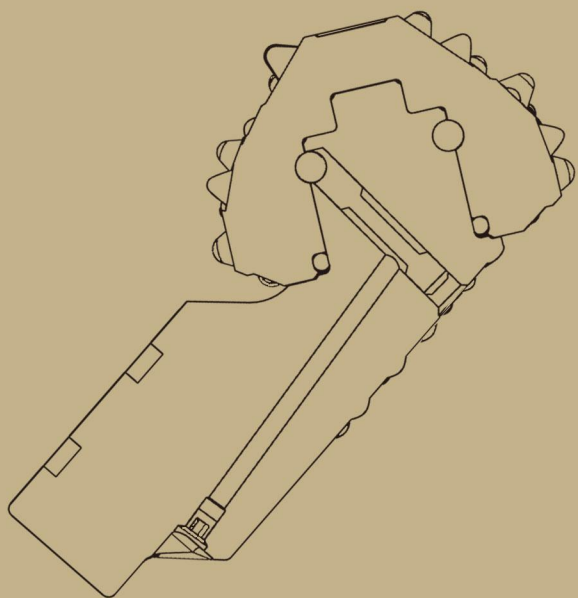




河北浩齐钻采设备有限公司

HEBEI HAOQI DRILLING EQUIPMENT CO., LTD



河北·沧州
HEBEI CANGZHOU

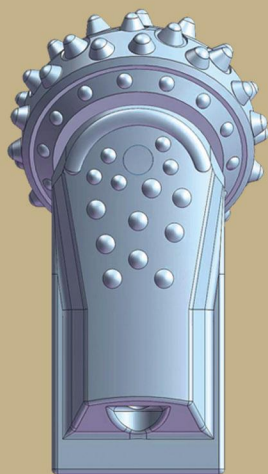
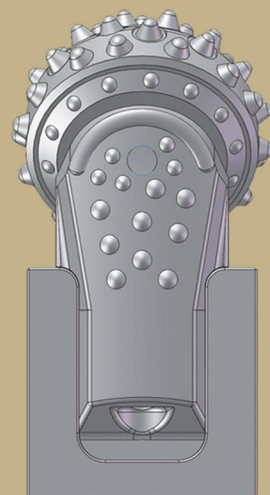


◎直柄可拆卸型

一种新型的安装方式，将配套的底座焊接在筒钻上，再将旋挖掌片通过螺栓紧固在底座上。该结构的牙掌拆卸更换效率高，安装尺寸和角度控制更精准。

STRAIGHT HANDLE DETACHABLE TYPE

A new installation method, the matching base is welded to the barrel drill, and then the rotary drilling cone bit palm is fastened to the base with bolts. The structure has high efficiency in disassembly and replacement of the cone bit palm, and the installation size and angle control are more precise.



◎直柄焊接型

目前逐渐转型的结构，通过焊接的方式安装在筒钻上，该结构的牙掌焊接牢固不易松动，形状规则，焊接量相对更小，焊接的角度和位置的控制精确度较高。

STRAIGHT HANDLE WELDING TYPE

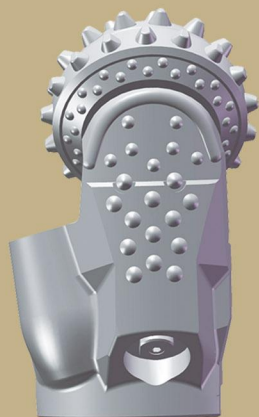
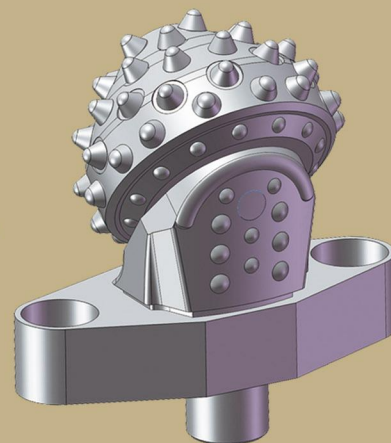
The structure is gradually transforming and is installed on the barrel drill by welding. The cone bit palm of this structure is firmly welded and not easy to loosen. The shape is regular, the welding amount is relatively small, and the control accuracy of the welding angle and position is higher.

◎快接型

目前正在广泛推广的结构。该结构的牙掌可使用螺栓快速连接筒钻。

QUICK-CONNECT TYPE

This is a widely used structure. The cone bit palm of this structure can be quickly connected to barrel drill using bolts.



◎普通型

国内目前使用最广泛的结构，通过焊接的方式安装在筒钻上，该结构的牙掌焊接牢固不易松动，但牙掌柄部形状不规则，焊接量大。

ORDINARY TYPE

The most widely used structure in China, installed on the barrel drill by welding. The cone bit palm of this structure is welded firmly and not easy to loosen, but the shape of the cone bit palm handle is irregular and the welding amount is large.

钻头命名 Naming and additional features

浩齐旋挖牙轮钻头名称由尺寸规格、系列代号、IADC分类号、附加特征代号四部分组成
以8 1/2 MHA617G命名示例：

The name of HAOQI single cone bit is consisted of 4 parts,namely size model,serial code,IADC code and additional feature code. Example 8 1/2 MHA617Y:

8 1/2	MHA	617	G
尺寸规格 Size Model	系列代号 Serial Code	IADC分类号 IADC code	附加特征 Additional Feature Code

3.1 直径代号 DIAMETER CODE

用英寸数值表示牙轮掌片的规格大小。
The size model of single cone bit is expressed in inches.

3.2 系列代号 SERIAL CODE

用3个英文字母表示。
第1个字母表示掌片配合类型，M表示单牙轮；
第2个字母表示轴承类别，H表示滑动轴承；
第3个字母表示密封类别，A表示O型橡胶密封。
Expressed by 3 English letters.

The first letter indicates the type of single cone bit combination, M means single cone bit;
The second letter indicates the bearing type,H indicates journal bearing.
The third letter indicates the sealing type,A indicates “O” ring rubber sealed.

3.3 IADC分类码 IADC CODE

由三位数字组成，第1位表示钻头切削结构类别及地层硬度，第2位为地层分级号，第3位为轴承和密封特征代号。
第1位：4、5、6、7、8,数值越大表示地层硬度越高。
第2位：1、2、3、4(地层分级，数值越大表示地层硬度越高)
第3位：浩齐旋挖掌片常用5(密封滚动轴承)、7(密封滑动轴承)。

Consisted of 3 digit numbers:The first digit number indicates the cutting structure of drill bit and formation hardness,the second digit number indicates the formation grading number,the third digit number indicates the bearing and sealing features code.
The first digit : 4、5、6、7、8,the larger the value,the higher the formation hardness.
The second digit : 1、2、3、4 (Formation grading,the larger the value,the higher the formation hardness).
The third digit: HAOQI single cone bit usually use 5 (sealed rolling bearing) and 7 (sealed journal bearing).

3.4附加特征代号 ADDITIONAL FEATURE CODE

附加特征代号反映旋挖牙轮钻头具有的特殊结构，浩齐旋挖掌片可选的附加特征代号见下表：
Additional feature code represents the special structure of single cone bit,the optional additional feature code of HAOQI single cone bit as below:

代号 Code	附加特征 Additional Features
T	牙轮外径保护强化 Trimming Strengthening and maintaining diameter
G	掌背特殊强化 Extra gage protection
K	勺形齿 Spoon Tooth
X	楔形齿 Wedge Tooth
Y	锥球齿 Conical ball Tooth

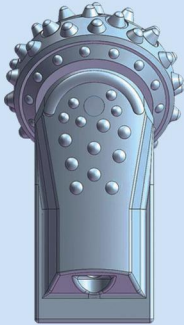
8 1/2 MHA617G

•适用地层 APPLICABLE FORMATIONS

50 ~ 130MPa, 中、微风化花岗岩、凝灰岩、石灰岩、白云岩、砾石等。中、高强硬抗压强度地层, 地层均质性强, 中、低研磨性地层。

50~130MPa, medium or slightly weathered granite, tuff, limestone, dolomite, gravel, etc. Medium and high compressive strength formations, strong formation homogeneity, medium and low abrasiveness formations.

•产品特征 PRODUCT CHARACTERISTICS:

IADC编码 IADC CODE:	6-1-7	
轴承类型 BEARING TYPE:	滑动轴承钢球锁紧 Journal bearing steel ball locking	
密封 SEAL:	O型橡胶密封 "O" ring rubber seal	
切削结构 CUTTING STRUCTURE:	锥球齿 Conical teeth	
齿排/齿数 TEETH ROW/TEETH COUNT:	七排/52颗 7 Rows/52 pcs	
指尖掌背防护 PALM TIP AND BACK PROTECTION:	敷焊+镶齿 Welding with carbide inserted	

•带宽 WIDTH

115~120mm

•推荐钻压 RECOMMENDED PARAMETERS

单件最大承载钻压5000-7000KG
Maximum weight on bit for a single piece is 5-7 tons.

•推荐使用参数 RECOMMENDED WOB

地层 Formations	推荐钻压 Recommended WOB	推荐转速 Recommended RPM	
		孔径(米) Diameter(m)	转速(RPM)
中硬地层 Medium hard formation (50-100Mpa)	20-30T	0.8-1.5	12-16
		1.5-2	10-12
		2-2.5	6-10
		2.5-2.8	3-6
硬地层 Hard Formation (80-150Mpa)	20-35T	0.8-1.5	10-12
		1.5-2	8-10
		2-2.5	5-8
		2.5-2.8	2-5



合金齿孔直径检测

DETECTION OF ALLOY TEETH HOLE DIAMETER

牙掌真空注油



VACUUM OIL FILLING OF CONE BIT PALM



轴承精车

BEARING FINISHING

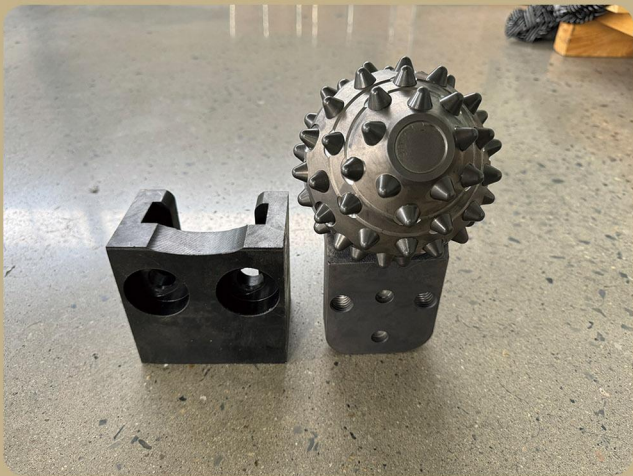


轴承钴基连铸焊丝硬化

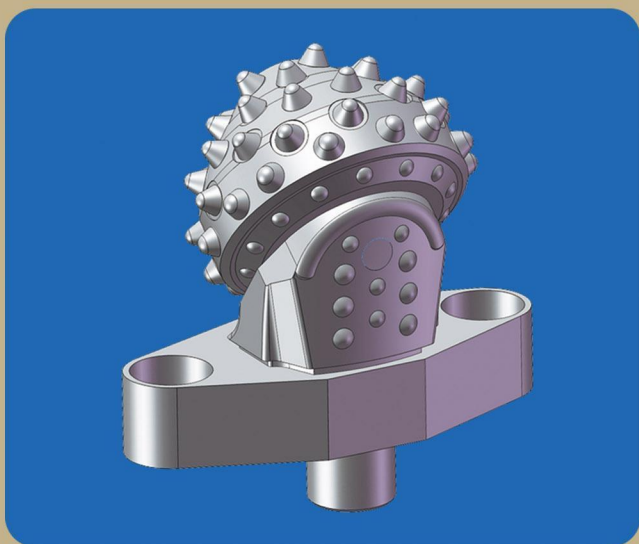
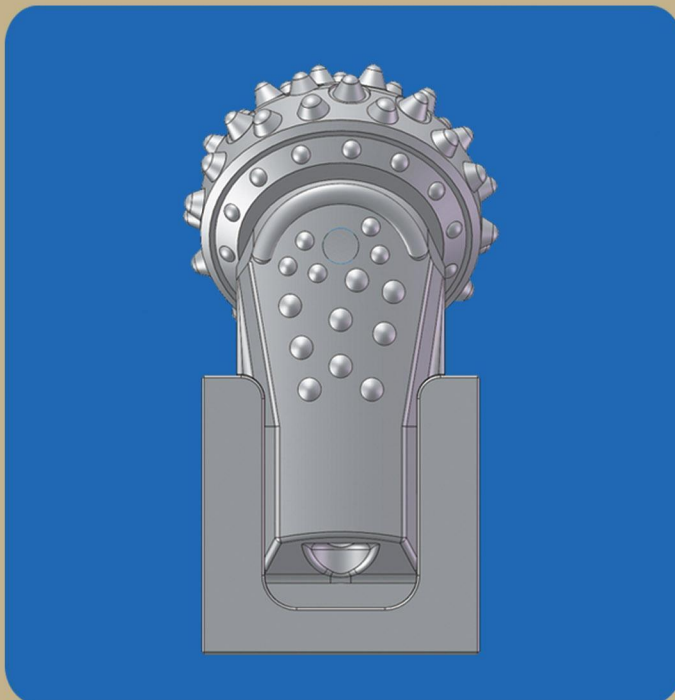


HARDENING OF COBALT-BASED CONTINUOUS
CASTING WELDING WIRE FOR BEARINGS









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