90.00kg	Φ148mm	SD6 CSD6A	Φ155-Φ190	API 3 1/2 "Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	25HZ	20-30r/min	9m³/min	18m³/min	26m³/min

CQL60A 潜孔冲击器 CQL60A DTH HAMMER

无尼龙管高压冲击器系列 High Air Pressure DTH Hammers without foot valve	零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
	1 接头 Top Sub	20.00	CQL60A-01
	2 接头O形圈 "O" Ring of Top Sub	0.015	CQL60A-02
	3 逆止阀 Check Valve	0.70	CQL60A-03
	4 弹簧 Spring	0.10	CQL60A-04
	5 配气座 Air Distributor	3.50	CQL60A-05
	6 内缸 Internal Cylinder	4.20	CQL60A-06
	7 活塞 Piston	23.00	CQL60A-07
	8 外缸 External Cylinder	30.00	CQL60A-08
	9 衬套 Guided Sleeve	4.00	CQL60A-09
	10 卡环O形圈 "O" Ring of Stop Ring	0.01	CQL60A-10
	11 卡环 Stop Ring	0.60	CQL60A-11
	12 卡钎套 Drive Chuck	5.50	CQL60A-12
	13 钻头 Drill Bit		CQL60A-13
如客户需要，接头可采用四个方口，并在接头上装耐磨合金。 According to your request, the top sub can be made into four spanners, and put protection buttons.			

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1183mm	92.00kg	Φ148mm	COP64 Gold QL60 CQL60A	Φ155-Φ190	API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	25HZ	20-30r/min	9m³/min	18m³/min	26m³/min

CW7-X 潜孔冲击器 CW7-X DTH HAMMER

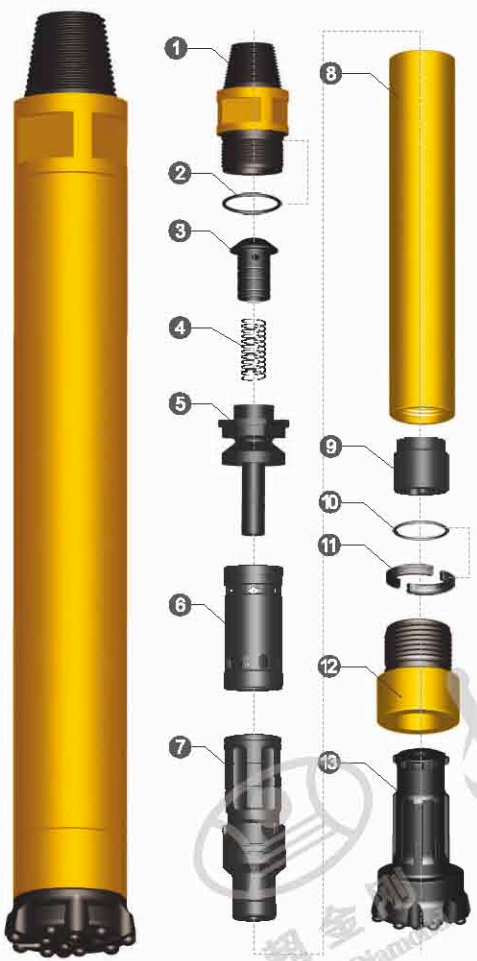
无尼龙管高压冲击器系列 High Air Pressure DTH Hammers without foot valve	零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
	1 接头 Top Sub	25.0	CW7-X-01
	2 接头O形圈 "O" Ring of Top Sub	0.02	CW7-X-02
	3 逆止阀 Check Valve	0.70	CW7-X-03
	4 弹簧 Spring		CW7-X-04
	5 配气座 Air Distributor	0.10	CW7-X-05
	6 内缸 Internal Cylinder	4.70	CW7-X-06
	7 活塞 Piston	5.30	CW7-X-07
	8 外缸 External Cylinder	33.5	CW7-X-08
	9 挡环 Piston Retaining Ring	42.0	CW7-X-09
	10 衬套 Guided Sleeve		CW7-X-10
	11 挡丝 Piston Retaining Ring	0.30	CW7-X-11
	12 卡环 Stop Ring	5.45	CW7-X-12
	13 卡钎套 Drive Chuck	0.10	CW7-X-13
	14 钻头 Drill Bit		CW7-X-14
如客户需要，接头可采用四个方口，并在接头上装耐磨合金。 According to your request, the top sub can be made into four spanners, and put protection buttons.			

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1188mm	163.5Kg	Φ165mm	CW7-X	Φ175-Φ203	API 3 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-2.5Mpa	25HZ	20-30r/min	11m³/min	20m³/min	27m³/min

CD85A 潜孔冲击器 CD85A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve



序号	零件名称	Part Description	重量	Weight (Kg)	零件代号	Part Number
1	接头	Top Sub	34.00		CD85A-01	
2	接头O形圈	"O"Ring of Top Sub	0.015		CD85A-02	
3	逆止阀	Check Valve	1.20		CD85A-03	
4	弹簧	Spring	0.10		CD85A-04	
5	配气座	Air Distributor	6.00		CD85A-05	
6	内缸	Internal Cylinder	6.50		CD85A-06	
7	活塞	Piston	42.50		CD85A-07	
8	外缸	External Cylinder	60.00		CD85A-08	
9	衬套	Guided Sleeve	5.30		CD85A-09	
10	卡环O型圈	"O"Ring of Stop Ring	0.10		CD85A-10	
11	卡环	Stop Ring	1.20		CD85A-11	
12	卡钎套	Drive Chuck	17.50		CD85A-12	
13	钻头	Drill Bit			CD85A-13	

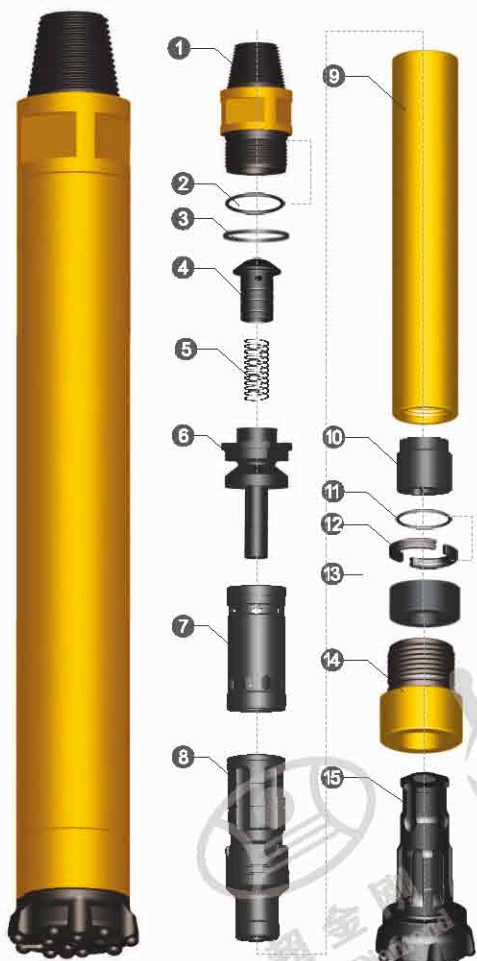
如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1359mm	175.00kg	Φ185mm	Cop84 DHD380 CD85A	Φ195-Φ254	API 4 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的冲击频率 Impact rats at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-3.0Mpa	22HZ	15-25r/min	12m³/min	22m³/min	28m³/min

CSD8A 潜孔冲击器 CSD8A DTH HAMMER

无尼龙管高压冲击器系列
High Air Pressure DTH Hammers without foot valve



序号	零件名称	Part Description	重量	Weight (Kg)	零件代号	Part Number
1	接头	Top Sub	34.00		CSD8A-01	
2	接头O形圈	"O"Ring of Top Sub	0.015		CSD8A-02	
3	接头垫片	Breakout Ring of Top Sub	0.20		CSD8A-03	
4	逆止阀	Check Valve	1.20		CSD8A-04	
5	弹簧	Spring	0.10		CSD8A-05	
6	配气座	Air Distributor	6.00		CSD8A-06	
7	内缸	Internal Cylinder	6.50		CSD8A-07	
8	活塞	Piston	42.50		CSD8A-08	
9	外缸	External Cylinder	59.00		CSD8A-09	
10	衬套	Guided Sleeve	6.00		CSD8A-10	
11	卡环O型圈	"O"Ring of Stop Ring	0.01		CSD8A-11	
12	卡环	Stop Ring	1.20		CSD8A-12	
13	导向套	Guided Case	3.80		CSD8A-13	
14	卡钎套	Drive Chuck	16.00		CSD8A-14	
15	钻头	Drill Bit			CSD8A-15	

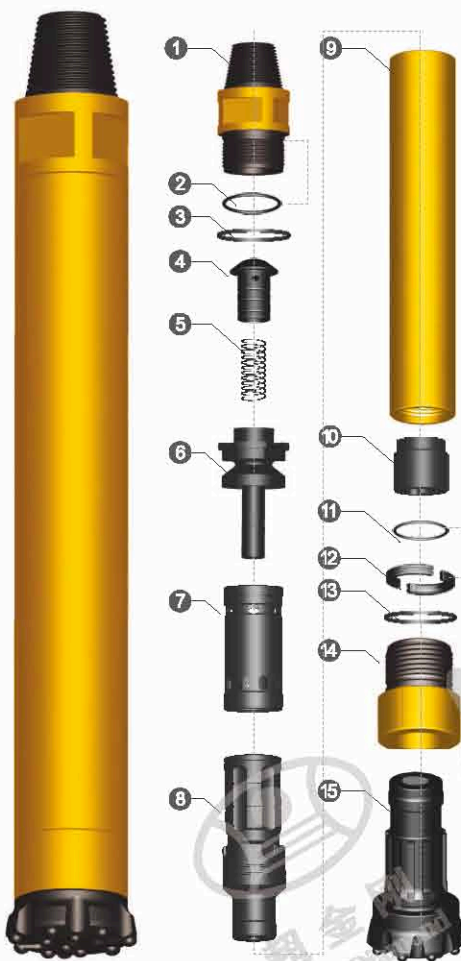
如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1330mm	174.00Kg	Φ185mm	SD8 CSD8A	Φ195-Φ254	API 4 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	1.7Mpa
1.0-3.0Mpa	22HZ	15-25r/min	12m³/min	22m³/min	28m³/min

CQL80A 潜孔冲击器 CQL80A DTH HAMMER

无尼龙管高风压冲击器系列
High Air Pressure DTH Hammers without foot valve



零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	34.00	CQL80A-01
2	接头O形圈 "O"Ring of Top Sub	0.015	CQL80A-02
3	接头垫片 Breakout Ring	0.30	CQL80A-03
4	逆止阀 Check Valve	1.20	CQL80A-04
5	弹簧 Spring	0.10	CQL80A-05
6	配气座 Air Distributor	6.00	CQL80A-06
7	内缸 Internal Cylinder	6.50	CQL80A-07
8	活塞 Piston	42.50	CQL80A-08
9	外缸 External Cylinder	59.00	CQL80A-09
10	衬套 Guided Sleeve	6.30	CQL80A-10
11	卡环O型圈 "O"Ring of Stop Ring	0.01	CQL80A-11
12	卡环 Stop Ring	1.40	CQL80A-12
13	卡钎套垫片 Breakout Ring	0.30	CQL80A-13
14	卡钎套 Drive Chuck	13.00	CQL80A-14
15	钻头 Drill Bit		CQL80A-15

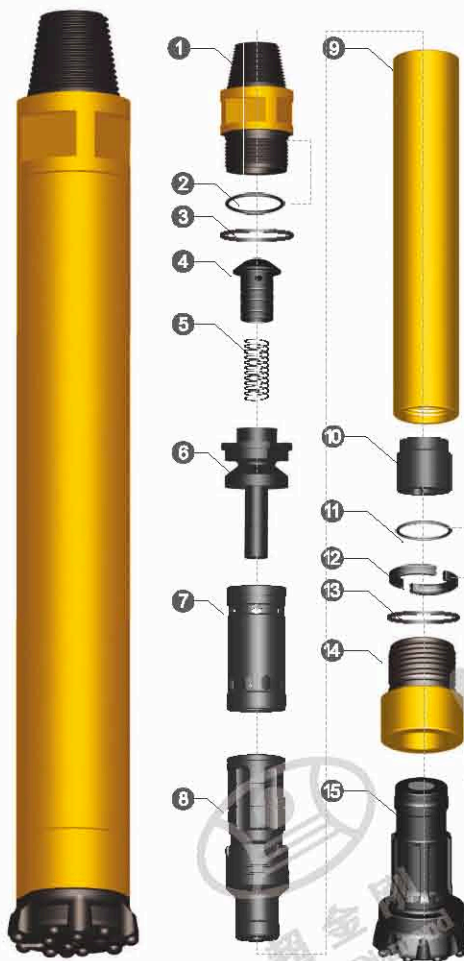
如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1330mm	171.00kg	Φ185mm	QL80 CQL80A	Φ195-Φ254	API 4 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的冲击频率 Impact rats at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-3.0Mpa	22HZ	15-25r/min	12m³/min	22m³/min	28m³/min

CQL90A 潜孔冲击器 CQL90A DTH HAMMER

无尼龙管高风压冲击器系列
High Air Pressure DTH Hammers without foot valve



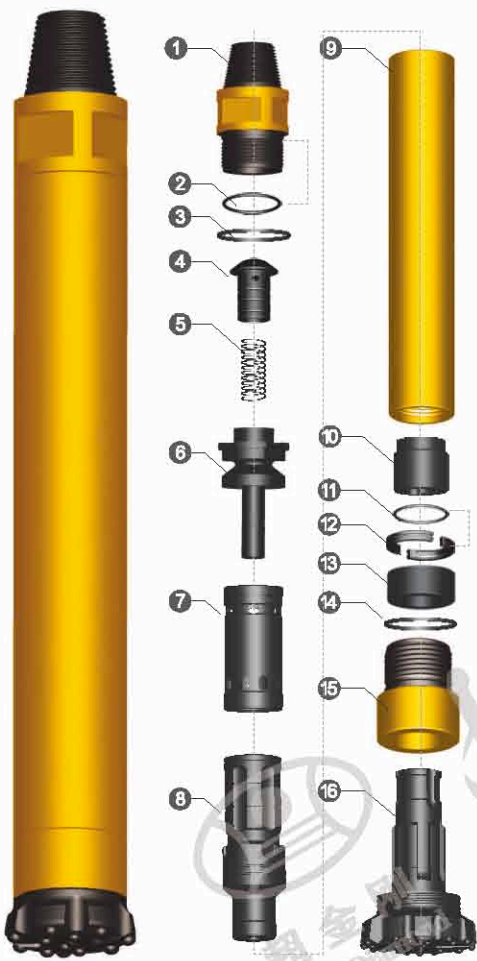
零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	35.00	CQL90A-01
2	接头O形圈 "O"Ring of Top Sub	0.01	CQL90A-02
3	接头垫片 Breakout Ring of Top Sub	0.40	CQL90A-03
4	逆止阀 Check Valve	1.20	CQL90A-04
5	弹簧 Spring	0.10	CQL90A-05
6	配气座 Air Distributor	7.00	CQL90A-06
7	内缸 Internal Cylinder	7.50	CQL90A-07
8	活塞 Piston	48.00	CQL90A-08
9	外缸 External Cylinder	75.00	CQL90A-09
10	衬套 Guided Sleeve	12.00	CQL90A-10
11	卡环O型圈 "O"Ring of Stop Ring	0.01	CQL90A-11
12	卡环 Stop Ring	1.70	CQL90A-12
13	卡钎套垫片 Breakout Ring of Drive Chuck	0.40	CQL90A-13
14	卡钎套 Drive Chuck	15.00	CQL90A-14
15	钻头 Drill Bit		CQL90A-15

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长（不含钻头） Length(Without bit)	总重（不含钻头） Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1340mm	203.00Kg	Φ203mm	QL80 CQL80A	Φ216-Φ254	API 4 1/2" Reg
可用工作风压 Working Pressure	在1.7Mpa时的冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-3.0Mpa	22HZ	15-25r/min	16m³/min	28m³/min	39m³/min

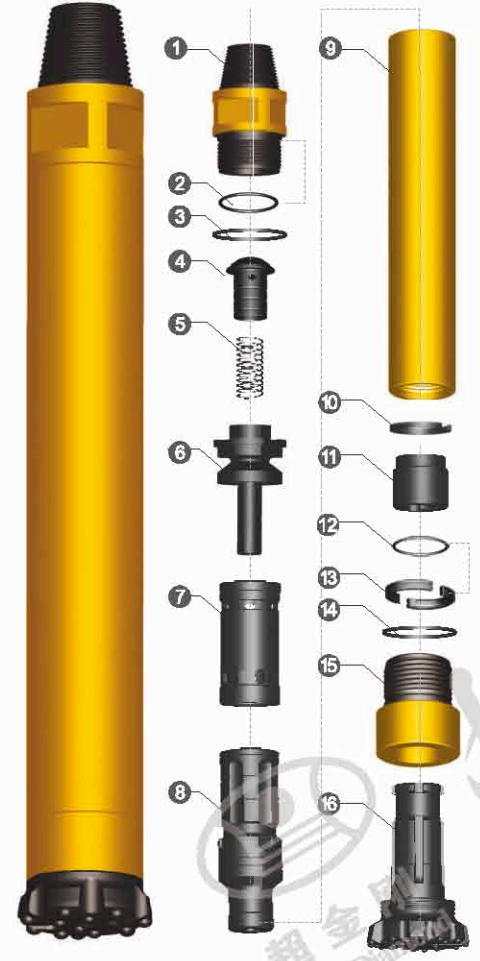
CSD10A 潜孔冲击器 CSD10A DTH HAMMER

无尼龙管高压冲击器系列 High Air Pressure DTH Hammers without foot valve		零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
	1	接头 Top Sub	59.00	CSD10A-01
	2	接头O形圈 "O"Ring of Top Sub	0.03	CSD10A-02
	3	接头垫片 Breakout Ring of Top Sub	0.50	CSD10A-03
	4	逆止阀 Check Valve	1.40	CSD10A-04
	5	弹簧 Spring	0.30	CSD10A-05
	6	配气座 Air Distributor	10.50	CSD10A-06
	7	内缸 Internal Cylinder	12.50	CSD10A-07
	8	活塞 Piston	77.00	CSD10A-08
	9	外缸 External Cylinder	110.00	CSD10A-09
	10	衬套 Guided Sleeve	11.50	CSD10A-10
	11	卡环O型圈 "O"Ring of Stop Ring	0.01	CSD10A-11
	12	卡环 Stop Ring	1.50	CSD10A-12
	13	导向套 Guidance Package	10.50	CSD10A-13
	14	卡钎套垫片 Breakout Ring of Drive Chuck	0.50	CSD10A-14
	15	卡钎套 Drive Chuck	31.50	CSD10A-15
	16	钻头 Drill Bit		CSD10A-16
如客户需要，接头可采用四个方口，并在接头上装耐磨合金。 According to your request, the top sub can be made into four spanners, and put protection buttons.				

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1525mm	316.00kg	Φ225mm	SD10 CSD10A	Φ254-Φ311	API 6 5/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的冲击频率 Impact rats at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-3.0Mpa	20HZ	15-25r/min	22m³/min	40m³/min	65m³/min

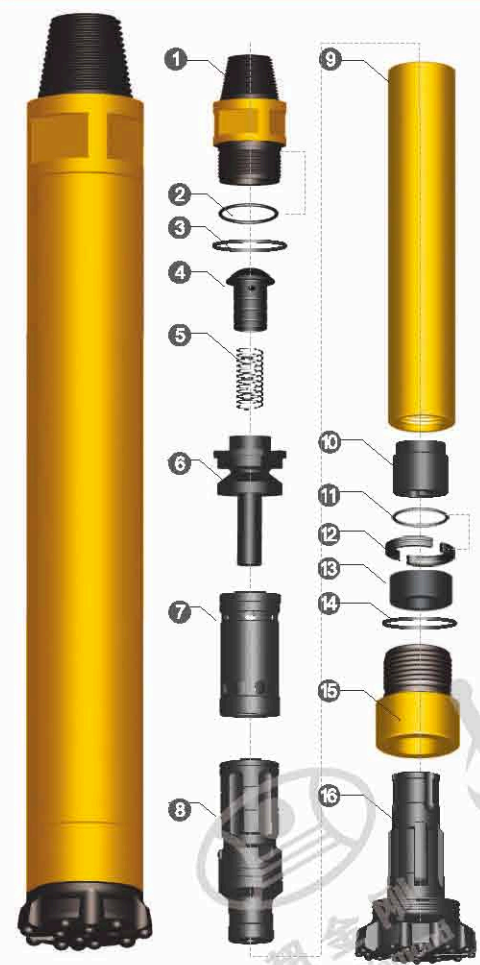
CN100A 潜孔冲击器 CN100A DTH HAMMER

无尼龙管高压冲击器系列 High Air Pressure DTH Hammers without foot valve		零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
	1	接头 Top Sub	59.0	CN100A-01
	2	接头O形圈 "O"Ring of Top Sub	0.03	CN100A-02
	3	接头垫片 Breakout Ring of Top Sub	0.40	CN100A-03
	4	逆止阀 Check Valve	1.60	CN100A-04
	5	弹簧 Spring	0.30	CN100A-05
	6	配气座 Air Distributor	11.5	CN100A-06
	7	内缸 Internal Cylinder	11.0	CN100A-07
	8	活塞 Piston	62.0	CN100A-08
	9	外缸 External Cylinder	112.0	CN100A-09
	10	挡环 Piston Retaining Ring	0.20	CN100A-10
	11	衬套 Guided Sleeve	4.50	CN100A-11
	12	卡环O型圈 "O"Ring of Stop Ring	0.03	CN100A-12
	13	卡环 Stop Ring	1.50	CN100A-13
	14	卡钎套垫片 Breakout Ring of Drive Chuck	0.40	CN100A-14
	15	卡钎套 Drive Chuck	26.0	CN100A-15
	16	钻头 Drill Bit		CN100A-16
如客户需要，接头可采用四个方口，并在接头上装耐磨合金。 According to your request, the top sub can be made into four spanners, and put protection buttons.				

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1545mm	290.3Kg	Φ225mm	NUMA100 CN100A	Φ254-Φ311	API 4 1/2" Reg API 5 1/2" Reg API 6 5/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.2Mpa	1.8Mpa	2.4Mpa
1.2-3.0Mpa	20HZ	15-25r/min	22m³/min	45m³/min	60m³/min

CSD12A 潜孔冲击器 CSD12A DTH HAMMER

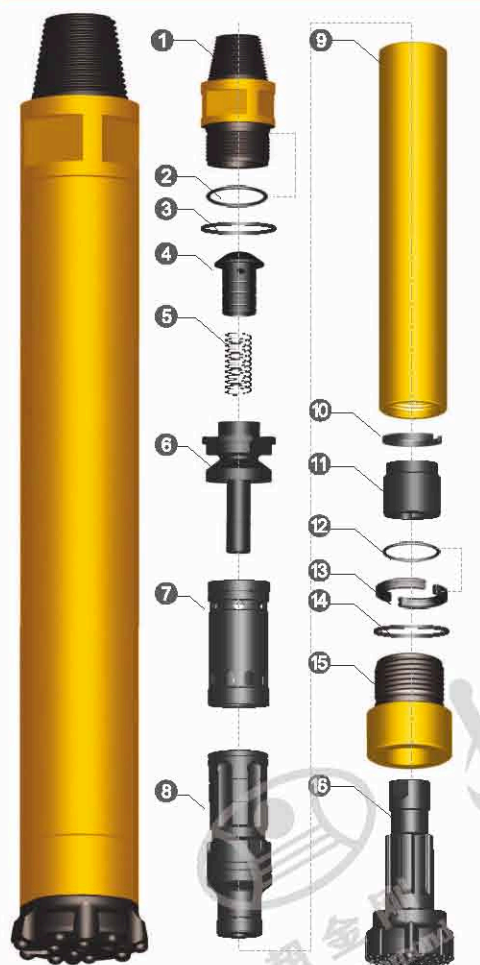
大孔径潜孔冲击器系列 Big Size DTH Hammers		零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
	1	接头 Top Sub	70.00	CSD12A-01
	2	接头O形圈 "O"Ring of Top Sub	0.04	CSD12A-02
	3	接头垫片 Breakout Ring of Top Sub	0.80	CSD12A-03
	4	逆止阀 Check Valve	2.00	CSD12A-04
	5	弹簧 Spring	0.10	CSD12A-05
	6	配气座 Air Distributor	16.00	CSD12A-06
	7	内缸 Internal Cylinder	25.00	CSD12A-07
	8	活塞 Piston	113.00	CSD12A-08
	9	外缸 External Cylinder	175.00	CSD12A-09
	10	衬套 Guided Sleeve	25.00	CSD12A-10
	11	卡环O型圈 "O"Ring of Stop Ring	0.01	CSD12A-11
	12	卡环 Stop Ring	4.50	CSD12A-12
	13	导向套 Guidance Package	9.50	CSD12A-13
	14	卡钎套垫片 Breakout Ring of Drive Chuck	0.80	CSD12A-14
	15	卡钎套 Drive Chuck	48.00	CSD12A-15
	16	钻头 Drill Bit		CSD12A-16

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1860mm	480.00Kg	Φ275mm	SD12 CSD12A	Φ305-Φ445	API 6 5/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-3.0Mpa	20HZ	15-25r/min	28m³/min	50m³/min	71m³/min

CD1120A 潜孔冲击器 CD1120A DTH HAMMER

大孔径潜孔冲击器系列 Big Size DTH Hammers		零部件名称 Part Description	重量 Weight (Kg)	零部件代号 Part Number
	1	接头 Top Sub	70.0	CD1120A-01
	2	接头O形圈 "O"Ring of Top Sub	0.04	CD1120A-02
	3	接头垫片 Breakout Ring of Top Sub	0.80	CD1120A-03
	4	逆止阀 Check Valve	2.00	CD1120A-04
	5	弹簧 Spring	0.10	CD1120A-05
	6	配气座 Air Distributor	16.0	CD1120A-06
	7	内缸 Internal Cylinder	25.0	CD1120A-07
	8	活塞 Piston	113.0	CD1120A-08
	9	外缸 External Cylinder	173.0	CD1120A-09
	10	挡环 Piston Retaining Ring	1.20	CD1120A-10
	11	衬套 Guided Sleeve	24.0	CD1120A-11
	12	卡环O型圈 "O"Ring of Stop Ring	0.01	CD1120A-12
	13	卡环 Stop Ring	4.00	CD1120A-13
	14	卡钎套垫片 Breakout Ring of Drive Chuck	0.80	CD1120A-14
	15	卡钎套 Drive Chuck	46.0	CD1120A-15
	16	钻头 Drill Bit		CD1120A-15

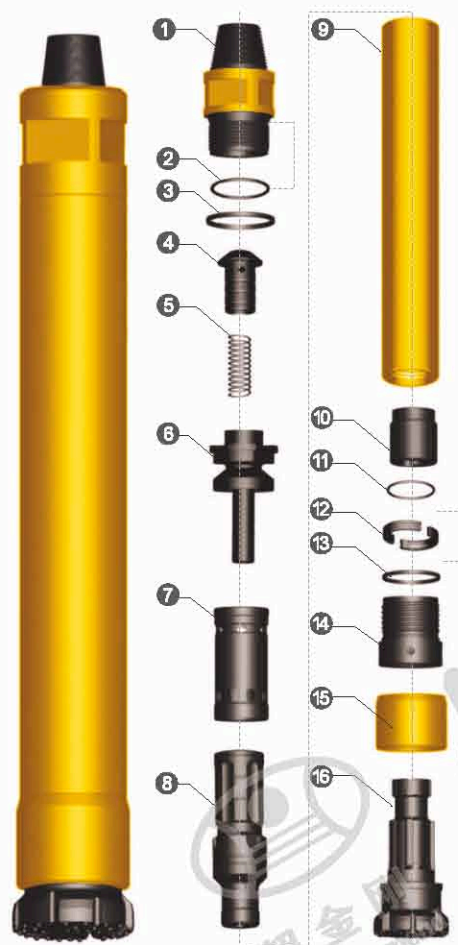
如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1880mm	474.00kg	Φ275mm	DHD1120 CD1120A	Φ305-Φ445	API 6 5/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Bar	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.0Mpa	1.8Mpa	2.4Mpa
1.0-3.0Mpa	20HZ	15-25r/min	28m³/min	50m³/min	71m³/min

CN125A 潜孔冲击器 CN125A DTH HAMMER

大口径潜孔冲击器系列 Big Size DTH Hammers



零部件名称 Part Description		重量 Weight (Kg)	零部件代号 Part Number
1	接头 Top Sub	70.0	CN125A-01
2	接头O形圈 "O"Ring of Top Sub	0.04	CN125A-02
3	接头垫片 Breakout Ring of Top Sub	0.80	CN125A-03
4	逆止阀 Check Valve	2.00	CN125A-04
5	弹簧 Spring	0.10	CN125A-05
6	配气座 Air Distributor	16.0	CN125A-06
7	内缸 Internal Cylinder	25.0	CN125A-07
8	活塞 Piston	113.0	CN125A-08
9	外缸 External Cylinder	170.0	CN125A-09
10	衬套 Guided Sleeve	23.0	CN125A-10
11	卡环O形圈 "O"Ring of Stop Ring	0.01	CN125A-11
12	卡环 Stop Ring	4.00	CN125A-12
13	卡钎套垫片 Breakout Ring of Drive Chuck	0.80	CN125A-13
14	卡钎套 Drive Chuck	45.0	CN125A-14
15	防脱套 Retainer	30.0	CN125A-15
16	钻头 Drill Bit		CN125A-16

如客户需要，接头可采用四个方口，并在接头上装耐磨合金。
According to your request, the top sub can be made into four spanners, and put protection buttons.

技术参数 Technical Parameters

总长 (不含钻头) Length(Without bit)	总重 (不含钻头) Weigth(Without bit)	冲击器外径 External diameter	可配钻头钎柄 Bit Shank	推荐钻孔范围 Hole range	后接头与钻杆连接螺纹 Connection Thread
1960mm	469.7kg	Φ275mm	NUMA125 CN125A	Φ305-Φ445	API 6 5/8" Reg API 7 5/8" Reg
可用工作风压 Working Pressure	在1.7Mpa时的 冲击频率 Impact rate at 1.7Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.2Mpa	1.8Mpa	2.4Mpa
1.2-3.0Mpa	20HZ	15-25r/min	28m³/min	50m³/min	71m³/min

钻头头部形状选择 Bit Face Shape Selection



中心下陷型 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少炮孔偏斜率，通常采用这种头部形状。

Drop Center For high penetration rates in soft to medium hard and fissured rock formations. Low to medium air pressures. Maximum hole deviation control.



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

Concave Face The all-round application bit face special for medium hard and homogeneous rock formations. Good hole deviation control and good flushing capacity.



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

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



平面型 这种平面型头部适应于高压时钻凿很坚硬岩层以及磨蚀性强的岩层。此时，钻速较快，钻体磨损较少。

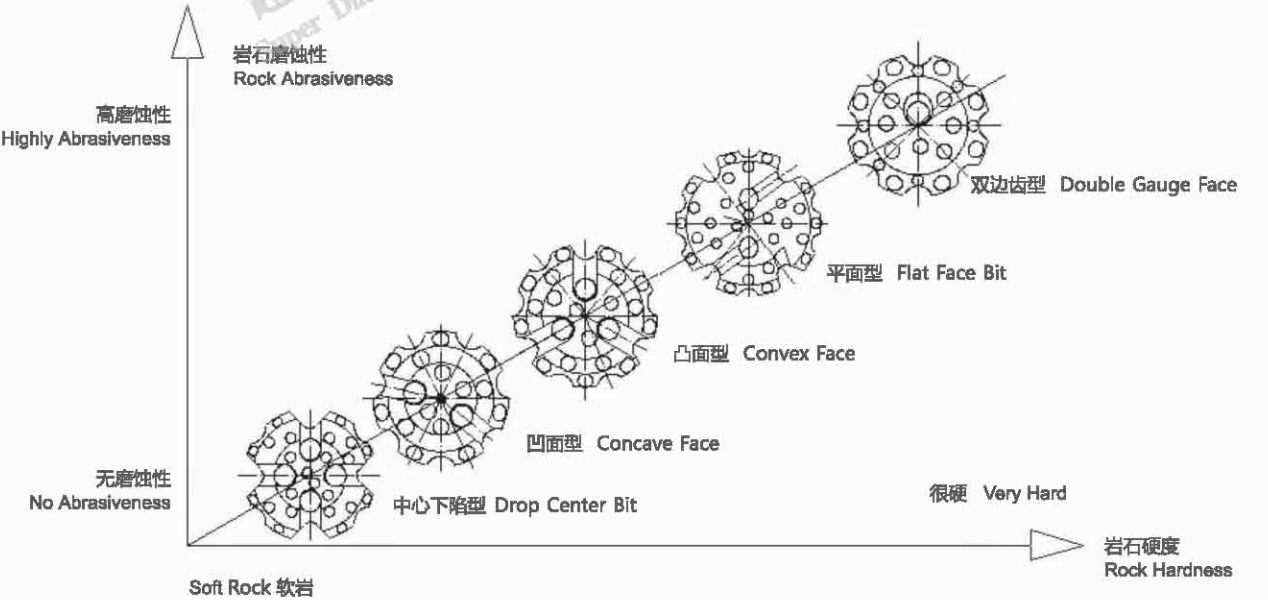
Flat Face This kind of face shape is suitable for very hard and abrasive rock formations in applications with high air pressures. Good penetration rates an resistance to steel wash.



双边齿型 这种双边齿型头部适应于高压时钻凿很坚硬的岩层。此时钻速快，钻头体磨损不严重。

Double Gauge Face This kind of face shape is suitable for fast penetration rates in medium to hard rock formations. Designed for high air pressures and good resistance to steel wash step gauge bit.

技术参数 Technical Parameters



硬质合金齿形状选择 Carbide Button Shape Options



球齿
主要用作潜孔钻头边齿，适用于磨蚀性强、非常坚硬的岩石。

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



抛物线齿
主要用作潜孔钻头的边齿和中齿，适用于磨蚀性中等、比较硬的岩石。

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



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

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



尖齿
主要用作潜孔钻头的中齿，适用于高钻速、低断齿率的软岩层。

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



平头齿
主要用作潜孔钻头的边保护齿，减小钻头体表面的磨损。

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

2"钻头 附表参数CD25平面钻头为例 2" BIT Data Referenced By CD25 Flat Face Bit



★ 产品型号(Specification Of Products) : CD25



★ 产品型号(Specification Of Products) : CD25A

直径 Diameter		合金数量、直径 No x Button diameter , mm		边齿角度 Button angle°	顶风孔 Flushing holes	重量 Weight (Kg)	编号 Part No
mm	inch	边齿 Gauge Buttons	中齿 Front Buttons				
76	3	6xΦ13	4xΦ10	38	2xΦ12	3.5	CD25-76
80	3 1/8	6xΦ14	4xΦ11	38	2xΦ12	3.8	CD25-80
82	3 1/4	6xΦ14	4xΦ11	38	2xΦ12	3.9	CD25-82
90	3 9/16	8xΦ12	5xΦ12	38	2xΦ12	4.3	CD25-90

3"钻头 附表参数CD35平面钻头为例

3" BIT Data Referenced By CD35 Flat Face Bit



★ 产品型号(Specification Of Products) : CD35
IR3.5

产品型号(Specification Of Products) : Mission30



产品型号(Specification Of Products) : COP32

产品型号(Specification Of Products) : QL30

直径 Diameter		合金数量、直径 No x Button diameter , mm		边齿角度 Button angle°	顶风孔 Flushing holes	重量 Weight (Kg)	编号 Part No
mm	inch	边齿 Gauge Buttons	中齿 Front Buttons				
90	3 9/16	6xΦ14	4xΦ12	38	2xΦ14	4.5	CD35-90
92	3 5/8	6xΦ14	4xΦ12	38	2xΦ14	4.6	CD35-92
95	3 3/4	6xΦ14	4xΦ13	38	2xΦ14	4.7	CD35-95
100	3 15/16	6xΦ14	5xΦ13	38	2xΦ14	4.8	CD35-100
105	4 1/8	6xΦ14	5xΦ13	38	2xΦ14	5.0	CD35-105
110	4 5/16	8xΦ14	6xΦ13	38	2xΦ14	5.5	CD35-110

4"钻头 附表参数CD45平面钻头为例

4" BIT Data Referenced By CD45 Flat Face Bit



★ 产品型号(Specification Of Products) : CD45
DHD340A COP44

产品型号(Specification Of Products) : Mission40

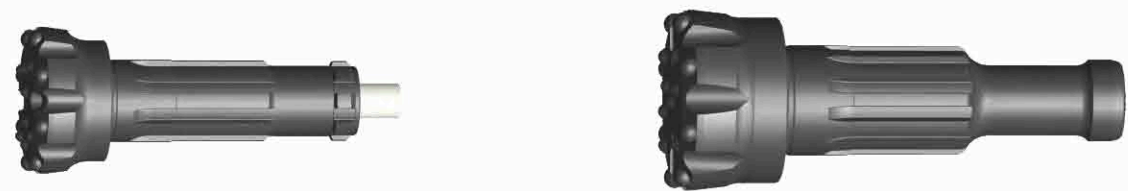


产品型号(Specification Of Products) : SD4

产品型号(Specification Of Products) : QL40

直径 Diameter		合金数量、直径 No x Button diameter , mm		边齿角度 Button angle°	顶风孔 Flushing holes	重量 Weight (Kg)	编号 Part No
mm	inch	边齿 Gauge Buttons	中齿 Front Buttons				
105	4 1/8	6xΦ14	5xΦ13	38	2xΦ18	7.5	CD45-105
110	4 5/16	7xΦ14	6xΦ13	38	2xΦ18	7.8	CD45-110
115	4 1/2	7xΦ14	7xΦ13	38	2xΦ18	8.5	CD45-115
120	4 3/4	8xΦ14	7xΦ13	38	2xΦ18	8.8	CD45-120
125	4 15/16	8xΦ14	7xΦ13	38	2xΦ18	9.0	CD45-125
130	5 1/8	8xΦ14	7xΦ14	38	2xΦ18	9.4	CD45-130

5"钻头 附表参数CD55平面钻头为例 5" BIT Data Referenced By CD55 Flat Face Bit



★ 产品型号(Specification Of Products) : HD55
DHD350R COP54

产品型号(Specification Of Products) : Mission50



产品型号(Specification Of Products) : SD5

产品型号(Specification Of Products) : QL50

直径 Diameter		合金数量、直径 No x Button diameter , mm		边齿角度 Button angle°	顶风孔 Flushing holes	重量 Weight (Kg)	编号 Part No
mm	inch	边齿 Gauge Buttons	中齿 Front Buttons				
130	5 1/8	7xΦ16	7xΦ14	38	2xΦ20	15.0	CD55-130
135	5 1/4	7xΦ18	7xΦ14	38	2xΦ20	15.5	CD55-135
140	5 1/2	8xΦ16	8xΦ14	38	2xΦ20	16.0	CD55-140
146	5 3/4	8xΦ18	8xΦ15	38	2xΦ20	16.5	CD55-146
150	5 7/8	8xΦ18	8xΦ15	38	2xΦ20	16.7	CD55-150
152	6	8xΦ18	8xΦ15	38	2xΦ20	16.8	CD55-152
156	6 1/8	8xΦ18	8xΦ16	38	2xΦ20	17.0	CD55-156

6"钻头 附表参数CD65凹面钻头为例 6" BIT Data Referenced By CD65 Concave Face Bit



★ 产品型号(Specification Of Products) : CD65
DHD360R COP64

产品型号(Specification Of Products) : Mission60



产品型号(Specification Of Products) : SD6

产品型号(Specification Of Products) : QL60

直径 Diameter		合金数量、直径 No x Button diameter , mm		边齿角度 Button angle°	顶风孔 Flushing holes	重量 Weight (Kg)	编号 Part No
mm	inch	边齿 Gauge Buttons	中齿 Front Buttons				
152	6	8xΦ18	4xΦ16+4xΦ14	38	2xΦ26	23	CD65-152
156	6 1/4	8xΦ18	4xΦ16+4xΦ14	38	2xΦ26	23.5	CD65-156
160	6 1/4	8xΦ18	4xΦ16+4xΦ14	38	2xΦ26	23.5	CD65-159
165	6 1/2	8xΦ18	8xΦ16	38	2xΦ26	24.0	CD65-165
171	6 3/4	8xΦ18	10xΦ16	38	2xΦ26	25.0	CD65-171
185	7 1/4	9xΦ18	10xΦ16	38	3xΦ22	27.0	CD65-185
190	7 1/2	10xΦ18	13xΦ16	38	2xΦ26	28.0	CD65-190
203	8	10xΦ18	14xΦ16	38	2xΦ26	31.0	CD65-203

8"钻头 附表参数CD85凹面钻头为例 8" BIT Data Referenced By CD85 Concave Face Bit



★ 产品型号(Specification Of Products) : CD85 DHD380 COP84 产品型号(Specification Of Products) : Mission80



产品型号(Specification Of Products) : SD8 产品型号(Specification Of Products) : QL80

直径 Diameter		合金数量、直径 No x Button diameter , mm		边齿角度 Button angle°	顶风孔 Flushing holes	重量 Weight (Kg)	编号 Part No
mm	inch	边齿 Gauge Buttons	中齿 Front Buttons				
200	7 7/8	10xΦ18	8xΦ18+6xΦ16	38	2xΦ30	46	CD85-200
203	8	10xΦ18	8xΦ18+6xΦ16	38	2xΦ30	47	CD85-203
216	8 1/2	10xΦ18	8xΦ18+6xΦ16	38	2xΦ30	53	CD85-216
219	8 5/8	10xΦ18	8xΦ18+6xΦ16	38	2xΦ30	54	CD85-219
222	8 3/4	10xΦ18	8xΦ18+6xΦ16	38	2xΦ30	55	CD85-222
225	8 7/8	10xΦ18	8xΦ18+6xΦ16	38	2xΦ30	56	CD85-225
229	9	10xΦ18	8xΦ18+7xΦ16	38	2xΦ30	57	CD85-229
235	9 1/4	12xΦ18	20xΦ16	38	2xΦ30	58	CD85-235
241	9 1/2	12xΦ18	20xΦ16	38	2xΦ30	58	CD85-241
254	10	12xΦ19	8xΦ18+18xΦ16	38	2xΦ30	61	CD85-254
270	10 5/8	12xΦ19	8xΦ18+19xΦ16	38	2xΦ30	62	CD85-270
280	11	12xΦ19	9xΦ18+21xΦ16	38	3xΦ26	67	CD85-280

10"钻头 附表参数SD10凹面钻头为例 10" BIT Data Referenced By SD10 Concave Face Bit



★ 产品型号(Specification Of Products) : SD10



产品型号(Specification Of Products) : NUMA100

直径 Diameter		合金数量、直径 No x Button diameter , mm		边齿角度 Button angle°	顶风孔 Flushing holes	重量 Weight (Kg)	编号 Part No
mm	inch	边齿 Gauge Buttons	中齿 Front Buttons				
254	10	12xΦ19	8xΦ18+18xΦ16	38	2xΦ30	85	SD10-254
280	10 5/8	12xΦ19	9xΦ18+20xΦ16	38	3xΦ26	88	SD10-280
292	11 5/8	15xΦ19	27xΦ18+9xΦ16	38	3xΦ26	93	SD10-292
305	12	15xΦ19	27xΦ18+9xΦ16	38	3xΦ26	97	SD10-305
311	12 1/4	15xΦ19	27xΦ18+9xΦ16	38	3xΦ26	98	SD10-311
315	12 3/8	15xΦ19	27xΦ18+9xΦ16	38	3xΦ26	101	SD10-315
325	13	15xΦ19	27xΦ18+9xΦ16	38	3xΦ26	110	SD10-325

12"钻头 附表参数SD12凹面钻头为例 12" BIT Data Referenced By SD12 Concave Face Bit



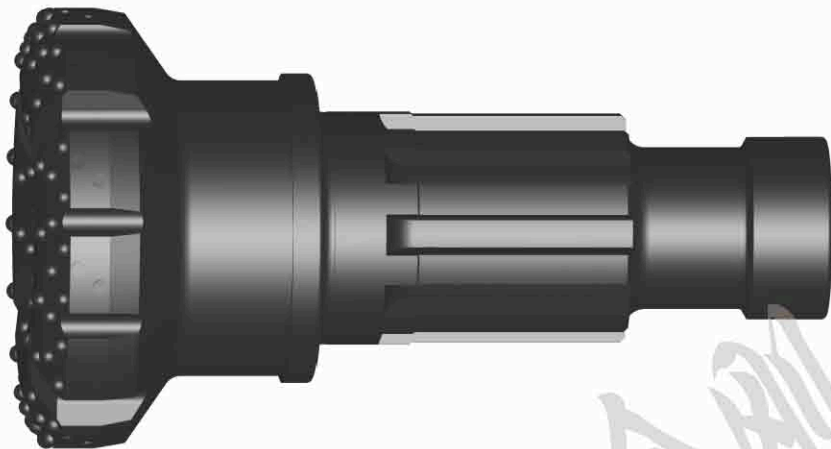
★ 产品型号(Specification Of Products) : SD12 产品型号(Specification Of Products) : DHD1120



产品型号(Specification Of Products) : NUMA125A 产品型号(Specification Of Products) : NUMA120

直径 Diameter		合金数量、直径 No x Button diameter , mm		边齿角度 Button angle°	顶风孔 Flushing holes	重量 Weight (Kg)	编号 Part No
mm	inch	边齿 Gauge Buttons	中齿 Front Buttons				
305	12	15xΦ19	9xΦ16	38	3xΦ32	130	SD12-305
311	12 1/4	15xΦ19	9xΦ16	38	3xΦ32	132	SD12-311
330	13	15xΦ19+12xΦ19	31xΦ16	38	3xΦ32	145	SD12-330
350	13 3/4	15xΦ19	27xΦ18+16xΦ16	38	3xΦ32	158	SD12-350
356	14	16xΦ19+16xΦ19	28xΦ18+20xΦ16	38	4xΦ28	162	SD12-356
381	15	16xΦ19+12xΦ19	42xΦ18	38	4xΦ28	187	SD12-381

15"钻头 附表参数CD330A钻头为例 15" BIT Data Referenced By CD330A Bit



★ 产品型号(Specification Of Products) : CSD15

直径 Diameter		合金数量、直径 No x Button diameter , mm				边齿角度 Button angle°	顶风孔 Flushing holes	重量 Weight (Kg)	编号 Part No
mm	Inch	边齿 Gauge Buttons	中齿 Front Buttons						
			平面 Flat Face	凸面 Convex Face	凹面 Concave Face				
530	20 7/8	外24xΦ19,内20xΦ18	44xΦ18	12xΦ18	28xΦ18	35	2xΦ40+2xΦ25	486	CSD15-530
600	23 5/8	外24xΦ19,内20xΦ18	52xΦ18	16xΦ18	28xΦ18	35	2xΦ40+2xΦ25	537	CSD15-600
660	26	外24xΦ19,内20xΦ18	80xΦ18	20xΦ18	29xΦ18	35	2xΦ40+2xΦ25	638	CSD15-660



★ 产品型号(Specification Of Products) : CD525

直径 Diameter		合金数量、直径 No x Button diameter , mm				边齿角度 Button angle°	顶风孔 Flushing holes	重量 Weight (Kg)	编号 Part No
mm	inch	边齿 Gauge Buttons	中齿 Front Buttons						
			平面 Flat Face	凸面 Convex Face	凹面 Concave Face				
775	30 1/2	外32xΦ19,内24xΦ19	160xΦ19	/	/	35	4xΦ44.5	1330	CD525-775

偏心跟管钻具

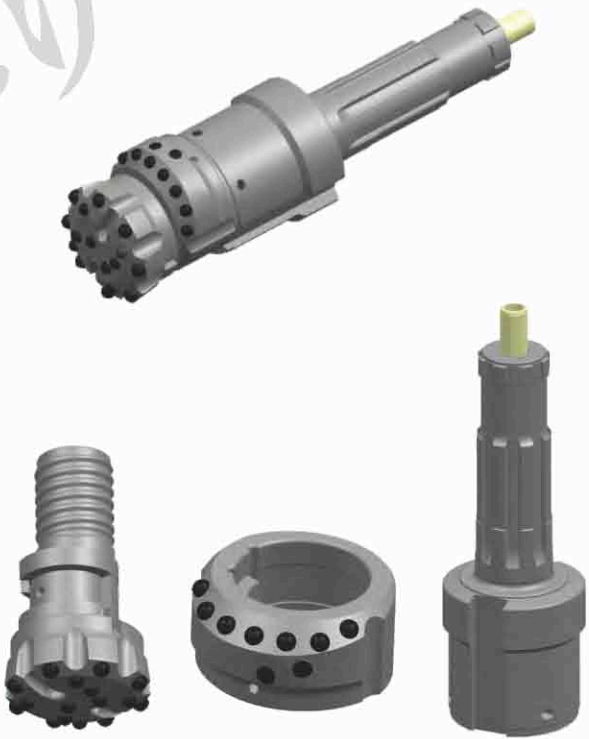
ECCENTRIC CASING SYSTEMS

产品特点 Features

- 零件表面强化处理
Hardening treatment of the part's surface
更长的作业寿命，极好的抗磨损特性
with longer operating life and excellent anti-wear properties.

- 结构优化
Structural optimization
强化结构强度，操作方便
Strengthen the structural strength, easy to operate

- 优越性能
Superior performance
性能稳定可靠，钻进速度快
Stable and reliable performance, high drilling speed



适合工作范围 Application Range

适用于打地热井、水井、建筑中小型灌浆孔、微型桩
It is suitable for drilling water wells , geothermal wells , short micropiles ,medium mini-type grouting hole of building , damand harbour project .

① 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跟进。

When drilling starts , the reamer swings out and reams the pilot-hole wide enough for the casing tube to slide down behind the drill bit assembly



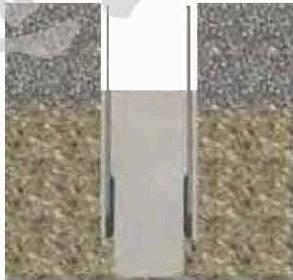
② 跟管钻进到位后，反转偏心套旋回，再将偏心系统从套管中向上拔出。

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.



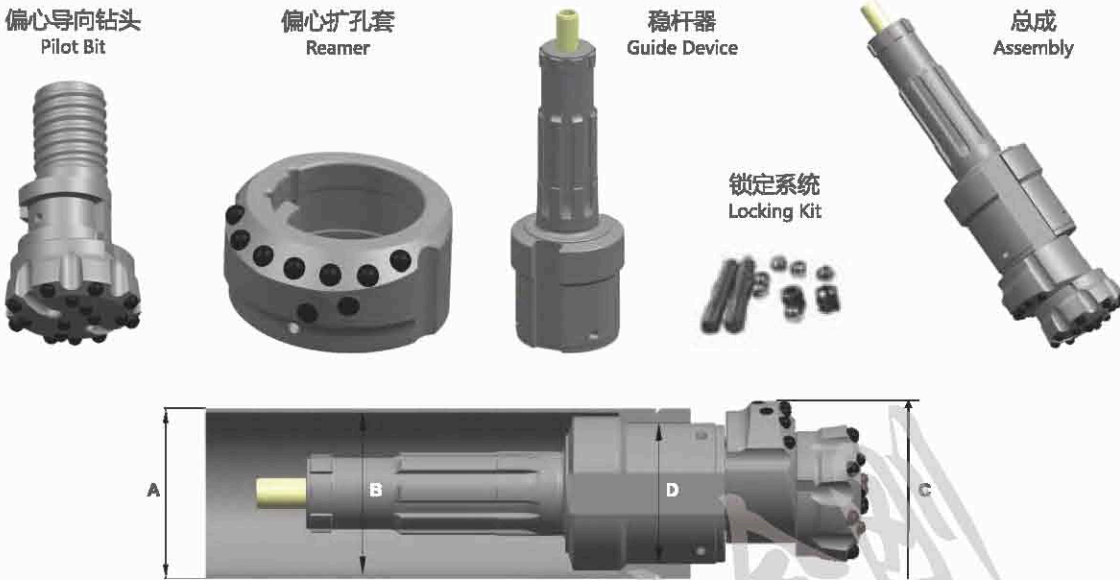
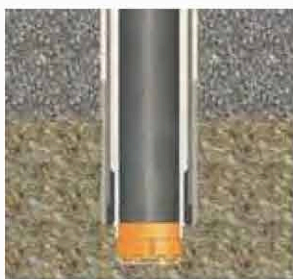
③ 将套管向上拔，同时在孔底喷灌浆或其它填充物。

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.



④ 在基岩中采用常规钻具钻进达到所需深度。

Drilling continues to the desired depth in the bedrock using a conventional drilling tools.



[偏心跟管钻具推荐型号技术参数表] Technical Parameter Table Of Standard Eccentric Casing System

推荐产品型号 Outer Dia.(A) mm	套管 外径 Outer Dia.(A)mm	套管 内径 Inner Dia.(B)mm	最大 壁厚 The Max. Wall Thickness	扩孔 直径 Reamed Dia.(C)mm	管靴内孔 直径 Inner Dia. Of Casing Shoe(D)mm	通过管靴内孔的 钻头最大直径 Inner Dia. Of Casing Shoe That Pilot Bit Can Pass Through	推荐配用 冲击器型号 Type Of Hammer Recommended	可选配冲击器 型号 Hammer Type(E)	钻杆 mm
CEC108-CD35-84	108	96	6	118	86	84	CD35	DHD3.5 QL30	76
CEC114-CD35-90	114	102	6	123	92	90	CD35	DHD3.5 QL30	76
CEC127-CD45-97	127	109	9	138	99	97	CD45	DHD340A QL40	76
CEC140-CD45-115	140	128	6	152	117	115	CD45	DHD340A QL40	76
CEC168-CD55-140	168	156	6	185	142	140	CD55	DHD350R QL50	76/89
CEC178-CD55-146	178	158	10	195	148	146	CD55	DHD350R QL50	76/89
CEC183-CD55-150	183	163	10	200	152	150	CD55	DHD350R QL50	76/89
CEC194-CD65-165	194	180	7	209	167	165	CD65	DHD360 QL60	89/114
CEC219-CD65-190	219	205	7	237	192	190	CD65	DHD360 QL60	89/114
CEC245-CD85-208	245	225	10	264	210	208	CD85	DHD380 QL80	114
CEC273-CD85-240	273	259	7	308	242	240	CD85	DHD380 QL80	114
CEC325-CN100-280	325	305	10	358	282	280	CN100	NUMA100 SD10	114

备注：每种产品型号，客户可根据实际情况，选用公称尺寸相同的冲击器。
Remarks:According to the actual requirements,the customer can select same nominal specification of the Hammer as each specification of the product.
订购参数:套管外径(A) + 套管内径(B) + 扩孔直径(C) + 管靴内孔直径 (D) + 冲击器(E)
Order Guide: Outer Dia(A) + Inner Dia(B) + Reamed Dia (C) + Inner Dia. Of Casing Shoe (D) + Hammer Type (E)
如您的订购参数为套管规格：273mm；最大壁厚：6mm；冲击器 DHD380;则可确定您需要订购的产品名称为:
For example if requirement is: Specification of casing pipe 273mm; the max. wall thickness: 6mm; Hammer: DHD380, then the confirmable product code is:

滑块式跟管钻具
 SLIDE BLOCK CASING SYSTEMS

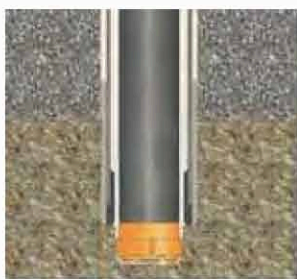
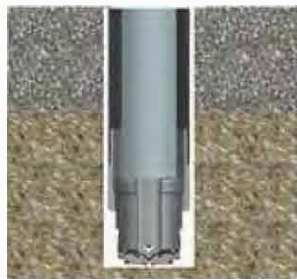
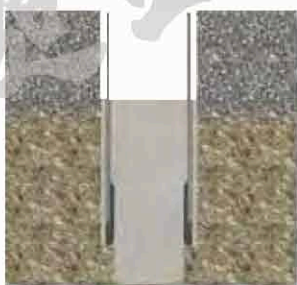
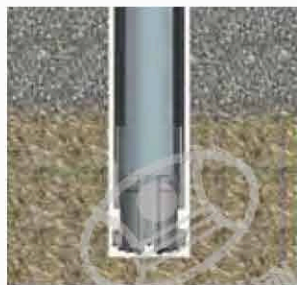
适合工作范围
 Application Range

适用于打地热井、水井、建筑中小型灌浆孔、微型桩
 It is suitable for drilling water wells , geothermal wells , short mircopiles ,medium mini-type grouting hole of building , damand harbour project .

- 1
凿岩工作开始时，钻具向下压使扩孔块沿滑槽滑出，同时开始扩孔以保证套管和钻进系统同时跟进
When drilling starts , the reamer swings out and reams the pilot-hole wide enough for the casing tube to slide down behind the drill bit assembly

2
跟管钻进到位后，钻具向上提钻，扩孔块沿滑槽回收。再将扩孔系统从套管中向上拔出。
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.
- 3
将套管向上拔，同时在孔底喷灌浆或其它填充物。
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.

4
在基岩中采用常规钻具钻进达到所需深度。
Drilling continues to the desired depth in the bedrock using a conventional drilling tools.

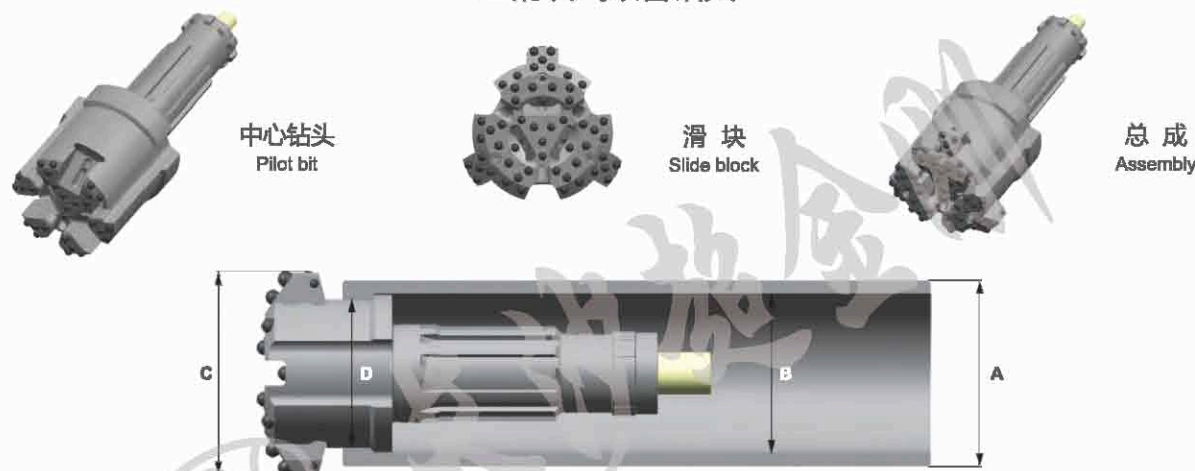


滑块式跟管钻具
 SLIDE BLOCK CASING SYSTEMS

两滑块式跟管钻具



三滑块式跟管钻具



[滑块式跟管钻具推荐型号技术参数表]
 Technical Parameter Table Of Standard Eccentric Casing System

推荐产品型号 Outer Dia.(A) mm	套管 外径 Outer Dia.(A)mm	套管 内径 Inner Dia.(B)mm	最大 壁厚 The Max. Wall Thickness	扩孔 直径 Reamed Dia.(C)mm	扩孔块 数量 Reamed block Dia.(C)mm	管靴内孔 直径 Inner Dia. Of Casing Shoe(D)mm	通过管靴内孔的 钻头最大直径 Inner Dia. Of Casing Shoe That Pilot Bit Can Pass Through	推荐配用 冲击器型号 Type Of Hammer Recommended	可选配冲击器 型号 Hammer Type(E)	钻杆 Drill Pipe mm
CSC168-CD55-140	168	156	6	185	2	142	140	CD55	DHD350 QL50	76/89
CSC178-CD55-146	178	158	10	195	2	148	146	CD55	DHD350 QL50	76/89
CSC183-CD55-150	183	163	10	200	2	152	150	CD55	DHD350 QL50	76/89
CSC194-CD65-165	194	180	7	209	2	167	165	CD65	DHD360 QL60	89/114
CSC219-CD65-190	219	205	7	237	3	192	190	CD65	DHD360 QL60	89/114
CSC245-CD85-208	245	225	10	264	3	210	208	CD85	DHD380 QL80	114
CSC273-CD85-240	273	259	7	308	3	242	240	CD85	DHD380 QL80	114
CSC325-CN100-280	325	305	10	358	3	282	280	CN100	NUMA100 SD10	114
CSC406-CN125-355	406	382	12	426	4	360	355	CN125	NUMA125 SD12	127

订购参数:套管外径(A) + 套管内径(B) + 扩孔直径(C) + 管靴内孔直径 (D) + 冲击器(E)
 Order Guide: Outer Dia.(A) + Inner Dia.(B) + Reamed Dia.(C) + Inner Dia. Of Casing Shoe (D) + Hammer Type (E)

对心跟管钻具

SYMMETRIC OVERBURDEN
DRILLING SYSTEMS

适合工作范围 Application Range

适用于打地热井、水井、建筑中小型灌浆孔、微型桩

It is suitable for drilling water wells , geothermal wells , short mircopiles ,medium mini-type grouting hole of building , damand harbour project .

- ① 钻孔之前，将环形钻头和管靴组件与套管焊接好，然后将导向钻头与环形钻头管靴组件锁好，导向钻头肩部与管靴啮合。

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 upper shoulder engages the shoulder of the casing shoe.



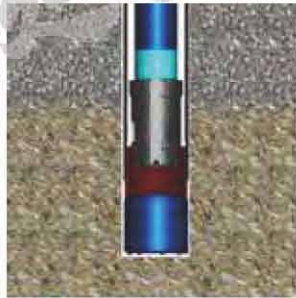
- ② 冲击器的冲击能传导至导向钻头和环形钻头开始破岩，部分能量带动套管向前。

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



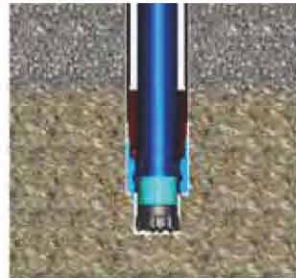
- ③ 在钻进结束之后，通过轻轻反转让卡口连接解锁而取回导向钻头。环形钻头留在孔内，当孔进行注浆完毕。拔管时套管与环形钻头一起取出。

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 .



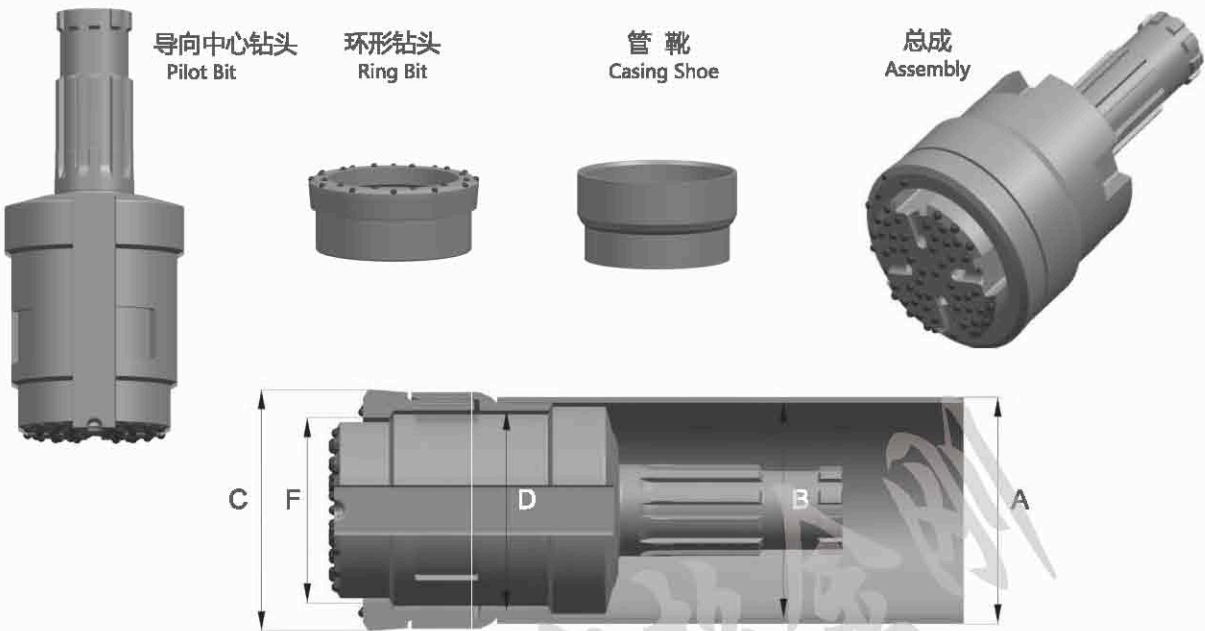
- ④ 在基岩中采用常规钻具钻进发达到所需深度。

Drilling continues to the desired depth in the bedrock using a conventional drilling tools.



对心跟管钻具(不可回收型)

SYMMETRIC OVERBURDEN
DRILLING SYSTEMS(Permanent)



对心跟管钻具推荐型号技术参数(不可回收型)

Technical Parameter Table of Standard Symmetric
Overburden Drilling System(Permanent)

推荐产品型号 Outer Dia.(A) mm	套管 外径 Dia.(A)mm	套管 内径 Inner Dia.(B)mm	最大 壁厚 The Max Wall Thickness	扩孔 直径 Reamed Dia.(C)mm	管靴内孔 直径 Inner Dia. Of Casing Shoe(D)mm	通过管靴内孔的 钻头最大直径 Inner Dia. Of Casing Shoe That Pilot Bit Can Pass Through	推荐配用 冲击器型号 Type Of Hammer Recommended	可选配冲击器 型号 Hammer Type(E)	钻杆 Drill Pipe mm
CSOD108-CD35-75-P	108	96	6	118	85	75	CD35	DHD3.5 QL30	76
CSOD114-CD35-80-P	114	102	6	128	90	80	CD35	DHD3.5 QL30	76
CSOD127-CD45-85-P	127	109	9	141	97	85	CD45	DHD340 QL40	76
CSOD140-CD45-95-P	140	120	10	154	108	95	CD45	DHD340 QL40	76
CSOD168-CD55-125-P	168	148	10	182	138	125	CD55	DHD350 QL50	76/89
CSOD178-CD55-135-P	178	158	10	192	148	135	CD55	DHD350 QL50	76/89
CSOD183-CD55-140-P	183	163	10	198	152	140	CD55	DHD350 QL50	76/89
CSOD194-CD65-148-P	194	174	10	210	164	148	CD65	DHD360 QL60	89/114
CSOD219-CD65-172-P	219	199	10	235	184	172	CD65	DHD360 QL60	89/114
CSOD245-CD85-192-P	245	225	10	261	210	192	CD85	DHD380 QL80	114
CSOD273-CD85-219-P	273	253	10	305	238	219	CD85	DHD380 QL80	114
CSOD325-CN100-270-P	325	305	10	348	294	270	CN100	NUMA100 SD10	114
CSOD406-CN125-330-P	406	382	12	432	358	330	CN125	NUMA125 SD12	127

订购参数:套管外径(A) + 套管内径(B) + 扩孔直径(C) + 管靴内孔直径 (D) + 冲击器(E)
Order Guide: Outer Dia(A) + Inner Dia(B) + Reamed Dia (C) + Inner Dia. Of Casing Shoe (D) + Hammer Type (E)

双重跟管钻具

DOUBLE CASING DRILLING SYSTEMS

产品特点 Features

- 零件表面强化处理
Hardening treatment of the part's surface
更长的作业寿命，极好的抗磨损特性
with longer operating life and excellent anti-wear properties.

- 结构优化
Structural optimization
强化结构强度，操作简便
Strengthen the structural,easy to operate.

- 优越性能
Superior performance
钻进平稳，效率高
smoothly drilling with high efficiency.



双重跟管钻具

DOUBLE CASING DRILLING SYSTEMS



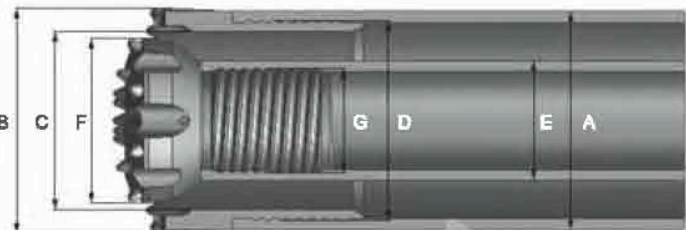
管壁钻头
Crown Opener Bit



外螺纹钻头
Inner Opener Bit



总成
Assembly

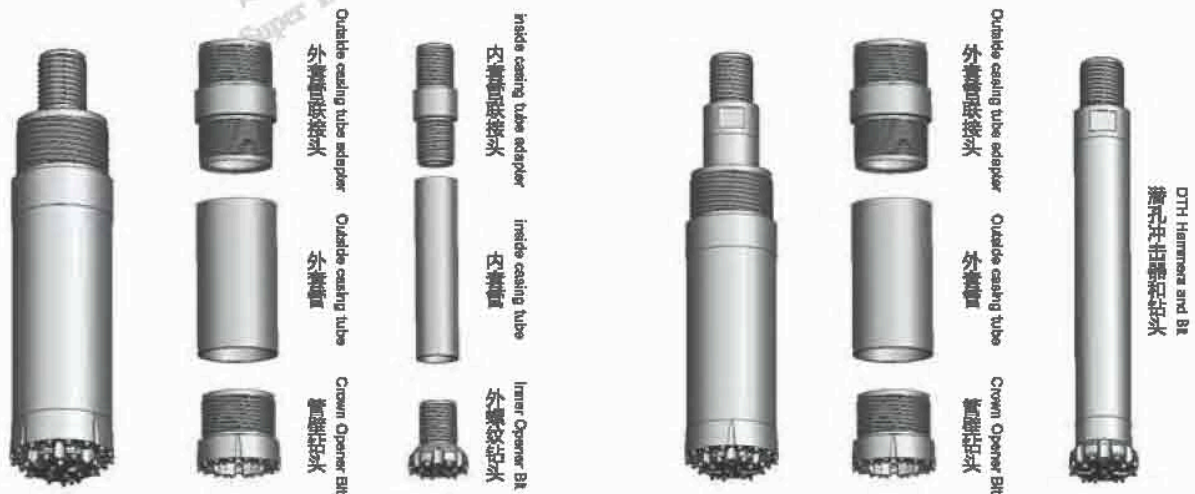


双重跟管钻具标准型号技术参数 Technical Parameter table of standard double casing drilling systems

套管外径 Outer Dia.(A) mm	扩孔直径 Reamed Dia.(B) mm	管壁钻头内径 Inner Dia.(C) mm	螺纹尺寸 Thread(D) mm	钻杆直径 Drill Rod Dia.(E) mm	外螺纹钻头直径 Drill Bit Dia.(F) mm	螺纹类型 Thread type (G)
118	125	88	104.5	76	83	R56
133	140	108	122	76	102	R56
146	152	120	134	89	116	R78
168	172	133	146.5	114	128	R83
216	225	178	203	114	165	R102

订购参数:套管外径(A) + 扩孔直径(B) + 管壁钻头内径(C) + 螺纹尺寸(D)+ 钻杆直径(E)+外螺纹钻头直径(F)+螺纹尺寸(G)
Order Guide: Outer Dia.(A)+Reamed Dia.(B)+Inner Dia.(C)+Thread(D)+ Drill Rod Dia.(E)+Drill Bit Dia.(F)+Thread(G)

结构形式 Structure



管内用（顶锤式）钻杆连接
Top hammer type drilling inside the casing

管内用（潜孔冲击器）连接
DTH hammer type drilling inside the casing

套管 CASING



技术参数 Technical Parameters

套管外径 Outer Dia.(A) mm	套管内径 Inner Dia.(B) mm	壁厚 Wall thickness mm	套管长度 Length(C) mm			
108	96	6	1000	1500	2000	3000
114	102	6	1000	1500	2000	3000
127	109	9	1000	1500	2000	3000
140	128	6	1000	1500	2000	3000
146	126	10	1000	1500	2000	3000
168	148	10	1000	1500	2000	3000
178	158	10	1000	1500	2000	3000
183	163	10	1000	1500	2000	3000
194	174	10	1000	1500	2000	3000
219	199	10	1000	1500	2000	3000
245	225	10	1000	1500	2000	3000
273	253	10	1000	1500	2000	3000
325	305	10	1000	1500	2000	3000
406	382	12	1000	1500	2000	3000

★ 订购超金刚套管您需提供哪些参数？

- 套管的外径
- 套管的内径/壁厚
- 长度
- 螺纹 (焊接型套管不需提供)

1、螺纹型套管订购参数：套管外径(A)+套管内径(B)+长度(C)+螺纹(T)

Threaded Casing Tube :Outer Dia.(A)+ Inner Dia.(B)+Length(C)+thread(T)

2、焊接型套管订购参数：套管外径(A)+套管内径(B)+长度(C)

Welding Casing Tube :Outer Dia.(A)+ Inner Dia.(B)+Length(C)

★ What parameter needs to be provided to us when you purchase casing tube?

- Outer diameter of casing tube;
- Inner diameter of Casing or Wall thickness of casing tube;
- Length of casing tube;
- The thread type of casing tube.

反循环钻进和反循环冲击器介绍

Introduction of R.C. Drilling and R.C. DTH Hammers

什么叫反循环钻进：

- 反循环钻进也叫中心样品采集或双壁管钻进。这种钻进通常采用双壁钻管。钻进动力为高压气体，高压气体通过外管与内管之间的空隙进入冲击器，使冲击器打击钻头破碎岩层，破碎的岩石汇集到钻头面上气孔中，再经过样品采集管和钻杆内管收集岩石样品。

反循环冲击器的优点

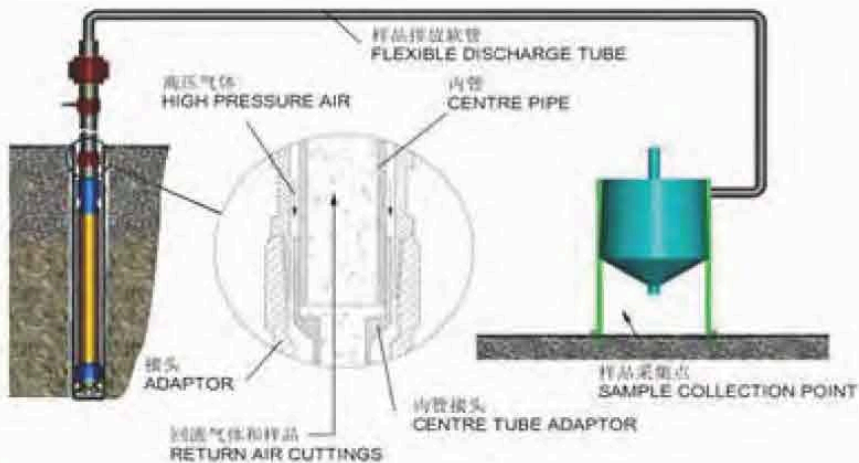
- 无污染
反循环冲击器能在碎岩瞬间，迅速地在钻头面上提取样品。样品不需要通过冲击器长度，从而避免了样品污染和损失。
- 高生产率
在破碎和断裂岩层中，反循环冲击器在穿透速度方面比普通冲击器要强。
- 干燥的样品
即使在有水的环境下，都能采集到干燥的样品，因为，岩屑在钻头面上刚产生就被采集了。
- 样品回收率高
因为是从钻头面上采集样品，所以在破碎和断裂岩层上能避免样本的损失。因为钻头直径和耐磨套的外径几乎相等，所以样品的采集回收率可以达到98%。

IT HAS THE FOLLOWING CHARACTERISTICS:

- R.C. Drilling, referred to as "Centre Sample Recovery" or "Dual Wall Drilling", employs a Dual Wall Pipe where the drilling medium, normally high pressure air, is passed between the outer and inner tubes down to the face of the drilling bit where it is returned up the centre tube along with the sample cut by the drill bit.

THE USE AND THE ADVANTAGES OF THE R.C. DTH HAMMER:

- No contamination
The R.C. System collects sample through the recovery holes in the face of the drill bit immediately as the cuttings or sample is formed. The drilled sample does not have to travel the length of the hammer where contamination and loss of sample takes place.
- Higher Production
In broken and fractured ground conditions, the R.C. will often out perform the conventional hammer in terms of penetration rates.
- Dry Sample
Even in certain water bearing stratas it is still possible to collect a dry sample because the cuttings(sample) are collected as they are formed through the face of the drill bit.
- Higher Sample Recovery
Because the sample is collected through the face of the drill bit there is no loss of sample when drilling through broken or fractured ground. And since the bit matched to the chuck size, there is very little bypass of sample and recovery rates of up to 98% are generally achievable.



CRE531 反循环冲击器

CRE531 R.C. HAMMER

3" 反循环冲击器系列 3" R.C. Hammers

零件名称 Item Description	重量 Weight (Kg)	零件代号 Part Number
1 接头 Top Sub	3.76	CRE531-01
2 "O" 形圈 "O" Ring	0.01	CRE531-02
3 联接管 Adaptor Screen	1.85	CRE531-03
4 "O" 形圈 "O" Ring	0.01	CRE531-04
5 采集管 Sample Tube	1.97	CRE531-05
6 卡簧 Circlip	0.04	CRE531-06
7 "O" 形圈 "O" Ring	0.01	CRE531-07
8 "O" 形圈 "O" Ring	0.01	CRE531-08
9 配气座 Distributor	0.37	CRE531-09
10 逆止阀 Plunger	0.08	CRE531-10
11 "O" 形圈 "O" Ring	0.01	CRE531-11
12 弹簧 Spring	0.10	CRE531-12
13 限位轴套 Mount Sample Tube	0.49	CRE531-13
14 内缸 Inner Cylinder	3.40	CRE531-14
15 活塞 Piston	4.69	CRE531-15
16 外缸 Piston Case	9.20	CRE531-16
17 密封套 Seal cover	0.02	CRE531-17
18 衬套 Bush Drive Sub	1.03	CRE531-18
19 卡环 Bit Retaining Ring	0.08	CRE531-19
20 "O" 形圈 "O" Ring	0.01	CRE531-20
21 耐磨套 Shroud	0.45	CRE531-21
22 卡钎套 Drive Sub	1.60	CRE531-22
23 钻头 Drill Bit	4.20	CRE531-23

技术参数 Technical Data

总长 (不含钻头) Length(less bit)	总重 (不含钻头) Weight(less bit)	冲击器外径 External diameter	可佩钻头钎柄 Bit Shank	钻孔范围 Hole range	后接头螺纹 Connection Thread
1069mm	29.0kg	Φ81mm	RE531	Φ84-Φ100	3 " Remet
可用工作风压 Working Pressure	在2.4Mpa时的 冲击频率 Impact rate at 2.4Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.7Mpa	2.4Mpa	3.0Mpa
1.0-3.0Mpa	30HZ	25-40r/min	7m³/min	10m³/min	14m³/min

CRE004 反循环冲击器

CRE004 R.C. HAMMER

4" 反循环冲击器系列 4" R.C. Hammers

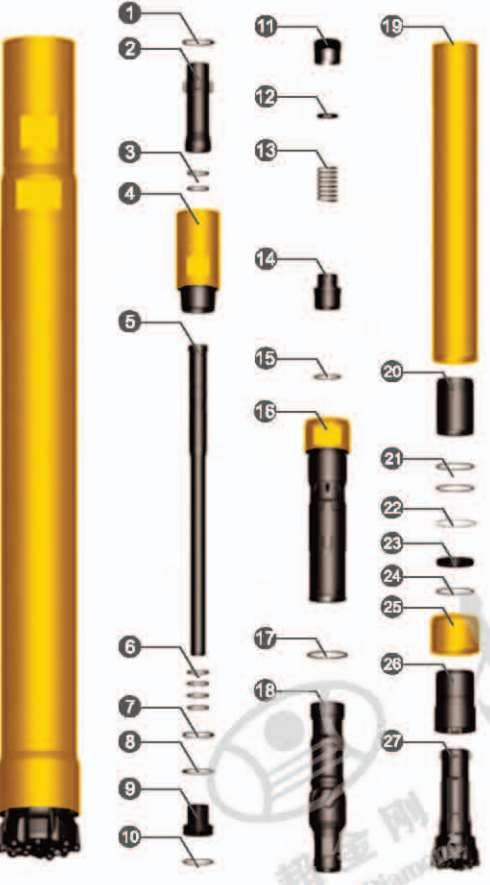
零件名称 Item Description	重量 Weight (Kg)	零件代号 Part Number
1 卡簧 Circlip	0.02	CRE004-01
2 "O" 形圈 "O" Rings	0.02	CRE004-02
3 联接管 Adaptor Screen	1.06	CRE004-03
4 "O" 形圈 "O" Ring	0.02	CRE004-04
5 接头 Top Sub	7.79	CRE004-05
6 逆止阀 Plunger	0.51	CRE004-06
7 "Y" 形圈 "Y" Ring	0.02	CRE004-07
8 弹簧 Spring	0.06	CRE004-08
9 上采集管 Sample Tube Upper	0.74	CRE004-09
10 "O" 形圈 "O" Ring	0.02	CRE004-10
11 "O" 形圈 "O" Ring	0.02	CRE004-11
12 采集管 Sample Tube Lower	2.38	CRE004-12
13 弹性垫圈 Spring washers	0.17	CRE004-13
14 配气座 Distributor	1.75	CRE004-14
15 "O" 形圈 "O" Ring	0.02	CRE004-15
16 内缸 Inner Cylinder	2.45	CRE004-16
17 活塞 Piston	10.45	CRE004-17
18 外缸 Piston Case	17.95	CRE004-18
19 衬套 Bush Drive Sub	1.77	CRE004-19
20 卡环 Bit Retaining Ring	0.29	CRE004-20
21 "O" 形圈 "O" Ring	0.02	CRE004-21
22 耐磨套 Shroud	1.05	CRE004-22
23 卡钎套 Drive Sub	3.13	CRE004-23
24 钻头 Drill Bit	11.70	CRE004-24

技术参数 Technical Data

总长 (不含钻头) Length(less bit)	总重 (不含钻头) Weight(less bit)	冲击器外径 External diameter	可佩钻头钎柄 Bit Shank	钻孔范围 Hole range	后接头螺纹 Connection Thread
1252mm	52.0kg	Φ107mm	RE004	Φ111-Φ127	3.5" -4 " Remet 4 " Metzke
可用工作风压 Working Pressure	在2.4Mpa时的 冲击频率 Impact rate at 2.4Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.7Mpa	2.4Mpa	3.0Mpa
1.0-3.0Mpa	30HZ	25-40r/min	8m³/min	12m³/min	16m³/min

CRE542 反循环冲击器

CRE542 R.C .HAMMER

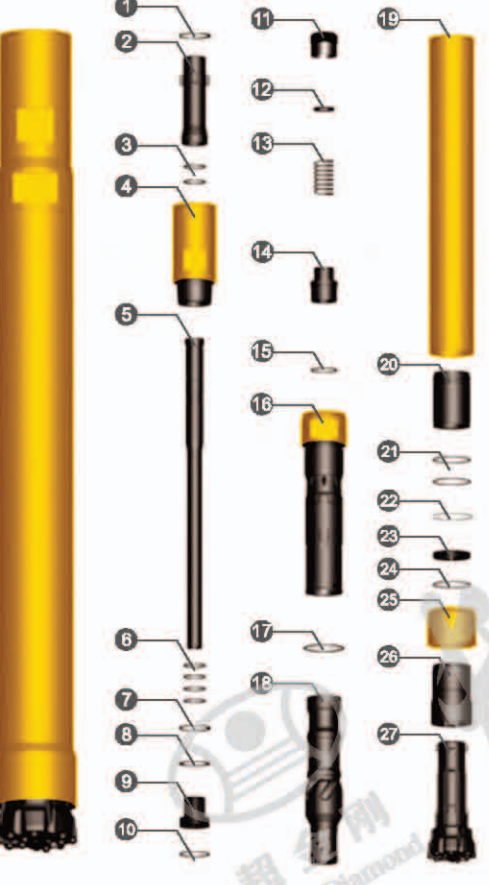
4.5" 反循环冲击器系列 4.5" R.C. Hammers		零部件名称 Item Description	重量 Weight (Kg)	零部件代号 Part Number
	1	卡簧 Circlip	0.04	CRE542-01
	2	联接管 Adaptor Screen	2.55	CRE542-02
	3	"O" 形圈 "O"Ring	0.02	CRE542-03
	4	接头 Top Sub	8.52	CRE542-04
	5	采集管 Sample Tube	3.5	CRE542-05
	6	"O" 形圈 "O"Ring	0.02	CRE542-06
	7	卡簧 Circlip	0.04	CRE542-07
	8	过滤板 Airstreen	0.02	CRE542-08
	9	通气筛 Distributor Nozzle	0.56	CRE542-09
	10	"O" 形圈 "O"Ring	0.02	CRE542-10
	11	逆止阀 Plunger	0.50	CRE542-11
	12	"Y" 形圈 "Y" Ring	0.02	CRE542-12
	13	弹簧 Spring	0.08	CRE542-13
	14	限位轴套 Mount Sample Tube	0.86	CRE542-14
	15	"O" 形圈 "O"Ring	0.02	CRE542-15
	16	内缸 Linner Cylinder	7.26	CRE542-16
	17	"O" 形圈 "O"Ring	0.02	CRE542-17
	18	活塞 Piston	11.64	CRE542-18
	19	外缸 Piston Case	19.17	CRE542-19
	20	衬套 Bush Drive Sub	2.35	CRE542-20
	21	"O" 形圈 "O" Ring	0.02	CRE542-21
	22	弹性挡圈 Piston Retaining Ring	0.05	CRE542-22
	23	卡环 Bit Retaining Ring	0.26	CRE542-23
	24	"O" 形圈 "O"Ring	0.02	CRE542-24
	25	耐磨套 Shroud	2.21	CRE542-25
	26	卡钎套 Drive Sub	2.94	CRE542-26
	27	钻头 Drill Bit	10.96	CRE542-27

技术参数 Technical Date

总长 (不含钻头) Length(Less bit)	总重 (不含钻头) Weigth(Less bit)	冲击器外径 External diameter	可佩钻头钎柄 Bit Shank	钻孔范围 Hole range	后接头螺纹 Connection Thread
1191mm	51.0kg	Φ109.5mm	RE542	Φ113-Φ130	3.5" -4 " Remet 4 " Metzke
可用工作风压 Working Pressure	在2.4Mpa时的 冲击频率 Impact rate at 2.4Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.7Mpa	2.4Mpa	3.0Mpa
1.5-3.5Mpa	35HZ	25-40r/min	12m³/min	18m³/min	26m³/min

CRE543 反循环冲击器

CRE543 R.C .HAMMER

4.5" 反循环冲击器系列 4.5" R.C. Hammers		零部件名称 Item Description	重量 Weight (Kg)	零部件代号 Part Number
	1	卡簧 Circlip	0.04	CRE543-01
	2	联接管 Adaptor Screen	2.55	CRE543-02
	3	"O" 形圈 "O"Ring	0.02	CRE543-03
	4	接头 Top Sub	8.52	CRE543-04
	5	采集管 Sample Tube	3.5	CRE543-05
	6	"O" 形圈 "O"Ring	0.02	CRE543-06
	7	卡簧 Circlip	0.04	CRE543-07
	8	过滤板 Airstreen	0.02	CRE543-08
	9	通气筛 Distributor Nozzle	0.56	CRE543-09
	10	"O" 形圈 "O"Ring	0.02	CRE543-10
	11	逆止阀 Plunger	0.50	CRE543-11
	12	"Y" 形圈 "Y" Ring	0.02	CRE543-12
	13	弹簧 Spring	0.08	CRE543-13
	14	限位轴套 Mount Sample Tube	0.86	CRE543-14
	15	"O" 形圈 "O"Ring	0.02	CRE543-15
	16	内缸 Linner Cylinder	7.26	CRE543-16
	17	"O" 形圈 "O"Ring	0.02	CRE543-17
	18	活塞 Piston	11.64	CRE543-18
	19	外缸 Piston Case	19.17	CRE543-19
	20	衬套 Bush Drive Sub	2.35	CRE543-20
	21	"O" 形圈 "O" Ring	0.02	CRE543-21
	22	弹性挡圈 Piston Retaining Ring	0.05	CRE543-22
	23	卡环 Bit Retaining Ring	0.26	CRE543-23
	24	"O" 形圈 "O"Ring	0.02	CRE543-24
	25	耐磨套 Shroud	2.21	CRE543-25
	26	卡钎套 Drive Sub	2.94	CRE543-26
	27	钻头 Drill Bit	10.96	CRE543-27

技术参数 Technical Date

总长 (不含钻头) Length(Less bit)	总重 (不含钻头) Weigth(Less bit)	冲击器外径 External diameter	可佩钻头钎柄 Bit Shank	钻孔范围 Hole range	后接头螺纹 Connection Thread
1191mm	62.0kg	Φ116mm	RE543	Φ120-Φ135	3.5" -4 " Remet 4 " Metzke
可用工作风压 Working Pressure	在2.4Mpa时的 冲击频率 Impact rate at 2.4Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.7Mpa	2.4Mpa	3.0Mpa
1.5-3.5Mpa	35HZ	25-40r/min	12m³/min	18m³/min	26m³/min

CRE545 反循环冲击器

CRE545 R.C. HAMMER

5" 反循环冲击器系列 5" R.C. Hammers		零部件名称 Item Description	重量 Weight (Kg)	零部件代号 Part Number
	1	卡簧 Circlip	0.04	CRE545-01
	2	"O" 形圈 "O" Ring	0.02	CRE545-02
	3	联接管 Adaptor Screen	2.95	CRE545-03
	4	"O" 形圈 "O" Ring	0.02	CRE545-04
	5	接头 Top Sub	6.98	CRE545-05
	6	采集管 Sample Tube	4.61	CRE545-06
	7	"O" 形圈 "O" Ring	0.02	CRE545-07
	8	卡簧 Circlip	0.04	CRE545-08
	9	过滤板 Airscreen	0.02	CRE545-09
	10	通气筛 Distributor Nozzle	0.48	CRE545-10
	11	"O" 形圈 "O" Ring	0.02	CRE545-11
	12	逆止阀 Plunger	0.53	CRE545-12
	13	"Y" 形圈 "Y" Ring	0.02	CRE545-13
	14	弹簧 Spring	0.12	CRE545-14
	15	"O" 形圈 "O" Ring	0.02	CRE545-15
	16	内缸 Linner Cylinder	10.20	CRE545-16
	17	活塞 Piston	15.10	CRE545-17
	18	外缸 Piston Case	17.20	CRE545-18
	19	衬套 Bush Drive Sub	2.95	CRE545-19
	20	"O" 形圈 "O" Ring	0.02	CRE545-20
	21	弹性挡圈 Piston Retaining Ring	0.04	CRE545-21
	22	卡环 Bit Retaining Ring	0.23	CRE545-22
	23	"O" 形圈 "O" Ring	0.02	CRE545-23
	24	耐磨套 Shroud	1.60	CRE545-24
	25	卡钎套 Drive Sub	3.41	CRE545-25
	26	钻头 Drill Bit	12.60	CRE545-26

技术参数 Technical Date

总长 (不含钻头) Length(Less bit)	总重 (不含钻头) Weigth(Less bit)	冲击器外径 External diameter	可佩钻头钎柄 Bit Shank	钻孔范围 Hole range	后接头螺纹 Connection Thread
1261mm	65.0kg	Φ117.5mm	RE545	Φ122-Φ135	4" -4.5" Remet 4 " - 4.5 " Metzke
可用工作风压 Working Pressure	在2.4Mpa时的 冲击频率 Impact rate at 2.4Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.7Mpa	2.4Mpa	3.0Mpa
1.5-3.5Mpa	35HZ	25-40r/min	16m³/min	22m³/min	28m³/min

CPR40 反循环冲击器

CPR 40 R.C. HAMMER

5" 反循环冲击器系列

5" R.C. Hammers

零部件名称 Item Description		重量 Weight (Kg)	零部件代号 Part Number	
1	卡簧	Circlip	0.04	CPR40-01
2	联接管	Adaptor Screen	1.51	CPR40-02
3	"O" 形圈	"O" Ring	0.02	CPR40-03
4	过滤接头	Top Sub	5.96	CPR40-04
5	上采集管	Sample Tube Upper	1.33	CPR40-05
6	接头	Top Sub	9.81	CPR40-06
7	过滤筛	Airscreen Bottom Load	0.27	CPR40-07
8	"O" 形圈	"O" Ring	0.02	CPR40-08
9	卡簧	Circlip	0.03	CPR40-09
10	逆止阀	Plunger	0.63	CPR40-10
11	"Y" 形圈	"Y" Ring	0.02	CPR40-11
12	弹簧	Spring	0.12	CPR40-12
13	垫圈	Make Up Ring Steel	0.09	CPR40-13
14	橡胶垫圈	Viton Make Up Ring	0.06	CPR40-14
15	"O" 形圈	"O" Ring	0.02	CPR40-15
16	配气座	Distributor	1.34	CPR40-16
17	"O" 形圈	"O" Ring	0.02	CPR40-17
18	下采集管	Sample Tube Lower	4.32	CPR40-18
19	"O" 形圈	"O" Ring	0.02	CPR40-19
20	限位轴套	Mount Sample Tube	0.97	CPR40-20
21	内缸	Linner Cylinder	7.69	CPR40-21
22	活塞	Piston	13.63	CPR40-22
23	外缸	Piston Case	24.14	CPR40-23
24	挡圈	Piston Retaining Ring	0.15	CPR40-24
25	衬套	Bush Drive Sub	1.96	CPR40-25
26	"O" 形圈	"O" Ring	0.02	CPR40-26
27	"O" 形圈	"O" Ring	0.02	CPR40-27
28	卡环	Bit Retaining Ring	0.31	CPR40-28
29	"O" 形圈	"O" Ring	0.02	CPR40-29
30	耐磨套	Shroud	2.20	CPR40-30
31	卡钎套	Drive Sub	3.67	CPR40-31
32	钻头	Drill Bit	15.09	CPR40-32

技术参数 Technical Date

总长 (不含钻头) Length(Less bit)	总重 (不含钻头) Weigth(Less bit)	冲击器外径 External diameter	可佩钻头钎柄 Bit Shank	钻孔范围 Hole range	后接头螺纹 Connection Thread
1362mm	80.5kg	Φ120.5mm	PR40	Φ124-Φ142	3.5 " -4.5 " Remet 3.5 " -4.5 " Metzke
可用工作风压 Working Pressure	在2.4Mpa时的 冲击频率 Impact rate at 2.4Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.7Mpa	2.4Mpa	3.0Mpa
1.5-3.5Mpa	35HZ	25-40r/min	16m³/min	22m³/min	28m³/min

CPR52 反循环冲击器

CPR52 R.C. HAMMER

5.5" 反循环冲击器系列 5.5" R.C. Hammers		零部件名称 Item Description	重量 Weight (Kg)	零部件代号 Part Number
	1	"O" 形圈 "O" Ring	0.02	CPR52-01
	2	联接管 Adaptor Screen	2.19	CPR52-02
	3	卡簧 Adaptor Screen	0.04	CPR52-03
	4	过滤筛 Aircscreen Top Load	0.42	CPR52-04
	5	卡簧 Cirdlip	0.03	CPR52-05
	6	接头 Top Sub	8.92	CPR52-06
	7	逆止阀 Plunger	0.63	CPR52-07
	8	"Y" 形圈 "Y" Ring	0.03	CPR52-08
	9	弹簧 Spring	0.12	CPR52-09
	10	垫圈 Make Up Ring Steel	0.10	CPR52-10
	11	橡胶垫圈 Viton Make Up Ring	0.05	CPR52-11
	12	"O" 形圈 "O" Ring	0.02	CPR52-12
	13	配气座 Distributor	1.31	CPR52-13
	14	"O" 形圈 "O" Ring	0.02	CPR52-14
	15	"O" 形圈 "O" Ring	0.02	CPR52-15
	16	采集管 Sample Tube	4.52	CPR52-16
	17	"O" 形圈 "O" Ring	0.02	CPR52-17
	18	限位轴套 Mount Sample Tube	0.80	CPR52-18
	19	内缸 Lnner Cylinder	7.39	CPR52-19
	20	活塞 Piston	14.63	CPR52-20
	21	外缸 Piston Case	18.86	CPR52-21
	22	挡圈 Piston Retaining Ring	0.13	CPR52-22
	23	衬套 Bush Drive Sub	1.89	CPR52-23
	24	"O" 形圈 "O" Ring	0.02	CPR52-24
	25	"O" 形圈 "O" Ring	0.02	CPR52-25
	26	卡环 Bit Retaining Ring	0.31	CPR52-26
	27	"O" 形圈 "O" Ring	0.02	CPR52-27
	28	耐磨套 Shroud	1.86	CPR52-28
	29	卡钎套 Drive Sub	4.17	CPR52-29
	30	钻头 Drill Bit	11.01	CPR52-30

技术参数 Technical Date

总长 (不含钻头) Length(Less bit)	总重 (不含钻头) Weigth(Less bit)	冲击器外径 External diameter	可佩钻头钎柄 Bit Shank	钻孔范围 Hole range	后接头螺纹 Connection Thread
1227mm	68.5kg	Φ121mm	PR52	Φ126-Φ142	4" -4.5" Remet 4 " - 4 .5" Metzke
可用工作风压 Working Pressure	在2.4Mpa时的 冲击频率 Impact rate at 2.4Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.7Mpa	2.4Mpa	3.0Mpa
1.5-3.5Mpa	35HZ	25-40r/min	16m³/min	22m³/min	28m³/min

CRE547 反循环冲击器

CRE547 R.C. HAMMER

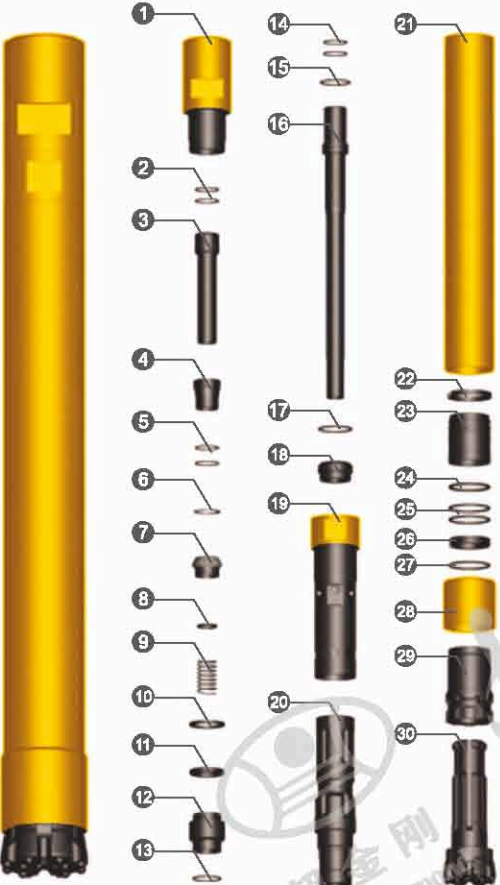
5.5" 反循环冲击器系列 5.5" R.C. Hammers		零部件名称 Item Description	重量 Weight (Kg)	零部件代号 Part Number
	1	卡簧 Circlip	0.04	CRE547-01
	2	"O" 形圈 "O" Ring	0.02	CRE547-02
	3	联接管 Adaptor Screen	2.95	CRE547-03
	4	"O" 形圈 "O" Ring	0.02	CRE547-04
	5	接头 Top Sub	7.38	CRE547-05
	6	采集管 Sample Tube	4.81	CRE547-06
	7	"O" 形圈 "O" Ring	0.02	CRE547-07
	8	卡簧 Circlip	0.04	CRE547-08
	9	过滤板 Aircscreen	0.02	CRE547-09
	10	通气筛 Distributor Nozzle	0.48	CRE547-10
	11	"O" 形圈 "O" Ring	0.02	CRE547-11
	12	逆止阀 Plunger	0.53	CRE547-12
	13	"Y" 形圈 "Y" Ring	0.02	CRE547-13
	14	弹簧 Spring	0.12	CRE547-14
	15	"O" 形圈 "O" Ring	0.02	CRE547-15
	16	内缸 Lnner Cylinder	10.97	CRE547-16
	17	活塞 Piston	17.08	GRE547-17
	18	外缸 Piston Case	18.55	CRE547-18
	19	衬套 Bush Drive Sub	3.04	CRE547-19
	20	"O" 形圈 "O" Ring	0.02	CRE547-20
	21	弹性挡圈 Piston Retaining Ring	0.04	CRE547-21
	22	卡环 Bit Retaining Ring	0.23	CRE547-22
	23	"O" 形圈 "O" Ring	0.02	GRE547-23
	24	耐磨套 Shroud	1.70	CRE547-24
	25	卡钎套 Drive Sub	3.61	CRE547-25
	26	钻头 Drill Bit	14.30	CRE547-26

技术参数 Technical Date

总长 (不含钻头) Length(Less bit)	总重 (不含钻头) Weigth(Less bit)	冲击器外径 External diameter	可佩钻头钎柄 Bit Shank	钻孔范围 Hole range	后接头螺纹 Connection Thread
1270mm	71.0kg	Φ124.5mm	RE547	Φ130-Φ146	4 .5" Remet 4 .5" Metzke
可用工作风压 Working Pressure	在2.4Mpa时的 冲击频率 Impact rate at 2.4Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.7Mpa	2.4Mpa	3.0Mpa
1.5-3.5Mpa	35HZ	25-40r/min	16m³/min	22m³/min	28m³/min

CPR54 反循环冲击器

CPR54 R.C. HAMMER

5.5" 反循环冲击器系列 5.5" R.C. Hammers		零部件名称 Item Description	重量 Weight (Kg)	零部件代号 Part Number
	1	接头 Top Sub	11.61	CPR54-01
	2	"O" 形圈 "O" Ring	0.02	CPR54-02
	3	联接管 Adaptor Screen	2.35	CPR54-03
	4	过滤筛 Air Screen	0.37	CPR54-04
	5	"O" 形圈 "O" Ring	7.79	CPR54-05
	6	卡簧 Circlip	0.04	CPR54-06
	7	逆止阀 Plunger	0.58	CPR54-07
	8	"Y" 形圈 "Y" Ring	0.02	CPR54-08
	9	弹簧 Spring	0.12	CPR54-09
	10	垫圈 Make Up Ring Steel	0.14	CPR54-10
	11	橡胶垫圈 Viton Make Up Ring	0.06	CPR54-11
	12	配气座 Distributor	1.54	CPR54-12
	13	"O" 形圈 "O" Ring	0.02	CPR54-13
	14	"O" 形圈 "O" Ring	0.02	CPR54-14
	15	"O" 形圈 "O" Ring	0.02	CPR54-15
	16	采集管 Sample Tube	6.47	CPR54-16
	17	"O" 形圈 "O" Ring	0.02	CPR54-17
	18	限位轴套 Mount Sample Tube	1.02	CPR54-18
	19	内缸 Inner Cylinder	8.54	CPR54-19
	20	活塞 Piston	17.20	CPR54-20
	21	外缸 Piston Case	23.44	CPR54-21
	22	挡圈 Piston Retaining Ring	0.20	CPR54-22
	23	衬套 Bush Drive Sub	2.53	CPR54-23
	24	"O" 形圈 "O" Ring	0.02	CPR54-24
	25	"O" 形圈 "O" Ring	0.02	CPR54-25
	26	卡环 Bit Retaining Ring	0.43	CPR54-26
	27	"O" 形圈 "O" Ring	0.02	CPR54-27
	28	耐磨套 Shroud	2.35	CPR54-28
	29	卡钎套 Drive Sub	4.90	CPR54-29
	30	钻头 Drill Bit	18.33	CPR54-30

技术参数 Technical Date

总长 (不含钻头) Length(Less bit)	总重 (不含钻头) Weigth(Less bit)	冲击器外径 External diameter	可佩钻头钎柄 Bit Shank	钻孔范围 Hole range	后接头螺纹 Connection Thread
1294mm	84.5kg	Φ130mm	PR54	Φ135-Φ150	4.5 " Remet 4.5 " Metzke
可用工作风压 Working Pressure	在2.4Mpa时的 冲击频率 Impact rate at 2.4Mpa	推荐转速 Recommended rotation speed	耗风量 Air consumption		
			1.7Mpa	2.4Mpa	3.0Mpa
1.5-3.5Mpa	35HZ	25-40r/min	16m³/min	22m³/min	28m³/min

RE 531 反循环钻头与配套耐磨套

RE 531 Reverse circulation drill bit and shroud

	直径 Diameter		合金数量、直径 No x Button diameter , mm		角度 Button angle°	水孔 Flushing holes	耐磨套 外径 Shroud Diameter	重量 Weight (Kg)	编号 Part No
	mm	inch	边齿 Gauge Buttons	中齿 Front Buttons					
	86	2 1/4	6x12	4x12	35	2	84	4.2	RE531-86
	89	2 1/2	8x12	5x12	35	2	87	4.3	RE531-89
	95	2 3/4	8x12	6x12	35	2	93	4.6	RE531-95
	102	3	8x12	6x12	35	2	100	4.9	RE531-102

RE 004 反循环钻头与配套耐磨套

RE 004 Reverse circulation drill bit and shroud

	直径 Diameter		合金数量、直径 No x Button diameter , mm		角度 Button angle°	水孔 Flushing holes	耐磨套 外径 Shroud Diameter	重量 Weight (Kg)	编号 Part No
	mm	inch	边齿 Gauge Buttons	中齿 Front Buttons					
	114	4 1/2	8x14	6x14	35	2	112	11.5	RE004-114
	118	4 5/8	8x14	6x14	35	2	116	11.7	RE004-118
	121	4 3/4	8x14	6x14	35	2	119	12.0	RE004-121
	127	5	8x14	8x14	35	2	125	12.4	RE004-127

RE 542 反循环钻头与配套耐磨套

RE 542 Reverse circulation drill bit and shroud

	直径 Diameter		合金数量、直径 No x Button diameter , mm		角度 Button angle°	水孔 Flushing holes	耐磨套 外径 Shroud Diameter	重量 Weight (Kg)	编号 Part No
	mm	inch	边齿 Gauge Buttons	中齿 Front Buttons					
	121	4 3/4	8x14	6x14	35	2	119	10.6	RE542-121
	124	4 7/8	8x14	8x13	35	2	122	10.8	RE542-124
	127	5	8x14	8x14	35	2	125	11.0	RE542-127
	130	5 1/8	8x14	10x14	35	2	128	11.3	RE542-130

RE 543 反循环钻头与配套耐磨套

RE 543 Reverse circulation drill bit and shroud

直径 Diameter		合金数量、直径 No x Button diameter, mm		角度 Button angle°	水孔 Flushing holes	耐磨套 外径 Shroud Diameter	重量 Weight (Kg)	编号 Part No
mm	Inch	边齿 Gauge Buttons	中齿 Front Buttons					
124	4 7/8	8x14	8x13	35	2	122	10.8	RE543-124
127	5	8x14	8x14	35	2	125	11.0	RE543-127
130	5 1/8	8x14	10x14	35	2	128	11.3	RE543-130
133	5 1/4	8x16	10x14	35	2	131	11.8	RE543-133

RE 545 反循环钻头与配套耐磨套

RE 545 Reverse circulation drill bit and shroud



直径 Diameter		合金数量、直径 No x Button diameter, mm		角度 Button angle°	水孔 Flushing holes	耐磨套 外径 Shroud Diameter	重量 Weight (kg)	编号 Part No
mm	Inch	边齿 Gauge Buttons	中齿 Front Buttons					
124	4 7/8	8x14	8x13	35	2	122	13.3	RE545-124
127	5	8x14	8x14	35	2	125	13.5	RE545-127
133	5 1/4	8x16	10x14	35	2	131	13.8	RE545-133
136	5 3/8	8x16	8x16+3x14	35	2	134	14.2	RE545-136

PR 40 反循环钻头与配套耐磨套

PR 40 Reverse circulation drill bit and shroud



直径 Diameter		合金数量、直径 No x Button diameter, mm		角度 Button angle°	水孔 Flushing holes	耐磨套 外径 Shroud Diameter	重量 Weight (kg)	编号 Part No
mm	Inch	边齿 Gauge Buttons	中齿 Front Buttons					
124	4 7/8	8x14	8x13	35	2	122	14.3	PR40-124
127	5	8x14	8x14	35	2	125	14.7	PR40-127
133	5 1/4	8x16	10x14	35	2	131	16.2	PR40-133
136	5 7/16	8x16	8x16+3x14	35	2	136	15.8	PR40-136

PR 52 反循环钻头与配套耐磨套

PR 52 Reverse circulation drill bit and shroud



直径 Diameter		合金数量、直径 No x Button diameter, mm		角度 Button angle°	水孔 Flushing holes	耐磨套 外径 Shroud Diameter	重量 Weight (Kg)	编号 Part No
mm	Inch	边齿 Gauge Buttons	中齿 Front Buttons					
133	5 1/4	8x16	10x14	35	2	131	11.2	PR52-133
138	5 3/8	8x16	8x16+3x14	35	2	134	11.5	PR52-138
140	5 1/2	8x16	8x16+3x14	35	2	138	11.9	PR52-140
143	5 5/8	8x16	8x16+3x14	35	2	141	12.3	PR52-143

RE 547 反循环钻头与配套耐磨套

RE 547 Reverse circulation drill bit and shroud



直径 Diameter		合金数量、直径 No x Button diameter, mm		角度 Button angle°	水孔 Flushing holes	耐磨套 外径 Shroud Diameter	重量 Weight (Kg)	编号 Part No
mm	Inch	边齿 Gauge Buttons	中齿 Front Buttons					
138	5 3/8	8x16	8x16+3x14	35	2	134	15.1	RE547-138
140	5 1/2	8x16	8x16+3x14	35	2	138	15.5	RE547-140
143	5 5/8	8x16	8x16+3x14	35	2	141	15.8	RE547-143
146	5 3/4	8x16	8x16+3x14	35	2	144	16.3	RE547-146

PR 54 反循环钻头与配套耐磨套

PR 54 Reverse circulation drill bit and shroud



直径 Diameter		合金数量、直径 No x Button diameter, mm		角度 Button angle°	水孔 Flushing holes	耐磨套 外径 Shroud Diameter	重量 Weight (Kg)	编号 Part No
mm	Inch	边齿 Gauge Buttons	中齿 Front Buttons					
138	5 3/8	8x16	8x16+3x14	35	2	134	18.2	PR54-138
140	5 1/2	8x16	8x16+3x14	35	2	138	18.5	PR54-140
143	5 5/8	8x16	8x16+3x14	35	2	141	18.8	PR54-143
146	5 3/4	8x16	8x16+3x14	35	2	144	19.2	PR54-146

反循环钻杆（双壁钻杆） reverse circulation pipes (dual wall drilling)

气举反循环钻进是将压缩空气沿输气管送入井内一定深度后，经混合器注入管内与液体混合。由于混合液的密度小于冲洗液的密度，因此在井筒内与排渣管间产生压差，并在井筒液柱压力作用下使排浆管内混合的气液以较快速度向上流动，从而将孔底的岩心或岩屑连续不断的排出地表。该钻进方法具有钻进效率高，成孔质量好，在松散地层中施工不易发生孔壁坍塌事故等优点。

High pressure air transported into somewhere of the well along with air pip, via mixer to inject the high-pressure air into the pipe with liquid, due to the density of mixed liquor lower than the flushing liquor therefore a differential pressure occurred between pipe and sample tube that to make the mixed air and liquid flow up fleetly by the fluid column pressure and take the rock debris or powder out to the ground from bottom of the hole continuously. By this drilling method will provide with advantages like high penetration rate, quality pore-forming and fewer hole collapse during drilling in loose formation.

本系列气举反循环钻杆可有效提高漏层钻井效率，并减少或消除钻井液的漏失，保护储层、节约耗材开支。另外，此款钻杆可采取正循环、反循环两种方法压井，并控灵活。反循环压井重泥浆可以直接送至井底，不必分段循环，缩短处理时间。

This series reverse circulation pipes can increase penetration in lost-circulation formation, reduce drilling fluid consumption, protect reservoir stratum and save the cost of other consumption tools. In additional, the pipes can be worked in two direction circulation drilling ways to control the well drilling. By reverse circulation method to kill the well the heavy mud can be transferred directly to the bottom of well, no periodic circulation and save time.

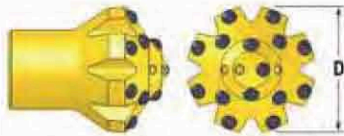
型号 TYPE	外管外径 external dia. of outer pipe	内管内径 Inner dia. of inner pipe	接头螺纹 Thread of pipe	单根长度 length	内管密封方式 sealing	钻孔深度(m) Depth	备注 Marks
HJG80/48	80x8	48x5	偏梯形 butress thread	1500-6000	双O型圈径向 dual O ring radial	300-800	外管R780 或DZ50(可选) 内管45#
HJG89/38	89x8.56	38x4	3"Remet/Metzke	1500-6000	双O型圈径向 dual O ring radial	300-800	
HJG102/46	102x8.56	46x5	3"Remet/Metzke	1500-6000	双O型圈径向 dual O ring radial	300-1000	
HJG108/46	108x8.56	46x5	3 1/2"Remet/Metzke	1500-6000	双O型圈径向 dual O ring radial	300-1200	
HJG114/50	114x8.56	50x5.5	4"Remet/Metzke	1500-6000	双O型圈径向 dual O ring radial	300-1200	
HJG120/80	127x9.35	80x7	4"Remet/Metzke	1500-6000	双O型圈径向 dual O ring radial	5000以下	
HJG146/73	146x10	75	4 1/2"Remet/Metzke	1500-6000	双O型圈径向 dual O ring radial	5000以下	



BENCH DRILLING R32

Drill Bit	Length		Tip Size(mm)			Flushing Hole		Weight Approx kg	HJG DRILL P/N
	mm	inch	Front	Gauge	Angle	Front	Side		

Dome bit for reaming



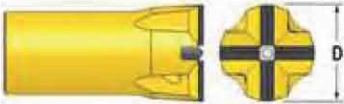
Spherical buttons

76	3	1×13	9×13	35°	3	1	2.0	1441-76R32-113/913-45-31
89	3 1/2	1×13	14×13	35°	2	2	2.6	1441-89R32-113/1413-45-31
102	4	1×13	16×13	35°	2	2	3.2	1441-102R32-113/1613-45-31
127	5	1×13	18×13	35°	3	1	4.8	1441-127R32-113/1813-45-31

Parabolic buttons

76	3	1×13	9×13	35°	3	1	2.0	1441-76R32-113/913-45-51
89	3 1/2	1×13	14×13	35°	2	2	2.6	1441-89R32-113/1413-45-51
102	4	1×13	16×13	35°	2	2	3.2	1441-102R32-113/1613-45-51
127	5	1×13	18×13	35°	3	1	4.8	1441-127R32-113/1813-45-51

Cross-type bits



45	1 3/4	16×10	-	1	4	0.9	1221-45R32-16/10-42-23
48	1 7/8	16×10	-	1	4	0.9	1221-48R32-16/10-42-23
51	2	16×10	-	1	4	1.2	1221-51R32-16/10-42-23
57	2 1/4	16×10	-	1	4	1.3	1221-57R32-16/10-42-23
64	2 1/2	18×13	-	1	4	1.5	1221-64R32-18/13-42-23

Drill Rod	Length		Diameter		Weight Approx kg	HJG DRILL P/N
	mm	foot	mm	inch		

Extension rod R32-Round32-R32

Flushing hole 9.2mm.

Wrench flat 25.4mm.

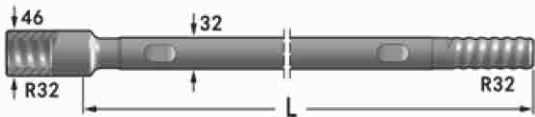


915	3'	32	1 1/4	5.4	23R32-R32-0915-23
1000	3'33/8"	32	1 1/4	5.9	23R32-R32-1000-23
1220	4'	32	1 1/4	7.2	23R32-R32-1220-23
1830	6'	32	1 1/4	10.8	23R32-R32-1830-23
2435	8'	32	1 1/4	14.3	23R32-R32-2435-23
3050	10'	32	1 1/4	17.9	23R32-R32-3050-23
3660	12'	32	1 1/4	21.5	23R32-R32-3660-23

MF-rod R32-Round32-R32

Flushing hole 9.2mm.

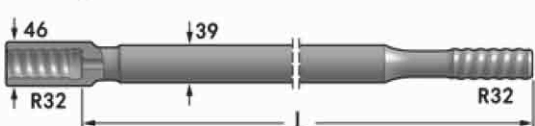
Wrench flat 25.4mm.



915	3'	32	1 1/4	6.2	24R32-R32/46-0915-23
1220	4'	32	1 1/4	8.0	24R32-R32/46-1220-23
1525	5'	32	1 1/4	9.8	24R32-R32/46-1525-23
1830	6'	32	1 1/4	11.6	24R32-R32/46-1830-23
2435	8'	32	1 1/4	15.1	24R32-R32/46-2435-23
3050	10'	32	1 1/4	18.7	24R32-R32/46-3050-23
3660	12'	32	1 1/4	22.3	24R32-R32/46-3660-23

Guide speedrod R32-Round39-R32

Flushing hole 14.5mm.



3050	10'	39	1 1/2	27.0	24R39-R32/46-3050-23
3660	12'	39	1 1/2	32.0	24R39-R32/46-3660-23

BENCH DRILLING R32

	Length		Diameter		Weight Approx kg	HJG DRILL P/N
	mm	inch	mm	inch		

Guide tube
D46 for bits from 51-64mm



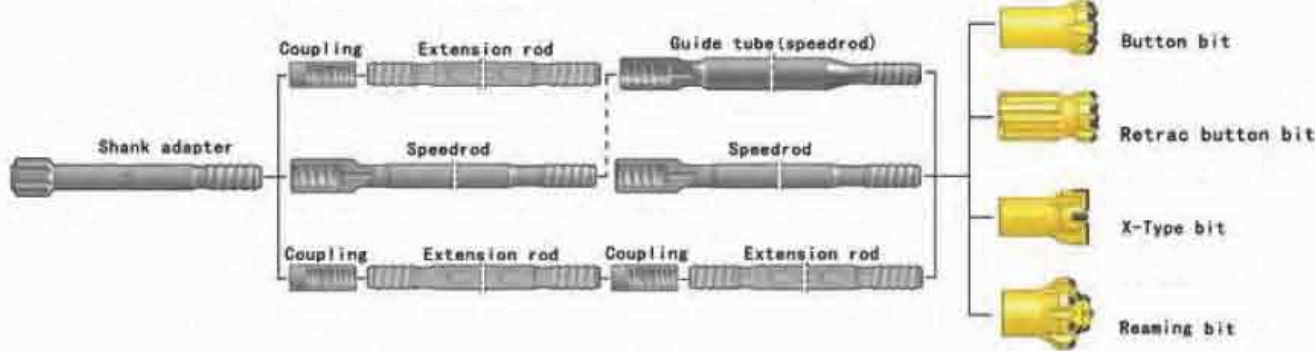
1220	4'	46	1 3/4	10.0	24R46-R32/46-1220-23
1625	5'	46	1 3/4	12.6	24R46-R32/46-1625-23
1830	6'	46	1 3/4	14.2	24R46-R32/46-1830-23
3050	10'	46	1 3/4	25.0	24R46-R32/46-3050-23

Coupling	Length		Diameter		Thread	Weight Approx kg	HJG DRILL P/N
	mm	inch	mm	inch			

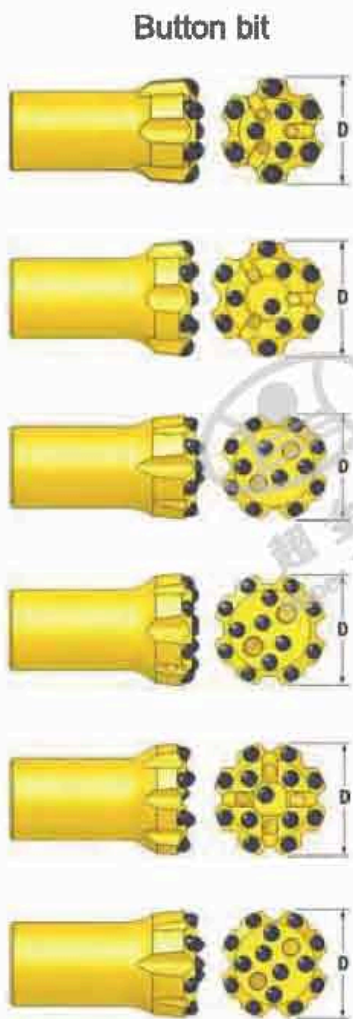


160	6 1/8	44	1 3/4	R32	1.0	31-R32-44-160-23
180	6 1/4	44	1 3/4	R32	1.1	31-R32-44-180-23

BENCH DRILLING T38



Drill Bit	Length		Tip Size(mm)			Flushing Hole		Weight Approx kg	HJG DRILL P/N
	mm	inch	Front	Gauge	Angle	Front	Side		

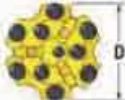
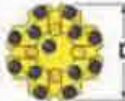
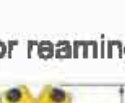


Spherical buttons								
64	2 1/2	3x11	8x12	35°	3	-	1.8	1431-64T38-311/812-45-31
64	2 1/2	4x10	8x10	40°	2	-	1.6	1431-64T38-410/810-45-31
64	2 1/2	3x10,1x10	8x11	35°	3	-	1.7	1433-64T38-410/811-45-31
70	2 3/4	4x11	8x11	40°	2	-	1.8	1431-70T38-411/811-45-31
70	2 3/4	4x10,1x10	8x11	30°	4	-	1.8	1432-70T38-510/811-45-31
70	2 3/4	3x10,1x10	8x12	35°	3	-	1.8	1433-70T38-410/812-45-31
76	3	4x11	8x11	40°	2	-	2.4	1431-76T38-411/811-45-31
76	3	5x11	8x13	35°	2	1	2.4	1431-76T38-511/813-45-31
76	3	3x11,1x11	8x12	35°	3	1	2.6	1433-76T38-411/812-45-31
76	3	4x11,1x11	8x12	35°	4	-	2.6	1432-76T38-511/812-45-31
76	3	4x11,1x11	8x11	40°	4	-	2.6	1432-76T38-511/811-45-31
89	3 1/2	4x13	8x13	40°	2	-	3.3	1431-89T38-413/813-45-31
89	3 1/2	5x13	8x13	35°	2	-	3.3	1431-89T38-513/813-45-31
89	3 1/2	6x11	8x12	35°	2	-	3.3	1431-89T38-611/812-45-31
89	3 1/2	3x11,2x11	8x13	35°	3	1	3.3	1433-89T38-511/813-45-31
89	3 1/2	4x11,1x11	8x13	35°	4	-	3.3	1433-89T38-511/813-45-31
89	3 1/2	4x13,1x13	8x13	35°	4	-	3.3	1432-89T38-513/813-45-31
Parabolic buttons								
64	2 1/2	3x11	8x12	35°	3	-	1.8	1431-64T38-311/812-45-51
64	2 1/2	4x10	8x10	40°	2	-	1.6	1431-64T38-410/810-45-51
64	2 1/2	3x10,1x10	8x11	35°	3	-	1.7	1433-64T38-410/811-45-51
70	2 3/4	4x11	8x11	40°	2	-	1.8	1431-70T38-411/811-45-51
70	2 3/4	3x10,1x10	8x12	35°	3	-	1.8	1433-70T38-410/812-45-51
76	3	4x11	8x11	40°	2	-	2.4	1431-76T38-411/811-45-51
76	3	5x11	8x13	35°	2	1	2.4	1431-76T38-511/813-45-51
76	3	3x11,1x11	8x13	35°	3	1	2.6	1433-76T38-411/813-45-51
76	3	4x11,1x11	8x12	35°	4	-	2.6	1432-76T38-511/812-45-51
76	3	4x11,1x11	8x11	40°	4	-	2.6	1432-76T38-511/811-45-51
89	3 1/2	5x13	8x13	35°	2	-	3.3	1431-89T38-513/813-45-51
89	3 1/2	6x11	8x12	35°	2	-	3.3	1431-89T38-611/812-45-51
89	3 1/2	3x11,2x11	8x13	35°	3	1	3.3	1433-89T38-511/813-45-51
89	3 1/2	4x11,1x11	8x13	35°	4	-	3.3	1433-89T38-511/813-45-51
89	3 1/2	4x13,1x13	8x13	35°	4	-	3.3	1432-89T38-513/813-45-51

BENCH DRILLING T38

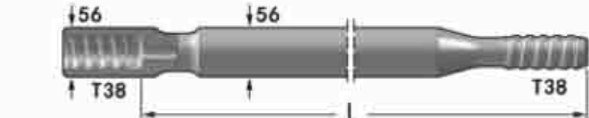
Drill Rod	Length		Diameter		Weight Approx kg	HJG DRILL P/N
	mm	foot	mm	Inch		
Extension rod T38-Round39-T38 Flushing hole 14.5mm. Wrench flat 32mm.	1220	4'	39	1 1/2	10.2	23R39-T38-1220-23
	1626	5'	39	1 1/2	12.8	23R39-T38-1626-23
	1830	6'	39	1 1/2	15.3	23R39-T38-1830-23
	2435	8'	39	1 1/2	20.4	23R39-T38-2435-23
	3050	10'	39	1 1/2	25.5	23R39-T38-3050-23
	3660	12'	39	1 1/2	30.9	23R39-T38-3660-23
	3965	13'	39	1 1/2	33.2	23R39-T38-3965-23
	4270	14'	39	1 1/2	36.7	23R39-T38-4270-23
	4880	16'	39	1 1/2	41.0	23R39-T38-4880-23
	5530	18'11/2"	39	1 1/2	46.3	23R39-T38-5530-23
	6095	20'	39	1 1/2	50.9	23R39-T38-6095-23
MF-rod T38-Round39-T38 Flushing hole 14.5mm.	915	3'	39	1 1/2	10.7	24R39-T38/57-0915-23
	1220	4'	39	1 1/2	13.3	24R39-T38/57-1220-23
	1626	5'	39	1 1/2	15.8	24R39-T38/57-1626-23
	1830	6'	39	1 1/2	18.3	24R39-T38/57-1830-23
	3050	10'	39	1 1/2	28.5	24R39-T38/57-3050-23
	3660	12'	39	1 1/2	33.8	24R39-T38/57-3660-23
	4270	14'	39	1 1/2	36.7	24R39-T38/57-4270-23
	4880	16'	39	1 1/2	43.7	24R39-T38/57-4880-23
	5530	18'11/2"	39	1 1/2	48.2	24R39-T38/57-5530-23
	6095	20'	39	1 1/2	53.9	24R39-T38/57-6095-23
Hex. extension rod T38-Hex32-T38 Flushing hole 9.6mm.	1220	4'	32	1 1/4	8.8	23H32-T38-1220-23
	1830	6'	32	1 1/4	12.6	23H32-T38-1830-23
	2435	8'	32	1 1/4	16.6	23H32-T38-2435-23
	3050	10'	32	1 1/4	20.8	23H32-T38-3050-23
	3660	12'	32	1 1/4	24.9	23H32-T38-3660-23
Double thread rod T38-Round39-T38 Flushing hole 14.5mm. Wrench flat 32mm.	3050	10'	46	1 3/4	26.7	23R38-T38/2T38-3050-23
	3660	12'	46	1 3/4	30.9	23R38-T38/2T38-3660-23
Guide speedrod T38-Round46-T38 Flushing hole 17mm.	1830	6'	46	1 3/4	23.5	24R46-T38/57-1830-23
	3050	10'	46	1 3/4	37.2	24R46-T38/57-3050-23
	3660	12'	46	1 3/4	44.0	24R46-T38/57-3660-23
	4270	14'	46	1 3/4	50.9	24R46-T38/57-4270-23
	4880	16'	46	1 3/4	57.7	24R46-T38/57-4880-23
	5530	18'11/2"	46	1 3/4	65.0	24R46-T38/57-5530-23
	6095	20'	46	1 3/4	71.3	24R46-T38/57-6095-23

BENCH DRILLING T38

Drill Bit	Length		Tip Size(mm)			Flushing Hole		Weight Approx kg	HJG DRILL P/N
	mm	Inch	Front	Gauge	Angle	Front	Side		
Button bit									
Spherical buttons									
	64	2 1/2	4×10	8×10	30°	2	-	2.2	1631-64T38-410/810-45-31
	64	2 1/2	3×10,1×10	8×11	35°	3	-	2.2	1633-64T38-410/811-45-31
	70	2 3/4	4×11	8×11	40°	2	-	2.4	1531-70T38-411/811-45-31
	70	2 3/4	3×10,1×10	8×13	35°	3	-	2.4	1533-70T38-410/813-45-31
	70	2 3/4	4×10,1×10	8×11	35°	4	-	2.4	1632-70T38-510/811-45-31
	76	3	4×11	8×11	40°	2	-	3.3	1531-76T38-411/811-45-31
	76	3	4×11,1×11	8×11	35°	4	-	3.3	1632-76T38-511/811-45-31
	76	3	4×11,1×11	8×12	35°	4	-	3.3	1632-76T38-511/812-45-31
	89	3 1/2	4×13	8×13	40°	2	-	4.8	1631-89T38-413/813-45-31
	89	3 1/2	5×13	8×13	35°	2	-	4.8	1631-89T38-513/813-45-31
	89	3 1/2	8×11	8×12	35°	2	-	4.8	1631-89T38-611/812-45-31
	89	3 1/2	4×11,1×11	8×13	35°	4	-	4.8	1633-89T38-611/813-45-31
	89	3 1/2	4×13,1×13	8×13	35°	4	-	4.8	1632-89T38-513/813-45-31
	Parabolic buttons								
	64	2 1/2	4×10	8×10	30°	2	-	2.2	1631-64T38-410/810-45-31
	64	2 1/2	3×10,1×10	8×11	35°	3	-	2.2	1533-64T38-410/811-45-31
	70	2 3/4	4×11	8×11	40°	2	-	2.4	1631-70T38-411/811-45-31
	70	2 3/4	3×10,1×10	8×13	35°	3	-	2.4	1633-70T38-410/813-45-31
	70	2 3/4	4×10,1×10	8×11	35°	4	-	2.4	1632-70T38-510/811-45-31
	76	3	4×11	8×11	40°	2	-	3.3	1631-76T38-411/811-45-31
	76	3	4×11,1×11	8×11	35°	4	-	3.3	1632-76T38-611/811-45-31
	76	3	4×11,1×11	8×12	35°	4	-	3.3	1632-76T38-511/812-45-31
	89	3 1/2	4×13	8×13	40°	2	-	4.8	1631-89T38-413/813-45-31
	89	3 1/2	5×13	8×13	35°	2	-	4.8	1531-89T38-513/813-45-31
	89	3 1/2	8×11	8×12	35°	2	-	4.8	1531-89T38-611/812-45-31
	89	3 1/2	4×11,1×11	8×13	35°	4	-	4.8	1533-89T38-611/813-45-31
	89	3 1/2	4×13,1×13	8×13	35°	4	-	4.8	1632-89T38-513/813-45-31
	X-type bit								
	84	2 1/2	25×13	-	-	1	2	1.9	1321-84T38-25/13-42-23
	76	3	25×13	-	-	1	2	2.5	1321-76T38-25/13-42-23
	89	3 1/2	25×13	-	-	1	2	2.8	1321-89T38-25/13-42-23
	Dome bit for reaming								
	102	4	1×13	18×13	35°	2	2	3.8	1441-102T38-113/1813-45-31
	127	5	1×13	18×13	35°	1	3	5.2	1441-127T38-113/1813-45-31
	Spherical buttons								
	102	4	1×13	18×13	35°	2	2	3.8	1441-102T38-113/1813-45-31
	127	5	1×13	18×13	35°	1	3	5.2	1441-127T38-113/1813-45-31
	Parabolic buttons								
	102	4	1×13	18×13	35°	2	2	3.8	1441-102T38-113/1813-45-31
	127	5	1×13	18×13	35°	1	3	5.2	1441-127T38-113/1813-45-31

BENCH DRILLING **T38**

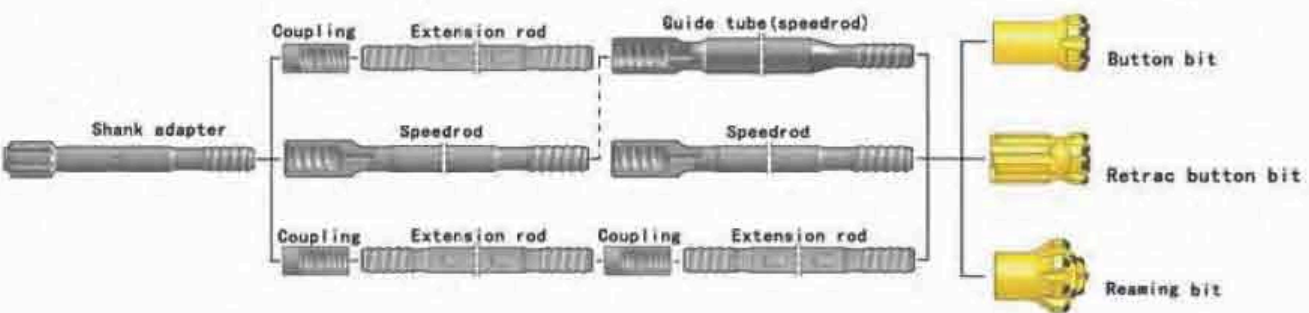
Guide Tube	Length		Diameter		Weight Approx kg	HJG DRILL P/N
	mm	Inch	mm	Inch		
Guide tube D56 for bits from 64-76mm and D64 for bits from 76-89mm	1220	4'	56	2 1/8	12.8	24G58-T38/56-1220-23
	1525	5'	56	2 1/8	14	24G58-T38/56-1525-23
	1830	6'	56	2 1/8	17.4	24G58-T38/56-1830-23
	3050	10'	56	2 1/8	28.3	24G58-T38/56-3050-23
	3660	12'	56	2 1/8	32.8	24G58-T38/56-3660-23
	4820	16'2"	56	2 1/8	47.9	24G58-T38/56-4820-23
	3660	12'	64	2 1/2	51	24G64-T38/64-3660-23



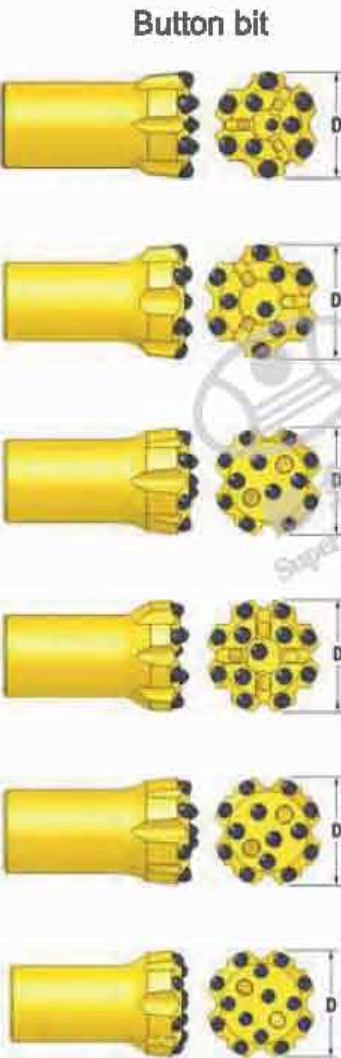
Coupling	Length		Diameter		Thread	Weight Approx kg	HJG DRILL P/N
	mm	Inch	mm	Inch			
Coupling sleeves	190	7 1/2	56	2 1/8	T38	2.1	31-T38-56-190-23



BENCH DRILLING **T45**



Drill Bit	Length		Tip Size(mm)			Flushing Hole		Weight Approx kg	HJG DRILL P/N
	mm	Inch	Front	Gauge	Angle	Front	Side		



Spherical buttons									
70	2 3/4	4x11	8x11	40°	2	-	-	2.3	1431-70T45-411/811-45-31
70	2 3/4	3x11,1x9	8x11	35°	3	-	-	2.2	1433-70T45-411/811-45-31
70	2 3/4	4x10,1x10	8x11	35°	4	-	-	2.2	1432-70T45-510/811-45-31
76	3	4x11	8x11	40°	2	-	-	2.6	1431-76T45-411/811-45-31
76	3	5x11	8x12	35°	2	1	-	2.8	1431-76T45-511/812-45-31
76	3	3x11,1x11	8x13	35°	3	-	-	2.4	1433-76T45-411/813-45-31
76	3	4x11,1x11	8x12	35°	4	-	-	2.6	1432-76T45-511/812-45-31
89	3 1/2	4x13	8x13	40°	2	-	-	4.6	1431-89T45-413/813-45-31
89	3 1/2	8x11	8x12	35°	2	-	-	4.6	1431-89T45-511/812-45-31
89	3 1/2	3x11,2x11	8x13	35°	3	1	-	4.1	1433-89T45-511/813-45-31
89	3 1/2	4x11,1x11	8x12	35°	4	-	-	4.6	1433-89T45-511/812-45-31
89	3 1/2	4x13,1x13	8x13	35°	4	-	-	4.6	1432-89T45-513/813-45-31
102	4	5x14	8x14	40°	2	-	-	5.0	1431-102T45-514/814-45-31
102	4	8x13	8x16	40°	2	1	-	5.0	1431-102T45-513/816-45-31
102	4	3x13,2x13	8x14	35°	3	1	-	4.5	1433-102T45-513/814-45-31
102	4	4x13,1x13	8x14	35°	4	-	-	4.5	1433-102T45-513/814-45-31
102	4	4x13,2x13	8x13	35°	4	1	-	4.5	1433-102T45-513/813-45-31

Parabolic buttons									
70	2 3/4	3x11,1x9	8x11	35°	3	-	-	2.2	1433-70T45-411/811-45-31
70	2 3/4	4x10,1x10	8x11	35°	4	-	-	2.2	1432-70T45-510/811-45-31
76	3	4x11	8x11	40°	2	-	-	2.6	1431-76T45-411/811-45-31
76	3	5x11	8x12	35°	2	1	-	2.8	1431-76T45-511/812-45-31
76	3	3x11,1x11	8x13	35°	3	1	-	2.4	1433-76T45-411/813-45-31
76	3	4x11,1x11	8x11	35°	4	-	-	2.6	1432-76T45-511/811-45-31
76	3	4x11,1x11	8x12	35°	4	-	-	2.6	1432-76T45-511/812-45-31
89	3 1/2	4x13	8x13	40°	2	-	-	4.6	1431-89T45-413/813-45-31
89	3 1/2	8x11	8x12	35°	2	-	-	4.6	1431-89T45-511/812-45-31
89	3 1/2	3x11,2x11	8x13	35°	3	1	-	4.1	1433-89T45-511/813-45-31
89	3 1/2	4x11,1x11	8x12	35°	4	-	-	4.6	1433-89T45-511/812-45-31
89	3 1/2	4x13,1x13	8x13	35°	4	-	-	4.6	1432-89T45-513/813-45-31

BENCH DRILLING T45

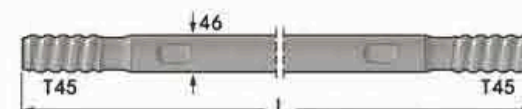
Drill Bit	Length		Tip Size(mm)			Flushing Hole		Weight Approx kg	HJG DRILL P/N
	mm	Inch	Front	Gauge	Angle	Front	Side		
Button bit									
Spherical buttons									
	70	2 3/4	4×11	8×11	40°	2	-	2.5	1531-70T45-411/811-45-31
	70	2 3/4	3×11,1×9	8×11	35°	3	-	2.5	1533-70T45-411/811-45-31
	70	2 3/4	4×10,1×10	8×11	35°	4	-	2.5	1632-70T45-510/811-45-31
	78	3	4×11	8×11	40°	2	-	3.2	1531-78T45-411/811-45-31
	78	3	5×11	8×12	35°	2	1	3.2	1531-78T45-511/812-45-31
	78	3	3×11,1×11	8×13	35°	3	-	3.2	1533-78T45-411/813-45-31
	78	3	4×11,1×11	8×11	35°	4	-	3.2	1632-78T45-511/811-45-31
	78	3	4×11,1×11	8×12	35°	4	-	3.2	1632-78T45-511/812-45-31
	88	3 1/2	4×13	8×13	40°	2	-	5.4	1531-88T45-413/813-45-31
	88	3 1/2	8×11	8×12	35°	2	-	5.4	1531-88T45-811/812-45-31
	88	3 1/2	3×11,2×11	8×13	35°	3	1	5.4	1533-88T45-511/813-45-31
	88	3 1/2	4×11,1×11	8×12	35°	4	-	5.4	1533-88T45-511/812-45-31
	88	3 1/2	4×13,1×13	8×13	35°	4	1	5.4	1632-88T45-513/813-45-31
	102	4	5×14	8×14	40°	2	-	6.8	1531-102T45-514/814-45-31
	102	4	5×13	8×16	40°	2	1	6.8	1631-102T45-813/816-45-31
	102	4	3×13,2×13	6×14	35°	3	1	6.8	1633-102T45-513/814-45-31
	102	4	4×13,1×13	8×14	35°	4	-	6.8	1533-102T45-513/814-45-31
	102	4	4×13,2×13	8×13	35°	4	1	6.8	1633-102T45-513/813-45-31
Parabolic buttons									
	70	2 3/4	3×11,1×9	8×11	35°	3	-	2.5	1533-70T45-411/811-45-51
	70	2 3/4	4×10,1×10	8×11	35°	4	-	2.5	1632-70T45-510/811-45-51
	76	3	4×11	8×11	40°	2	-	3.2	1531-76T45-411/811-45-51
	78	3	5×11	8×12	35°	2	1	3.2	1531-78T45-511/812-45-51
	78	3	3×11,1×11	8×13	35°	3	1	3.2	1533-78T45-411/813-45-51
	78	3	4×11,1×11	8×11	35°	4	-	3.2	1632-78T45-511/811-45-51
	78	3	4×11,1×11	8×12	35°	4	-	3.2	1632-78T45-511/812-45-51
	88	3 1/2	4×13	8×13	40°	2	-	5.4	1531-88T45-413/813-45-51
	88	3 1/2	8×11	8×12	35°	2	-	5.4	1531-88T45-811/812-45-51
	88	3 1/2	3×11,2×11	8×13	35°	3	1	5.4	1533-88T45-511/813-45-51
	88	3 1/2	4×11,1×11	8×12	35°	4	-	5.4	1633-88T45-511/812-45-51
	88	3 1/2	4×13,1×13	8×13	35°	4	-	5.4	1632-88T45-513/813-45-51
Spherical buttons									
	127	5	1×13	18×13	35°	3	1	6.0	1441-127T45-113/1813-45-31
	152	6	2×14	18×14	35°	3	1	10.8	1441-152T45-214/1814-45-31
Parabolic buttons									
	127	5	1×13	18×13	35°	3	1	6.0	1441-127T45-113/1813-45-51
	152	6	2×14	18×14	35°	3	1	10.8	1441-152T45-214/1814-45-51
Dome bit for reaming									

Dome bit for reaming



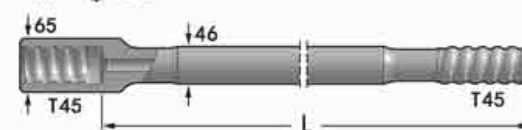
BENCH DRILLING T45

Drill Rod	Length		Diameter		Weight Approx kg	HJG DRILL P/N
	mm	foot	mm	Inch		
Extension rod T45-Round46-T45 Flushing hole 17mm. Wrench flat 38mm.	1830	6'	46	1 3/4	21.6	23R46-T45-1830-23
	2435	8'	46	1 3/4	28.3	23R46-T45-2435-23
	3050	10'	46	1 3/4	35.2	23R46-T45-3050-23
	3660	12'	46	1 3/4	42.1	23R46-T45-3660-23
	4270	14'	46	1 3/4	48.9	23R46-T45-4270-23
	5530	18'	46	1 3/4	63.0	23R46-T45-5530-23
	6095	20'	46	1 3/4	69.3	23R46-T45-6095-23



MF-rod T45-Round46-T45

Flushing hole 17mm.



1525	5'	46	1 3/4	21.2	24R46-T45/85-1525-23
1830	6'	46	1 3/4	24.8	24R46-T45/85-1830-23
3050	10'	46	1 3/4	38.2	24R46-T45/85-3050-23
3660	12'	46	1 3/4	45.0	24R46-T45/85-3660-23
4270	14'	46	1 3/4	51.9	24R46-T45/85-4270-23
5530	18'	46	1 3/4	66.0	24R46-T45/85-5530-23
6095	20'	46	1 3/4	72.3	24R46-T45/85-6095-23

Guide speedrod T45-Round52-T45

Flushing hole 21.5mm.



3050	10'	52	2	46.6	24R52-T45/85-3050-23
3660	12'	52	2	55.8	24R52-T45/85-3660-23
4270	14'	52	2	63.8	24R52-T45/85-4270-23
5530	18'	52	2	81.5	24R52-T45/85-5530-23
6095	20'	52	2	89.4	24R52-T45/85-6095-23

Guide Tube

Guide tube

D64 for bits from 76-89mm and
D76 for bits from 89-102mm



1220	4'	64	2 1/8	12.6	24G64-T45/84-1220-23
1525	5'	64	2 1/8	14.0	24G64-T45/84-1525-23
1830	6'	64	2 1/8	17.4	24G64-T45/84-1830-23
3050	10'	64	2 1/8	28.3	24G64-T45/84-3050-23
3660	12'	64	2 1/8	32.8	24G64-T45/84-3660-23
1830	6'	76	3	40.0	24G76-T45/76-1830-23
3660	12'	76	3	77.8	24G76-T45/76-3660-23

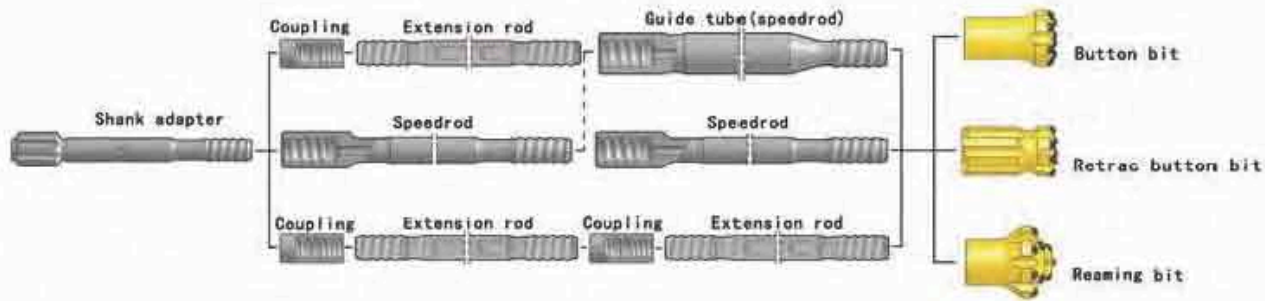
Coupling

Coupling sleeves



Length		Diameter		Thread	Weight Approx kg	HJG DRILL P/N
mm	foot	mm	Inch			
210	8 1/4	63	2 33/64	T45	3.0	31-T45-63-210-23
210	8 1/4	68	2 37/64	T45	3.3	31-T45-68-210-23

BENCH DRILLING T51



Drill Bit	Length		Tip Size(mm)			Flushing Hole		Weight Approx kg	HJG DRILL P/N
	mm	Inch	Front	Gauge	Angle	Front	Side		

Button bit



Spherical buttons

89	3 1/2	4x13	8x13	40°	2	-	4.9	1431-89T51-413/813-45-31
89	3 1/2	5x13	8x13	35°	2	1	4.9	1431-89T51-513/813-45-31
89	3 1/2	3x11,2x11	6x13	35°	4	-	4.9	1433-89T51-511/813-45-31
89	3 1/2	4x11,1x11	8x13	35°	4	-	4.9	1433-89T51-511/813-45-31
89	3 1/2	4x13,1x13	8x13	35°	4	-	4.9	1432-89T51-513/813-45-31
102	4	4x14	8x14	40°	2	-	5.8	1431-102T51-414/814-45-31
102	4	6x13	8x16	35°	2	1	5.8	1431-102T51-513/814-45-31
102	4	3x13,2x13	6x14	35°	3	1	5.2	1433-102T51-513/814-45-31
102	4	4x13,1x13	8x14	35°	4	-	5.8	1433-102T51-513/814-45-31
102	4	4x13,2x13	8x13	35°	4	1	5.8	1433-102T51-513/813-45-31
115	4 1/2	6x14	8x14	35°	2	-	6.8	1431-115T51-514/814-45-31
115	4 1/2	6x14	8x16	35°	2	-	6.8	1431-115T51-514/816-45-31
115	4 1/2	4x13,2x13	8x14	35°	4	-	6.8	1433-115T51-513/814-45-31
115	4 1/2	4x13,3x13	8x14	35°	4	-	6.8	1433-115T51-713/814-45-31
115	4 1/2	4x14,2x14	8x16	35°	4	-	6.8	1433-115T51-514/816-45-31
127	5	8x14	8x16	35°	2	1	7.5	1431-127T51-514/816-45-31
127	5	4x16,2x13	8x16	35°	4	-	7.5	1433-127T51-516/816-45-31
127	5	4x14,3x14	8x14	35°	4	-	7.5	1433-127T51-714/814-45-31

Parabolic buttons

89	3 1/2	5x13	8x13	35°	2	1	4.9	1431-89T51-513/813-45-51
89	3 1/2	3x11,2x11	6x13	35°	4	-	4.9	1433-89T51-511/813-45-51
89	3 1/2	4x11,1x11	8x13	35°	4	-	4.9	1433-89T51-511/813-45-51
89	3 1/2	4x13,1x13	8x13	35°	4	-	4.9	1432-89T51-513/813-45-51
102	4	4x14	8x14	40°	2	-	5.8	1431-102T51-414/814-45-51
102	4	6x13	8x16	35°	2	1	5.8	1431-102T51-513/816-45-51
102	4	3x13,2x13	6x14	35°	3	1	5.2	1433-102T51-513/814-45-51
102	4	4x13,1x13	8x14	35°	4	-	5.8	1433-102T51-513/814-45-51
102	4	4x13,2x13	8x13	35°	4	1	5.8	1433-102T51-513/813-45-51
115	4 1/2	6x14	8x16	35°	2	-	6.8	1431-115T51-514/816-45-51
115	4 1/2	4x13,2x13	8x14	35°	4	-	6.8	1433-115T51-513/814-45-51
115	4 1/2	4x13,3x13	8x14	35°	4	-	6.8	1433-115T51-713/814-45-51
115	4 1/2	4x14,2x14	8x16	35°	4	-	6.8	1433-115T51-514/816-45-51

BENCH DRILLING T51

Drill Bit	Length		Tip Size(mm)			Flushing Hole		Weight Approx kg	HJG DRILL P/N
	mm	Inch	Front	Gauge	Angle	Front	Side		

Button bit



Spherical buttons

89	3 1/2	4x13	8x13	40°	2	-	5.3	1631-89T51-413/813-45-31
89	3 1/2	5x13	8x13	35°	2	1	5.3	1631-89T51-513/813-45-31
89	3 1/2	3x11,2x11	6x13	35°	4	-	5.3	1633-89T51-511/813-45-31
89	3 1/2	4x11,1x11	8x13	35°	4	-	5.3	1633-89T51-511/813-45-31
89	3 1/2	4x13,1x13	8x13	35°	4	-	5.3	1632-89T51-513/813-45-31
102	4	4x14	8x14	40°	2	-	7.3	1631-102T51-414/814-45-31
102	4	6x13	8x16	35°	2	1	7.3	1631-102T51-513/816-45-31
102	4	4x13,1x13	8x14	35°	4	-	7.3	1633-102T51-513/814-45-31
102	4	4x13,2x13	8x13	35°	4	1	7.3	1633-102T51-513/813-45-31
102	4	4x13,1x13	8x14	35°	4	1	7.3	1633-102T51-513/814-45-31
115	4 1/2	6x14	8x14	35°	2	-	9.8	1631-115T51-514/814-45-31
115	4 1/2	6x14	8x16	35°	2	-	9.8	1631-115T51-514/816-45-31
115	4 1/2	4x13,2x13	8x14	35°	4	-	9.8	1633-115T51-513/814-45-31
115	4 1/2	4x13,3x13	8x14	35°	4	-	9.8	1633-115T51-713/814-45-31
115	4 1/2	4x14,2x14	8x16	35°	4	-	9.8	1633-115T51-514/816-45-31
127	5	8x14	8x16	35°	2	1	12.0	1631-127T51-514/816-45-31
127	5	4x16,2x13	8x16	35°	4	-	12.0	1633-127T51-516/816-45-31
127	5	4x14,3x14	8x14	35°	4	-	12.0	1633-127T51-714/814-45-31

Parabolic buttons

89	3 1/2	5x13	8x13	35°	2	1	5.3	1631-89T51-513/813-45-51
89	3 1/2	3x11,2x11	6x13	35°	4	-	5.3	1633-89T51-511/813-45-51
89	3 1/2	4x11,1x11	8x13	35°	4	-	5.3	1633-89T51-511/813-45-51
89	3 1/2	4x13,1x13	8x13	35°	4	-	5.3	1632-89T51-513/813-45-51
102	4	4x14	8x14	40°	2	-	7.3	1631-102T51-414/814-45-51
102	4	6x13	8x16	35°	2	1	7.3	1631-102T51-513/816-45-51
102	4	4x13,1x13	8x14	35°	4	-	7.3	1633-102T51-513/814-45-51
102	4	4x13,2x13	8x13	35°	4	1	7.3	1633-102T51-513/813-45-51
102	4	4x13,1x13	8x14	35°	4	1	7.3	1633-102T51-513/814-45-51
115	4 1/2	6x14	8x16	35°	2	-	9.8	1631-115T51-514/816-45-51
115	4 1/2	4x13,2x13	8x14	35°	4	-	9.8	1633-115T51-513/814-45-51
115	4 1/2	4x13,3x13	8x14	35°	4	-	9.8	1633-115T51-713/814-45-51
115	4 1/2	4x14,2x14	8x16	35°	4	-	9.8	1633-115T51-514/816-45-51

Dome bit for reaming



Spherical buttons

152	6	2x14	18x14	35°	3	1	10.6	1441-152T51-214/1814-45-51
-----	---	------	-------	-----	---	---	------	----------------------------

Parabolic buttons

152	6	2x14	18x14	35°	3	1	10.6	1441-152T51-214/1814-45-51
-----	---	------	-------	-----	---	---	------	----------------------------

BENCH DRILLING T51

Drill Rod

Length

Diameter

Weight
Approx kg

HJG DRILL P/N

mm

foot

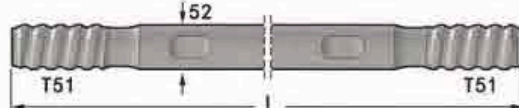
mm

inch

Extension rod T51-Round52-T51

Flushing hole 21.5mm.

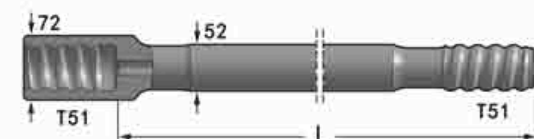
Wrench flat 45mm.



3060	10'	52	2	45.3	23R52-T51-3060-23
3660	12'	52	2	64.1	23R52-T51-3660-23
4270	14'	52	2	83.0	23R52-T51-4270-23
4880	16'	52	2	71.8	23R52-T51-4880-23
5530	18'	52	2	81.2	23R52-T51-5530-23
6095	20'	52	2	89.4	23R52-T51-6095-23

MF-rod T45-Round46-T45

Flushing hole 17mm.



1525	5'	52	2	28.2	24R52-T51/72-1525-23
1830	6'	52	2	30.8	24R52-T51/72-1830-23
3050	10'	52	2	46.3	24R52-T51/72-3050-23
3660	12'	52	2	67.1	24R52-T51/72-3660-23
4270	14'	52	2	88.0	24R52-T51/72-4270-23
4880	16'	52	2	119.8	24R52-T51/72-4880-23
5530	18'	52	2	152.2	24R52-T51/72-5530-23
6095	20'	52	2	192.4	24R52-T51/72-6095-23

Guide Tube

Guide tube

D76 for bits from 89-102mm and
D87 for bits from 102-127mm



Length		Diameter		Weight Approx kg	HJG DRILL P/N
		mm	inch		
1830	6'	76	3	42.0	24G76-T51/76-1830-23
3660	12'	76	3	81.0	24G76-T51/76-3660-23
3660	12'	87	3 1/2	88.0	24G87-T51/87-3660-23

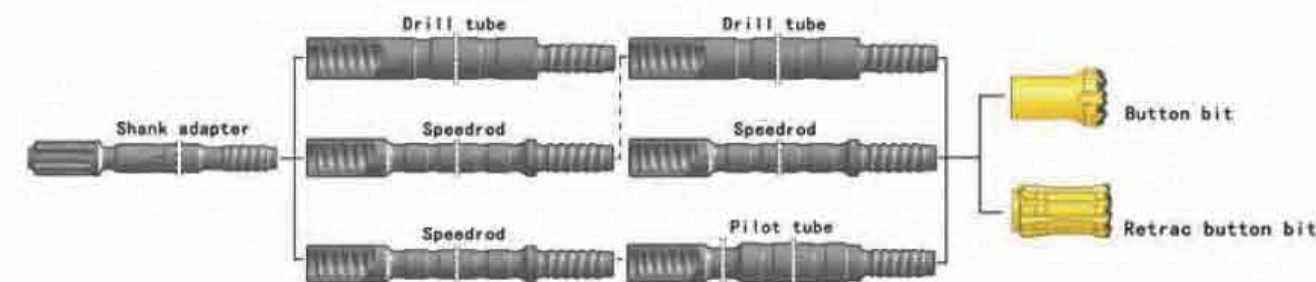
Coupling

Coupling sleeves



Length		Diameter		Thread	Weight Approx kg	HJG DRILL P/N
mm	inch	mm	inch			
225	8 7/8	71	2 51/64	T51	4.8	31-T51-71-225-23
225	8 7/8	76	3	T51	4.8	31-T51-76-225-23
235	9 1/4	72	2 7/8	T51	4.7	31-T51-72-235-23
235	9 1/4	77	3 1/32	T51	4.9	31-T51-77-235-23

BENCH DRILLING T60



Drill Bit	Length		Tip Size(mm)			FlushingHole		Weight Approx kg	HJG DRILL P/N
	mm	inch	Front	Gauge	Angle	Front	Side		

Button bit



Spherical buttons

92	3 5/8	4x13,1x13	8x13	35°	4	-	5.3	1432-92T80-513/813-45-31
96	3 3/4	4x13,1x13	8x14	36°	4	-	5.6	1432-96T80-513/814-45-31
102	4	9x11	9x13	35°	3	-	6.0	1431-102T80-911/913-45-31
115	4 1/2	10x12	9x14	35°	3	-	6.6	1431-115T80-1012/914-45-31
127	5	10x13	9x14	35°	3	-	7.5	1431-127T80-1013/914-45-31
140	5 1/2	10x14	9x16	35°	3	-	8.0	1431-140T80-1014/916-45-31
162	6	12x14	9x16	35°	3	-	10.6	1431-162T80-1214/916-45-31

Parabolic buttons

92	3 5/8	4x13,1x13	8x13	35°	4	-	5.3	1432-92T80-513/813-45-51
96	3 3/4	4x13,1x13	8x14	35°	4	-	5.6	1432-96T80-513/814-45-51
102	4	9x11	9x13	35°	3	-	6.0	1431-102T80-911/913-45-51
115	4 1/2	10x12	9x14	35°	3	-	6.6	1431-115T80-1012/914-45-51
127	5	10x13	9x14	35°	3	-	7.5	1431-127T80-1013/914-45-51
140	5 1/2	10x14	9x16	35°	3	-	8.0	1431-140T80-1014/916-45-51
162	6	12x14	9x16	35°	3	-	10.6	1431-162T80-1214/916-45-51

Retrac button bit



Spherical buttons

92	3 5/8	9x12	9x12	40°	2	-	5.4	1531-92T80-912/912-45-31
96	3 3/4	9x12	9x12	40°	2	-	6.3	1531-96T80-912/912-45-31
102	4	10x12	9x13	40°	2	-	7.3	1531-102T80-1012/913-45-31
115	4 1/2	10x12	9x14	35°	3	-	8.8	1531-115T80-1012/914-45-31
118	4 5/8	8x13	9x16	35°	3	-	10.0	1531-118T80-813/916-45-31
127	5	10x13	9x14	35°	3	-	12.0	1531-127T80-1013/914-45-31
140	5 1/2	10x14	9x16	35°	3	-	14.0	1531-140T80-1014/916-45-31
162	6	12x14	9x16	35°	3	-	16.0	1531-162T80-1214/916-45-31

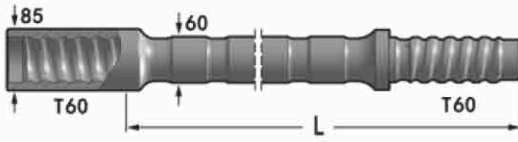
Parabolic buttons

92	3 5/8	9x12	9x12	40°	2	-	5.4	1531-92T80-912/912-45-51
96	3 3/4	9x12	9x12	40°	2	-	6.3	1531-96T80-912/912-45-51
102	4	10x12	9x13	40°	2	-	7.3	1531-102T80-1012/913-45-51
115	4 1/2	10x12	9x14	40°	3	-	8.8	1531-115T80-1012/914-45-51
118	4 5/8	8x13	9x16	35°	3	-	10.0	1531-118T80-813/916-45-51
127	5	10x13	9x14	35°	3	-	12.0	1531-127T80-1013/914-45-51
140	5 1/2	10x14	9x16	35°	3	-	14.0	1531-140T80-1014/916-45-51
162	6	12x14	9x16	35°	3	-	16.0	1531-162T80-1214/916-45-51

BENCH DRILLING T60

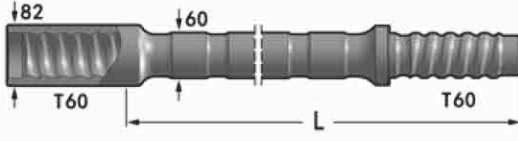
Drill Rod	Length		Diameter		Weight Approx kg	H/JG DRILL P/N
	mm	foot	mm	inch		

MF-rod, For bits from 96mm
Flushing hole 22.5mm.



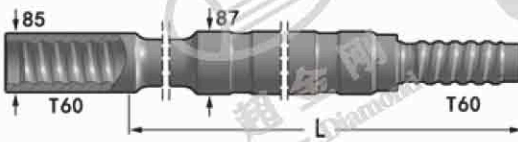
3680	12'	60	2 3/8	73.9	24R60-T60/85-3600-23
4265	14'	60	2 3/8	85.5	24R60-T60/85-4265-23
6095	20'	60	2 3/8	116.6	24R60-T60/85-6095-23
4265	14'	64	2 1/2	95.0	24R64-T60/85-4265-23

MF-rod T45-Round46-T45
Flushing hole 22.6mm.



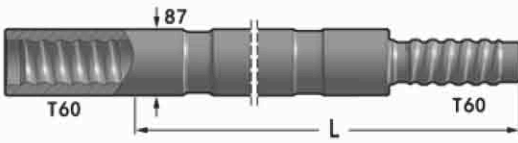
3680	12'	60	2 3/8	73.9	24R60-T60/82-3600-23
4265	14'	60	2 3/8	85.5	24R60-T60/82-4265-23
6095	20'	60	2 3/8	116.6	24R60-T60/82-6095-23

Pilot Tube Female end OD 85mm
(82mm on 76mm tubes)



1600	5'3"	87	3 1/2	39.0	24G87-T60/85-1600-23
4265	14'	87	3 1/2	99.0	24G87-T60/85-4265-23
5335	17'6"	76	3	124.9	24G76-T60/85-5335-23

Drill Tube

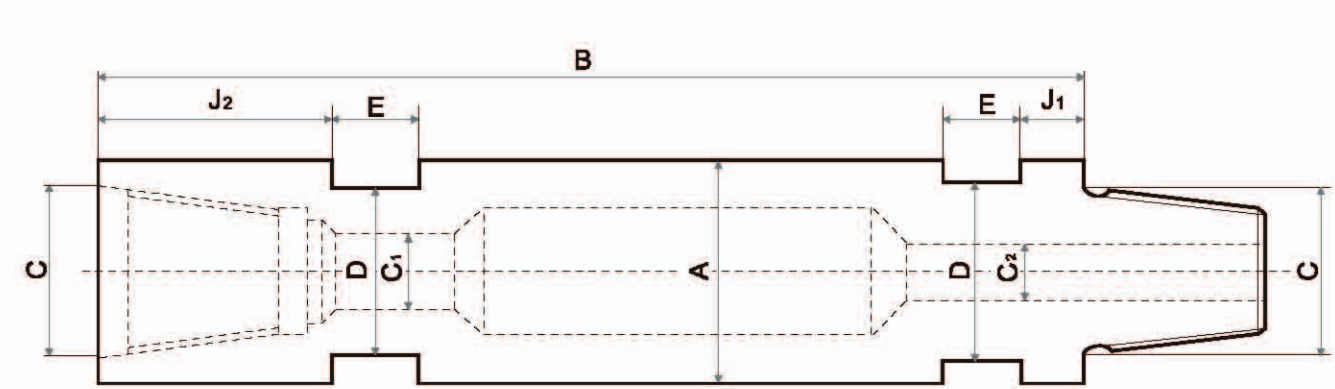


3660	12'	87	3 1/2	87.8	24G87-T60/87-3660-23
4265	14'	87	3 1/2	99.0	24G87-T60/87-4265-23

其它产品 The others

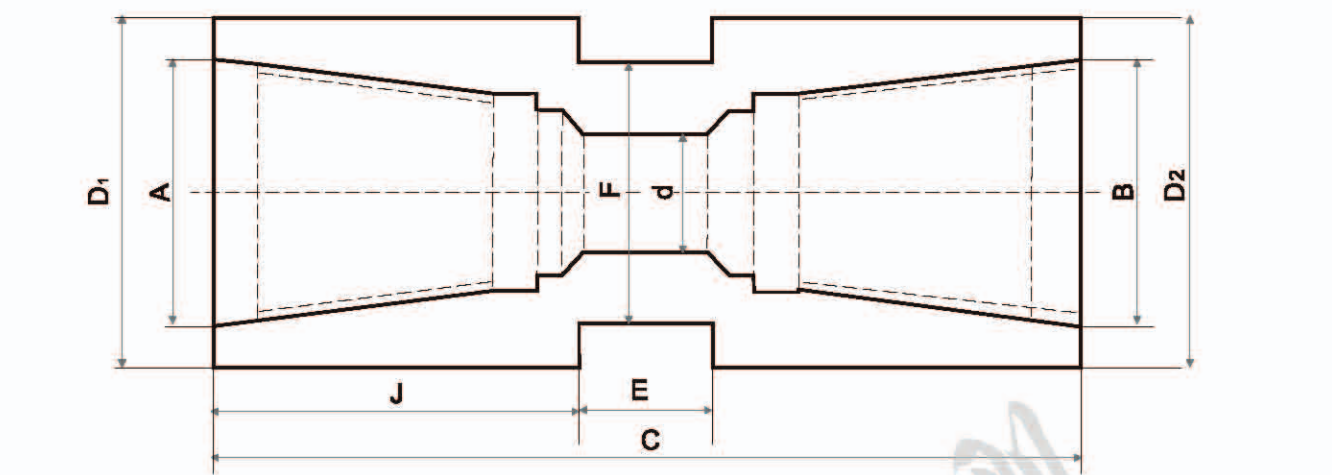


钻杆 Drill Pipe



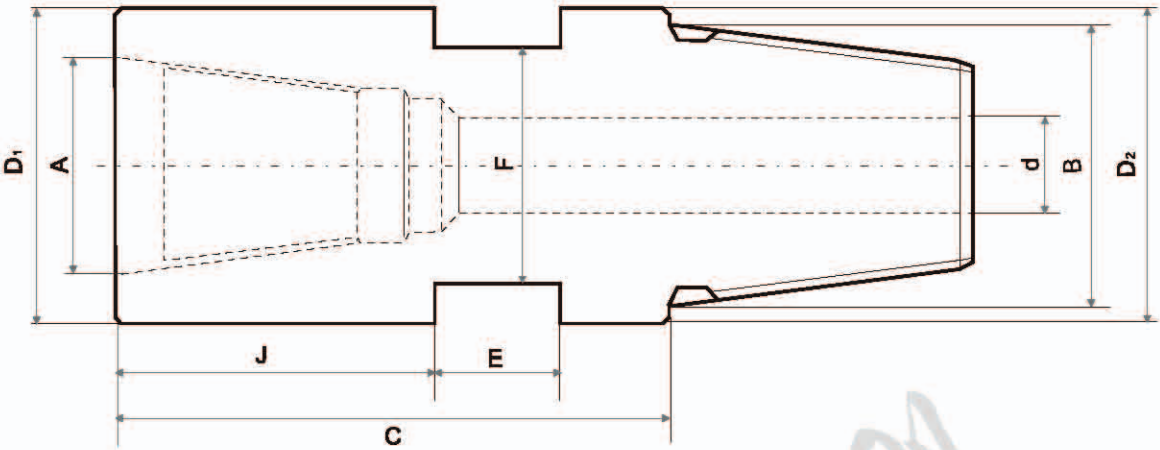
A 外径 OD(mm)		C 连接部位 C Tool joints		J 肩头 Length shoulder to flat		D 扳手方对径 Across flat (mm)	最大拉力 (千牛/米) Allowed pull down (kNm)	大概重量 (3米长/公斤) Approx weight (3m long/kgs)	E 扳手方宽 Width spanner flat (mm)
连接螺纹型号 Thread Type		C1	C2	J1	J2				
Φ76	API23/8"REG	25.4	38.1	16	90.5	65	5.4	26.6	38.1
Φ89	API23/8"REG	28.6	38.1	11.1	76.2	69.8	11.2	53.4	60.3
Φ102	API31/2"REG	44.4	57.1	15.8	90.5	63.5	14.2	53.1	50.8
Φ114	API31/2"REG	38.1	57.1	15.8	69.8	92.2	22.2	77.4	69.8
Φ127	API31/2"REG	44.4	57.1	12.7	95.2	120.6	47	114	50.8s
Φ140	API31/2"REG	44.4	57.1	12.7	95.2	120.6	47	114	50.8
Φ152	API41/2"REG	76.2	85.7	19	120.6	130.1	52.9	127	60.3

母母接头 Box-Box Adapters



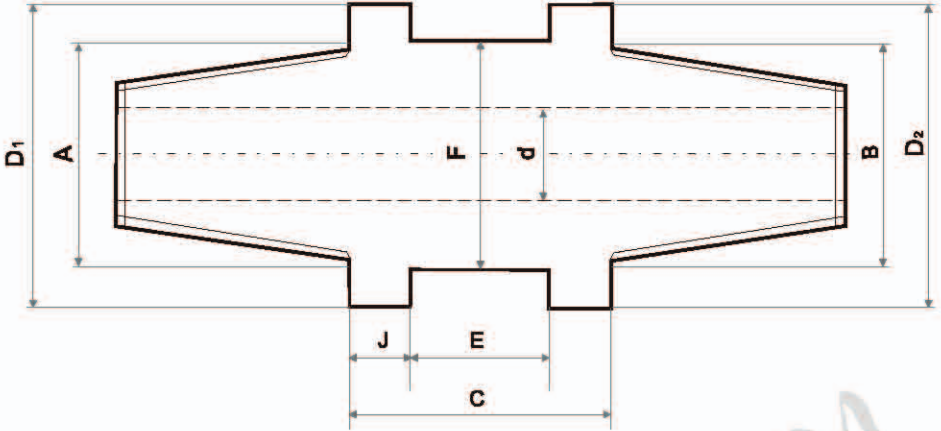
连接螺纹型号 Connection		C 长度 Length (mm)	J 肩长 Length shoulder (mm)	E 扳手方宽 Width spanner flats (mm)	d 顶部直径 Std bore (mm)	外径 Outside diameter		F 扳手方对径 Across flat (mm)
母螺纹A Box up A	母螺纹B Thread Type(B)					D1 顶端 Top D1(mm)	D2 底端 Bottom D2(mm)	
API23/8"REG	API23/8" REG	219	57.1	50.8	38.1	88.9	88.9	69.85
API27/8"REG	API23/8" REG	219	69.85	50.8	38.1	114.3	88.9	98.4
API23/8"REG	API31/2" REG	128.6	57.1	50.8	38.1	88.9	114.3	69.8
API31/2"REG	API31/2" REG	241.3	69.85	50.8	44.45	114.3	114.3	98.4
API31/2"REG	API41/2" REG	269.8	88.9	50.8	58.7	114.3	146	98.4
API27/8"REG	API31/2" REG	241.3	69.85	50.8	44.45	114.3	51.7	98.4
API41/2"REG	API27/8" REG	250.8	76.2	50.8	44.45	114.3	146	98.4

公母接头 Pin-Box Adapters



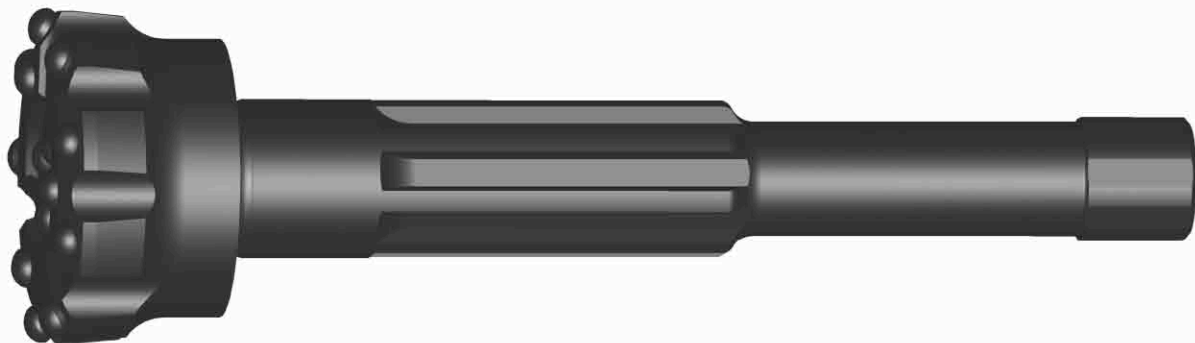
连接螺纹型号 Connection		C 长度 Length (mm)	J 肩长 Length shoulder (mm)	E 扳手方宽 Width spanner flats (mm)	d 顶部直径 Std bore (mm)	外径 Outside diameter		F 扳手方对径 Across flat F (mm)
母螺纹A Box up A	公螺纹B Thread Type(B)					D1 顶端 Top D1(mm)	D2 底端 Bottom D2(mm)	
API23/8"REG	API23/8"REG	140	50.8	65	24	88.9	88.9	69.85
API23/8"REG	API27/8"REG	134.9	69.85	50.8	31.75	88.9	88.9	69.85
API23/8"REG	API31/2"REG	146	39.7	50.8	25.4	114.3	88.9	98.4
API31/2"REG	API31/2"REG	101.6	39.7	50.8	44.45	127	127	98.4
API31/2"REG	API41/2"REG	134.9	39.7	50.8	52.4	114.3	146	98.4
API27/8"REG	API23/8"REG	134.9	39.7	50.8	31.75	88.9	88.9	69.85
API27/8"REG	API31/2"REG	134.9	39.7	50.8	44.45	114.3	114.3	98.4
API27/8"REG	API41/2"REG	174.6	100	50.8	44.45	114.3	146	98.4

公公接头 Pin-Pin Adapters



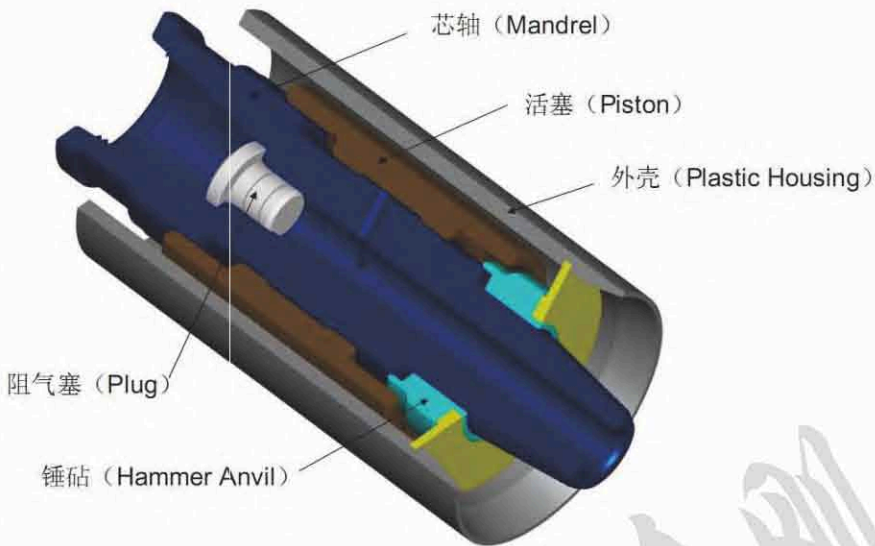
连接螺纹型号 Connection		C 长度 Length (mm)	J 肩长 Length shoulder (mm)	E 扳手方宽 Width spanner flats (mm)	d 顶部直径 Std bore (mm)	外径 Outside diameter		F 扳手方对径 Across flat (mm)
公螺纹A Pin up A	公螺纹B Thread Type(B)					D1 顶端 Top D1(mm)	D2 底端 Bottom D2(mm)	
API23/8"REG	API23/8" REG	70	20	50.8	24	78	78	65
API23/8"REG	API27/8" REG	152.4	50.8	50.8	25.4	88.9	88.9	69.85
API23/8"REG	API31/2" REG	96	35	50.8	24	114.3	114.3	98.4
API31/2"REG	API31/2" REG	177.8	63.5	50.8	44.45	114.3	114.3	98.4
API31/2"REG	API41/2" REG	92	12.7	69.85	38.1	114.3	139.7	120.65
API41/2"REG	API41/2" REG	203.2	76.2	50.8	58.7	146	146	120.65

长尾巴钻头 Long Shank Bit



钎头直径 D mm	边齿 Gauge	正面齿 Front	水孔数量 Flushing holes	重量 Weight (Kg)	产品编号 Part-No
90	9x11	7x11	3x8	5.8	ROD76-90
95	9x12	7x11	3x8	6.0	ROD76-95
105	9x12	7x12	3x10	6.4	ROD76-105
105	9x13	7x12	3x13	9.1	ROD89-105
115	9x14	6x14	3x13	9.7	ROD89-115
127	9x14	7x14	3x13	10.6	ROD89-127
115	9x14	6x14	3x13	12.6	ROD102-115
127	9x14	7x14	3x13	13.2	ROD102-127
140	9x16	9x16	3x13	14.5	ROD102-140
140	9x16	9x16	3x15	21.3	ROD127-140
152	9x16	9x16	3x15	23.1	ROD127-152
165	10x16	10x16	3x15	23.9	ROD127-165

反打冲击器 Back Hammer



反打冲击器

当设备在钻孔时发生卡钻时，反打冲击器为您节约时间和金钱。

反打冲击器可安装在位于钻孔夹持器和旋转头之间的钻管接头上，形成一种有效的反打打击和震动的结合效果。

反打冲击器坚固而可靠。只有三个部件和一个塑料外壳组成。塑料外壳除了引导废气排放外还起消音器的作用。保养工作只需在不使用时保持反打冲击器的清洁和注意连接部分的防护即可。

Backhammer

In case of jamming of any drilling tool in the boring process, the back hammer will help you save time and money.

The back hammer can be installed on the drill pipe joint between the borehole gripper and the swivel head, thus creating a combined effect of effective reverse impact and vibration.

Sturdy and reliable, the back hammer is composed of three components and a plastic housing which acts both as an exhaust emissions guider and a muffler. With regards to the maintenance, it's only necessary to keep it clean and the linking section well protected when the back hammer is unused.

产品名称 Product	工作风压 Pressure	连接螺纹 Thread	总长 Total Length(mm)	外径尺寸 Diameter(mm)	重量 Kg
BH140	8 Bar	API 3 1/2"	510	140	31.0
BH160	8 Bar	API 3 1/2"	540	160	44.0
BH190	8 Bar	API 4 1/2"	580	190	63.0
BH240	8 Bar	API 4 1/2"	600	240	85.0

冲击器拆卸台 Breakout Bench



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，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，使扳手卡住卡钎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 Instruction

- Put hammer on the bench.
- Adjust the position of hammer and wrench; use wrench to block the top sub side of hammer; let wrench and jack in the same face.
- Fix K-shaped base with nut.
- Fix wrench with nuts.
- Shake handle of Jack slowly till top sub away from hammer
- After top sub dismantled, grease the jack, release nuts, discharge the K-shaped base and turn around the Hammer.
- Adjust the position of hammer and wrench; use wrench to block the drive chuck of hammer; let wrench and jack in the same face.
- Fix hammer
- Fix K-shaped base and the wrench with nut.
- Shake handle of Jack slowly till drive chuck away from hammer.

冲击器拆卸台 Breakout Bench



全液压自动拆卸台使用方法

- 把冲击器放进拆卸台里边。
- 推动卸杆油缸操作手柄，调节卸杆油缸到合适的高度。
- 调节左锁紧链条卡住接头方口并扣上活动销子。
- 调节右锁紧链条卡住冲击器外缸接头端并扣上活动销子。
- 向前推动左链条操作手柄及右链条操作手柄，将冲击器接头慢慢卸开。
- 拆卸完毕后，将卸杆油缸回油，回油完毕，取出活动销子，松开左、右链条，将冲击器调头。
- 推动卸杆油缸操作手柄，调节卸杆油缸到合适的高度。
- 调节左锁紧链条卡住卡钎套并扣上活动销子。
- 调节右锁紧链条卡住冲击器外缸卡钎套端并扣上活动销子。
- 向前推动左链条操作手柄及右链条操作手柄，将冲击器卡钎套慢慢卸开。

Breakout Bench Operation Instruction

- Put the hammer on the breakout bench.
- Drive the handle switch of unloading oil cylinder, adjust the cylinder to proper height.
- Adjust left lock chains to lock the top sub then fasten the active pin.
- Adjust right lock chains to lock top sub side of the external cylinder of hammer then fasten the active pin.
- Push handle switch of both the right and left lock chains, break out the top sub of hammer slowly.
- After finishing break out, make the oil cylinder return oil, take out the active pins and loosen the left and right chains, Turn the hammer around.
- Drive the handle switch of unloading oil cylinder, adjust the cylinder to proper height.
- Adjust left lock chains to lock the drive chuck then fasten the active pin.
- Adjust right lock chains to lock the chuck side of external cylinder of hammer then fasten the active pin.
- Push handle switch of both the right and left lock chains, break out the drive chuck of hammer slowly.