



莱钢集团烟台钢管有限公司

YANTAI STEEL PIPE CO., LTD. OF LAIWU IRON & STEEL GROUP

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## 企业概况 Introduction

莱钢集团烟台钢管有限公司前身为山东烟台钢管总厂，1958年5月建厂开始生产无缝钢管。1981年7月成为山东省冶金工业总公司直属企业，为我国专业化无缝钢管生产的骨干厂家。1998年10月，企业整建制划归莱钢钢铁集团有限公司，成为其全资法人单位。2007年6月，山东烟台钢管总厂完成改制，更名为“莱钢集团烟台钢管有限公司”。

按照《公司法》要求，公司建立了规范的法人治理制度，下设10个职能管理部门，4个生产分厂和1个质量检查站，另有2个全资子公司。截至2019年1月底，在职职工965人。公司注册资本8386.82万元。

经营范围：无缝钢管以及制品的制造、销售，化工产品（不含化学危险品）、建筑材料、普通机械设备、钢材的销售，货物和技术的进出口（依法须经批准的项目，经相关部门批准后方可开展经营活动）。

公司拥有Φ219、Φ140、Φ89、Φ76五条热轧生产线，一条冷拔生产线，无缝钢管年生产能力100多万吨，钢管最大长度24M。注册商标：双环牌。

主要产品品种：高压锅炉用无缝钢管、套管和油管、管线管、石油裂化用管、高压化肥设备用无缝钢管、低中压锅炉用无缝钢管、船舶用无缝钢管等10多个品种，1000多个规格。

YANTAI STEEL PIPE CO., LTD. OF LAIWU IRON & STEEL GROUP is one of the key manufacturers specializing in seamless steel pipes and tubes in China. It was established in 1958 and went under the name of YANTAI STEEL PIPE PLANT, SHANDONG until June 2007. The Company had 83,868,200.00 CNY registered capital and 965 workers and staff at the end of Jan. 2019.

There are 5 hot-rolling (Φ219, Φ140, Φ114, Φ89 & Φ76) and 1 set of cold-drawn production lines in the Company. More than 1,000,000 metric tons, at least 10 varieties and 1,000 nominal sizes, of seamless steel pipes and tubes are manufactured annually. They are casing and tubing, line pipe and pipes and tubes for high pressure boiler, for ship, for low and medium pressure boiler, for structural purposes, for petroleum cracking, for high-pressure chemical fertilizer equipments and so on. Their length (max.) 24 meters. All of them are in conformity with the requirements of the National or International standards.

The Company started to manufacture pipes and tubes in May 1958. It had been one of the enterprises of the Metallurgical Industry Company of Shandong Province since July 1981. In Oct. 1998, it completely became an enterprise with the status of an independent legal entity of LAIWU IRON & STEEL GROUP.

The Company consists of 10 administrative departments, 3 factories, 1 quality inspection station and 2 exclusively-invested subsidiary companies.



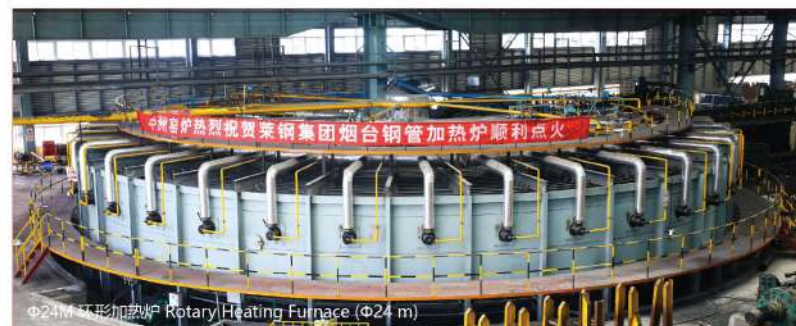
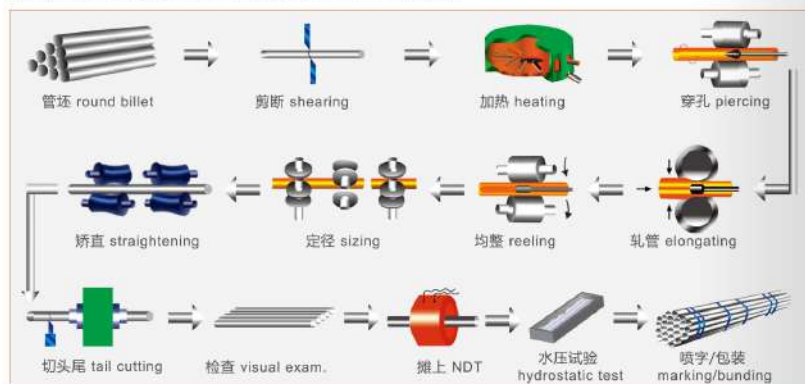


## 热轧工艺与装备

### Hot-rolling Pipe Process & Apparatus

公司作为具有六十多年生产经验的专业无缝钢管生产企业，工艺成熟，装备完善。拥有 $\phi 219$ 、 $\phi 140$ 、 $\phi 114$ 、 $\phi 89$ 、 $\phi 76$ 五条热轧生产线，主要设备包括 $\phi 24\text{m}$ 环形加热炉、轧管机组及相应的辅助设备，年可生产 $\phi 60\sim 273\times 4\sim 50\text{mm}$ 碳钢、合金钢无缝钢管100万吨，钢管最大长度24m。

热轧钢管生产工艺流程图 Hot-rolling Pipe Process Diagram



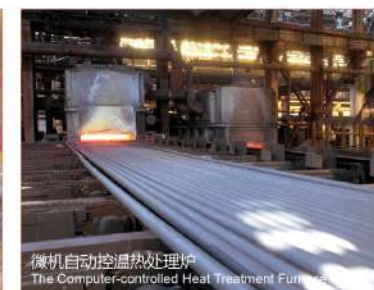
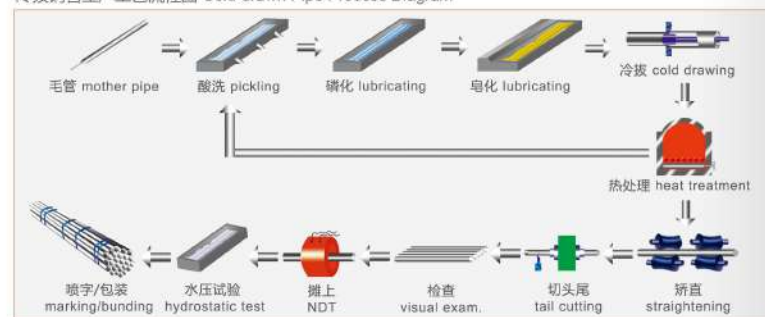
The Company, with abundant experience in manufacturing seamless steel pipes and tubes for more than 60 years, has 5 advanced hot-rolling production lines which are mainly composed of one rotary heating furnace (diameter 24 m), five sets of piercers ( $\phi 219$ ,  $\phi 140$ ,  $\phi 114$ ,  $\phi 89$  &  $\phi 76$ ) and all of corresponding accessories. About 1,000,000 metric tons of carbon steel or low alloy steel pipes and tubes made by these production lines ever year are 60 mm to 273 mm in O.D., 4 mm to 50 mm in W.T. and 24 meters long (max.).



## 冷拔工艺与装备 Cold-drawn Pipe Process & Apparatus

冷拔生产线主要装备有： $\phi 76$ 、 $\phi 50$ 穿孔机组各一套，2000kN、3000kN精密液压冷拔机各一台，150~900kN链式冷拔机11台（链）、微机控制热处理炉四座及相应辅助设施，年可生产 $\phi 6\sim 159\times 1\sim 30$ mm高压锅炉管、低中压锅炉管、碳钢、合金钢专用无缝钢管25万吨，钢管最大长度13m。

冷拔钢管生产工艺流程图 Cold-drawn Pipe Process Diagram



The cold-drawn pipe apparatus are mainly composed of 2 sets of piercing mills ( $\phi 76$  &  $\phi 50$ ), 2 sets of accurate hydraulic cold-drawn machines (draw force: 2,000kN & 3,000kN), 11 sets of chain-type cold-drawn machines (drawn-force: 150kN ~900kN), 4 computer-controlled heat treatment furnaces and all of corresponding accessories. About 250,000 metric tons of carbon steel or low alloy steel pipes and tubes for high pressure boiler and for low and medium pressure boiler, made by these cold-drawn machines, are 6 mm~159mm in O.D., 1mm to 30 mm in W.T. and 13 meters long (Max).



## 主要产品品种 Main Products

套管和油管、管线管、高压锅炉用无缝钢管、低中压锅炉用无缝钢管、输送流体用无缝钢管、结构用无缝钢管、船舶用碳钢无缝钢管、石油裂化用无缝钢管、高压化肥设备用无缝钢管等10多个品种，1000多个规格。

Casing and tubing, line pipe, carbon steel or low alloy steel seamless pipes and tubes for high pressure boiler, for low and medium pressure boiler, for liquid service, for structural purposes, for ship, for petroleum cracking, for high-pressure chemical fertilizer equipments and so on. There are more than 10 varieties and 1,000 nominal sizes.



钢管自动打标线 Marking and Packing Facility

## 产品执行标准 Codes and Standards

GB 3087-2008, GB/T 5310-2017,  
GB/T 8163-2018, GB/T 8162-2018,  
GB 6479-2013, GB 9948-2013,  
GB/T 9711-2017, API 5CT-2018,  
GB/T 5312-2009, API 5L-2018,  
ASTM A53/A53M,  
ASTM A106/A106M, EN 10216,  
EN 10297, JIS G3454

## 主要产品目录 Main Product List

序号 NO.	产品名称 Pipe Name	钢号 (级) Grade	规格 Nominal Size (mm)	技术标准 Standard (mm)	备注 Notes
1	高压锅炉用无缝钢管 Seamless Steel Pipe for High Pressure Boiler	20G, 15CrMoG, 12Cr1MoV, SA-210 A1/C, SA-213 T12/T22 P235, P265	28-356×2-50	GB/T5310-2017, ASME SA-210, ASME SA-213 EN 10216-2	金杯奖 "Golden Cup Prize" 省名牌产品 "Famous Products" Approved by Shandong Provincial Government
2	低中压锅炉用无缝钢管 Seamless Steel Pipe for Low and Medium Pressure Boiler	10, 20	20-356×2-50	GB 3087-2008	金杯奖、冶金部优质产品、 省名牌产品 "Golden Cup Prize", "Excellent Quality Products" Approved by the Ministry of Metallurgical Industry and "Famous Products" Approved by Shandong Provincial Government
3	结构用无缝钢管 Seamless Steel Pipe for Structural Purposes	10-45, Q345	6-356×1-50	GB/T 8162-2018	
4	输送流体用无缝钢管 Seamless Steel Pipe for Liquid Service	10, 20, Q345 P235, P265	6-356×1-50	GB/T 8163-2018 EN 10216-1	CCS, LR, ABS, DNV-GL, BV 许可 Approved by CCS, LR, ABS, DNV-GL & BV
5	船舶用无缝钢管 Seamless Steel Pipe for Ship	C10, C20	14-356×1-50	GB/T 5312-2009	
6	套管和油管 Casing and Tubing	J55, N80	60.32-356×4.83-50	API Spec 5CT	
7	管线管 Line Pipe	A, B, X42, X52, 10, 20, L245N, L360N, L245NS X60, X65, X70	21.3-356×2.77-50	API Spec 5L, GB/T 9711-2017	
8	石油裂化用无缝钢管 Seamless Steel Pipe for Petroleum Cracking	10, 20, 12CrMo, 15CrMo	28-356×2-50	GB 9948-2013	
9	高压化肥设备用无缝钢管 Seamless Steel Pipe for High-pressure Chemical Fertilizer Equipments	Q345, 10, 20, 12CrMo, 15CrMo, 12Cr2Mo	28-356×2-50	GB 6479-2013	
10	一般用途无缝钢管 Seamless Steel Black Pipe	Grade A, Grade B, STPG 38, STPG 42 STPG370	10-356×1-50	ASTM A 53, JIS G3454	
11	高温作业用碳钢无缝钢管 Seamless Carbon Steel Pipe for High-Temperature Service	Grade A, Grade B	10-356×1-50	ASTM A106	

备注：上述所有钢管均为国家免检产品。

Note: State General Administration of the People's Republic of China for Quality Supervision and Inspection and Quarantine exempts all above steel pipes and tubes from quality surveillance inspection.



## 主导产品 Main Products

公司多年来致力于特色产品的培育，在品种方面，相继开发并批量生产出低合金高压锅炉管、套管和油管、管线管等  
高技术含量产品；在规格方面，先后开发并批量生产出168、219、273mm等系列大口径无缝钢管。

In order to develop own characteristic products, the Company has researched and developed many kinds of large diameter pipes having higher technology, such as casing and tubing, line pipe and low alloy steel pipes for high pressure boiler. Right now, the pipes having 168, 219, 273mm in outside diameter are mass manufactured.



### 套管和油管 Casing and Tubing

规格/Sizes: 60.32~356x4.83~15mm 钢级/Grade: J55/N80 1

长度/Length: 最大长度12m(12 meter max)

执行标准/Standard: API Spec 5CT《套管和油管》(API Specification 5CT 10th Edition, July 1, 2019)

技术质量特点/Technical & Quality Features:

选用37Mn5、36Mn2V优质合金钢管坯，经热轧或冷拔生产套管和油管，力学工艺性能稳定。经无损探伤和水压试验，产品使用安全可靠。是油田采油和固井等井下作业的专用管材。

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Casing and Tubing are manufactured by hot-rolling or cold drawn process, using high quality alloy steel billets. The mechanical properties are stable and uniform due to being heat treated in computer-controlled furnace. All the pipes are tested by UT, ET or Hydrostatic test facilities.

API徽标使用许可证号/API License No.: 5CT-0661

### 高压锅炉、过热器和热交换器用无缝钢管

Seamless Steel Pipes for high pressure boiler, Superheater and Heat-Exchanger

规格/Sizes: 28~356x2~50mm 钢级/Grade: 20G 15CrMoG 12Cr1MoVG, SA-210 A1/C, SA-213 T12/T22

长度/Length: 24m(24 meter max.) 执行标准/Standard: GB/T 5310, ASME SA-210, ASME SA-213

技术质量特点/Technical & Quality Features:

使用高压用无缝钢管专用管坯，经热轧或冷拔生产高压锅炉管、过热器钢管和热交换器钢管。采用专用合金模具和微机自动控制的加热炉，产品尺寸精度高，表面质量好，组织性能稳定，产品经无损检测，使用安全可靠。

该产品广泛用于制造高压及其以上压力电站锅炉水冷壁、省煤器等。2005年获冶金产品实物质量金杯奖和产品质量国家免检证书。

These pipes are manufactured by hot-rolling or cold drawn process, using special billets for seamless steel pipes which can withstand high pressure. The pipe dimensions are quite accurate and the appearance is free from defects due to having used special alloy moulds for drawing. The mechanical properties and metallographic microstructure of the pipes are stable and uniform due to being heat treated in computer-controlled furnace. All the pipes are tested by UT, ET or Hydrostatic test facilities. The pipes have been awarded "Golden Cup Prize for their actual quality by China Iron & Steel Association and the State General Administration of the People's Republic of China for Quality Supervision and Inspection and Quarantine exempts the pipes from quality surveillance inspection in 2005.



### 热轧厚壁无缝钢管

Seamless Steel Pipes, Heavy Wall Thickness, Hot-Rolling

规格/Sizes: 89~356x20~50mm

钢级/Grade: 10、20、45、Q345、45Mn2

长度/Length: 最大长度12m(12 meter max)

执行标准/Standard: GB/T 8162、GB/T 8163、GB 3087

技术质量特点/Technical & Quality Features:

选用优质碳素钢或合金钢管坯，使用带锯下料和定心工艺，管坯在国内炉膛最宽的环炉内加热，应用厚壁管穿孔技术和空轧工艺以及特殊的定径孔型，实现在中140自动轧管机组顺利生产厚壁无缝钢管，产品尺寸精度等均优于国家标准，广泛用于机械加工、承压设备制造等行业。

该产品2005年获产品国家免检证书。

The pipes are manufactured by hot-rolling process, using special carbon steel or alloy steel billets which are cut in required length by gig saw and heated in the rotary heating furnace (diameter 24 m). The special piercing technique for manufacturing heavy wall thickness pipes, the special elongation process without any mandrel and the particular sizing mills have been used. The pipe dimension are quite accurate. They can widely be used for mechanical, general engineering, structural and pressure purposes.

The State General Administration of the People's Republic of China for Quality Supervision and Inspection and Quarantine exempts the pipes from quality surveillance inspection in 2005.

## 热轧钢管规格表 Hot-rolling pipe sizes

壁厚 Wall Thickness (mm)	4	4.5	5	6	7-9	10-12	13-15	16-20	21-24	25-30	31-32	33-40	41-42	43-50
60														
76														
89														
102														
108														
114														
127														
133														
140														
146														
152														
159														
168														
180														
194														
203														
219~273														
298~356														

## 冷拔钢管规格表 Cold-drawn pipe sizes

壁厚 Wall Thickness (mm)	1-2	2.5	3-3.5	4	4.5	5-6	7-8	9-10	11-12	13-14	15-16	17-22	23-25	26-30
6-7														
8-16														
17-18														
19-23														
24-36														
38-43														
44-50														
51-60														
61-76														
83-89														
102-114														
121-133														
140-159														

## 完备的检测 Inspection Apparatus

公司拥有完备的、同行业先进的无损探伤和理化性能检测设备，主要有：涡流探伤机、漏磁探伤机、超声波探伤机、进口的大型金相显微镜和光电直读光谱仪、微机测控液压式万能试验机、冲击试验机、水压试验机，有效满足了钢管检测与试验要求，有力保证了产品的实物质量。



硬度计 Hardness Testers



金相显微镜 Metallurgical Microscope



光电直读光谱仪 Spectrometer



红外碳硫仪 Infrared Carbon-sulfur Analyzer



微机控制液压式万能试验机  
Computer-controlled Universal Tester



超声波探伤机 Ultrasonic Tester



漏磁探伤机  
Flux leakage Tester

The Company has many kinds of advanced non-destructive test equipments and laboratory apparatus, such as ultrasonic tester, flux leakage tester, eddy current tester, metallurgical microscope (imported from Germany), and spectrometer, computer-controlled universal tester for tensile, compression, bending and shear tests, Charpy impact tester, hydrostatic test facilities and so on. The inspections and all tests of pipes can be done by using them and the quality of pipes can be firmly assured.



涡流探伤机 Eddy Current Tester



水压试验机 Hydrastatic Test Facility



## 资质荣誉 Certificates

公司信守“满足顾客对产品和服务的需求，是我们不懈的追求”的质量方针，追求一流的品质和一流的服务。多年来，通过不断地技术改造与工艺创新，企业已拥有了完善的质量保证体系，通过了一系列的资质认证，获取了进一步拓展国际、国内市场的通行证；“双环”牌无缝钢管的质量、信誉不断提升，一直以产品质量高，企业信誉好而深得用户信赖，在用户中享有较高的声誉。

公司为中石油、中石化的油管、套管、普管网上采购会员单位，全国重点电站锅炉制造厂商物资供应会员单位。



The Company insists on its Quality Police, i.e. "Make unremitting efforts for meeting customer's requirements for products and service" and takes "First-class Quality and Service" as its goal. It has an effective Quality Management System and gets ISO 9001 Certificate and other Certificates issued by API, ABS, DNV-GL, LR, BV and CCS.

The Company is one of the suppliers of SINOPEC, CNPC and national power station boiler's manufacturers.



质量体系证书 (自1998年4月)  
QMS Certificate (Since Apr., 1998)



职业健康安全管理体系证书 (自2007年6月)  
OHSMS Certificate (Sincs June., 2007)



环境管理体系证书 (自2007年6月)  
EMS Certificate (Sincs June., 2007)



管线管使用API徽标许可证书 (自2006年3月)  
Certificate for Using API Monogram on Line Pipe  
( Since Mar., 2006 )



套管和油管使用API徽标许可证书 (自2006年3月)  
Certificate for Using API Monogram on Casing and  
Tubing ( Since Mar., 2006 )





美国船级社(ABS)证书 (自2009年11月)  
Certificate Issued by ABS ( Since Nov., 2009 )

挪威-德国船级社(DNV-GL)证书 (自2006年6月)  
Certificate Issued by DNV-GL (Since June, 2006)



英国船级社(LR)证书  
(自2002年5月)  
Certificate Issued by LR ( Since May, 2002 )

中国船级社(CCS)证书 (自1995年6月)  
Certificate Issued by CCS (Since June, 1995)



法国船级社 ( BV ) 证书 (自2009年11月) Certificate Issued by BV (Since Nov., 2009)



2005年12月高压、低中压锅炉管荣获金杯奖  
"Golden Cup Prize" Certificates for seamless pipes and tubes for high pressure boiler and for low and medium pressure boiler



高压锅炉用无缝钢管、低中压锅炉用无缝钢管获国家冶金产品实物质量“金杯奖”和山东名牌荣誉称号，低中压锅炉用无缝钢管、输送流体用无缝钢管、结构用无缝钢管获冶金部、山东省优质产品称号；2005年双环牌无缝钢管被国家评为质量免检产品。

Seamless steel pipes and tubes for high pressure boiler, and for low and medium pressure boiler have been awarded to "Golden Cup Prize" by China Iron and Steel Association for their actual quality which is in the same level with the product manufactured by developed countries and named as "Shandong Province Famous Products" by Shandong Provincial Government. Seamless steel pipes and tubes for low and medium pressure boiler, for liquid service and for structural purposes have been awarded as "Excellent Quality Products" by Shandong Provincial Government and the Ministry of Metallurgical Industry, respectively. Furthermore, State General Administration of the People's Republic of China for Quality Supervision and Inspection and Quarantine exempts all of our pipes and tubes from quality surveillance inspection.



中石化物资供应商截屏  
(自2002年12月)  
Screenshot from CNPC website:  
[www2.energyahead.com](http://www2.energyahead.com)  
(Since Dec., 2002)

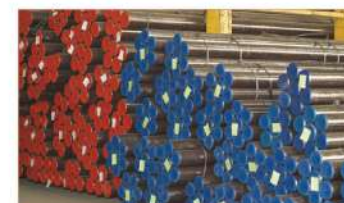
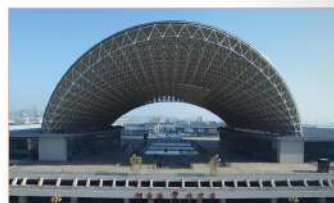
中石化物资供应商截屏  
(自2002年12月)  
Screenshot from SINOPEC website:  
<http://member.epcc.com>  
(Since Dec., 2002)

## 应用领域 Applications

石油开采  
电站锅炉、船用锅炉  
压力容器  
各种网架结构及机械结构等



Petroleum mining and refining, oil and gas transferring line;  
Boilers for power station or ship;  
Pressure vessels;  
All kinds of machinery structure,  
construction, bridge, oxygen cylinder; and so on.



企业具有60多年的无缝钢管生产历史, 工艺成熟, 经验丰富, 拥有完善的质量保证体系, “双环”牌无缝钢管一直以质量稳定、可靠而深得用户信赖。经过多年的发展, 已形成较为成熟、稳定的原料供应与产品销售网络。市场销售网络遍及全国各主要省区, 其中以华东、华北、西北市场为主。企业多年潜心培育的客户群主要集中在石油、石化、锅炉、煤炭、机械制造等行业。由于这些行业发展潜力巨大, 经济实力雄厚, 为公司今后的发展提供了广阔的空间。同时, 产品还远销美国、欧盟、南美洲、东南亚等世界各地。

The Company, with abundant experience in manufacturing seamless steel pipes and tubes for more than 60 years, has established a perfect quality management system. Its seamless pipes and tubes are trusted by the consumers due to their having very stable and reliable quality. The company has satisfactory suppliers of billets and its own sales market. The pipes and tubes are sold very well all over China, especially in the east, the north and northwest of China. The clients of the Company are the State-owned enterprises or manufacturers in petroleum and natural gas industries, petrochemical engineering, boiler industry, coal industry, machinery building industry, and so on. The Company will greatly be developed because of these clients having a huge power to develop and abundant finance support. The pipes and tubes are also sold very well abroad. They are exported to USA, EU, South America, East Asia, etc.





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## 企业文化 Company Culture

### 企业精神/Company Spirit:

求实 团结 拼搏  
Be Realistic, Unites and Fights.

### 企业传统/Company Tradition:

艰苦奋斗 干事创业  
Work Hard and Carve Out the Business.

### 核心价值观/Core Values:

共赢共享 直到永远  
Win-win and Share for Ever and Ever.

### 企业愿景/Company Vision:

应对新形势 实现新发展 建设新烟管  
Deal with the New Situation, Realize the New Goal and Build the New Company.

### 企业宗旨/Company Purpose:

让公司持续发展 让股东获得利益 让员工分享成果  
The Company Be Continuously Developed, the Shareholders Get Profits and the Staff Shares the Success.

### 企业发展战略/Company Developing Strategies:

管理创新 技术创新 优化品种  
降低成本 持续提高盈利能力  
Make and Implement New Management Methods, Practice New Technology, Optimize the Products Varieties, Decrease the Cost and Enhance continuously the Ability to Make Money.

### 企业作风/Company Working Styles:

严细实快精益求精  
Be Serious, Careful, Realistic, Quick, and Get the Best and the most Perfect.

### 管理理念/Management Idea:

以人为本，以法治企，保证稳定，追求高效  
People first, govern by law, ensure stability and pursue efficiency.

### 安全理念/Safety Idea:

安全第一，预防为主，关爱自己，关爱他人  
Safety first, prevention first, cares for yourself and others.

### 质量理念/Quality Idea:

满足顾客对产品和服务的需求是我们不懈的追求。  
Make unremitting efforts for meeting customer requirements of product and service.

### 发展目标/Developing Goal:

提升装备水平，调整产品结构，增强企业综合竞争力，实现新的发展。  
Equip with the up-to-date facilities, Optimize the products structure, Enhance the competitive ability and Realize the new development.

### 产品结构/Products Structure:

套管和油管、高压锅炉管为主，其他普管为辅。  
Casing and Tubing and the pipes for high pressure boiler are the main products and the other pipes for various purposes are also manufactured.

