



金三角



地质钻探工具



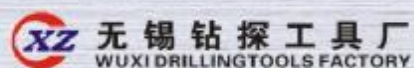
扩孔钻具



非开挖钻具



硬质合金



厂址：江苏省无锡市惠山开发区畅园路8号
Address: No.8 Changyuan Road, HuiShan Economic Development District,
Wuxi City, Jiangsu Province
邮编: 214174
电话: (0510)85410864 85411584
85419145 85407119
传真: (0510)85407347
E-mail: ztgjc@126.com
Web: http://www.cwdtf.com





金三角

无锡钻探工具厂
WUXI DRILLING TOOLS FACTORY

企业宗旨:

一流的基地,一流的产品

企业作风:

团结协作,求真务实,

真抓实干,雷厉风行

History 发展史

2010年通过美国石油协会API5DP相关产品认证。同年,深孔CNHT绳索钻杆试制成功,并在安徽313地质队施工中创造了2706.68米国内小口径绳索施工记录。

2010, Certified by the American Petroleum Institute API5DP related products. The CNHT drill rod successful used in Anhui 313 geological team construction to create a record with drilled 2706.68 m.

2008年我厂迁入无锡市惠山开发区投入2800万左右的资金进行技术改造,引进多条专用生产线,现已成为国内一流的钻探工具生产基地

In the year of 2008, the factory moved into Huishan Economic Development District in Wuxi City, and about RMB 28million was invested on the technological transformation, meanwhile, a number of dedicated production line were introduced, thus the factory becomes a domestic Top production base for drilling tools.

2005年S75A/S95A绳索加厚钻杆试制成功

Trial production of S75A/S95A wire line forged drill rod was successfully conducted in 2005

2002年非开挖整体钻杆试制成功

HDD drill rod forged one piece was successfully conducted in 2002

1991年与长春地院共同研制的贯通式气动潜孔冲击器通过部级鉴定

Drive-through type pneumatic down-the-hole hammer jointly developed with Changchun Geography Institute passed the ministry-level identification

1990年12月我厂绳索取心钻具系列产品被评为地质部优质产品

Wire line core-drilling tool series products were evaluated as high quality products of Geography Ministry in December 1990

1985年12月 $\phi 46 \times 76$ 孕钻人造金刚石普通双管钻头获国家银奖

$\phi 46 \times 76$ common double-tube drill bit with impregnated artificial diamond obtained national silver medal in December 1985.

1981年9月金刚石螺旋型扩孔器产品获国家优质产品银质奖

Diamond spiral bit brace product got the silver medal of national high-quality product in September 1981

1980年2月地质部委托我厂负责小口径钻杆接头螺纹规,金刚石扩孔器螺纹环套规格部标设计编制工作

Ministry of Geography entrusted our factory to design and compile the ministry level standard for coupling thread gauge with small diameter drill rod and thread measurement meter for diamond bit brace.

2011年通过江苏省高新技术企业认证,同年,我厂相关产品获得无锡市科技进步三等奖

In 2011 got the Jiangsu provincial high-tech enterprise certification. The same year, our products won the Wuxi Municipal Science and technology progress prize three.

2009年CNH绳索钻杆试制成功。同年,国际标准Q系列绳索产品推广应用

In 2009 CNH cord drill-rod trial-product is successful. The same year, The international standard Q series drill tools became popular.

2006大口径($\phi 1420$ mm)非开挖螺旋钻杆由中国石油管道工程公司在印度施工成功。

Trenchless helix drill rod with large diameter($\phi 1420$ mm) was successfully constructed by PetroChina Pipeline Company in India in 2006.

2003年我厂参与了大陆科学钻探大口径绳索取心钻具的投标

Our factory was engaged in the bidding for wire line corodrilling tools with large diameter in the drilling project of continental scientific in 2003

2000年6月石油油井管端加厚试制成功

Trial production of end upsetting for petroleum oil well pipe was successfully conducted in June 2000

1991年4月我厂获国家级企业技术进步奖,地矿部唯一获得这一荣誉称号的企业

Our factory won reward of National Science and Technology Progress in April, 1991, and it was the only enterprise obtaining this title belonged to Ministry of Geology and Mineral Resources

1990年9月我厂被正式批准为国家二级企业

Our factory was formally approved to be National Secondary Enterprises in September, 1990

1984年4月金刚石薄壁钻头通过地质部工业局技术鉴定

Diamond thin wall drill bit magnet passed the identification made by Industrial Bureau of Geography ministry in April 1984

1981年12月XD55螺杆钻具试制成功

Trial production of XD55 screw drill tool was successfully conducted in December 1981

1980年4月我厂被江苏省人民政府命名为大跃进式企业

The factory was named as enterprise of Daring Style by the People's Government of Jiangsu Province in April, 1980

汶川地震科学钻探项目施工现场



金三角

Geological Drilling Tools

Wire line core Drilling tool
Core Drilling Rod
Swivel-tube core barrel
Common Geological drill rod. Small hole Geological drill rod
Drilling Subs
Casing tube, Core tube
PDC Drilling Bit
Tungsten Carbide Bits and Blank Drill Bit
Other Drilling Tools

Torizontal Directional Drilling Tools

HDD drill rod (Forged one piece)
HDD drill rod (Friction welding)
HDD drill Reamer and Accessory

DTH Hammers

Middle/High Air pressure DTH hammers
Eccentric/concentric Overburden Drilling Tools
Casing tube, coupling
Outer Flat Drill Rod (Welding/Forged one piece)
Air-driven hollow DTH hammers

Cemented Carbide

Cemented Carbide buttons
Cemented Carbide for Mining
Cemented Carbide for Cutting
Special Carbide products

地质钻探工具

绳索取芯钻探工具
绳索钻杆
单动双层岩芯管钻具
普通钻杆、小口径钻杆
锁接头、钻杆接箍、小口径接头
地质套管、岩心管
金刚石钻头、扩孔器
复合片(PDC)钻头
空白圆钻头及合金钻头
通用辅助工具

非开挖钻具

非开挖整体式加厚钻杆
摩擦焊钻杆
钻头及配件

冲击器及跟管钻具

WC系列中、高风压气动潜孔锤
偏心/同心跟管钻具
套管、接箍
焊接/整体式外平钻杆
气动贯通式潜孔锤

硬质合金

球齿合金
地质合金
切削合金
异型合金

公司简介

无锡钻探工具厂始建于一九五八年(原隶属地质矿产部),座落在风景秀丽的太湖之滨——无锡市,为国家二级企业,现在直属于中国地质装备总公司,2008年5月我厂迁入无锡市惠山经济开发区,占地面积120亩,现有固定资产近两亿元,职工人数 600 多人,技术力量雄厚。拥有国内一流的地质钻杆调质生产线、大吨位管端加厚机组、大吨位摩擦焊接机组、螺纹量规生产专用设备、接头连续调质生产线等专业生产设备,同时还添置了先进的机械性能检测设备。我厂与中国地质大学、吉林大学、廊坊勘探技术研究所等科研高校有紧密的技术交流与合作。2001年,我厂通过ISO9001:2000质量体系认证;2010年通过美国石油协会API 5DP 产品认证;2011年被评为江苏省高新技术企业。

主要产品有:地质钻探工具、非开挖整体加厚钻杆、摩擦焊石油钻杆及机具、冲击器与磨管钻具铸钢产品、硬质合金及制品。

我厂产品性能稳定,质量可靠,其中:绳索取心钻具系列产品先后荣获国家银质奖,全国行业评比第一名,原地质矿产部优质产品奖;金刚石扩孔器荣获国家银质奖;人造金刚石钻头荣获国家银质奖;非开挖整体钻杆荣获无锡市科技进步三等奖。2011年绳索取心钻具及钻头被指定作为“第一届全国地勘钻探职业技能大赛”唯一比赛用产品。

我厂的质量方针是:质量人人把关,过程严格控制,产品不断创新,目的顾客满意。

INTRODUCTION



Wuxi drilling tools factory was build in 1958 (originally belonged to Ministry of Geology and Mineral Resources), and locates in Wuxi which is the shore of beautiful Taihu lake, being the national secondary enterprise. Currently, it is the enterprises directly under China GeoEquipment Corporation. The factory moved into the Hui Shan Economic Development District in May 2008, occupying an area of 19,77 acres, now has a fixed asset of near to RMB 200 million, and with a work force over 600. Strong technical force. With the domestic first-class geological drill pipe production line, large tonnage pipe end thickening unit, large tonnage friction welding machine, screw thread gauge production equipment, joint continuous production line of professional production equipment, but also the acquisition of advanced mechanical properties testing equipment. Our factory has close technical communication with several universities such as China University of Geosciences, Jilin University, and Langfang Institute of Exploration Technology. In 2001, I plant through the ISO9001:2000 quality system certification; in 2010 by the American Petroleum Institute API 5DP product certification; in 2011 were rated as high-tech enterprises in Jiangsu province.

Main products: Geological drilling tools, HDD drilling tools, friction welding drill rod, impactor and casing drilling tools, cemented carbide and related products.

The products in our factory have steady performance and reliable quality, among them, wire line core-drilling tools series got the national silver medal successively and ranked the first in the domestic industry, and won the product reward of the originally called Ministry of Geology and Mineral Resources; the screw drill tool series got the second prize of national science and technology progress; the fishing magnet won the national gold dragon prize; diamond bit/brace and artificial diamond drill bit got the national silver medal.

Our factory products stable performance, reliable quality, including: wire-line coring drill series of products has won the national silver medal, the national appraisal industry first, the Ministry of Geology and mineral resources the quality product prize; diamond reamer won the national silver medal; artificial diamond bit won the national silver medal; trenchless integral drill rod won the Wuxi Municipal Science and technology progress prize three. In 2011 the drill pipe and drill bit is designated as the "first national geological survey drilling Occupation Skills Contest" the only game products.

Quality guidelines: Everyone Care about quality. Strict process control. Keep innovation the product. the purpose is satisfact customer.



生产设备

PRODUCTION EQUIPMENT

检测设备

TEST EQUIPMENT

钻杆数控加工生产线
NC processing production line for drill rod



钻杆调质生产线
Heat treatment equipment for drill rod



接头调质连续生产线
Heat treatment production line for drilling subs



摩擦焊接生产线
Friction welding production line



大吨位管端加厚机组
Large tonnage end upsetting equipments



合金压力烧结炉
Carbide pressure sintering furnace



接头数控加工生产线
CNC machining production line for subs



机械强度测试
Mechanical strength test



理化分析
Physical-chemical analysis

EQUIPMENT



化学分析
Chemical analysis



物理测试
Physical test

资质认证 QUALITY CERTIFICATION





地质钻探工具

Geological Drilling Tools



打捞器 Overshot Assembly

双管总成
Core Barrel Assembly

绳索取心钻具是一种不提钻，直接捞取岩矿心的钻探工具。整套钻具包括：钻具总成、打捞器、钻杆、绞车、提引器、夹持器及自由帽等配件。它具有钻进效率高、岩心采取率高、钻头寿命长、劳动强度小等优点。随着钻孔深度的加深，其优势更为明显。

Rope coring drill is a kind of not to mention the drill column, Direct gain rock cores drilling tool. Package includes: drilling tool assembly, Fisher, drill pipe, winch, elevator, holder and free clamp and other accessories. It has high drilling efficiency, high bit coring rate, long life, low labor intensity. With the drilling depth, its advantage is more obvious.



手搓提引器 A 叉口提引器 B 爬杆提引器 C
Hoisting Plugs



水龙头
Water swivel



绳索绞车
Wire line winch



绳索夹木马夹持器
Foot clamp A



自重夹持
Foot clamp B



双弹卡(SF)钻具总成示意图
SF Series Core Barrel Assembly Constructional detail



Q系列钻具总成示意图
Q Series Core Barrel Assembly Constructional detail

绳索取心钻具规格参数

Wire line Core Drilling tools parameters

系列 Series	规格 Size	钻头 Bit		扩孔器 外径 Reaming Shell O.D	外管 Outer Tube		内管 Inner Tube		配套钻杆规格 Drill rod parameters	配套打捞器 Overshot Assembly
		外径 O.D	内径 I.D		外径 O.D	内径 I.D	外径 O.D	内径 I.D		
普通系列 钻具	SC56	56	35	56.5	54	45	41	37	S56	S系列
	S59	59.5	36	60	58	49	43	38	S59	
	S75/S75B	75	49	75.5	73	63	56	51	S75/S75A	
	S95/S95B	95	64	95.5	89	79	73	67	S95/S95A	
Q系列 钻具	BQ	59.5	36.5	60	57.2	46	42.9	38.1	BQ	Q系列
	NQ	75.3	47.6	75.8	73	60.3	55.6	50	NQ	
	HQ	95.6	63.5	96	92.1	77.8	73	66.7	HQ	
	PQ	122	85	122.6	117.5	103.2	95.6	88.9	PQ	
深孔复杂 地层系列 钻具	S75B-2	76	47	76.5	73	63	54	49	S75A/CNH/CNH(T)	Q系列
	S95B-2	95.5	62	96	89	79	71	65	S95A/CHH	
	S75-SF	75	49	75.5	73	63	56	51	S75A/CNH	S系列
	S95-SF	95	62	95.5	89	79	73	67	S95A/CHH	S系列
	S150-SF	150	93	150.5	139.7	125	106	98	S127	S系列



地质钻探工具

Geological Drilling Tools



绳索钻杆 Drill Rod

我厂最新推出高强度绳索取心钻杆已被广泛的应用于多个深孔施工项目以及国家科学钻探项目中, 已成功完成的国内深孔项目主要有:

CNHT负倒角螺纹钻杆在安徽313队创造2706.68米施工记录;

CNHT不对称螺纹钻杆在辽宁402对创造2522米施工记录;

CNH对称梯形螺纹钻杆在山东三队创造2430米施工记录。

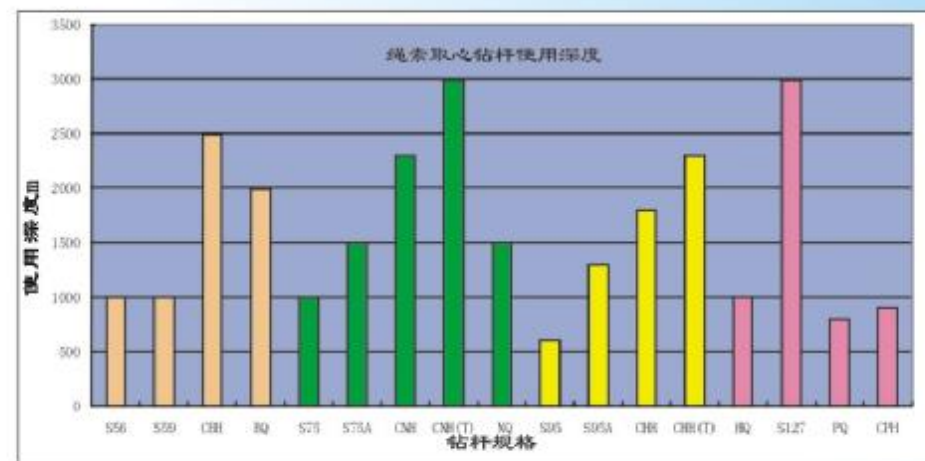


Q系列自接式整体钻杆
Q series drill rod



螺纹加工专用量规
Special gauge for processing thread

3



绳索取心钻杆规格主要技术参数 Wire line Core Drill Rod Parameters

序号 NO.	规格 Size	系列 Series	钻杆		螺纹连接形式 Thread type	热处理方式 Heat treatment	钻杆材质 Raw material	使用深度m Design hole deep
			外径 O.D	内径 I.D				
1	S56	普通钻杆	53	44	地标、冶标		45MnMoB	1000
2	S59	普通钻杆	55.5	46	地标、冶标		45MnMoB	1000
3	S75	普通钻杆	71	61	地标、冶标		45MnMoB	1000
4	S95	普通钻杆	89	79	地标、冶标		45MnMoB	600
5	S75A	加厚钻杆	两端加厚	61	厂标	加厚端热处理 Both ends	45MnMoB	1500
6	S95A	加厚钻杆	两端加厚	79	厂标		45MnMoB	1300
7	CBH	C系列钻杆	两端加厚	44	厂标	整体热处理 Completely	30CrMnSiA	2500
8	CNH	C系列钻杆	两端加厚	61	厂标		30CrMnSiA	2300
9	CNH(T)	C系列钻杆	两端加厚	58	厂标		ZT850	3000
10	CHH	C系列钻杆	两端加厚	77	厂标		30CrMnSiA	1800
11	CHH(T)	C系列钻杆	两端加厚	77	厂标	局部热处理 Both ends	30CrMnSiA	2300
12	CPH	C系列钻杆	114.3	101.6	厂标		ZT600	900
13	CSH	C系列钻杆	127	114.3	厂标	摩擦焊接 Friction welding	S135	3000
14	BQ	Q系列钻杆	55.6	46	国际标准	整体热处理 Completely	ZT850	2000
15	NQ	Q系列钻杆	70.5	60.5	国际标准		ZT850	1500
16	HQ	Q系列钻杆	89	77.8	国际标准	局部热处理 Both ends	ZT850	1000
17	PQ	Q系列钻杆	114.3	103.2	国际标准		ZT520	600

4



地质钻探工具

Geological Drilling Tools

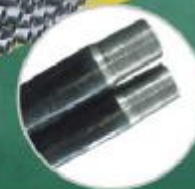
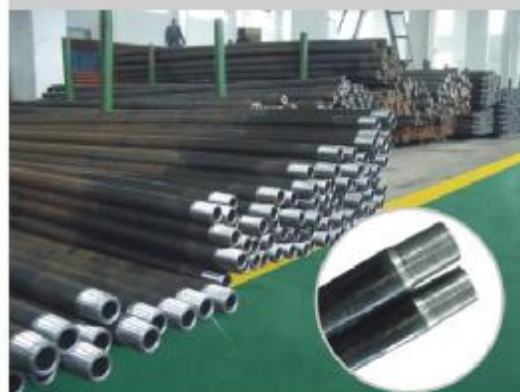
单动双层岩心管钻具

Swivel-tube core barrel

单动双层岩心管钻具结构简单，操作方便，同轴度好，使用寿命长，能有效地提高岩、矿心采取率，保证岩、矿心的完整性。

The swivel-tube barrel can effectively increase core recovery ratio, suitable for drilling in formations in which oblique hole comes easy. It is effective to assure hole quality.

钻具型号 Tool Type	钻头外径/内径 Bit O.D./I.D	扩孔器外径/内径 Reaming Shell O.D./I.D	外管外径/内径 Outer Tube O.D./I.D	内管外径/内径 Inner Tube O.D./I.D	钻杆外径 Rod O.D./I.D
P56	Φ56/Φ39	Φ56.5/Φ46	Φ55/Φ48	Φ45/Φ41	Φ50
P59	Φ59/Φ41.5	Φ59.5/Φ49	Φ58/Φ51	Φ47.5/Φ43	Φ50
P75	Φ75/Φ54.5	Φ75.5/Φ64	Φ73/Φ65.5	Φ62/Φ58.5	Φ50
P91	Φ91/Φ68	Φ91.5/Φ79	Φ89/Φ81	Φ77/Φ70	Φ50
PA-110	Φ112/Φ79	Φ112.5/Φ96	Φ108/Φ99.5	Φ89/Φ81	Φ50/Φ60
PA-130	Φ132/Φ97.5	Φ132.5/Φ116	Φ127/Φ118	Φ108/Φ99.5	Φ50/Φ60
P150	Φ150/Φ116	Φ150.5/Φ132	Φ146/Φ136	Φ127/Φ118	Φ50/Φ60
P157	Φ158/Φ122	Φ158.5/Φ139	Φ154/Φ139	Φ133/Φ125	Φ60/Φ73
PA-200	Φ202/Φ167	Φ202.5/Φ183	Φ194/Φ181	Φ177/Φ169	Φ60/Φ73/Φ89
P219	Φ225/Φ171	Φ225.5/Φ202	Φ219/Φ199	Φ190/Φ176	Φ60/Φ73/Φ89



普通地质钻杆(外丝钻杆) Common Geological drill Rod (external threaded)

规格 Size	外径及壁厚 O.D×W	加厚形式	钻杆材质 Raw material	配套接头规格 coupling size
42	Φ42×6	内外加厚	45MnMoB	57锁接头
50	Φ50×6.5	内外加厚	R780	65锁接头
60	Φ60.3×7.1	内外加厚	R780	75锁接头
73	Φ73×7	内外加厚	R780	105锁接头
89	Φ89×10	内外加厚	R780	121锁接头

小口径地质钻杆(内丝钻杆) Slim hole Geological drill Rod (internal treaded)

规格 Size	外径及壁厚 O.D×W	标准GB standard	钻杆材质 Raw material	螺纹大小径尺寸	配套接头规格 coupling size
43	Φ43×6.35	DZ 74.7标准	R780	Φ34/Φ31	43
50	Φ50×6.5	DZ 74.7标准	R780	Φ41.5/Φ38	50
43	Φ43×6	DZ 76.7标准	R780	Φ35/Φ32	43
50	Φ50×5.5	DZ 76.7标准	R780	Φ42.5/Φ39.5	50
43	Φ43×6	DZ1.1-84标准	R780	Φ35/Φ32	43
54	Φ54×6	DZ1.1-84标准	R780	Φ46/Φ43	54

锁接头、钻杆接箍

Drill Pipe Box And Pin/Drilling Subs



锁接头生产规格 (Description of Box and Pin):

Φ57、Φ65、Φ75、Φ105、Φ121

钻杆接箍生产规格 (Description of Drilling Coupling):

Φ57、Φ65、Φ75

小口径接头

Drill Adapter For Slim Hole Drill rods



小口径接头生产规格

43(74.7标准、76.7标准、DZ1.1-84标准)

50(74.7标准、76.7标准)

54(DZ1.1-84标准)



地质钻探工具

Geological Drilling Tools

地质套管、套管接箍、岩心管

Geological casing, the casing coupling, core tube



套管及岩心管规格

Casing and the core tube specifications

执行标准 Standard	规格 Size	外径及壁厚 O.D×W	材质 Material	备注 Remark
GB/T16950-1997	73	Φ73×4.5	DZ40	定尺长度及螺纹要求可根据用户要求定制 Length and thread depends on customer's demands
	89	Φ89×4.5	DZ40	
	108	Φ108×4.5	DZ40	
	114.3	Φ114.3×6.35	R780	
	127	Φ127×4.5	DZ40	
	146	Φ146×5	DZ40	
	168	Φ168×6.5	DZ40	
DCDMA	178	Φ178×9	DZ40	
	AW	Φ57×4.5	R780	
	BW	Φ73×6.5	R780	
	NW	Φ88.9×6.5	R780	
	HW	Φ114.3×6.35	R780	
	PW	Φ139.7×7.7	R780	

金刚石钻头、扩孔器 Diamond, Core Bit and Reaming Shell



第一届全国地质钻探职业技能大赛唯一指定产品

钻头类型 Bit Type	规格 Description	金刚石镶嵌形式 Set type of Diamond	备注 Remarks
绳索 Wire-line	Φ46、Φ56、Φ59、Φ75、Φ91、Φ95、 BQ、NQ、HQ、PQ	表镶、孕镶 Surface-Set, Impregnated	可按用户要求加工 异形钻头 We can produce bit according to requirements
双管 Double Tube	Φ58、Φ59、Φ68、Φ75、Φ76、Φ91、 Φ110、Φ130、Φ150、Φ200		
单管 Single Tube	Φ56、Φ59、Φ66、Φ75、Φ76、Φ91、Φ110、 Φ130、Φ150、Φ170、Φ201、Φ219、Φ325、 AW、NW、HW、PW		

复合片钻头规格

PDC drill bit specifications

钻头类型 Bit Type	钻头规格 Bit Description	备注 Remarks
全断面钻头 Full-hole Bit	Φ56、Φ66、Φ75、Φ76、Φ91、 Φ110、Φ130、Φ150、Φ171	可根据用户 要求加工各 类异形钻头
取心钻头 Coring Bit	Φ56、Φ59、Φ75、Φ91、Φ110、 Φ130、Φ150	

复合片(PDC)钻头

PDC Bit



合金钻头及空白圆钻头

Tungsten Carbide Bits and Blank Drill Bit



合金钻头及空白圆钻头规格

Drill bit and a blank circle drill specifications

钻头类型 Bit Type	钻头规格 Bit Description	备注 Remarks
空白圆钻头 Blank Drill Bit	Φ56、Φ66、Φ75、Φ76、Φ91、 Φ110、Φ130、Φ150、Φ171	可根据用户 要求加工各 类异形钻头
单/双管合金钻头 Single/Double tube T.C bit	Φ56、Φ59、Φ75、Φ91、Φ110、 Φ130、Φ150、Φ171	



地质钻探工具

Geological Drilling Tools

自由钳 Circle Wrenches



金刚石自由钳
Diamond circle wrenches

合金自由钳
Tungsten Carbide circle wrenches

套管自由钳
Casing circle wrenches

自由钳钳口金刚石/合金分布均匀、耐磨、不易脱落。使用时不打滑、不伤管壁，可以延长钻探工具的使用寿命，适合各口径钻杆及套管的装拆。

Manufactured with advanced technique, circle wrenches can avoid damage to rods and bit. They are especially fit to screw up and off rods.

生产规格：金刚石自由钳 Diamond circle wrenches

Φ41/43、Φ56/Φ58、Φ71/Φ73、Φ89

合金自由钳 Tungsten carbide circle wrenches

Φ53、Φ55.5、Φ71/Φ73、Φ89、Φ114

套管自由钳 Casing circle wrenches

Φ73/Φ89、Φ89/108、Φ108/Φ127、Φ127/Φ146、Φ146/168、

Φ168/Φ194、Φ194/219、Φ219/Φ273、Φ273/Φ325

套管夹板 Casing clamp



套管夹板主要规格有：
Casing clamp main specifications:

Φ73、Φ89、Φ108、Φ127、Φ146

垫叉、拔叉 Padding fork、spanner fork



垫叉、拔叉主要规格有：
Padding fork, spanner fork Main specifications
Φ43、Φ50、Φ57、Φ65、Φ75

丝锥 Recovery Taps



我厂生产的丝锥造扣性能好，适合各类钻杆，使用优质合金钢材料，采用先进的渗碳淬火工艺，使该产品有稳定的使用性能。Recovery taps made by our factory have self-tapping threads, and applicable to many types drill rod. Be made of high quality alloy steel. Carburizing technology made taps performance good.

各类变径管接头、岩心管钻杆接头

Various types of Adapter subs, core tube coupling



根据客户具体要求，提供各类互换性良好的各规格变径接头。According to the requirements of customers, We can providing various types adapter subs with good quality.



非开挖钻具

Horizontal Directional Drilling Tools

非开挖整体式加厚钻杆 HDD one-piece Forged Drill Rod



非开挖整体式钻杆
One-piece Forged Drill Rod



非开挖整体式钻杆剖样
One-piece Forged Drill Rod



非开挖整体钻杆规格及参数

规格 Size	外径(mm) O.D	壁厚(mm) W	加厚外径(mm) Forged O.D	最小弯曲半径(M) Minbend Roding	最大扭矩(KNM) Max. Torque	材质 Material
50	Φ50	6.5	Φ57	37	4.8	42MnMo7
60	Φ60	7.5	Φ67	40	6	42MnMo7
73	Φ73	8	Φ80	62	13	42MnMo7
76	Φ76	10	Φ88	65	15	42MnMo7
89	Φ89	10	Φ92	72	25	42MnMo7

长度可根据用户要求定制

he length can be customized according to the customer's demands

非开挖摩擦焊钻杆

Friction welding drill rod



非开挖摩擦焊钻杆规格及参数

HDD Friction welding drill rod parameters

规格 Size	外径(mm) O.D	壁厚(mm) W	接头外径(mm) Coupling O.D	螺纹形式 Thread Type	最大扭矩(KNM) Max. Torque	材质 Material
73	Φ73	10	Φ99	D75	16	G105/S135
89	Φ89	10	Φ105、Φ121	D100、NC31、NC38	25	G105/S135
102	Φ101.6	8.36	Φ127	NC38	40	G105/S135
114	Φ114.3	8.56	Φ127	NC38	65	G105/S135
127	Φ127	9.19	Φ168.3	Nc50	110	G105/S135

长度可根据用户要求定制

he length can be customized according to the customer's demands





非开挖钻机

Horizontal Directional Drilling Tools

钻头及配件 Bit and Fittings

根据客户要求可提供各种规格的导向钻头、钻头板、钻头、短节与接头、拉管接头、分动器。

We can manufacture all kinds drill heads, sonde housings, directional blades, drill bits, adapters save subs, starter rods, pullers and pullback swivels according to requirements.

名称 Name	规格 Description	名称 Name	规格 Description
圈式切扩头 ringed reamer	Φ400-Φ1800	翼式切扩头 Ringed Reamer	Φ250-Φ350
筒式扩头 barrel reamer	Φ200-Φ1800	流道式回扩头 fluted back reamer	Φ200-Φ1500
导向钻头 Pilot drilling	Φ80-Φ127	分动器 Swivel	10T-200T



螺旋流道钻头
Fluted Reamer



筒式扩扩钻头
Barrel-Reamer



圈式切扩钻头
Ringed Reamer



螺旋条切扩钻头
Spiral cutting expanding bit



导向钻头、钻头板
Pilot drilling, Guide plate



各类接头配件 Saver



分动器 Swivel

13



冲击器与跟管钻机

Impacter and casing drilling tools

WC/GWC系列气动潜孔锤 WC/GWC pneumatic down-hole hammer



GWC高压气动潜孔锤

WC中低压潜孔锤
Lower/Medium pressure hammer



WC/GWC系列气动潜孔锤为中/高压无阀式结构,可配在各类锚杆钻机上使用。外平钻杆的壁厚、长度、螺纹可按客户要求配置。

WC / the GWC series DTH as medium / high pressure valve structure, Can be equipped for use in various types of drill pipe bolt on. The flat drill pipe's wall thickness, length, thread can be order-made according to client's needs.

主要技术参数 (Main Technical Parameters) :

型号 Type	钻孔直径 Hole Dia. (mm)	钻具直径 Tool Dia. (mm)	耗风量 Air Consumption (m³/min)	工作压力 Air Pressure (MPa)	冲击功 Power (J)	冲击频率 Frequency (Hz)	长度 Length (mm)	重量 Weight (Kg)	配外平钻杆 Outer Flat Rod (mm)
WC56	65	56	3-4	0.5-0.6	50-60	12-14	910	12	Φ50
WC70	75-95	66	3-4	0.5-0.6	60-80	12-16	1030	16	Φ50、60
WC85	95-110	85	3-4	0.5-0.6	80-120	10-16	1112	23	Φ60、73
WC110	115-180	102/106	4-6	0.5-0.7	180-420	12-15	1200	42	Φ73、89
WC130	135-150	124	4-6	0.7-0.1	160	18	923	60	Φ73、89
WC150	150-180	142	6-10	0.5-1.2	200-580	12-15	1230	68	Φ89、114
WC200	205-250	185	18-21	0.5-1.7	150-800	10-14	1400	118	Φ114、127
GWC98	110-130	98	90-165	1.05-1.6	400-800	24-27	1045	38	Φ89

14



冲击器与跟管钻具

Impacter and casing drilling tools

偏心/同心跟管钻具

Eccentric / concentric Overbwrden drill tools

配合我厂生产的潜孔锤，可以钻进复杂、易坍塌地层。

Used with our down-hole hammer, it can drill through complicated formations in which drilling holes are easy to collapse.

主要技术参数(Main Technical Parameters):

型号 Type	潜孔锤 Down-Hole hammer	成孔直径 Hole Dia.(mm)	套管规格 Description of Casing Pipe	外平钻杆 Outer Flat Drill Pipe
GZ108	WC85	Φ120	Φ108	Φ73
GZ140	WC110	Φ151	Φ140	Φ76、89
GZ146	WC110	Φ156	Φ146	Φ73、89
GZ168	WC130	Φ179	Φ168	Φ89
GZ178	WC150	Φ190	Φ178	Φ89、114

套管 Casing

套管产品质量稳定，在小湾水电站的修面施工中跟管70米深。套管规格有Φ89、Φ108、Φ127、Φ146、Φ168、Φ178、Φ194、Φ219、Φ273。

套管长度定尺为1500mm可根据用户要求定制。

We can afford good quality DTH casing tube Φ89、Φ108、Φ127、Φ146、Φ168、Φ178、Φ194、Φ219、Φ273 are viable general length is 1500mm. The length can be orde-made.



套管、接箍
Casing Tube
Casing Coupling

外平钻杆

Outer Flat Drill Rod

与风动潜孔冲击器配套使用，又有利于反渣。

规格有Φ50、Φ60、Φ73、Φ89、Φ114。

长度定尺为1500mm，也可根据用户要求定制。

Used with pneumatic down-hole hammer, benefit to remove core. The common length of flat drill rod Φ50、Φ60、Φ73、Φ89、Φ114 is 1500mm, also it can be customized according to the customer's demand.



外平钻杆规格

Outer Flat Drill Rod Specifications

规格	钻杆外径及壁厚	结构形式	配套潜孔锤	备注
50	Φ50×6	接头与杆体焊接	WC50、WC70	定尺长度一般为1500mm，也可根据用户要求定制
60	Φ60×6.5	接头与杆体焊接	WC70、WC85	
73	Φ73×8	接头与杆体焊接/整体内加厚	WC85、WC110、WC130	
89	Φ89×10	接头与杆体焊接/整体内加厚	WC110、WC130、WC150	

气动贯通式潜孔锤

Air-driven hollow DTH hammer

气动贯通式潜孔锤与双壁钻杆配套使用，可实现反循环连续取心（样）、正循环、局部反循环等多种钻进工艺，适用于硬岩或复杂地层地质勘探、水井、工程施工钻孔，具有钻进效率高，钻头寿命长，钻孔岩心（样）质量好等优点。

Used together with Dual-wall drill pipe, air-driven hollow down-the-hole hammer can perform continuous reverse circulation core (sample) drilling and other drilling technology. It is suitable for geological exploration core drilling, well drilling, engineering drilling in hard or complicated formations it has advantages of high drilling efficiency, long life of bit, high quality of drilling hole and core, etc.



参数 parameter	型号 type	GQ80	GQ89	GQ100	GQ108	GQ127	GQ146	GQ160	GQ200	GQ250
冲击器外径 (mm) outside diameter		80	89	95	108	127	146	160	184	240
贯通直径 (mm) diameter of drilling hole		28	33	38	44	44	44	60	62	60
钻孔直径 (mm) diameter of drilling hole		84-95	95-110	98-105	112-132	132-152	152-175	168-250	205-257	260-350
耗风量 (m³/min) air consumption		3	4-5	2-3.5	5-7	8-10	10-12	10-12	10-20	10-25
冲击器压力降 (MPa) air pressure difference across hammer		0.5-1.1	1.2-1.4	0.5-1.1	1.0-1.4	1.0-1.4	1.0-1.4	1.0-1.2	1.0-1.2	1.0-1.5
单次冲击功 (J) single impact energy		50-120	140-155	66-145	110-130	250-280	400-450	500-640	650-850	680-880
冲击频率 (Hz) impact frequency		18	17-19	13.5-18.6	16-18	16-18	16-18	14-16	14-16	14-16



冲击器与跟管钻具

Impacter and casing drilling tools

双壁钻杆

Dual-wall drill pipe

双壁钻杆是用于反循环钻进的一种钻具，钻进时循环介质从双壁钻杆环状空间流向孔底，携带岩心(样)从内孔中间返回地面，能有效防止井壁坍塌，提高岩心(样)采取率，配合我厂反循环气(龙头和GQ)贯通式滑孔冲击器，能圆满完成反循环连续取心(样)钻进。

Used reverse circulation drilling, circulation medium flows the space of the dual-wall drill pipe and lifts with core (sample) from the hollow space when drilling. It can efficiently avoid the collapse of drilling hole, increase the core recovery ratio. Used with our air (water) tap/for reverse circulation and GQ hollow down hole hammer, you can perform continuous reverse circulation core (sample) drilling.



规格 Description	外管Outer Tube		内管Inner Tube	
	外径(mm) O.D	内径(mm) I.D	外径(mm) O.D	内径(mm) I.D
Φ73/41	73	63	45	41
Φ89/43	89	76	47.5	43
Φ102/77	102	86	73	67
Φ146/99	146	131	108	99



钻头 Bit



套管钻头
Casing shoe bit



与国外钻机配套的接头
Coupling matched to foreign drill rigs

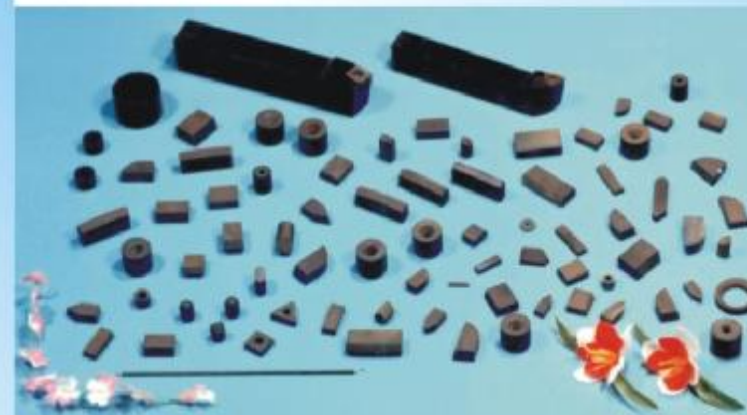


硬质合金

Carbide



类别 Type	型号 Model							备注 Remarks
切削刀片 Metal Cutting Tips	A		A1	A2	A3	A4		可按用户要求生产 各种异型合金 We can produce all kinds of special -shape carbide according to requirements
	C		C1	C2	C3	C4	C5	
	D		D1	D2				
	E		E1					
	F		F1	F2	F3			
地质矿山合金 Exploring and Mining Tool Tips	K	K0	K1	K2	K318			
	S		S122	S236	S3	S410	S5	
	T	T0	T1	T2	T3	T4	T5	



我厂生产的硬质合金可分为金属切削合金和地质矿山用合金,质量好,地质合金具有抗冲击性能高的特点。

The cemented carbide which are made by our factory can be divided into carbide used for cutting metal and for mining get high quality. Carbide used for mining is featured with high anti-impacting.



除了生产各种标准牌号和型号的硬质合金外,我厂还生产各种异型合金,各类模具、工具、耐磨件和电触点等,可以满足用户的各种需求。

Apart from producing cemented carbide of various standard grades and types, our factory also makes various allotype carbides, dies, tools, wear resistant parts and electrical contacts etc., which can meet all the demands of the customers.