

专业源于专注

技术领先 质量稳定 服务高效

Professionalism stems from concentration

Advanced Technology Stable Quality Efficient Service



为全球高端工业领域 提供优质可靠的特材管道解决方案

Providing high-quality and reliable special material pipeline solutions for the global high-end industrial fields.

浙江镇田钛锆镍金属制造有限公司

Zhejiang Jhenten Titanium, Zirconium & Nickel Metal Manufacturing Co., Ltd.

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Address of Headquarters: No.808 Haitong Road, Binhai Development Zone, Wenzhou Economic and Technological Development Zone, Zhejiang Province, China

工厂地址: 浙江省温州市瑞安市莘塍街道望海路2555号

Factory address: No.2555, Wanghai Road, Xicheng Street, Ruian City, Wenzhou, Zhejiang Province, China

现货仓库: 陕西省宝鸡市渭滨区郭家村商务楼东门

Spot Warehouse: East Gate of Guojia Village Commercial Building, Weibin District, Baoji City, Shaanxi Province, China

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Company Profile

— 公司概况

浙江镇田钛锆镍金属制造有限公司（简称“镇田”）是一家专注于特种金属焊管及管件研发、生产与销售的高新技术企业，致力于为全球高端工业领域提供优质可靠的特材管道解决方案。

Zhejiang Jhenten Titanium, Zirconium & Nickel Metal Manufacturing Co., Ltd. ("Jhenten" for short) is a high-tech enterprise specializing in the R&D, production, and sales of special metal welded pipes and fittings. We are dedicated to providing robust and reliable specialty piping solutions for high-end industrial sectors worldwide.



焊管车间：10,000平方米
Welded Pipe Workshop: 10,000 square meters

10,000 m²



现货仓库：陕西宝鸡（“钛谷”）
Spot Warehouse: Baoji, Shanxi ("Titanium Valley")

陕西·宝鸡



员工数量：45人
Number of Employees: 45

45



年产能：钛管3,000-4,000吨
Annual Capacity: 3,000-4,000 tons of titanium tubes

4,000 t



镇田将“连续在线生产”理念引入特种金属材料焊管行业，首创大口径钛材管道全自动化连续制管生产线，填补了钛镍锆合金焊管连续生产的世界空白。

镇田专业从事钛、锆、镍、哈氏合金等特种金属焊管、管件（弯头、法兰、三通等）的研发、生产、销售。

Jhenten introducing the concept of "continuous online production" into the special metal material welded pipe industry. It took the lead in developing a fully automated continuous pipe-making production line for large-diameter titanium pipes, filling the global gap in the continuous production of titanium, nickel and zirconium alloy welded pipes.

Jhenten is specialized in the research and development, production, sales of special metal welded and pipe fittings (such as elbows, flanges, tees) made of titanium, zirconium, nickel, Hastelloy and other materials.



Corporate Culture

— 企业文化



使命： 为全球高端工业领域提供优质可靠的特材管道解决方案

Mission: Providing high-quality and reliable special material pipeline solutions for the global high-end industrial fields.



愿景： 成为特种金属材料行业管道及管件产品的主力生产商、现货库存商、安装服务商

Vision: becoming a leading manufacturer, spot stockist and installation service provider of pipes and pipe fittings in the special metal material industry.



核心价值观： 团结 高效 精工 创新

Core Value: Unity, Efficiency, Exquisite craftsmanship, Innovation

Certification

— 资质认证

- ◎ASME认证
- ◎ASME Certification
- ◎中华人民共和国特种设备生产许可证（TSG D7002-2003）
- ◎Special Equipment Manufacturing License of the People's Republic of China (TSG D7002-2003)
- ◎欧盟PED/CE认证
- ◎EU PED / CE Certification
- ◎质量管理体系认证（ISO 9001）
- ◎Quality Management System Certification (ISO 9001)
- ◎环境管理体系认证（ISO 14001）
- ◎Environmental Management System Certification (ISO 14001)
- ◎职业健康安全管理认证（ISO 45001）
- ◎Occupational Health and Safety Management System Certification (ISO 45001)
- ◎特种设备型式试验证书（压力管道元件）
- ◎Special Equipment Type Test Certificate (Pressure Piping Components)



Core Advantage

— 核心优势与实力

技术与产能优势 Technological and Production Capacity Advantages

公司拥有行业首创的钛焊管自动连续制管生产线，采用国际先进的等离子+氩弧焊（P+T）直缝焊接技术，实现Φ57mm-377mm、壁厚2-14mm焊管的全流程自动化。

同时配备5000吨6米折弯制管机等大型离线设备，可生产直径133mm-4000mm、壁厚3-60mm的大口径管道及复杂管件。

首创卷带自动制管工艺，大幅提升产能与质量。在温州、宝鸡两地仓库常备约500吨现货库存，覆盖烧碱和PTA行业70%的常用规格，能够实现快速交付。

The company owns the industry's first automatic continuous production line for titanium welded pipes, adopting advanced plasma + TIG (P+T) straight seam welding technology, enabling full-process automation for pipes with diameters of Φ57mm-377mm and wall thicknesses of 2-14mm.

It is also equipped with large offline equipment such as a 5000-ton 6-meter bending and pipe-making machine, capable of producing large-diameter pipes (Φ133mm-4000mm, wall thickness 3-60mm) and complex fittings.

By pioneering the tape automatic tube-making process, the company has greatly enhanced both capacity and quality. With warehouses in Wenzhou and Baoji maintaining about 500 tons of regular stock, 70% of commonly used specifications for the caustic soda and PTA industries can be delivered immediately.



产品质量与检测管理 Product Quality, Testing, and Management

公司建立了完善的质量保障体系，配备射线探伤、超声波检测、万能材料试验机、低温冲击试验机、金相显微镜、光谱仪等全套设备，严格执行国标（GB/T3625/26057）及美标（ASTM B338/B862）。

所有A/B类焊缝均进行100%无损检测（射线RT II级、渗透PT I级），确保出厂产品稳定可靠。

The company has established a comprehensive quality assurance system, equipped with radiographic testing, ultrasonic inspection, universal material testing machines, low-temperature impact testers, metallographic microscopes, spectrometers, and other advanced facilities. It strictly follows both Chinese standards (GB/T3625/26057) and American standards (ASTM B338/B862).

All Class A/B welds undergo 100% non-destructive testing (RT Level II radiographic and PT Level I penetrant testing) to ensure stable and reliable product quality.



X 射线房
Radiography Room



万能试验机
Universal Testing machine



光谱仪
Spectrometer



探伤室
Radiography Test Cell



探伤检验
Nondestructive Testing

产品管口圆度高，现场安装射线探伤合格率优异，可定制6-18米长直焊管道，减少现场焊缝。交付前统一进行酸洗或超声波清洗，呈银白色，避免缺陷被掩盖。

工厂三区分明，洁净度高，专注钛、镍、锆管件生产，严格控制铁离子污染。原料均来自一线大厂或客户指定渠道，核心团队具备多年特材生产与管理经验，熟悉国际标准。

Pipes feature high roundness with excellent qualification rates in on-site radiographic inspection. Customizable lengths of 6-18 meters reduce on-site welds. Before delivery, all surfaces are pickled or ultrasonically cleaned to a silvery-white finish, preventing defects from being concealed.

The factory is managed with three clearly divided zones, maintaining high cleanliness standards. It focuses on titanium, nickel, and zirconium pipe fittings while strictly controlling the risk of iron ion contamination. Raw materials are sourced from major manufacturers or customer-designated suppliers, and the core team has many years of experience in special materials production management and is well-versed in international standards.

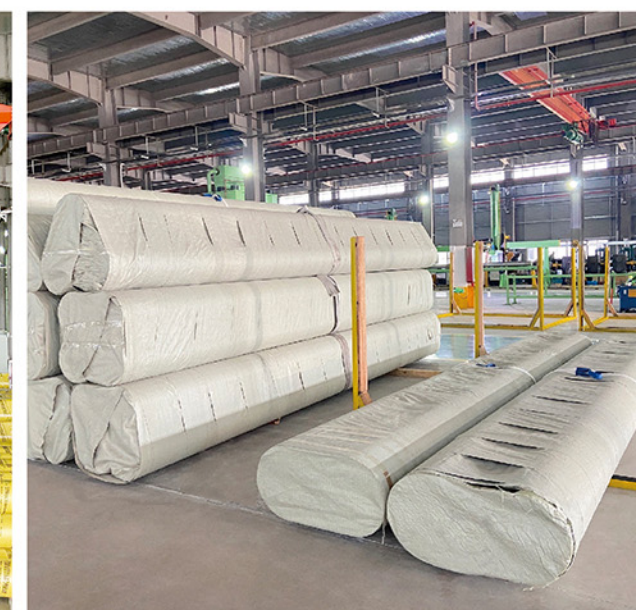
专业服务能力 Professional Service Capabilities

高度自动化的生产体系，能够灵活响应技改、增补等紧急定制订单。

在交付方面，公司根据项目地点制定包装与运输方案，专车保险配送，并提供存放指导，确保客户项目安全、可靠、无后顾之忧。

The highly automated production system enables flexible responses to urgent customized orders such as technical modifications and supplements.

For delivery, the company tailors packaging and transportation plans to project locations, provides dedicated insured vehicles, and offers storage guidance—ensuring safe, reliable, and worry-free project execution for customers.



Product System

— 产品体系

主要材质 Main Materials

钛及钛合金、锆、镍及镍合金（如哈氏合金）、特殊合金
Titanium and Titanium alloys, Zirconium, Nickel and Nickel alloys(e.g. Hastelloy), and special alloys.

加工能力 Processing Capabilities

涵盖直缝焊管、大口径管、弯管及各类管件的成型、焊接、校圆、矫直等
Cover forming, welding, rounding, straightening, etc., for straight seam welded pipes, larger-diameter pipes, bent pipes and various pipe fittings.

产品类别 Product Categories



◎焊管

连续生产线产品：直径Φ57mm-377mm，壁厚2-14mm

离线大口径产品：直径Φ133mm-4000mm，壁厚3-60mm

◎Welded Pipes

Continuous production line products: diameter Φ57mm-377mm, wall thickness 2-14mm

Offline large-diameter products: diameter Φ133mm-4000mm, wall thickness 3-60mm



◎管件

弯头、法兰、三通、异径管、管帽等

可按需定制各种规格与材质

◎Pipe Fittings

Elbows, flanges, tees, reducers, caps, etc.

Customizable in various specifications and materials as required.

核心产品 Core Products

钛焊管 Titanium Welded Pipes

◎轻量化 ◎耐腐蚀
Lightweight and corrosion-resistant

镍焊管 Nickel Welded Pipes

◎适配高温严苛工况
Adaptable to high-temperature harsh working conditions

Titanium Welded Pipes

— 钛焊管

◎轻量化 ◎耐腐蚀
Lightweight and corrosion-resistant



核心优势 Core Advantages



◎卓越耐腐蚀性 (Excellent Corrosion Resistance)
在氧化性介质、海水、氯离子环境中，抗腐蚀性能远超不锈钢，使用寿命提升3倍以上
In oxidizing media, seawater, and chloride ion environments, its corrosion resistance far exceeds that of stainless steel, with a service life increased by more than 3 times.



◎高强度轻量化 (High Strength and Lightweight)
密度仅为钢的60%，强度比达传统金属材料最优，显著降低设备载荷与能耗
Density is only 60% of steel, with the optimal strength-to-weight ratio among traditional metal materials, significantly reducing equipment load and energy consumption.



◎工艺创新保障 (Process Innovation Guarantee)
采用等离子+氩弧焊 (P+T) 复合焊接技术，实现焊缝无氧化、气孔率<0.5%
Adopts plasma+TIG(P+T) composite welding technology, achieving weld non-oxidation and porosity<0.5%.

典型应用 Typical Applications



海水淡化 (Seawater Desalination)

耐海水冲刷腐蚀，适配蒸发器、冷凝器管道系统
Resistant to seawater erosion, suitable for evaporator and condenser pipe systems.



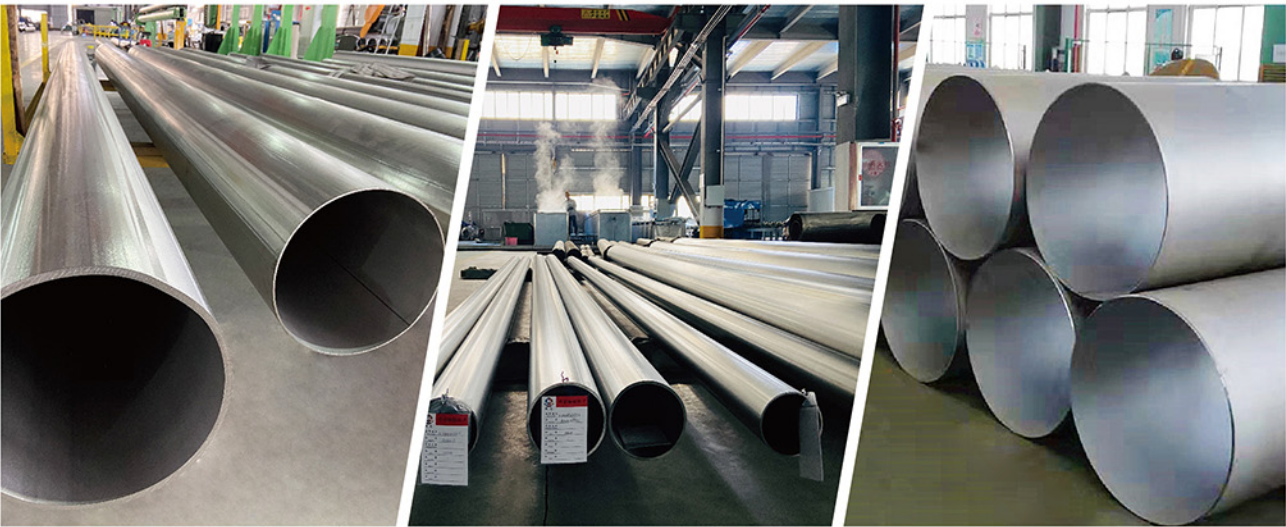
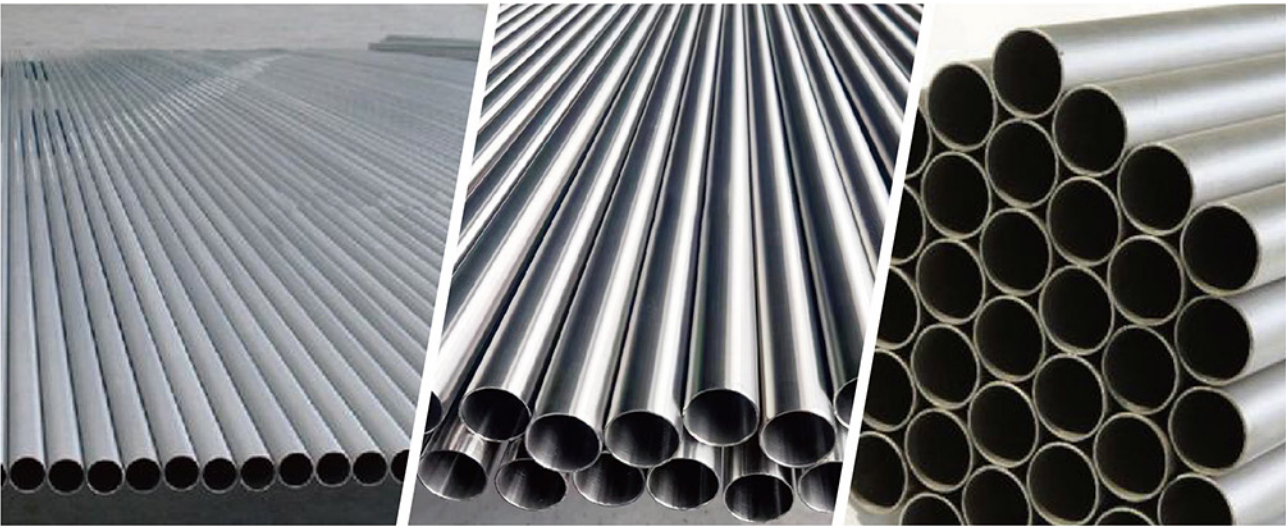
航空航天 (Aerospace)

满足减重要求，用于燃油/液压管路 (工作温度：-250℃~600℃)
Meets weight reduction requirements, used in fuel/hydraulic pipelines (operating temperature: -250℃~600℃)



医疗食物 (Medical and Food Industries)

生物相容性优异，符合FDA认证，用于无菌输送管道
Excellent bio-compatibility, compliant with FDA certification, used in sterile delivery pipelines.



Nickel Welded Pipes

— 镍焊管

◎ 适配高温严苛工况

Adaptable to high-temperature harsh working conditions



核心优势 Core Advantages



◎ 极端环境适应性 (Adaptable To Extreme Environment)

耐受强酸（硫酸/盐酸）、高温（ $\leq 1200^{\circ}\text{C}$ ）及还原性介质，哈氏合金系列抗点蚀指数PREN > 65

Resistant to strong acids (sulfuric acid/hydrochloric acid), high temperature ($\leq 1200^{\circ}\text{C}$), and reducing media; the pitting resistance equivalent number (PREN) of Hastelloy series exceed 65.



◎ 定制化生产能力 (Customized Production Capacity)

支持超大口径（至4000mm）与壁厚（至60mm）定制，满足重化工装置集成需求

Supports customization of extra-large diameters (up to 4000mm) and wall thickness (up to 60mm) to meet the integration needs of heavy chemical equipment.



◎ 全流程质控体系 (Full-Process Quality Control System)

100%射线探伤（RT II级）+ 晶间腐蚀测试，杜绝应力腐蚀开裂风险

100% radiographic testing (RT Level II) + intergranular corrosion testing to eliminate the stress corrosion cracking.

典型应用 Typical Applications



化工核心装置 (Core Chemical Equipment)

PTA反应器、烧碱蒸发器、醋酸合成塔等
高温高压管道

High-temperature and high-pressure pipelines for PTA reactors, caustic soda evaporators, acetic acid synthesis towers, etc.



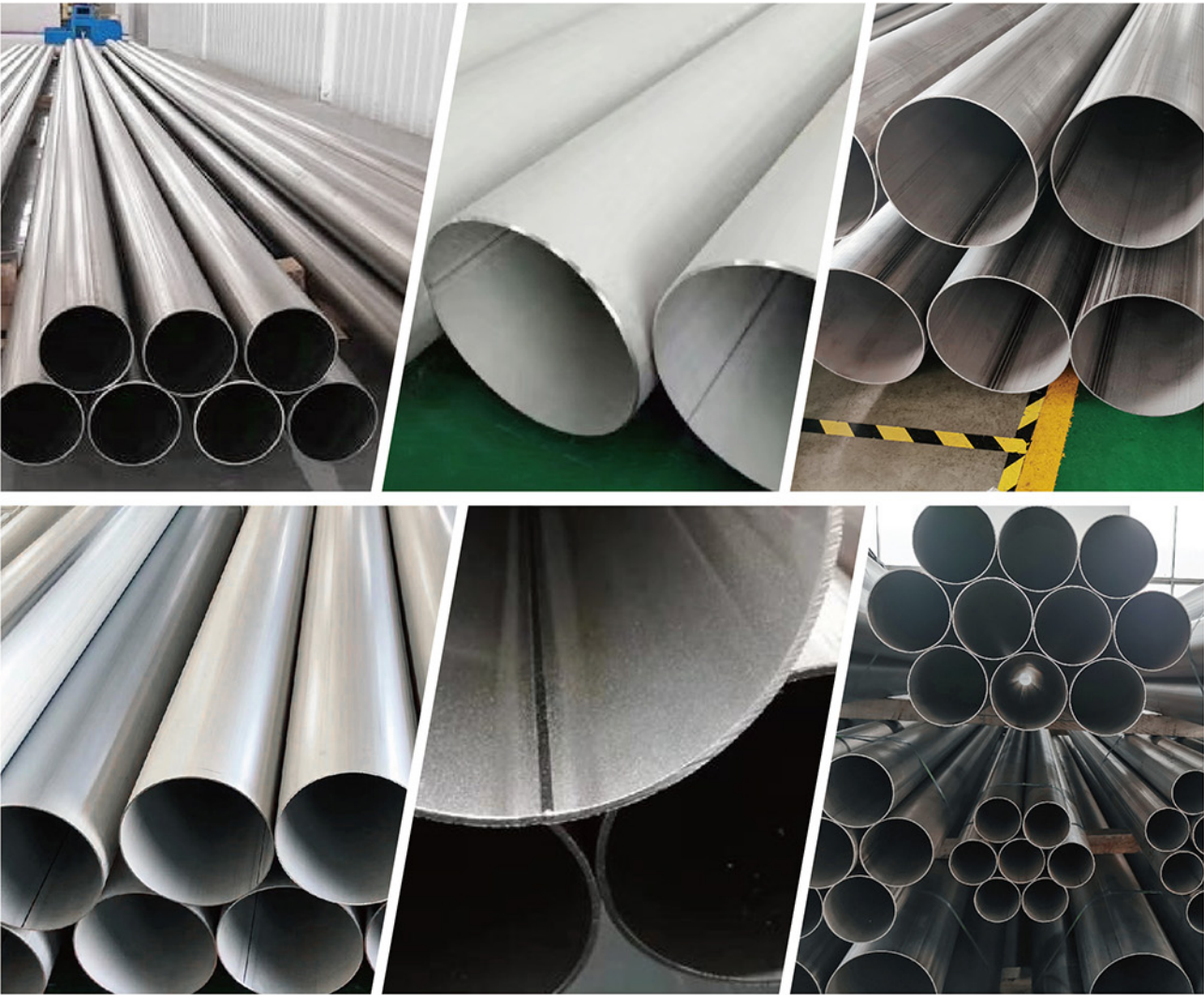
新能源制氢 (New Energy Hydrogen Production)

电解槽耐碱腐蚀管路，使用寿命 > 15 年
Alkali-resistant pipelines for electrolyzers, with a service life > 15 years.



核电辅机系统 (Nuclear Power Auxiliary System)

核级镍基合金管道，通过ASME III认证
Nuclear-grade nickel-based alloy pipes, certified by ASME III.



Pipe Fittings

— 管件



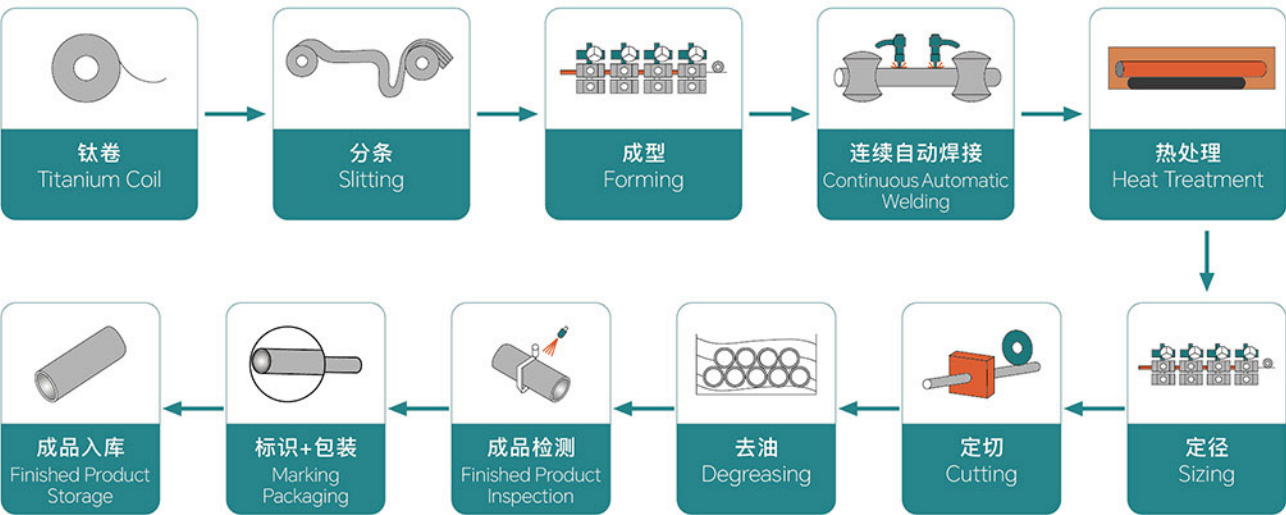
Pipe Nominal Diameter And Outer Diameter,Thickness Table

— 管道公称直径与外径、厚度对照表

公称直径 Nominal diameter	外径 Outer diameter (mm)		壁厚 Wall thickness (mm)				
	国际通用 Internationally Universal	国内通用 Domestically Universal	SCH 5S	SCH 10S	SCH 20S	SCH 40S	SCH 80S
10	17.2	14	1.2	1.6		2.3	3.2
15	21.3	18	1.6	2.0		2.9	3.6
20	26.9	25	1.6	2.0		2.9	4.0
25	33.7	32	1.6	2.9		3.2	4.5
32	42.4	38	1.6	2.9		3.6	5.0
40	48.3	45	1.6	2.9		3.6	5.0
50	60.3	57	1.6	2.9	3.2	4.0	5.6
65	76.1	76	2.0	3.2	4.5	5.0	7.1
	73.0						
80	88.9	89	2.0	3.2	4.5	5.6	8.0
100	114.3	108	2.0	3.2	5.0	6.3	8.8
125	139.7	133	2.9	3.6	5.0	6.3	10.0
	141.3						
150	168.3	159	2.9	3.6	5.6	7.1	11.0
200	219.1	219	2.9	4.0	6.3	8.0	12.5
250	273.0	273	3.6	4.0	6.3	8.8	12.5
300	323.9	325	4.0	4.5	6.3	10.0	12.5
350	355.6	377	4.0	5.0	8.0	12.0	
400	406.4	426	4.0	5.0	8.0	12.0	
450	457	480	4.0	5.0	8.0	14.0	
500	508	530	5.0	6.0	10.0	16.0	
600	610	630	6.0	6.0	10.0	18.0	
700	711	720	6.0	7.0	12.0	20.0	
800	813	820	7.0	8.0	12.0	22.0	
900	914	920	8.0	9.0	14.0	25.0	
1000	1016	1020	9.0	10.0	14.0	28.0	

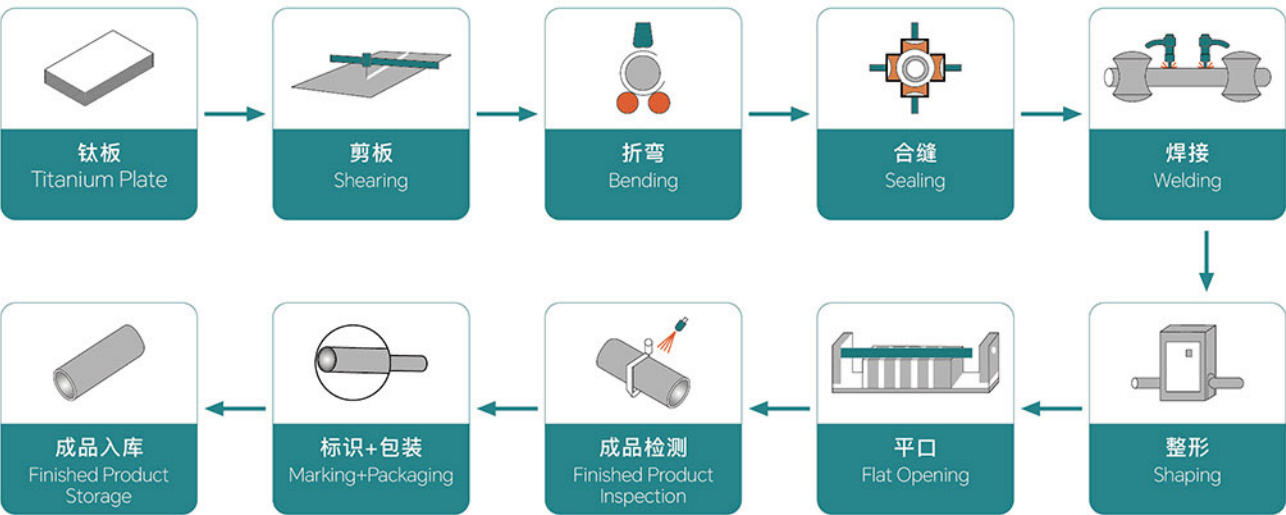
Continuous Production Line Process Flow Chart

— 连续生产线工艺流程图



Offline Production Process Flow Chart

— 离线生产工艺流程图



Service Industry

— 服务行业

公司产品广泛应用于对材料耐腐蚀性、强度有严苛要求的高端工业领域，例如：

The company's products are widely in high-end industrial fields with strict requirements for material corrosion resistance and strength, such as:

- ◎海水淡化
 - ◎烧碱、PTA、电解水制氢、醋酸、农化、医药等化工行业
 - ◎核电
 - ◎航空航天
 - ◎电力工程
 - ◎环保设备（如水处理）
 - ◎食品工业
 - ◎换热器
- ◎Seawater desalination
 - ◎Chemical industries (caustic soda, PTA, electrolytic water hydrogen production, acetic acid, agrochemical, pharmaceuticals, etc.)
 - ◎Nuclear power
 - ◎Aerospace
 - ◎Power engineering
 - ◎Environmental protection equipment (e.g., water treatment)
 - ◎Food industry
 - ◎Heat exchanger



Cooperative Customers

— 合作客户

宝钛集团、宝色股份、湖北宜化、湖北兴发、天津渤化、唐山三友、龙山管业、可赛化工、八一化工、东南电化、中化二建等国内外知名企业，服务众多大型烧碱、造纸、化工项目。

Well-known domestic and foreign enterprises such as Baoti Group, Baose Co.,Ltd., Hubei Yihua, Hubei Xingfa, Tianjin Bohua, Tangshan Sanyou, Longshan Pipe Industry, Kesai Chemical, Bayi Chemical, Southeast Electrochemical and Sinochem Second Construction have served numerous large-scale caustic soda, papermaking and chemical project.

