

凯通钻具(集团)有限公司

CASTON DRILL TOOLS(GROUP)CO.,LTD



中国.凯通钻具 Chinese Kaitong drill

目录

双 CONTENTS:

01-02 公司简介 Company Profile

03-04 质量管理 Quality Management

05-10 生产工艺及设备
Production Technology and Equipment

11-58 产品介绍 Products

59-65 技术开发 Technology Dvelopment

66-68 营销与服务 Marketing and Service

> 欢迎您走进凯通集团 翻开手册的每一页 给您的不仅仅是信心,更是信任的承诺!





CASTON DRILL TOOLS (GROUP) CO.,LTD 凯诵钻具(集团)有限公司

Company Ideology

做优质钻具

Produce the high-quality drill tools

创国际品牌

Create an international brand



公司简介

凯通钻具(集团)有限公司是集产品科教、研发、生产、销售和服务于一体的专业钻杆钻具生产制造集团公司。

公司产品涉及领域为城市建设、管道传输建设运用的非开挖钻杆钻具;为资源开发运用提供矿山钻具、水井钻具、热源钻杆、石油钻具;为工程施工加固建设的锚固钻具;为开采处理险情的气体排险钻杆、抢险钻杆;为各种类钻机配套的联动配件等。同时,承接国内外 OEM 和ODM 订单。我们还致力于开发新产品以满足不同工程领域、不同客户需求,年生产量达到 7000 多吨。

凯通钻具(集团)公司总部设在北京,集团公司旗下设有四家公司,分别为北京凯通卓尔科技有限公司,俄罗斯圣彼得堡凯通公司、无锡 凯通钻具有限公司、宣化现代采掘机械有限公司。

北京凯通卓尔科技有限公司为集团科技研发中心、品牌营销中心;钻具研发、工程作业咨询、品牌营销、代理国内外品牌钻机等业务。 俄罗斯圣彼得堡凯通公司是公司设在海外营销机构,独立注册经营,主要销售石油钻具、非开挖钻具、非开挖水平定向钻机、旋挖钻机等。 无锡凯通钻具有限公司、宣化现代采掘机械有限公司为生产制造事业部,为实现 "产业规模化、制造专业化、品质精湛化"的资源配置经营理念,无锡凯通以非开挖整体钻杆、钻具、石油钻杆为主,宣化现代以非开挖焊接钻杆、潜孔钻杆钻具为主。

公司有国内最先进的钻杆生产线两条,主要关键设备包括智能全自动钻杆中频热处理生产线,该设备具有世界级领先水平、螺纹激光处理机、 自制研发 600T 摩擦焊机是目前世界上钻杆焊接管径 300mm 规格最大的焊接机床,1000 吨加厚锻压机、各种智能数控螺纹加工设备、耐磨自 动电焊机等设备。

公司研发中心技术人员 20 余人,保持钻探钻杆产品研发处于领先水平。钻杆管体加厚技术达到世界一流水平,反向挤压管体内过渡带成型技术,使石油钻杆内外加厚内过渡带长度达到 200 毫米以上,整体钻杆加厚技术更是全国领先。新型定向穿越钻杆紧密螺纹成型技术、双壁钻杆驱动全地质导向钻头、光谱型岩石穿越导向钻头申报并获得国家技术专利,该专利技术大大降低非开挖钻杆在施工中风险度。

公司拥有完善的质检中心,配置各类质量控制人员和系统化检验设备。已取得 ISO9001:2008, APIQ1 质量体系认证。

公司在国内外都拥有广阔的市场,因其产品质量可靠,信誉良好,凯通钻具与国内各知名品牌钻机制造商、工程施工商建立长期合作关系并成为优质供应商。凯通品牌产品销往欧美等全球各国,受到国内外专业人士好评,口碑及佳。

凯通钻具追求专业化完美的品质、国际化的一流企业把集团公司打造成集团化的管理、市场化的经营、现代化的规模、国际化的服务,具有较强发展能力、盈利能力和国际竞争力的国际知名钻具制造公司。

Caston Drill tools (GROUP) is a is a professional drill pipe and drill tool manufacturer of science and education, research development, production, sales and service. Production include HDD drilling for city basic pipeline trenchless construction, Mining, water well, oil drilling for resources development, Anchor drilling for engineering construction, emergency rescue drilling for danger handle, Accessory for drill rig. The GROUP also to undertake OEM and ODM orders, committed to the development of new products to meet different engineering fields and customers demand. The annual year production capacity more than 7000 tons.

Caston Drill tools(GROUP) Headquartered in Beijing, equipped with four companies, Beijing Caston Drill Technology Co.,ltd , LLC KAITONG Russia, Wuxi Kaitong Drill Tools Co.,ltd, Xuanhua Xiandai Excavating Machinery Co.,ltd.

Beijing Caston Drill Technology Co., Itd. is a group of science, technology research and development center, brand marketing center; and engineering work consulting, agent at domestic and abroad brand drill rig, and etc.

LLC KAITONG Russia is company overseas marketing agency, Independent registered business, mainly sale oil drill tools, HDD and Rotating.

Wuxi Kaitong Drill Tools Co., Itd, Xuanhua Xiandai Excavating Machinery Co., Itd is the Group manufacturer. For the realization of the *industry scale, produce professional quality excellent, *the allocation of resources management idea, Wuxi Caston mainly produce HDD forged drill pipe, tools and oil drilling, Xuanhua Xiandan produce HDD and Ming friction welded drill pipe.

The Group has two the most advanced pipe production lines, the automatic IF heat treatment production line has the world leading level, thread laser processor, self-research and development 600t drill pipe friction welder is the world largest welding machine, can welded pipe diameter 300mm, 1000t upset forging machine, kinds of intelligent CNC thread processing equipment, wear-resistant automatic welding machine and etc.

The Group's research and development center has technical personnel more than 20 persons, keep the drilling pipe product research and development in a leading level of the world. The drill pipe upset forging technology achieve world-class level, backward extrusion pipe transition zone forming technology, that the oil drill pipe IEU upset zone length 200mm above, forging drill pipe technology is best of the country. New directional crossing drill pipe thread molding technology, double-wall drill bit for all geology, spectral type rock directional guide bit declare and obtains the national technology patents, the patent technology greatly reduces the risk of trenchless pipe in the construction

The GROUP has a professional quality testing center, configuration of quality control personnel and systematic test equipment, and have get the ISO9001:2008, API 5 DP certificate.

The GROUP has broad market both domestic and abroad, cause of reliable and reputable product quality, , Csaton establish long-term cooperative relations with domestic famous drill rig manufacturers, and become the qualified supplier. Csaton brand products are exported to Europe, the United States and other countries around the world, is well received by domestic and foreign professionals.

The GROUP work for the professional perfect quality, international first-class enterprise. Caston Committed to the company into the collectivization management, market-oriented operation, the modernization scale, international services, with strong development capacity, profitability and international competitiveness international drilling manufacturing company.

已就认证



耐磨带认证 Hard Banding Certifficate



内涂层认证 Internal Coating Certificate



专利证书 The patent certificate



TAF

1809001:2008



API认证 API 5DP Certificate

Effective Date: APRIL 7, 2016 Expiration Date: APRIL 7, 2019







专利证书 The patent certificate

专利证书 The patent certificate 专利证书 The patent certificate

质量管理

Quality Management

- ▶ 按照API标准生产检验各类产品,保证了产品质量的稳定可靠。
- ▶公司配备了磁粉探伤,超声波探伤,螺纹检测,同轴度检验,硬度及壁厚检验等检验、测试设备,使各工序在监控下完成。
- ▶公司拥有先进现代化实验室,对材料化学成分分析。机械性能测试及 热处理金相分析,从而保证产品理化性能的可靠性。
- ▶ 公司拥有一支专业资质的检验队伍,深化产品质量符合API标准要求。
- All kinds of products are inspected according to API standar, ensure the product quality stable and reliable.
- ► The company have equipped with magneta test,ultrfonac,thread test,right align-ment test,hardness test and so on inspection and testing equipment, to guarantee each process under surveillance on paper.
- Companies with advanced modern laboratory of materials, chemical composition analysis, mechanical properties test and metallographic analysis, so as to ensure the reliability of the physical-chemical properties of the products.
- CDTC owns a professional qualifications, deepen the product quality inspection team with APIT standard.



扭矩实验 Torque experiment



质量管理

Quality Management



螺纹影像仪 Thread Image



拉伸试验 Tensile test



螺纹单向仪 Screw Thread Unidirectional Apparatus



超声波硬度计检验 Inspection of ultrasonic hardness Test



金相组织结构分析 Analysis for Metallic Structure



三点压力检验 Three Point Pressure Test



冲击试件制作 Make the Impact Test Item



硬度检验 Hardness Test



磁粉检验 Magneta Test



V型缺口投影仪 V-notch projector

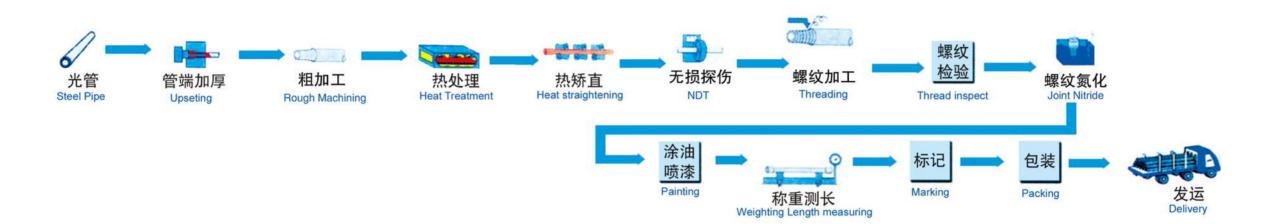


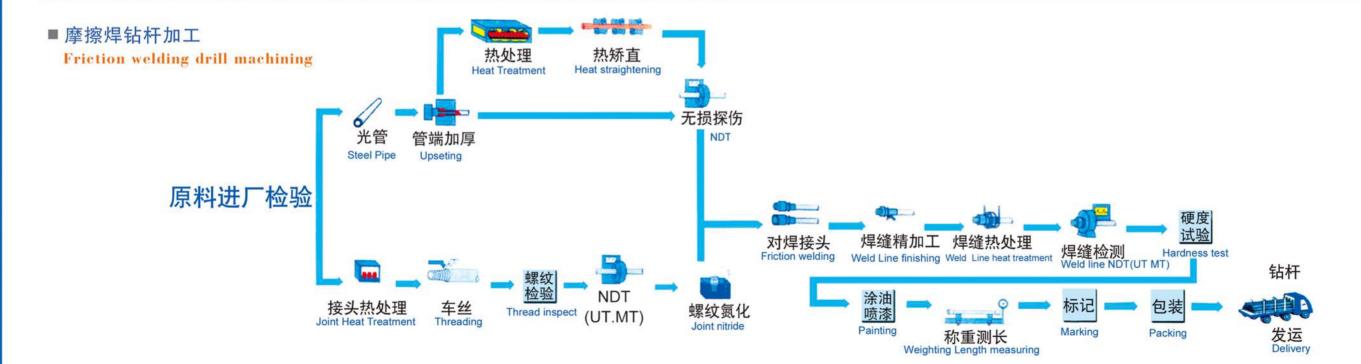
超声波检验 Ultraonic Test



冲击试验 Impact Test

■ 整体钻杆加工 Overall drill machining





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生产工艺及设备 接头加工

Production technology and equipment/Joint Processing

■热挤压机

Hot extrusion machine

采用1250T液压机对接头进行锻造加工,改善材料金相纤维组织,提高冲击韧性,从而保证接头的综合机械性能。

Adopt 1250 T-connector hydranlic for joints forging ,to improve the metallolgraphical fibrous tissue and impact tonghness. So guarantee the comprehesive mechanical propertide of the welding joints.



Heat treatment equipment

可控气氛多功能热处理设备对工具接头调质处理,保证每个工件的回火索氏体转化较为充分,大大提高接头的机械性能。

To use controllable atmosphere heat treatment equipment. Ensure each workpiece sorbite transfermation more fully, greatly enhance the mechanical properties of joints.

■螺纹加工设备

Thread maching equipment

采用长城数控机床进行螺纹精加工,保证 了螺纹表面光洁度及螺纹紧密距公差。

To use great Wall CNC machine tool to thread finish machining and thread close tolerances $_{\circ}$







生产工艺及设备接头加工

Production technology and equipment/Joint Processing

■ 630LYJ 加厚机组

630LYJ Upsetter Unit

主要设备有两工步中频加热炉,立柱式液压加厚机,自动送退料辅助线,冷却水循环水冷机等组成。做到了钢管加厚生产连续、高效、且具有极高的机械化,自动化程度。

There are two step major equipment furnace, vertical column thick-enging hydraulic machines, automatic feed material support withdrawal line, the water cycle cooling water and other components. Thickening of the pipe production to continuous, cost-eddective, and reached highly mechanized, and the antomation degree.



主要设备有三工步中频加热炉, C型液压加厚机, 步进式自动送料线,自动水冷却机组。其工艺特点是成型速度快稳定性好,适合于符合 API 5D 要求的各种管端加厚。

Major equipment including furnace, C-type hydraulic thickening machine, automatiacally stepwise line, automatic water coolong unit. Its technics characteristic is molding speed, well stablity. Suitable for each upseting accord API5D.

■双线调质机组

Double line quenched and tempered Unit

由淬火机床、回火机床和自动化控制系统组成,对 石油管体加厚后热处理比传统箱式炉热处理有明显优势,该套设备具有世界领先的技术水平。

Have quenching machine, temperin machine tool and automation control system, control of the oil thickening after heat than traditional box-type furnace heat treatment are obvious advantages. And to indentify the sets of equipment with word leading technology level.







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生产工艺及设备 接头加工

Production technology and equipment/Joint Processing



600T混合式摩擦对焊机 600T Friction Welding Machine

拥有30T,40T,60T,80T,130T,200T,400T,600T共八台摩擦对焊机,采用连续加惯性摩擦焊技术,通过电脑监测焊接参数,从而保证了焊接质量。

采用形变热处理技术,利用焊接热及顶锻变形,通过焊机自动喷淋淬火,辅以二道回火工序,得到目前国际上最高性能指标的焊缝组织结构。

采用独特的内飞边冲切技术及焊缝内外磨工序消除焊接应力集中,使焊缝美观整洁,提高了钻杆的使用寿命。

配备了自动测长称重,自动喷漆,保证了产品的内外在质量。

Fricton welder machine have 30T,40T,60T,80T, 130T,200T,400T,600T,8 fricton welder machine, adopt continuous and inertia friction welding, and moniter parameter by computer to guarantee the weld quality fundamentally.

To use Deformation heat treatment, quote welding heat and top deformation, through the welder

sprinkler quenching, with tempering welding process, get the highest international performance index of the organization performance.

Adopt unique within the punching techniques and flash and grinding process to eliminate the stress concentration areas. Make a perfect pipe and improve weld appearance pipe using life.

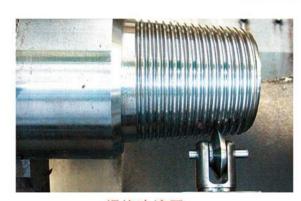
Equipped with automatic weighingand spray length measurement, guarantee the products and external quality.

生产工艺及设备 接头加工

Production technology and equipment/Joint Processing



生产流水线 Production lines



螺纹冷滚压 Cold rolling thread



上卸扣机 The shackle machine



焊缝回火 Weld tempering



接头螺纹激光处理 Threaded joints laser treatment