



中国专业化无缝钢管企业

China Professional Seamless Steel Tube & Pipe Enterprise



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衡阳华菱钢管有限公司

HENGYANG VALIN STEEL TUBE CO.,LTD.



## 企业简介

### COMPANY PROFILE

衡阳华菱钢管有限公司(简称衡钢)始建于1958年,是一家在全球具有较大影响力的专业化无缝钢管生产企业。现有在岗员工3000余人,总资产120余亿元,系国家高新技术企业、全国双A级信用企业、全国知识产权优势企业、湖南省出口十强企业、湖南省十大平安示范单位、湖南省典型的绿色企业、湖南省园林式单位。

机组及能力:具有炼铁、炼钢、轧管、钢管深加工全流程,全配套钢管生产工艺,有1080m<sup>3</sup>高炉1座,小、大、特大3条圆管坯生产线,φ89、φ120、φ219、φ340、φ720等5条国际先进的钢管生产线以及15条钢管深加工生产线,具备年产120万吨铁、180万吨钢、160万吨管、100万吨热轧棒、60万吨螺纹加工的生产能力,年销售收入约120亿元。

产品规格:现能生产直径24-800mm、壁厚3.5-200mm的各类规格的无缝钢管,并能生产边长100-550mm、壁厚3.5-120mm的方矩钢管。

主要产品:打造了油气用管、压力容器用管、机械加工用管三大拳头产品系列和具有自主知识产权的HS产品系列,在钢管领域实现国产化。油气用管广泛应用于全球各类地质环境的陆地、海洋油气田,油管管径最高达HS155V,套管管径达X100,压力容器用管广泛应用于全球各火电、核电站、超越临界机组和核电行业,最高钢级达P92,耐温达600°C,耐压为30MPa,低温管Gr8抗低温可达-196°C。机械用管广泛应用于全球各类机械制造业和工程建设业,产品强度最高可达1000MPa,同类产品性价比优。

重要客户:产品销往全球石油、石化、锅炉、发电、机械、煤炭、化工、核电、建筑等行业中的知名企业,客户数量近千家,出口100多个国家和地区,出口比例50%。

公司发展:明确以“4321”战略思想推动企业高质量发展,即以建设“开拓进取、引领行业、智慧高效、美丽宜居”的四个新衡阳为主要任务,以“引领行业发展方向、引领行业产品标准、引领行业市场定位”的三个引领方向,以“务实和创新”两个文化基因为核心,成就“世界一流专业化无缝钢管企业”共同愿景。



Founded in 1958, Hengyang Valin Steel Tube Co.Ltd (hereinafter referred to as HYST), is China-based professional seamless steel tube & pipe producer with a track record of both domestic supplies and global outreach, with over 3,000 staffs and overall assets worth RMB 12 billion. HYST enjoys the title of high-tech enterprise, AA credit enterprise and IPRs advanced enterprise in nationwide, top ten export enterprise, top ten safety production enterprise, two-oriented demonstration enterprise as well as garden-style enterprise in Hunan Province.

HYST has an integrated production chain of iron steel rolling, further processing and integrated seamless steel tube & pipe production technology, and matches with a 1080m<sup>3</sup> blast furnace which include 3 round billet production line of small, large and extra large and 5 internationally advanced steel tube & pipe production line named φ89, φ120, φ219, φ340, φ720, together with 15 steel tube & pipe further processing line. HYST has an annual output capacity of 1.2 million tons of iron, 1.8 million tons of steel, 1.6 million tons of seamless steel tube & pipe, 1 million tons of heat treatment and 0.6 million tons of thread & coupling processing which contribute to an annual sales revenue of 12 billion Yuan.

Product specification: HYST is qualified to produce all kinds of steel tube & pipe within 24mm diameters 800mm and 3.5mm WT x 200mm, and square tube and rectangle tube within 100mm side length x 550mm and 3.5mm WT x 120mm.

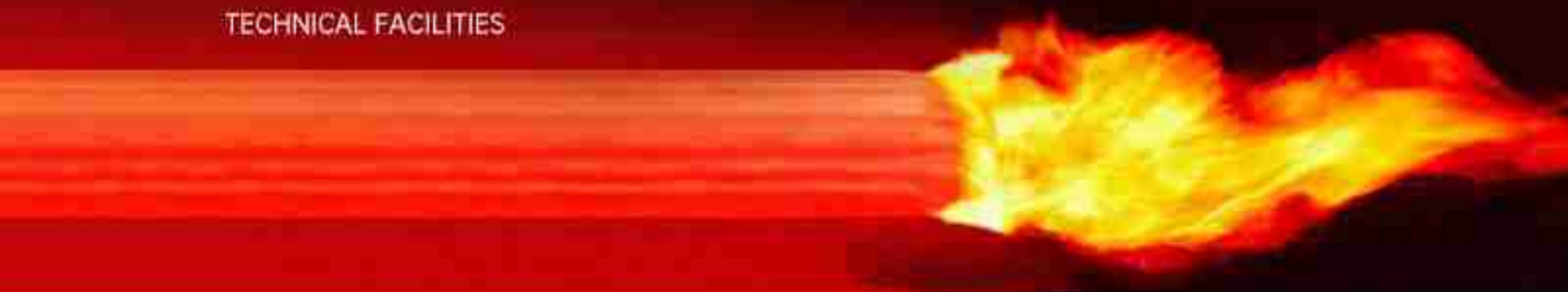
Main Products: HYST's three leading products include oil and gas pipes, pressure vessels and mechanical tubing. All three products feature the patented HS series with independent intellectual property rights. HYST's OCTG products have been applied in a variety of environments such as lands and offshore oil and gas fields globally. HYST's highest grade of tubing and casing is HS155V, and highest grade of line pipe is X100. HYST's pressure and vessel products have been applied in a variety of thermal power, supercritical equipments, ultra-supercritical equipment and nuclear power fields globally. HYST's highest grade of pressure and vessel products is P92, which can resist high temperature of 600°C and high pressure of 30MPa. HYST's highest grade of low-temperature products is Gr8 and it can resist low temperature of -196°C. HYST's mechanical products have been applied in a variety of machinery manufacturing enterprises and engineering and construction industries globally which are cost-efficient compared with others.

Key customers: HYST's products have been sold to thousands of customers in hundreds of countries globally which involve variety of fields such as petroleum, petrochemical, boiler, power generation, machinery, coal, chemical engineering, nuclear power and construction fields, and its export proportion has exceeded 50%.

HYST's development: HYST has determined a strategic thought which is called "4321" to push its development. "4" means constructing new HYST according to four main tasks which include "forging ahead, being industry leader, intellectualizing and efficiency, beauty and prosperousness". "3" means guiding HYST according to "leading the industry development direction, leading the industry product standard, leading industry-market positioning". "2" means treating "pragmatic spirit and innovation" as its core cultural gene. "1" means pushing HYST to be "first-rate professional seamless steel tube & pipe enterprise in the world".

# 技术装备

TECHNICAL FACILITIES



## 高炉炼铁 BF Iron-Making

一座1080m<sup>3</sup>高炉，采用新型高效矿焦振动筛，小块焦回收与烧结矿混入炉技术，串罐式无岩钟炉顶，炉体全冷却炉衬结构，大块废砖+副碳粉的炉底，护缸结构，孟恒法（轮法）水渣处理工艺，高效顶燃式热风炉。整体的工艺技术及设备水平达到国内同类型高炉的先进水平。

A 1080m<sup>3</sup> blast furnace, using new efficient vibration sieve of iron ore and coke, charging technology of small coke recycling together mixed with sinter, string up bucket type bell-less top and furnace body with full cooling stove and lining structure, chunk carbon brick+ceramic cup bottom, furnace cylinder structure, Jiaheng method (Wheel method) water slag treatment process and efficient top burning type stove whose overall technology and equipment has reached the advanced level among the blast furnaces of the same type in China.



## 弧形连铸圆管坯生产线 Curve Continuous Caster of Round Billet

采用超高功率电炉—转炉—真空脱气炉—弧形圆管坯连铸工艺。  
Using EAF—LF—VD—CC



## Φ89 PQF Mill Φ89连轧管机组

采用锥形穿孔—PQF三轧—24机架张力矫直工艺路线，整体装备水平达到国际领先水平。  
Using Cone Type Piercer—PQF Mill—24 stand Stretch Reducing Mill, the overall equipment facilities reach international advanced level.



## Φ180连轧管机组 Φ180 PQF Mill

采用锥形穿孔—连轧—14机架定径工艺路线的石油管生产线，主体设备从国外引进，关键设备处于国际领先水平。

Using Cone Type Piercer—Premium Quality Finishing—14 stand Sizing Mill, its main Parts were imported from SMS Meer Germany and equipment facilities reach international advanced level.



## Φ219 Three-roll Assel Mill Φ219 三辊轧管机组

采用锥形穿孔—三辊轧管—微张力工艺路线，在国内机组加工管行业享有较高的声誉。

Using Cone Type Piercer—three-roll Assel mill—Micro-Stretch Reducing Mill, its machinery tube & pipe enjoy a high reputation in China industry.



## Φ340连轧管机组 Φ340 MPM Mill

采用锥形穿孔—5机架滚动芯棒连轧—12机架定径减径工艺路线，穿孔机、连轧机、定径机三大主体设备全部从德国引进，整体技术装备居当今世界先进水平。

Using Cone Type Piercer—Premium Quality Finishing—14 stand Sizing Mill, its main Parts were imported from SMS Meer Germany and equipment facilities reach international advanced level.



## Φ720 Hot Pilger Mill Φ720周期式轧管机组

德国鲁尔康卓工程，采用（水压冲孔）锥形穿孔—周期轧管—五机架定径工艺路线，周期轧管机从MEER公司进口，是当今世界最大的周期轧管机组，代表着国内大口徑钢管生产的最高水平。

Using (Hydraulic Press) Barrel Type Pierce—Hot Pilger Mill—5 stand Sizing Mill, its rolling mill was imported from SMS Meer, which is currently the largest Hot Pilger Mill worldwide and represents the highest level of extra OD seamless steel tube and pipe in China was.



## 管加工生产机组 ΦOCTG Processing Line

采用热处理、加厚、车丝等工艺，为客户提供高技术含量的深加工产品。

Using Heat-treatment, End upsetting, Threading & Coupling Processes, it has provided our customers further processing products with high tech content.

# 有心皆可为 创新谋发展

All can be done with innovative development

## 冶炼系统 Smelting System

1座优质铁水生产线 180m<sup>3</sup>烧结+1080m<sup>3</sup>高炉  
2座弧形连续铸坯生产线  
φ140mm, φ150mm, φ180mm, φ220mm,  
φ250mm φ280mm, φ330mm  
1座弧形连续铸特大圆管坯生产线  
φ500mm, φ600mm, φ700mm, φ800mm

One High Quality Iron Making 180m<sup>3</sup>  
Sinter+1080m<sup>3</sup> Blast Furnace  
Two Curve Continuous Casters for Round Billet  
φ140mm, φ150mm, φ180mm, φ220mm, φ250mm,  
φ280mm, φ330mm  
One Curve Continuous Caster for Large Round Billet  
φ500mm, φ600mm, φ700mm, φ800mm

## 螺纹加工生产线 Threading Lines

车丝线 φ60.3mm-φ508mm  
Threading Lines φ60.3mm-φ508mm

## 管材生产线 Tube & Pipe Production Lines

φ89 连轧管机组 φ38mm-φ127mm×3.5mm-12mm  
φ180PQF 连轧管机组 φ73mm-φ180mm×4mm-22mm  
φ219 三辊轧管机组 φ68mm-φ260mm×8mm-55mm  
φ340 连轧管机组 φ139mm-φ368mm×5mm-42mm  
φ720 两辊轧管机组 φ273mm-φ720mm×8mm-120mm

## 热处理生产线 Heat Treatment Lines

φ89 1#油管热处理线 φ48.3mm-φ127.0mm  
φ89 2#油管热处理线 φ48.3mm-φ127.0mm  
φ89 油管中间热处理线 φ60.3mm-φ134.3mm  
φ340 1#套管热处理线 φ139.7mm-φ376mm  
φ340 2#套管热处理线 φ73mm-φ244.5mm  
φ180 1#热处理线 φ114mm-φ219mm  
φ180 2#热处理线 φ114.3mm-φ244.5mm  
φ720 热处理线 φ159mm-φ720mm

φ89 Tubing Heat Treatment Line 1 φ48.3mm-φ127.0mm  
φ89 Tubing Heat Treatment Line 2 φ48.3mm-φ127.0mm  
φ89 Tubing Intermediate Frequency Heat Treatment Line  
φ140 Casing Heat Treatment Line 1 φ139.7mm-φ376mm  
φ140 Casing Heat Treatment Line 2 φ73mm-φ244.5mm  
φ180 Heat Treatment Line 1 φ114mm-φ219mm  
φ180 Heat Treatment Line 2 φ114.3mm-φ244.5mm  
φ720 Heat Treatment Line φ159mm-φ720mm

## 管端加厚生产线 Tube End Upsetting Lines

油管加厚线 φ48.3mm-φ114.3mm  
钻杆加厚线 φ60.3mm-φ127.0mm

Tubing Upsetting Line φ48.3mm-φ114.3mm  
Drill tube Upsetting Line φ60.3mm-φ127.0mm

## 涂层管生产线 Coating Lines

钢管外表面喷砂(抛丸)除锈处理线 φ21.0mm-φ800.0mm  
钢管内表面喷砂(抛丸)除锈处理线 φ114.0mm-φ800.0mm  
O型槽挤出工艺加工处理线 φ21.0mm-φ406.0mm  
螺旋挤出工艺加工处理线 φ159.0mm-φ800.0mm  
钢管内防腐涂料生产线 φ114.0mm-φ800.0mm

External Surface Abrasive Blasting Line φ21.0mm-φ800.0mm  
Internal Surface Abrasive Blasting Line φ114.0mm-φ800.0mm  
O die Extrusion Process Line φ21.0mm-φ406.0/114.0mm φ800.0mm  
Winding-up Extrusion Process Line φ159.0mm-φ800.0mm  
Internal Corrosion-resistant Painting Line φ114.0mm-φ800.0mm

# 务实 创新 合作 成长

Pragmatic  
Innovation  
Cooperation  
Growth

# 工艺流程

PROCESS FLOW CHART



# 产品即人品 质量赢未来

Quality sets up the foundation of long-term growth

## 质量管理

QUALITY MANAGEMENT

长期始终坚持“以质量求生存”的经营理念，“以客户为关注焦点”的经营理念，以开展体系认证和产品认证为推动力，执行“深化全面质量管理，推行过程方法，坚持持续改进，不断提高产品适用性，增强客户满意度”的质量方针，将质量绩效评价标准落实到人，质量管理步入规范化、标准化良性循环，产品实物质量稳定提高。

HVST always adheres to the operation philosophy of "quality for survival" and the operation purpose of "focusing on customers", takes system and product certification as the driving force, and implements the quality policy of "intensify total quality management, implement process approach, persist in continual improvement, increase continuously product suitability, and enhance customer satisfaction". It steadily improves the quality of the product by implementing the quality performance evaluation indicators to each individual person and standardizing the quality management.

### 体系认证 System Certification

1998年通过 ISO9002:1994 质量管理体系认证  
2001年通过 ISO9001:2000 质量管理体系换版认证  
2008年通过 ISO9001:2008 质量管理体系换版认证  
2008年通过 ISO10012:2003 测量管理体系认证  
2008年通过中国合格评定国家认可委员会实验室认可

ISO9002:1994 quality management system certification in 1998  
ISO9001:2000 quality management system certification in 2001  
ISO9001:2008 quality management system certification in 2008  
ISO10012:2003 measurement management system in 2008  
CNAS laboratory certification in 2008

### 体系认证 Product Certification

1999年油套管和管线管获得 API 5CT, API 5L 合格使用许可  
2000年压力容器用管和建材用管分别通过德国 TUV 认证和 U 标志认证  
2003年钻杆管获得 API 5DP 合格使用许可  
2003年压力容器用管通过欧盟 PED 认证  
2006年压力容器元件获得特种设备制造许可证  
2010年结构管通过欧盟 CPD 认证  
通过中、美、德、法、挪威、美、韩、日本八国船级社认证  
2013年获得民用核安全设备制造许可证

API 5CT and API 5L monogram use rights for OCTG and line pipe respectively in 1999  
TUV and U certification for pressure vessel pipe and building material pipe respectively in 2000  
API 5DP monogram use right for drill pipe in 2003  
EU PED certification for pressure vessel tube in 2003  
Manufacturing License of Special Equipment for pressure piping parts in 2006  
EU CPD certification for structural pipe in 2010  
China, Britain, Germany, France, Norway, America, Korea and Japan Classification Societies certification Manufacturing license of civil nuclear safety equipment in 2013

美国石油学会 API 合格使用权  
API Monogram



API 5CT



API 5DP



API 5L



### 第三方评审 Customer Qualification

通过了壳牌、埃克森美孚、道达尔、雪佛龙、哈里伯顿、马士基、德特法、阿尔斯通、阿布扎比、中石油、中石化、中海油等 100 多家国内外知名公司的第三方评审。

It has passed the second-party qualifications of more than 100 well-known domestic and foreign companies, including Shell, ExxonMobil, Total, Chevron, Halliburton, Maersk, Petrofac, Alstom, ADNOC, CNPC, SINOPEC and CNOOC.



# 检验检测能力

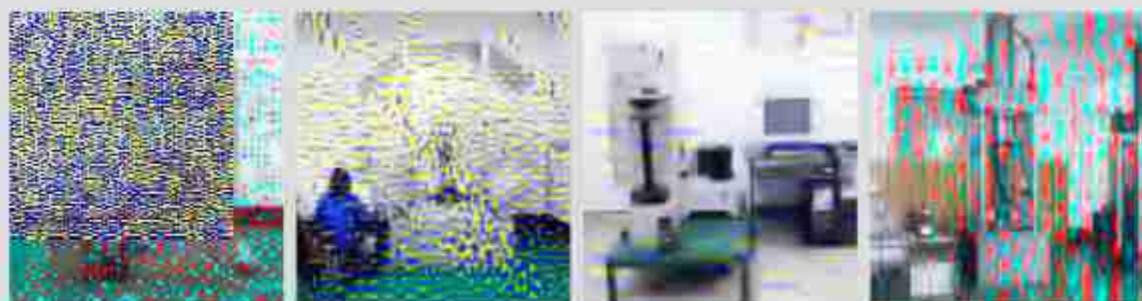
## INSPECTION CAPABILITY

检测中心经中国合格评定国家认可委员会认可的实验室,通过认可的检验/校准项目覆盖了27类产品的129个参数和115个标准,覆盖了金属材料检验、化学分析、无损检测、校准四个专业领域,拥有金属材料力学性能及物理性能实验室、化学分析实验室、金属材料抗腐蚀实验室、石油管全尺寸实物实验室、计量校准实验室、无损检测实验室等实验室;实验室配备各类检验/校准设备170多台套,固定资产超过1亿元,装备水平和检测能力在国内同行中居领先地位。

HYST has his own laboratory approved by China National Accreditation Service and his approved inspection and calibration items cover 27 kinds of products with 129 parameters and 115 specifications, which cover four professional fields of materials testing, chemical analysis, NDT and calibration. There is a laboratory of metal material mechanical properties and physical properties, a chemical analysis laboratory, a corrosion resistant metal materials laboratory, a Full-size Test Lab for Casing and Tubing, measure and calibration laboratories, NDT laboratory, which equip with more than 170 sets of hydraulic pressure, physical and chemical testing and other kinds of inspection/calibration equipment with 1000 million Yuan in fixed assets in total and the equipment level and test ability are in the leading position among domestic industry.



石油管全尺寸实物实验室  
Full-size Test Lab for Casing and Tubing



扭转试验机  
Torsion Tester

冲击试验机  
Impact Tester

布氏硬度试验机  
Hardness tester

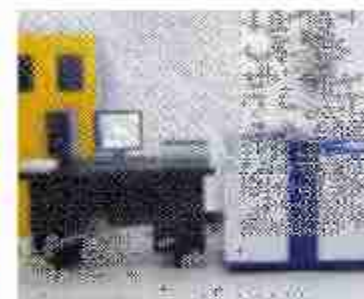
物管工艺试验机  
Tube & Pipe technology Tester



金相显微镜  
Metallurgical microscope



扫描电镜  
Vertical Scanning Electron Microscope



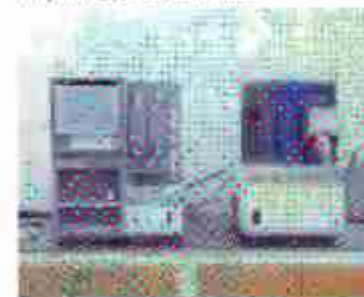
X射线荧光光谱仪  
X-ray fluorescence spectrometer



等离子光谱仪  
Plasma spectrometer



氢分析仪  
Hydrogen Analyzer



氧氮分析仪  
Oxygen & Nitrogen Analyzer



600T 压扁试验机  
600T Flattening Tester



应力环  
Stress ring



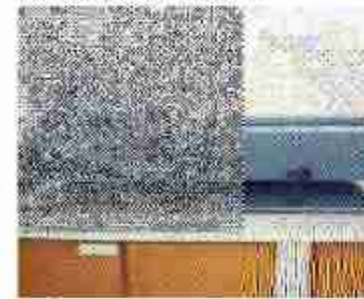
热电偶校验装置  
Thermocouple calibration device



直读光谱仪  
Direct reading spectrometer



电能表校验装置  
Energy meter calibration device



单参数校准仪  
Individual parameters calibration device

# 钢管深加工产业聚集区

TUBE & PIPE PROCESSING INDUSTRY ZONE



钢管深加工产业聚集区(以下简称聚集区)是湖南省实施新型工业化战略重点建设项目,由衡阳投资兴建,占地60万平方米,位于衡阳市西南郊,距市中心4公里,有铁路专用线与衡阳、衡阳西站相连,西外环线沿聚集区而过,而京珠、衡南高速公路入口仅5公里,通过码头近在咫尺,水陆交通十分便利。2010年,聚集区被国家工信部评为“国家级新型工业化产业示范基地”。衡阳按照现代化、科学化、生态化产业园区标准统一规划、统一设计,聚集区2007年3月18日开工,目前完成投资3.9亿元,建成长180米、宽21米的六跨联体轻钢结构标准厂房20万平方米,水、电、气等配套设施齐全。入驻企业可享受衡阳市给予的相关优惠政策,同时享受衡阳给予的资源保障、价格优惠政策,并在市场、技术、营销等方面给予大力支持。入驻企业25家,以钢管为原材料进行深加工,主要从事石油管深加工、石油钻具加工、高压气瓶管加工、气态制造、热扩管加工、裸管加工、钢构件加工、机械制造、物流运输等。按照聚集区发展规划,还将引进高压机铸管附件加工、液压支架管加工、核电用管加工、汽车车轴用管加工和制管工具加工等多个项目落户聚集区。

Tube & pipe processing industry zone (hereinafter referred to as "IZ") is a key strategic project of a new style of industrialization in Hunan Province which is invested by HYST. It covers an area of 600,000 square meters and is located in the West Suburb of Hengyang City and only 4km from the City Center. Its railway siding is connected directly to HYST and Hengyang West station. The West outer-ring road passing along IZ is only 5 km from the entrance of Beijing-Zhuhai and Hengyang-Guangxi Highway (Heng-zao Highway) and the Xiang river wharf is so close that the transportation is quite convenient. It was regarded as the "National industry of new industrialization demonstration base" issued by the Ministry of Industry and Information Technology in 2010.

HYST planned and designed the IZ based on a unified concept of modernization, scientific and Ecology that started on March 18, 2007. At present the final investment is 390 million Yuan, which was spent on standard factory housing at 180 meters long, 21 meters wide and with a six span structure of light steel which in total is about 200,000 square meters inclusive of water, electricity, gas and other supplementary facilities.

Entered enterprises can enjoy relevant preferential policies offered by the City Government as well as the resources, favorable price policy, marketing, technology and sales supported by HYST. There are 25 registered enterprises who focus on tube & pipe processing, OCTG tube & pipe, drill tube & pipe, high pressure cylinder tube & pipe, gas bottle tube & pipe, hot expanding tube & pipe, coating tube & pipe components machinery, and processing, machinery manufacturing and logistics transport etc.

According to IZ development planning it will also introduce tube & pipe processing for high pressure boiler, hydraulic bracket, nuclear power generator, auto axle, machinery and tool manufacturing into IZ.



# 石油天然气用无缝钢管产品介绍

CATALOGUE OF OCTG / LINE PIPE

## API 系列套管 API Casing

规格 Size		钢级及牌号 Steel grade & connection type									执行标准 Specification
外径 mm (in)	壁厚 mm WT (in)	H40	J55, K55	M65	L80-Y, L80-13Cr, K95	N80-1, N80Q	C90, T95	C110	P110	Q125	
114.30 (4-1/2")	5.21	S	S	S							
	5.69		S/B	S/B							
	6.35		S/L/B	L/B	L/B	L/B	L/B		L/B		
	7.37			L/B	L/B	L/B	L/B		L/B		
	8.56								L/B	L/B	
127.00 (5")	5.59	S	S	S							
	6.43		S/L/B	S/L/B							
	7.57		S/L/B	L/B	S/L/B	S/L/B	L/B		S/L/B	L/B	
	9.19			L/B	S/L/B	S/L/B	L/B		S/L/B	L/B	
	11.10			L/B	L/B	L/B	L/B		L/B	L/B	
	12.14				L/B	L/B	L/B		L/B	L/B	
139.70 (5-1/2")	6.20	S	S	S							
	6.98		S/B	S/L/B							
	7.72		S/L/B	L/B	S/L/B	S/L/B	L/B		S/L/B		
	9.17			L/B	S/L/B	S/L/B	L/B		S/L/B		
	10.54			L/B	S/L/B	S/L/B	L/B		S/L/B	S/L/B	
168.28 (6-5/8")	7.37	S	S/L/B	S/L/B							
	8.94		S/L/B	L/B	S/L/B	S/L/B	L/B		S/L/B		
	10.59			L/B	S/L/B	S/L/B	L/B		S/L/B		
	12.06				S/L/B	S/L/B	L/B		S/L/B	L/B	
177.80 (7")	6.91	S	S	S							
	8.06		S/L/B	L/B	S/L/B	S/L/B	L/B				
	9.19			L/B	S/L/B	S/L/B	L/B		S/L/B		
	10.36			L/B	S/L/B	S/L/B	L/B		S/L/B		
	11.51			L/B	S/L/B	S/L/B	L/B		S/L/B		
	12.65				S/L/B	S/L/B	L/B		S/L/B	S/L/B	
195.68 (7-5/8")	8.33		S/L/B	S/L/B	L/B	L/B	L/B				
	9.52			L/B	L/B	L/B	L/B		L/B		
	10.92			L/B	L/B	L/B	L/B		L/B		
	12.70				L/B	L/B	L/B		L/B	L/B	
	14.27				L/B	L/B	L/B		L/B	L/B	
	15.11				L/B	L/B	L/B		L/B	L/B	
15.88				L/B	L/B	L/B		L/B	L/B		

API SPEC 5CT

## API 系列油管 API Tubing

规格 Size		等级及钢号 Steel grade & connection type									执行标准 Specification
外径 mm(in) ODmm(inch)	壁厚/mm WT/mm	H40	J55, K55	M65	L80-1, L80-15Cr, R95	N80-1, N80Q	C90, T95	C110	P110	Q125	
219.06 (8-5/8")	6.71		S	S							API SPEC 5CT
	7.72	S	S/L/B	S							
	8.94	S	S/L/B	S/L/B							
	10.16			S/L/B	L/B	L/B	L/B		L/B		
	11.43			L/B	L/B	L/B	L/B		L/B		
	12.70				L/B	L/B	L/B		L/B		
	14.15				L/B	L/B	L/B		L/B	L/B	
244.48 (9-5/8")	8.94	S	S/L/B	S/L/B							
	10.03		S/L/B	S/L/B	L/B	L/B	L/B		L/B		
	11.05			L/B	L/B	L/B	L/B		L/B		
	11.99			L/B	L/B	L/B	L/B		L/B		
	13.84				L/B	L/B	L/B		L/B		
273.05 (10-3/4")	15.11				L/B	L/B	L/B		L/B		
	8.89	S/B		S/B							
	10.16	S/B	S/B	S/B							
	11.43	S/B	S/B	S/B	S/B	S/B	S/B		S/B		
	12.57				S/B	S/B	S/B		S/B		
	15.84						S/B		S/B	S/B	
298.45 (11-3/4")	15.11						S/B		S/B	S/B	
	9.65										
	10.92										
	12.19				S/B				S/B		
339.72 (13-3/8")	13.06				S/B				S/B	S/B	
	8.58	S									
	9.65		S/B	S/B							
	10.92		S/B	S/B							
406.40 (16")	12.19				S/B				S/B		
	13.06				S/B				S/B	S/B	
	8.58	S									
	9.65		S/B	S/B							
508.00 (20")	10.92		S/B	S/B							
	12.19			S/B	S/B	S/B	S/B		S/B		
	13.06				S/B	S/B	S/B		S/B	S/B	
	16.66										
16.13		S/L/B									

Note: S-短圆螺纹; L-长圆螺纹; B-偏圆螺纹 Note: S-SC, L-LC, B-BC

规格 Size		等级及钢号 Steel grade & connection type							执行标准 Specification	
外径 mm(in) ODmm(inch)	壁厚/mm WT/mm	H40	J55	L80-1, L80-15Cr, R95	N80-1, N80Q	C90	T95	P110		
42.16 (1.660")	3.18									API SPEC 5CT
	3.56	N/U	N/U	N/U	N/U	N/U	N/U			
	4.85	U	U	U	U	U	U	U	U	
48.26 (1.900")	3.18	N/U	N/U	N/U	N/U	N/U	N/U			
	3.56	N/U	N/U	N/U	N/U	N/U	N/U			
	5.08	U	U	U	U	U	U	U	U	
	6.35									
60.32 (2-3/8")	7.62									
	4.24									
	4.83									
	6.45									
	7.49									
73.02 (2-7/8")	8.53									
	5.51	N/U	N/U	N/U	N/U	N/U	N/U	N/U	N/U	
	7.01			N/U	N/U	N/U	N/U	N/U	N/U	
	7.82			N/U	N/U	N/U	N/U	N/U	N/U	
	8.64			U					U	
	9.96									
88.90 (3-1/2")	11.18	U	N	N	N	N	N			
	5.49									
	6.45	N/U	N/U	N/U	N/U	N/U	N/U	N/U	N/U	
	7.34	N	N	N	N	N	N			
	9.52			N/U	N/U	N/U	N/U	N/U	N/U	
	10.92									
	12.09									
101.60 (4")	13.46									
	5.74	N	N	N	N	N	N	N	N	
	6.65	U	U	U	U	U	U	U	U	
	8.38									
	10.54									
	12.70									
114.30 (4-1/2")	15.49									
	6.88	N/U	N/U	N/U	N/U	N/U	N/U	N/U	N/U	
	8.56									
	9.65									
	10.92									
	12.70									
	14.22									
16.00										

Note: N-不加厚和螺纹规格 (NU); U-外加厚和螺纹规格 (EU); Note: N-NU; U-EU.

注: 我公司可生产以上表格中未列出的规格油管, 还可生产平端管。  
Ps: besides above mentioned products, plain end products either.

钻杆管 Drill Tube & Pipe

序号 No.	规格 Size		钢级 Steel Grade	加厚形式 Type	执行标准 Specification
	外径 mm(inch) OD/mm(inch)	壁厚/mm WT/mm			
1	60.32 (2-3/8")	7.11	E, X, G, S	EU	API SPEC 5DP
2	73.02 (2-7/8")	9.19	E, X, G, S	EU	
3	88.90 (3-1/2")	6.45	E	EU	
		9.35	E, X, G, S	EU	
		11.40	E	EU	
			X, G, S	EU	
4	101.60 (4")	8.58	E, X, G, S	EU, IU	
5	114.30 (4-1/2")	6.88	E	EU, IU	
		8.56	E, X, G, S	EU, IEU	
		10.92	E, X, G, S	IU	
6	127.00 (5")	9.19	E, X, G, S	IEU	
		12.70	E, X, G, S	IEU	
7	139.70 (5-1/2")	9.17	E, X, G, S	IEU	
		10.54	E, X, G, S	IEU	
8	168.28 (6-5/8")	8.58	E, X, G, S	IEU	
		9.19	E, X, G, S	IEU	

非 API 系列油井管 Non-API OCTG

品种 Variety	规格 Size		钢级 Steel grade	执行标准 Specification	典型用途 Typical application
	外径OD(mm)	壁厚WT(mm)			
抗挤塌套管系列 Collapse-resistant casing	114.30~508.00	5.21~26.24	HS80T/HS80TT	HK35-2019 或技术协议 HK35-2019 or technical agreement	用于重盐层、深井等复杂地质层条件 Rock-salt layer, deep and complex geological conditions
			HS90T/HS90TT		
			HS95T/HS95TT		
			HS110T/HS110TT		
			HS125T/HS125TT		
			HS140T/HS140TT		
			HS150T/HS150TT		
抗H <sub>2</sub> S腐蚀套管系列 H <sub>2</sub> S-resistant casing and tubing	60.32~508.00	4.85~26.24	HS80S/HS80SS	HK34-2019 或技术协议 HK34-2019 or technical agreement	用于含H <sub>2</sub> S环境 Environment containing H <sub>2</sub> S
			HS90S/HS90SS		
			HS95S/HS95SS		
			HS100S/HS100SS		
			HS110S/HS110SS		
			HS125S/HS125SS		
抗CO <sub>2</sub> +H <sub>2</sub> S腐蚀套管系列 CO <sub>2</sub> +H <sub>2</sub> S-resistant casing and tubing	60.32~508.00	4.85~26.24	HS80S/SS-3Cr	HK33-2019 或技术协议 HK33-2019 or technical agreement	用于含CO <sub>2</sub> +H <sub>2</sub> S环境 Environment containing CO <sub>2</sub> and H <sub>2</sub> S
			HS90S/SS-3Cr		
			HS95S/SS-3Cr		
			HS110S-3Cr		
低温套管 Casing and tubing for low temperature environment	60.32~508.00	4.85~26.24	HS80L	技术标准 Technical agreement	用于低温环境 Low temperature environment
			HS90L		
			HS95L		
			HS110L		
热采井套管系列 Thermal Recovery Well Casing	114.30~508.00	5.21~26.24	HS80H	HK29-2019 或技术协议 HK29-2019 or technical agreement	用于稠油热采环境 Heavy oil and heat-resistant environment
			HS90H		
			HS95H		
			HS110H		
深井用高强度高韧性套管系列 High strength and high tenacity casing for deep well	114.30~508.00	5.21~26.24	HS140	HK36-2019 或技术协议 HK36-2019 or technical agreement	用于盐层、深井、超深井等复杂地质层条件 Rock-salt layer, deep well, ultra-deep well and other complex geological conditions
			HS150		
			HS155		
穿孔枪管系列 Perforating gun casing	60.30~177.80	5.00~15.00	110ksi	Q/OHAD005-2015 或技术协议 Q/OHAD005-2015 or technical agreement	石油射孔枪管 Perforating gun
			115ksi		
			125ksi		
			130ksi		
			135ksi		
			140ksi		
抗CO <sub>2</sub> 腐蚀用套管 CO <sub>2</sub> Corrosion-resistant casing and tubing	60.32~508.00	4.85~26.24	L80-3Cr	HK33-2019 或技术协议 HK33-2019 or technical agreement	用于含CO <sub>2</sub> 环境 Environment containing CO <sub>2</sub>
			90H-3Cr		
			HS110-3Cr		
			P110-3Cr		
			HS80-1Cr		
			HS80-1SCr		
			HS85-1SCr		
			HS90-1SCr		
			HS95-1SCr		
			HS110-1SCr		
抗硫化氢抗挤塌套管系列 H <sub>2</sub> S and collapse-resistant casing	114.30~508.00	5.21~26.24	HS80TS	技术标准 Technical agreement	用于硫化氢环境、外压或内压大应力环境 Environment with H <sub>2</sub> S corrosion and large collapse pressure
			HS90TS		
			HS95TS		
			HS100TS		
			HS110TS		
			P110TS		

## 管线管

INTRODUCTION

### 管线管产品介绍 Line Pipe Specification and Application

外径 OD: 60.30-762.00mm

壁厚 WT: 3.80mm-120.00mm

品种: 输油; 输气管线及海底管线 Oil & Gas Transportation and offshore pipe line

### 管线管品种表 Product Mix

API系列管线管 API 5L Series					低温作业用管 Low temperature series
PSL1	PSL2				
	一般服役条件 General service	海上服役条件 Offshore service	酸性服役条件 Sour service	纵向刚度或变刚度要求应用条件 Sour & offshore service	ASTM A333 ASME SA333
A/L210					Gr 5 Gr 6
B/L245	BNL245N	BNO/L245NO	BHS/L245NS	BNP/L245NP	
	BQL245Q	BQO/L245QO	BQS/L245QS	BQP/L245QP	
X42/L290	X42N/L290N	X42NO/L290NO	X42NS/L290NS	X42NP/L290NP	
	X42Q/L290Q	X42QO/L290QO	X42QS/L290QS	X42QP/L290QP	
X46/L320	X46N/L320N	X46NO/L320NO	X46NS/L320NS	X46NP/L320NP	
	X46Q/L320Q	X46QO/L320QO	X46QS/L320QS	X46QP/L320QP	
X52/L360	X52N/L360N	X52NO/L360NO	X52NS/L360NS	X52NP/L360NP	
	X52Q/L360Q	X52QO/L360QO	X52QS/L360QS	X52QP/L360QP	
X56/L390	X56N/L390N	X56QO/L390QO	X56QS/L390QS	X56QP/L390QP	
	X56Q/L390Q				
X60/L415	X60N/L415N	X60QO/L415QO	X60QS/L415QS	X60QP/L415QP	
	X60Q/L415Q				
X65/L450	X65Q/L450Q	X65QO/L450QO	X65QS/L450QS	X65QP/L450QP	
X70/L485	X70Q/L485Q	X70QO/L485QO	X70QS/L485QS	X70QP/L485QP	
	X80Q/L555Q	X80QO/L555QO		X80QP/L555QP	
	X90Q/L625Q	X90QO/L625QO			
	X100Q/L690Q	X100QO/L690QO			

### 管线管可执行的其它标准 Other Specifications of Line Pipe

管线管可执行的其它标准 Other Specifications of Line Pipe

国内标准 Domestic Specification: GB/T 9711

国际标准 International Specification: ISO 3183

加拿大标准 Canadian Specification: CSA Z245.1

科威特标准 Kuwait Specification: KOC-M5-001-PT.1 REV.2 (2009), KOC-M5-018

挪威标准 Norway Specification: DNVGL-ST-F101-2017

意大利标准 Total Specification: TOTAL GS EP PLR 201

其它标准 And/Or Other Specifications

## 特殊螺纹接头

PREMIUM CONNECTION

### HS 系列特殊螺纹接头 HS Premium Connection

扣型 Connection	规格范围 (mm) Size	结构特点 Structure Features	典型用途 Typical application
HSM-1	60.32 - 339.72	改进型梯形螺纹; 锥形金属/金属密封; 反向扭矩肩部 Improved buttress thread; Cone metal/metal seal; Reverse torque shoulder	适用于深井, 高压气井等复杂工况 High pressure gas well and other complex working conditions
HSM-2	60.32 - 339.72	钩形螺纹; 优化的清孔表面和扭矩肩部; 锥形金属/金属密封 Hook thread; Improved clearance on thread guiding surface and torque shoulder; Cone metal/metal seal	适用于深井, 大口径井, 高温高压气井等复杂工况 Ultra-deep well, large extended-reach well, high temperature and high pressure gas well and other complex working conditions
HSM-2-HC	127.00 - 244.48	钩形螺纹; 优化的清孔表面和扭矩肩部; 锥形金属/金属密封; 增加肩部厚度 Hook thread; Improved clearance on thread guiding surface and torque shoulder; Reverse shoulder; Cone metal/metal seal; Increased shoulder thickness	适用于深井, 高温高压气井, 斜井水平井及需要气态管柱旋转等复杂工况 Ultra-deep well, high temperature and high pressure gas well, inclined well, working conditions requiring working strong rotation and other complex working conditions
HSG3	127.00-508.00	优化的钩形螺纹; 增大清孔角; 组合密封结构设计 Improved hook thread and increased positive angle of guiding surface; Design of combined seal structures	适用于深井, 高温高压气井, 斜井, 水平井, 大口径井等复杂工况 High temperature and pressure well, inclined well, horizontal well, large extended-reach well and other complex working conditions
HST5	60.32 - 114.30	双圆柱螺纹; 双肩部设计; 金属/金属密封结构; 内外加厚密封 Double cylinder thread; Double-shoulder; metal/metal sealing structure; flush joint with upsetting inside and outside	适用于深井, 深井, 水平井, 斜井气井等苛刻服役环境 Deep Well, high pressure well, horizontal well, well containing sour gas and other harsh service environment
HSPJ	73.02 - 298.45	钩形螺纹; 接头外径与管体外径相同; 内、外加厚密封 Hook thread; OD of connection the same as that of pipe body; Inside and outside double cone seal structure; Flush joint	适用于特殊井况和特殊地质条件等复杂井况 Well conditions with special requirements for annular clearance and connector strength
HSQ3-FJ	177.80 - 339.72	优化的钩形螺纹; 增大清孔角; 外锥密封; 内锥密封; 加厚密封 Improved hook thread for increased positive angle of guiding surface; Outside cone seal; Inside combination seal; Thick-walled flush joint	适用于盐岩层, 白云岩层, 斜井, 水平井, 大口径井等苛刻服役环境 Salt rock layer, gypsum rock layer, inclined well, horizontal well, large extended-reach well, well conditions with requirement for annular clearance and other complex well conditions
HSQH	339.72 - 508.00	大角度清孔面; 大锥角; 大锥角; 锥密封 Large angle guiding surface; Large thread diameter; Large cone; Thread seal	适用于快速上扣的套管, 油管, 钻杆等 Guiding pipe, surface casing, intermediate casing and other pipes requiring quick make-up
HSN	114.30 - 339.72	采用API 6A 标准螺纹扣形, 可与API 6C 标准扣形; 锥形密封; 内加厚台肩; 内平肩设计 API buttress thread connection interchangeable with API 6C; Thread seal; inner right angle shoulder; inner flush	适用于旋转套管井以及需要与API 6C 标准扣形井况 Rotary well pipe for cementing and well conditions requiring the connection to be interchanged with API 6C connection

## 被覆管 Coating Tube & Pipe

防腐管生产线年防腐加工能力 120 万平方米, 是国内装备水平最高、首家大规模兼容的防腐钢管生产线。主要产品有:

2PE/3PE 防腐钢管、2PP/3PP 防腐钢管、环氧粉末 (FBE) / 双层 FBE 防腐钢管、内防腐涂料防腐钢管, 规格从  $\phi 21.0\text{mm}$ ~ $800.0\text{mm}$ 。

产品广泛应用于石油化工、天然气、机场油气输送、军工成品油输送行业, 并成功出口至阿尔及利亚、塔吉克斯坦、科威特等国家油气输送管道建设工程。

It has an annual anti-corrosive processing capacity of 120 million square meters that the coating line has equipped with high level facilities and compatible small and large sizes in China. Main products: 2PE/3PE, 2PP/3PP, FBE/double FBE, internal coating with size range from  $\phi 21.0\text{mm}$ ~ $\phi 800.0\text{mm}$ .

Such products are widely used in petrochemical engineering, nature gas, aviation and military oil transportation and exported to Sudan, Syria, Algeria, Tadzhikistan, Kuwait etc. for oil transmission projects.



执行标准 Specification	防腐类型 Type of anticorrosion	防腐管标准口径 OD	防腐层厚度/mm Mm, Thickness of coating layer						
			环氧涂层 EP		防腐层厚度 防腐层总厚度 防腐层总厚度 防腐层总厚度	防腐层总厚度 防腐层总厚度			
			普通型 General	加强型 Strong		普通型 General	加强型 Strong		
SY/T0413-2002	FBE	DN < 800	300 $\geq$ $\mu\text{m}$	400 $\geq$ $\mu\text{m}$	—	—	—	—	
Q/CNPC38-2002	双层 FBE Double FBE	DN < 800	300 $\geq$ $\mu\text{m}$	400 $\geq$ $\mu\text{m}$	—	—	—	—	
		涂层 Bottom Layer	300 $\geq$ $\mu\text{m}$	400 $\geq$ $\mu\text{m}$	—	—	—	—	
		面层 Surface Layer	300 $\geq$ $\mu\text{m}$	400 $\geq$ $\mu\text{m}$	—	—	—	—	
GB/T23257-2009	3PE	DN < 100	120 $\geq$ $\mu\text{m}$		170 $\geq$ $\mu\text{m}$	—	—	—	
		100 < DN < 250	—			—	—	—	—
		250 < DN < 500	—			—	—	—	—
		500 < DN < 800	—			—	—	—	—
		DN > 800	—			—	—	—	—
		DN < 100	—			—	—	—	—
DIN30670	2PE/3PE	DN < 100	—		—	—	—	—	
		100 < DN < 250	—		—	—	—	—	
		250 < DN < 500	—		—	—	—	—	
		500 < DN < 800	—		—	—	—	—	
		DN > 800	—		—	—	—	—	
DIN30678	2PP/3PP	直径 OD < 100	—		—	—	—	—	
		105 < 直径 OD < 250	—		—	—	—	—	
		305 < 直径 OD < 500	—		—	—	—	—	
		直径 OD > 500	—		—	—	—	—	

可执行的其它标准: 中国石油天然气集团公司企业标准 Q/CNPC38-2002;

国内行业标准: SY/T0413-2002; 加拿大标准: CSA Z245[1]-20(21)-2014; 德国标准 DIN30670、DIN30678 等。

Other specification: CNPC standard Q/CNPC38-2002, China industry specification SY/T0413-2002,

Canada specification CSA Z245[1]-20(21)-2014, German DIN30670.

在线检测设备: 电子测厚仪、测温仪、拉力计、针孔测试仪 (附图片);

试验设备: 试片制作机、冲击试验机、拉伸试验机、硬度计、烘箱、干燥器、低温箱等, 可分析和检测被覆钢管的防腐厚度、

剥离强度、耐冲击性和涂层层的抗拉强度、屈服强度、延伸率等防腐性能 (附图片)。

Online inspection equipment: Coating thickness meter, thermometer, tensile meter, pin hole tester (with pictures),

Test equipment: test piece making machine, impact checking machine, tensile testing machine, hardness meter,

thermostat, drying cabin, low temperature cabin etc. the anti corrosion performances such as coating thickness,

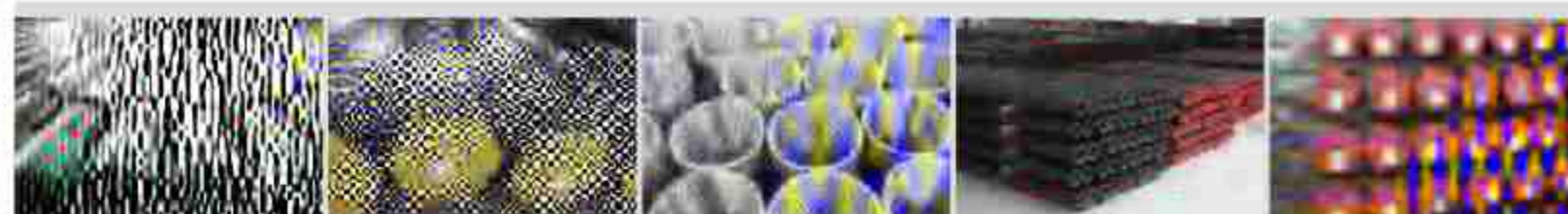
peel strength, shock resistance and tensile strength, yield strength, elongation etc. with pictures.

## 营销与服务

MARKETING AND SERVICE

### 主要用户 Main Customers

- |                       |   |
|-----------------------|---|
| 中国石化天然气集团公司           | CNPC  |
| 中国石化化工集团公司            | SINOPEC                                     |
| 中国海洋石油总公司             | CNOOC                                       |
| 陕西延长石油(集团)有限责任公司      | Shanxi Yanchang Petroleum (Group) Corp. Ltd |
| 壳牌石油公司                | Shell                                       |
| 法国道达尔石油公司             | Total                                       |
| 雪佛龙石油公司               | Chevron Corporation                         |
| 委内瑞拉 PDVSA 石油公司       | Petroles De Venezuela S.A.                  |
| 科威特 KOC 油公司           | KOC   |
| 阿尔及利亚 SONATRACH 油公司   | SONATRACH                                   |
| 泰国 PTT 公司             | PTT   |
| 阿曼 PDO 石油公司           | PDO   |
| 意大利 SAIPEM S.P.A 工程公司 | SAIPEM S.P.A                                |
| 日本 JGC 工程公司           | JGC   |
| 韩国 SKE&C 工程公司         | SKE&C                                       |
| 韩国 Samsung 工程公司       | Samsung                                     |
| 英国 Petrofac 工程公司      | Petrofac                                    |
| 丹麦马士基石油公司             | Maersk oil company Denmark                  |



## 产品应用

PRODUCTS APPLICATION

### 国外产品应用 Products Application Aboard



139.70×9.19mm L80-1 HSM-1 特殊扣套管在乌兹别克斯坦国家石油公司卡尔西油田开发项目下井使用。

114.30×6.88mm J55 EU 油管在壳牌阿曼苏丹项目下井使用。

酸性管线管在科威特北部 GC-24, EFP-120 管线及相关工程建设中使用。

普通管线管及酸性管线管在科威特 KOC, KNPC 管线工程中使用。

普通管线管及酸性管线管在阿联酋 BOROUGE 3U & O PROJECT NO.UO/10/B3/012 工程中使用。

普通管线管及酸性管线管在韩国 Hyundai Oil Bank BTX 工程中使用。

管线管在日本日铁株式会社 (JGC) 阿尔及利亚 BIR SEBA Field Development Phase I 项目中应用。

套管 368.00×22.5mm K55, 通达尔在印度尼西亚项目 (项目编号 PO#0000537)。

套管 339.72×10.92mm K55, 通达尔在印度尼西亚项目 (项目编号 PO#4600003475)。

套管外径为 114.30mm, 177.80mm, 244.48mm P110, 意大利石油公司在阿尔及利亚项目 (项目编号 PO#F13E185)。

油管与套管外径为 73.02mm, 88.90mm, 114.30mm, 139.70mm, 177.80mm, 244.48mm J55/K55, 雪佛龙在印度尼西亚项目 (项目编号 PO# DIPO130255)。

油管与套管外径为 73.02mm, 88.9mm, 139.70mm, 177.80mm, 473.08mm J55/K55, 雪佛龙在印度尼西亚项目 (项目编号 PO#DIPO140005)。



Casing 139.70×9.19mm L80-1 HSM-1 premium connection in Karshi oil field of Republic of Uzbekistan. Tubing 114.30×6.88mm J55 Oman by Shell.

The sour-service line pipe in Project GC-24, EFP-120 of North Kuwait.

The sour-service and general condition line pipe in Project KOC and KNPC of Kuwait.

Line pipe for sour-service and general condition in Project BOROUGE 3U & No. UO/10/B3/012 of U.A.E.

Line pipe in Project Bir Seba Field Development Phase of Algeria by JGC Japan.

Casing 368.00×22.50mm K55 in PO#0000537 of Indonesia by Total.

Casing 339.72×10.92mm K55 in PO#4600003475 of Indonesia by Total.

Tubing & Casing OD 73.02mm, 88.90mm, 114.30mm, 139.70mm, 177.80mm, 244.48mm J55/K55 in PO# DIPO130255 of Indonesia by Chevron.

Tubing & Casing OD 73.02mm, 88.90mm, 139.70mm, 177.80mm, 473.08mm J55/K55 in PO# DIPO140005 of Indonesia by Chevron.

### 国内产品应用 Products Application In China

用户 Customer	井位 Well location	规格 Size	钢级 Steel grade	扣型 Connection type	下井深度 Well depth	服役环境 Service condition
中石化西北局 Sinopec Northwest Branch	YJ2-4#	244.48×11.99	P110S	BC	5118M	抗硫 Anti-sulfur
中石化西北局 Sinopec Northwest Branch	Th12375#	195.70×12.70	P110S	BC	6115M	抗硫 Anti-sulfur
中石油塔里木油田 Tarim oil field CNPC	TZ721-6H#	88.90×6.45	H5110SS	HSM-1	6052M	抗硫 Anti-sulfur
中石油塔里木油田 Tarim oil field CNPC	TZ62-1H16#	88.90×6.45	H5110SS	NU	5643M	抗硫 Anti-sulfur
中石油塔里木油田 Tarim oil field CNPC	HA601-15#	200.03×10.92	H5110S	BC	6473M	酸性 Sour-service
中石油川庆钻探 Chuangqing explore CNPC	门西Menxi 005-H13# 段	244.48×11.05	H5955	BC	4989M	抗硫 Anti-sulfur
中石油川庆钻探 Chuangqing explore CNPC	土城寨新田组特选天然气项目 South margin gas project of Turkestan	610.00×9.50	L3600S			抗 H <sub>2</sub> S、CO <sub>2</sub> Anti-H <sub>2</sub> S CO <sub>2</sub>
中石油塔里木油田 Tarim oil field CNPC	HA15-1	200.03×10.92	H5110SS	HSM-2	6720M	酸性 Sour-service
中石油长庆油田 Chuangqing oil field CNPC	G46-012	177.80×9.19	H5955	HSM-2	4192M	防腐 Sour-resistance
中石油胜利油田 Shengli oil field CNPC	龙/Yao 166-4	139.70×10.54	H5110H	HSN	2120M	原油热采 Heavy oil thermal recovery
中石油塔里木油田 Tarim oil field CNPC	HA15-1F	177.80×10.36	H5110SS	BC	6850M	酸性 Sour-service
中石油辽河油田 Liaohu oil field CNPC	红/Liao 155-2	177.80×9.19	H5110H	HSN	1500M	热采抗硫 thermal recovery and anti-torsion
中石油新疆油田 Xinjiang oil field CNPC	惠/Chang 1B	177.80×8.05	H5YG80H	HSM-1	450M	280-300°C 蒸汽温度 200-300°C Steam temperature
中石油川庆钻探 Chuangqing explore CNPC	西山/Longshan 110	127.00×9.19	H5955	LC	3850M	抗硫 Anti-sulfur
中石油吐哈油田 Tuhai oil field CNPC	西西/Werui 3-2322	139.70×9.17	H5110T	BC	2484M	抗挤毁 Collapse-resistance
中石油塔里木油田 Tarim oil field CNPC	塔中 1 号气田西段项目 Mid-Tarim Gas No.1 Western project	323.90×10.00	L3600CS			酸性 Sour-service
中石油西南油气田 Southwest oil field CNPC	黄202H2-4 Huang 202H2-4	139.70×12.70	140V	HSM-2-HC	5997M	抗挤毁 Collapse-resistance
中石化中原油田 Zhongyuan oil field Sinopec	卫79-南13# Wei79-Side13#	101.60×7.80	P110	HSXC	3248M	
中石化中原油田 Zhongyuan oil field Sinopec		101.60×7.80	N80Q	HSXC		
中海油天津公司 Tianjin Company CNOOC	渤海、南海联合供气项目 United West & south Bohai gas project	323.90×15.90	X7000			海上恶劣条件 Offshore

# 压力容器用无缝钢管产品介绍

CATALOGUE OF PRESSURE VESSEL TUBE & PIPE

## 锅炉用无缝钢管

Boiler Products

品种 Variety	规格 Size		钢级/钢号 Steel Grade	执行标准 Specification	典型用途 Typical application	
	外径 (mm) Od (mm)	壁厚 (mm) Wt (mm)				
低中压锅炉 Low-Medium Pressure Boiler	57.00-762.00	3.50-120.00	10 20	GB 3087	低中压锅炉受热面、集箱、蒸汽管道 Low and medium pressure boiler heating tube & pipe, container & steam piping	
高压锅炉 High Pressure Boiler	57.00-762.00	4.00-120.00	20G	GB 5310	用于工作压力大于9.8MPa, 工作温度450-650°C的 受热面、集箱、蒸汽管道。 Heating tube & pipe, container & steam piping at working pressure >9.8MPa and temperature 450-650°C	
			20MnG			
			25MnG			
			15MoG			
			20MoG			
			12CrMoG			
			15CrMoG			
			12Cr2MoG			
			12Cr1MoVG			
			10Cr9Mo1VNbN			
			10Cr9MoW2VNb8N			
			15Ni1MnMoNbCu			
			SA106A/B/C			ASME SA106 ASME SA192 ASME SA209 ASME SA210 ASME SA213 ASME SA535
			SA192			
			T1/T1a			
			SA210A-1/C			
			T/P2			
			T/P5			
			T/P11	EN 10216		
			T/P12			
T/P22						
T23						
T24						
T/P91						
T/P92						
T/P34						
P195GH/P235GH/P265GH						
16Mo3	DIN 17175					
13CrMo4-5						
10CrMo9-10						
15NiCuMoNb5-6-4						
P455N						
St35.8, St45.8						
15Mo3						
13CrMo44						
10CrMo910						

\* 注: 15NiCuMoNb5-6-4 (简称Wb36) 用于高压热水管道。  
Note: 15NiCuMoNb5-6-4 (Abbreviation Wb36) used for high pressure water piping

## 核电站用无缝钢管

For Nuclear Power Station

品种 Variety	规格 Size		钢级/钢号 Steel Grade	执行标准 Specification	典型用途 Typical application
	外径 (mm) Od (mm)	壁厚 (mm) Wt (mm)			
核电站用 无缝钢管 Nuclear Power Station	57.00-762.00	4.00-120.00	HD245, HD245Cr	GB24512.1 GB24512.2	堆芯筒体与蒸汽发生器 及合金钢无氧钢管 Carbon and alloy products for Nuclear Station Island and Conventional Island
			HD265, HD265Cr		
			HD280, HD280Cr		
			HD12Cr2Mo		
			HD15Ni1MnMoNbCu	RCC-M 2000 年 版 (02) 补充 RCC-M 2000 edition(02) addendum	
			TUE250B		
			TU42C		
			TU48C	ASME SA106 ASME SA335	
			P260GH		
			SA106B/C		
			P11		
P22					
P36(WB36CNI)					

## 高压化肥设备用无缝钢管与石油裂化用无缝钢管

For Pressure Chemical Fertilizer Equipments and Petroleum Cracking

品种 Variety	规格 Size		钢级/钢号 Steel Grade	执行标准 Specification	典型用途 Typical application
	外径 (mm) Od (mm)	壁厚 (mm) Wt (mm)			
高压化肥 设备 High Pressure Chemical Fertilizer Equipments	57.00-762.00	4.00-120.00	10	GB 6479	高压化肥设备和管道 High pressure chemical fertilizer and pipeline
			20		
			Q345B, Q345C, Q345D, Q345E		
			10MoWVNb	ASME SA215 ASME SA535	
			12CrMo		
			15CrMo		
			12Cr5Mo		
			12Cr2Mo		
			T/P5		
			T/P9		
石油裂化 管 Petroleum Cracking	58.00-720.00	5.50-120.00	10	GB 9948	石油裂化厂裂化炉 Cracking furnace of petroleum refineries
			20		
			12CrMo		
			15CrMo		
			12Cr5Mo1, 12Cr5MoNT 12Cr9Mo1, 12Cr9MoNT		

### 气瓶用无缝钢管 For Gas Cylinder

品种 Variety	规格 Size		钢级/钢号 Steel Grade	执行标准 Specification	典型用途 Typical application
	外径 (mm) Dd (mm)	壁厚 (mm) Wt (mm)			
高压气瓶 Gas Cylinder	58.00-720.00	3.50-120.00	37Mn, 37Mn/1, 37Mn/2	GB 18248 GB 28884 及技术要求 or Technical Specification	氧气瓶, 氢气球, 天然气瓶, 蓄能器 Oxygen bottle, hydrogen bottle, natural gas bottle, accumulator
			30CrMo, 30CrMoE		
			35CrMo		
			34CrNi4		
			42CrMoE		
			4130X 4145, 4147		

### 船舶用无缝钢管 For Ship and Vessel

品种 Variety	规格 Size		钢级/钢号 Steel Grade	执行标准 Specification	典型用途 Typical application
	外径 (mm) Dd (mm)	壁厚 (mm) Wt (mm)			
船舶用管 Ship & Vessel	58.00-720.00	3.50-120.00	410 I, 410 II	C35 船管及 GB/T 5312	船舶用炉管, 加热器及管道 Boiler tube & pipe of vessel, over heater and pipeline
			R410	GL 船管	
			410HB	BV 船管	
			Gr5, Gr5	ABS 船管	
			Ts410	DNV 船管	
			410 I, 410 II	LR 船管	
			RST135, RST142	KR 船管	
			KSTPG38, KSTPG42, KST538	NK 船管	

### 低温作业用无缝钢管 For Cryogenic Device

品种 Variety	规格 Size		钢级/钢号 Steel Grade	执行标准 Specification	典型用途 Typical application
	外径 (mm) Dd (mm)	壁厚 (mm) Wt (mm)			
低温用管 Cryogenic Device	58.00-720.00	3.50-120.00	16MnDG	GB/T18984-2016	低温液体 输送管道用管 Cryogenic Fluid Tube & Pipe
			06Ni9DG		
			06Ni3MoDG		
			10MnDG		
			09DG	ASTMA333/ ASMESA333	
			Gr3		
			Gr6		
Gr8					

## 营销与服务

MARKETING AND SERVICE

### 主要客户 Main Customers

- 上海锅炉厂股份有限公司
- 哈尔滨锅炉厂有限责任公司
- 东方锅炉(集团)股份有限公司
- 武汉锅炉股份有限公司
- 北京巴布科克-威尔科克斯有限公司
- 无锡华光锅炉股份有限公司
- 四川锅炉厂
- 杭州锅炉股份有限公司
- 中国核工程技术有限公司
- 中广核工程有限公司
- 北京天海工业有限责任公司
- 中材科技有限公司
- 中石化工程建设有限公司
- 中石化洛阳石化工程公司
- 中国寰球工程公司
- Bharat Heavy Electricals Limited
- Everest Kanto Cylinder Ltd.
- Shanghai Boiler Works Ltd.
- Harbin Boiler Company Limited
- Dongfang Boiler Group Co., LTD.
- Wuhan Boiler Co., LTD.
- Babcock & Wilcox Beijing Company LTD.
- Wuxi Huaguang Boiler Co., LTD.
- Sichuan Boiler-making Plant
- Hangzhou Boiler Group Co., LTD.
- China Nuclear Power Engineering Co., Ltd.
- China Nuclear Power Engineering Co., Ltd.
- Beijing Tianhai Industry Co., Ltd.
- Sinoma
- Sinopec Engineering Incorporation
- Luoyang Petrochemical Engineering Corporation Ltd/Sinopec
- China Huanqiu Contracting & Engineering Co., Ltd.
- Bharat Heavy Electricals Limited
- Everest Kanto Cylinder Ltd.



## 产品应用 PRODUCT APPLICATION

压力容器主要用户包括：哈锅、东锅、上锅、武锅、巴锅、铸锅、杭锅、四川锅炉等国内大型电站锅炉生产厂家及哈汽、上汽、东汽集团内主要汽轮机生产厂家。同时，为福建宁德、台山、三门、广东阳江、田湾、福清等核电项目提供了数十个规格的无镍碳钢和合金管，具有为核电站提供核级管道的能力。每年还有 2 万吨以上 ASME 规范高压锅炉管批量出口印度、欧美、中东等海外市场。近年来使用我公司高压锅炉管的大型火电机组主要有：

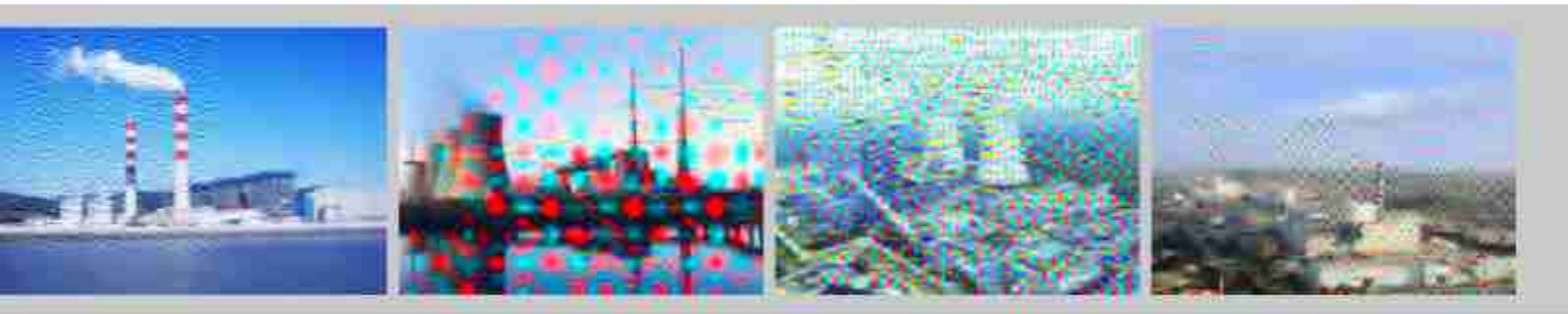
1000MW 超超临界机组：华能集团玉环电厂、海门电厂、广东海丰惠来电厂，华能集团广西贺州电厂，华能集团山东莱州电厂，浙能集团浙江嘉兴电厂、淮安电厂、华电句容电厂等；

600MW 超临界机组：威信电厂、老店电厂、王庙电厂、曹路电厂、三门联电厂、沁北电厂、太谷电厂、汕头电厂、大唐集团、国电宝庆电厂、贵州盘县电厂等；

600MW 亚临界机组：盘高电厂、大同电厂、浦东电厂、洪县电厂等。

300MW 亚临界机组：榆社电厂、石横山电厂、蒙城电厂、中宁电厂、河北国都电厂等。

300MWCFB 锅炉：白马电厂。



The Main users of pressure vessel products includes a lot of large power station boiler and steam turbine manufacturers in China, such as Harbin Boiler, Dongfang Boiler, Shanghai Boiler, Wuhan Boiler, B & W, Wuxi Boiler, Hangzhou Boiler, Sichuan Boiler, Harbin Turbine, Shanghai Turbine, Dongfang Turbine etc. Meanwhile we have the ability to provide the nuclear piping for nuclear power station and dozen sizes of carbon and alloy products have been used in the nuclear power projects such as Mingde, Taishan, Sanmen in Fujian and Yangjiang Project in Guangdong etc.

Each year more than 20,000 metric tons of high pressure boiler tube & pipe (ASME specification) are exported to India, Europe, America and Middle East etc.

In recent years our high pressure boiler products are used in large thermal power units as follows:

1000MW ultra-supercritical units of Huaneng Yuhuan Power Plant, Haimen Power Plant, Guangdong Yudean Power Plant, Guangxi Hezhou Power Plant of China Resources (Holdings), Shandong Lanzhou Power Plant of China Huadian Corporation, Zhejiang Jiaxing Power Plant of Zhejiang Energy, Zhundong Power Plant, Jurong Power Plant of China Huadian Corporation etc.

600MW supercritical units of Weixin Power Plant, Tedian Power Plant, Wanggu Power Plant, Changshu Power Plant, San Menxia Power Plant, Qinbei Power Plant, Taicang Power Plant, Shantou Power Plant, Datang Power Plant, Baoping Power Plant of China Power, Panxian Power Plant in Guizhou etc.

600MW sub-critical units of Pannan Power Plant, Datong Power Plant, Diandong Power Plant, Gongxian Power Plant etc.

300MW sub-critical units of Yushe Power Plant, Shi Zuishan Power Plant, Xuanwei Power Plant, Zhongning Power Plant, Guotai Power Plant in Hebei etc.

300MWCFB boiler of Bairna Power Plant.

发电锅炉名称 Name of power generation boiler	锅炉参数 Boiler parameter	用户 User	材料 Material	主要产品规格 Size
神华五彩湾 Shenhua Colorful Bay	660MW 超超临界 660MW Ultra-Supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	P92	508.00 × 108.00
内蒙古集宁 Inner Mongolia Zhigeping	660MW 超超临界 660MW Ultra-Supercritical	上海锅炉厂有限责任公司 Shanghai Boiler Works Ltd.	P92	711.00 × 75.00
山西古交热电厂 Shanxi Gujiao thermal power plant 1#	660MW 超超临界 660MW Ultra-Supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	P91	508.00 × 85.00
巴基斯坦旁普湖 Pakistanian Salim	660MW 超超临界 660MW Ultra-Supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	P91	559.00 × 60.00 559.00 × 85.00
神华永州电厂 Shenhua Yongzhou power plant 1#2#	2*1000MW 超超临界 2*1000MW Ultra-Supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	P91	635.00 × 90.00
神华国能准东电厂 Shenhua Guonei Zhundong power plant	2*660MW 超超临界 2*660MW Ultra-Supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	P91	457.00 × 47.00 508.00 × 70.00 610.00 × 108.00 711.00 × 50.00
神华永州电厂 1#2# Shenhua Yongzhou Power Plant	2*1000MW 超超临界 2*1000MW Ultra-Supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	15NiCuMoNb5-6-4	457.00 × 45.00 600.00 × 65.00
海南新区热电联产项目 Cogeneration Unit in Bahai new district	350MW 超超临界 350MW Supercritical	华安电力 China Resources Power Holdings Company Limited	15NiCuMoNb5-6-4	Φ406.40 × 40.00 Φ273.00 × 30.00
印度 Jorico 2 号发电机组 India Jorico 2	600MW 超超临界 600MW Supercritical	中国华电集团公司 China Huadian Corporation	15NiCuMoNb5-6-4	Φ508.00 × 50.00 Φ355.60 × 40.00
承德热电厂 Chengde Thermal Power Plant	660MW 超超临界 660MW Ultra-Supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	15NiCuMoNb5-6-4	457.00 × 90.00
恒球铝业电厂 Xiyuan Aluminium Power Plant	660MW 超超临界 660MW Ultra-Supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	15NiCuMoNb5-6-4	508.00 × 50.00
神华永州电厂 1#2# Shenhua Yongzhou Power Plant	2*1000MW 超超临界 2*1000MW Ultra-Supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	12Cr1MoV	711.00 × 120.00
山东黄岛 1# Shandong Hongqiao	6*660MW 超超临界 6*660MW Ultra-Supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	12Cr1MoV	697.00 × 50.00
国电蚌埠电厂 2# Guodian Bengbu Power Generation Plant	2*660MW 超超临界 2*660MW Ultra-Supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	12Cr1MoV	711.00 × 60.00 711.00 × 65.00
沁北 1#、2# Qibei 1#, 2#	600MW 超超临界 600MW Supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	12Cr1MoV	Φ50.80 × 4.80
玉环 1#-2 Yuhuan#1-2	1000MW 超超临界 1000MW Ultra-Supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	12Cr1MoV	Φ80.00 × 12.00
玉环 4# Yuhuan#4	600MW 超超临界 600MW Supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	SA-219T1a	Φ62.50 × 4.50
玉环 4# Yuhuan#4	600MW 超超临界 600MW Supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	SA-209T1a	Φ62.50 × 4.80
马来西亚 2# Malaysia 2#	1000MW 超超临界 1000MW ultra-supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	SA-213T11	Φ50.00 × 4.00
马来西亚 2# Malaysia 2#	1000MW 超超临界 1000MW ultra-supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	SA-213T11	Φ57.00 × 4.50
印度 2# India 2#	1000MW 超超临界 1000MW ultra-supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	SA-213T11	Φ57.00 × 6.50
浙江 2#、江西 1#、安徽 1#、平圩 2# Zhuanghe 2#, Jiangyin 1#, Shuang yohar 1#, Pingwei 2#	1000MW 超超临界 1000MW ultra-supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	SA-213T11	Φ38.00 × 5.60
马来西亚 1#-2 Malaysia #1-2	1000MW 超超临界 1000MW ultra-supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	SA-213T11	Φ37.00 × 5.00
青瓷 1# Qing Yuzhi 1#	600MW 超超临界 600MW supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	12Cr1MoV	Φ298.50 × 65.00
向家 2# Jurong 2#	600MW 超超临界 600MW supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	12Cr1MoV	Φ199.70 × 38.00
地龙 2# Dilong 2#	600MW 超超临界 600MW supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	12Cr1MoV	Φ177.00 × 25.00
淮安 1# Zhundong 1#	600MW 超超临界 600MW supercritical	东方锅炉股份有限公司 Dongfang Boiler Group Co., Ltd.	15CrMo	Φ323.90 × 40.00
喀什 #5 Kashi #5	600MW 超超临界 600MW supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	15CrMo	Φ324.00 × 50.00
盘县 #1 Panxian #1	1000MW 超超临界 1000MW ultra-supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	12Cr1MoV	Φ559.00 × 60.00
临潼 2# Lintuan II #2	600MW 超超临界 600MW supercritical	哈尔滨锅炉厂有限责任公司 Harbin Boiler Company Limited	12Cr1MoV	Φ325.00 × 40.00

# 机械加工用无缝钢管产品介绍

CATALOGUE OF MECHANICAL PROCESSING TUBE & PIPE

## 营销与服务

MARKETING AND SERVICE

品种 Variety	规格 Size		钢级/钢号 Steel grade	执行标准 Specification	典型用途 Typical applications
	外径 mm O.d/mm	壁厚 mm W/mm			
结构管 Structure Tube & Pipe	57.00~765.00	4.00~120.00	10, 20, 35, 45, Q345, Q390, Q420, Q460, Q500, Q550, Q690, 20Cr, 40Cr, 27SiMn, 16CrMo, 20CrMo, 30CrMo, 35CrMo, 42CrMo, 20CrNiMo, 20CrMnMo, 40CrMnMo, 40CrNiMo, 30CrMnSiA, 35CrMnSiA, 20CrMnTi	GB/T 8162	机械加工零件、结构件、管件等 Machining parts, structural parts and fittings
			1020, 1026, 1035, 1045, 4130, 4140 等	ASTM A519	
流体管 Fluid Transmission Tube & Pipe	57.00~765.00	4.00~120.00	10, 20, Q345, Q390, Q420, Q460	GB/T 8163	输送一般气体液体 General gas and fluid transmission
非合金、 细晶粒结构管 Non-alloy and fine-grain structure tube & pipe	57.00~765.00	4.00~120.00	S275J0H, S355R2H, S460NH, S275J2H, S355J0H, S355J2H, S355NH, S355NLH	EN 10210	用于桥梁、体育场、飞机等、 海上风电等公共设施及机械工程 Public facilities and mechanical engineering such as bridge, stadium, airport and offshore wind power
液压缸管 Hydraulic Cylinder Tube & Pipe	57.00~765.00	4.00~120.00	20, 35, 45, 27SiMn, 30CrMnSiA, 35CrMnSiA, 5890 等	GB/T 17396	液压支柱 Hydraulic cylinder
地质钻探管 Geology Drilling Tube & Pipe	57.00~765.00	4.00~120.00	DZ40, DZ50, DZ55, DZ40, STM-R780 等	YB/T5052 Q/DHAD006-2009	地质钻探 Geological drilling
汽车半轴管 Auto Axle Tube & Pipe	57.00~765.00	4.00~120.00	45, 18Mn2, 20Mn2, 25Mn, 27Mn2, 45Mn2, 40MnB, 40Cr, SAE1527, E460, E620, C2450S, C2530S 等	YB/T5035 Q/DHAD041-2019 技术协议 Technical agreement	汽车半轴管、汽车零件用管材料 Materials for auto axle pipe and auto fittings pipe
起重葫芦管 Crane Jib tube & pipe	50.80~765.00	4.00~120.00	HSM450, HSM770, HSM890, HSM960, S355, Q390, Q460, Q690 等	GB/T 30584-2014 Q/DHAD 015-2008 技术协议 Technical agreement	塔带式起重器、汽车式起重器、 塔机塔身起重器用管材料 Bearing truss of crawler crane, auto crane and port e quipment crane
空心钻杆管 Hollow Mandrel Tube & Pipe	318.00~720.00	50.00~120.00	42CrMo, 30Cr3MoV	Q/DHAD002-2010	制造空心钻杆 Hollow mandrel bar
管模用管 Mold Tube & Pipe	Dh200	Dh600	21CrMo10	技术协议 Technical agreement	制造离心铸管管模 Centrifugal cast mold
高端建筑用管 High-end Building Tube & Pipe	200.00x200.00	10.00~45.00	Q345, Q390, Q420	技术协议 Technical agreement	建筑构件 High-end building component
泵送管 Pumping Tube & Pipe	50.80~368.00	3.50~42.00	20, Q345B, 45Mn2, NM50, NM55, H5-1, H65	Q/DHAD 031-2013 技术协议 Technical agreement	制造泵车输送管 Pump piping
油缸管 Oil cylinder Tube & Pipe	57.00~765.00	4.00~120.00	20, 45, 25Mn, Q345B, Q345D, 27SiMn, 20MnTiB, 26MnNbTi, E355, E355S, 20MnV6, 20MnTiB, S850, S690, S720, S790, XG850, S890, 30CrMnSiA	Q/DHAD 032-2019 技术协议 Technical agreement	制造液压油缸 Hydraulic cylinder
旋挖钻杆管 Rotary Drill Tube & Pipe	57.00~765.00	4.00~120.00	Q345B, 27SiMn, 30CrMo, 35CrMo, HG550, HG650, HG850	GB/T 34109-2017 Q/DHAD 037-2019 技术协议 Technical agreement	制造旋挖钻杆 Rotary drill rod
石油机械用工程管 Petroleum Machinery Tube & Pipe	57.00~765.00	4.00~120.00	4130, 4140, X55, L80-1, T95-1, P110, C110, 13Cr, Q125-1, R95, 35CrMo, 42CrMo, SCM440TK	API 5CT, ASTM A519 技术协议 Technical agreement	制造油服管等部件 Spore parts of petroleum service

### 主要用户 Main Customers

- 中国一汽解放汽车有限公司 China Faw Jiefang Automotive Company ,Ltd.
- 东风汽车有限公司商用车公司 Dongfeng Passenger Vehicle Company
- 三一重工股份有限公司 SANY Heavy Industry Co., Ltd.
- 远大可研科技有限公司 Broad Sustainable Building
- 中联重科股份有限公司 Zoomlion Heavy Industry Science & technology Co., Ltd.
- 淮南矿业(集团)有限责任公司 Huainan Mining (Group) Co., Ltd.
- 郑煤机集团股份有限公司 Zhengzhou Coal Mining Machinery Group Co. Ltd.
- 河南中煤特钢有限公司 Henan Sino Coal Special Steel Co., Ltd.
- MTR Corporation Limited MTR Corporation Limited
- Shui On Construction Co.,Ltd Shui On Construction Co., Ltd.
- 徐工工程机械有限公司 Xuzhou Construction Machinery Group Co., Ltd.
- 广东富华重工制造有限公司 Guangdong Fuwa Heavy Industry Manufacturing Co., Ltd.
- 山河智能装备股份有限公司 Sunward Intelligent Equipment Co., Ltd.
- 贝克休斯公司 Baker Hughes
- 哈里伯顿公司 Halliburton
- 斯伦贝谢公司 Schlumberger



## 产品应用

PRODUCTS APPLICATION



机械加工用管主要包括：结构管、流体管、液压支柱管、地质钻探管、汽车半轴套管、汽车车辆用管、高档车轴用热轧方管、高档车轴用管、高强度缸用管、起重机械用管、高层建筑用管、军工管、冷拔用油缸管、旋转钻杆管、船舶用管等，用户包括：中石油、中石化各大油田，三一重工、中联重科、徐工、沃尔沃、卡特、日立、斗山、山河智能、柳工等工程机械及液压油缸制造厂家，中煤、郑煤机、华煤机、北煤机、集矿等大型煤矿企业；一汽、东风汽车、济南重汽、广东富华、富合、佛山何氏协力、广州华勤、BPW、佛山永利泰、柳汽等汽车配件制造企业，中船、中远、长阳等大型船舶制造企业，中建、远大等新型建筑厂家。

Mechanical processing tube & pipe mainly includes that of structure, fluid transmission, hydraulic cylinder, geological drilling, auto semi shaft, auto vehicle, high-strength axle, high-strength cylinder, crane jib, high-end building, pump piping, cold drawn cylinder, rotary drilling, ship & vessel and etc. End users are as follows: oil fields of CNPC and Sinopec; engineering machinery and hydraulic cylinder manufacturers like Sany, Zoomlion, XCMG, Fuyao, CAT, Hitachi, Doosan, Sunward Intelligent, Liugong and etc, large coal mining enterprises like ChinaCoal, ZMJ, PMJ, BMJ, HBMG and etc, auto accessory manufacturers such as FAW, Dongfeng, Sinotruk, Guangdong FUWA, FUHE Automobile, Ho's, Guangzhou Huajing, BPW, Foshan Yonglitai, Dongfeng Liuzhou Motor and etc, big ship & vessel manufacturers as CSSC, COSCO, SINOTRANS & CSC and etc, and new style building designer like CSCEC and Broad Group.

产品类型 Product	单位名称 Customers	材质 Material
汽车半轴套管 Auto Semi Shaft Pipe	三一重工股份有限公司, 中国一汽集团公司, 东风汽车公司, 中国重汽集团, 沈阳卡车股份有限公司, 佛山市富合汽车工业配件有限公司, 东序汽车实业有限公司供应分公司 Sany, FAW, Dongfeng, Sinotruk, Jinan Huhe Auto, FUHE Automobile, Donghua Motor	45Mn2, 40Cr, 45#
汽车车辆用管 Auto Vehicle Pipe	广东富华工程机械制造有限公司, BPW车轴有限公司, 广州华勤机械制造有限公司, 佛山永利泰车轴有限公司, 佛山市何氏协力机械制造有限公司 Guangdong FUWA, BPW, Guangzhou Huajing, Foshan Yonglitai, Ho's	30Mn2, 20Mn2, 18Mn2, 20Mn2, 25Mn2, SAE1527, 27Mn2, E620, C2450S, CZ530S
地质钻探用管 Geological Drilling Pipe	无锡钻探工具厂, 中国煤炭科工集团西安研究院 Wuxi Drilling Tools Factory, CCTEG XI'AN Research Institute	DZ40, DZ50, DZ55, DZ60, STM-R780
液压支柱管 Hydraulic Cylinder Pipe	河南中煤特钢有限公司, 郑煤机集团有限公司, 平遥山平煤机煤矿机械装备有限公司, 中煤北京煤矿机械有限责任公司 Henan Sino Coal Special Steel Co., Ltd., Zhengzhou Coal Mining Machinery Group Co., Ltd., Pingdingshan PMJ Coal Mining Machinery Equipment Co., Ltd., ChinaCoal Beijing Coal Mining Machinery Co., Ltd.	27SiMn, 30CrMnSiA, S890
高层建筑用管 High-end Building Pipe	中建, 远大可建科技有限公司 CSCEC, Broad Group	20, Q345, Q390, Q420
起重机械用管 Crane jib Pipe	中联重科股份有限公司, 徐工集团工程机械股份有限公司, 三一重工股份有限公司 Zoomlion, XCMG, Sany	HSM450, HSM770, HSM890, HSM960
泵送管 Pumping Pipe	中联重科股份有限公司中旺分公司, 湖南三一中阳机械有限公司 Zoomlion Zhongwang Branch, Zhongyang Machinery of Hunan Sany	20, Q345B, 45Mn2, NM50, NM55, H65
油缸用管 Cylinder Pipe	中船重工中南装备有限责任公司, 娄底中兴液压件有限公司, 湖南特力液压有限公司, 柳州原工液压件有限公司 CSIC Zhongnan Equipment Company LTD., Loudi Zhongxing Hydraulic Part Co., Ltd., Hunan Tell Hydraulic Co., Ltd., Xuzhou XCMG Hydraulic Part Co., Ltd.	45, Q345B, 27SiMn, 20MnTiB, E355, E355S, E470, S690, S720, S890, XG850
旋转钻杆管 Rotary Drilling Pipe	北京三一智源科技有限公司, 中联重科股份有限公司, 徐州徐工工程机械集团有限公司, 山河智能装备股份有限公司 Beijing Sany Intelligent Manufacture Technology, Zoomlion, Xuzhou XCMG Fundamental Engineering Machinery Co., Ltd., Shanhe Intelligent Equipment Co., Ltd.	Q345B, 27SiMn, 35CrMo, HG550, HG650, HGR50