



德質譽一派 · 鋼管通世界
THE HIGHEST QUALITY, THE NEAREST

epai[®]
INOX

A global leading
stainless steel pipe & tube
manufacturer.



NEWHUABAO (Hong Kong) Hardware Manufacturing Co., Ltd.
Foshan E-PAI Metal Products Co., Ltd.
EPAINOX Technology (GuangDong) Manufactures Co., Ltd.
Tel:+86-757-85751892 / 85751893
Mobile:+86-13226725491
E-mail:manager@epai-hardware.com
service@epai-hardware.com
Web:www.epai-hardware.com

FOSHAN E-PAI METAL PRODUCTS CO., LTD.

ABOUT EPAI

ASTM A554, JIS G3446, and CNS 5802 tubes are excellent structural stainless steel tubes for using in ornamental, structural, exhaust, and other applications where appearance, mechanical properties or corrosion resistances are required.

Our products are made with Austenitic series stainless steel with optional grades in MT-304, MT-304L or MT-316L.

We offer a wide range of stainless steel tube sizes, the outside diameters mainly range from 9.5 mm to 203.2 mm.

Because stainless steel tubes are highly cost-effective, they are usually favored for constructing residential, commercial, and industrial projects. Stainless steel tubes can be used in guardrails and stair handrails, plumbing applications, irrigation, food and beverage processing/handling, structural applications, and even furniture.

E-PAI INOX CO., LTD is a global leading stainless steel pipe & tube manufacturer.

Our professional manufacturing and engineering teams offer products with excellent and consistent quality to our clients all around world.

Our prompt after-sales services can always be relied on by our customers.

Our punctual delivery time makes stock control easy for our customers.

We offer product with tolerance complies with the norm (Specific tolerance requirement is possible. Please contact our sales specialists).

Specific mechanical tests are negotiable between seller and buyer.

Bundle packing or steel crate packing is available in accordance with clients' preference

E-PAI INOX, your best choice of stainless steel.

EPAI: Quality First with ISO 9001 Management System and SGS Gold Supplier Certification

With a belief that quality is the cornerstone of our existence, epai has embodied the motto 'epai stands for quality first' since 1997. Over the past 30 years, we have embraced every customer requirement as our responsibility. Operating under the ISO 9001 quality management system, epai has been recognized as a 'Gold Supplier' by the internationally renowned SGS institution. Additionally, we boast numerous product patents and certifications for product testing, solidifying our commitment to excellence."



The Patent Certificates for Some of Our Products



100% Bendable Authentic Stainless Steel



100% Bendable Authentic Stainless Steel

Authentic stainless steel:

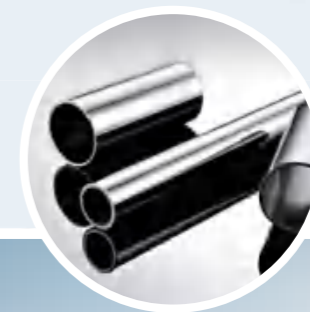
304 composition: 8% Nickel, 18% Chromium.

Precision-crafted:

Tolerance of $\pm 0.02\text{mm}$ for accurate dimensions.

ASTM A554 Welded Tubes

20 Years of Excellence,
Exported Across Four Continents to Over 100 Countries,
Exceeding 13, 000 Tons Annually!

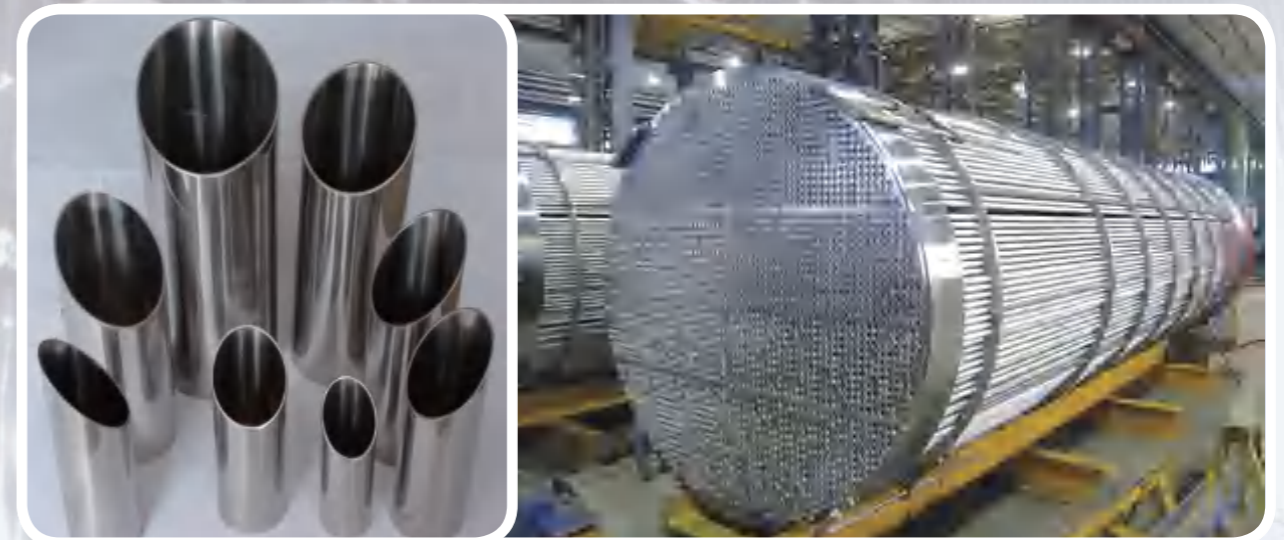


Welding will be handled by our senior professionals.

Welded Austenitic Sanitary
Tubing, Tubes for Boiler,
Heat-Exchanger,
General Service Tubing

ASTM A270 ASTM A269

Years of experience and innovation had been put into developing sanitary tubing technology. The same technology is then applied in the manufacturing of tubes for boilers, heat exchangers and general service tubing purposes.



STAINLESS STEEL PIPE SPECIFICATION SHEET

不锈钢管参数表

Stainless Steel Standards of Different Countries 各国不锈钢标准牌号对照表

GB 中国	JIS 日本	ISO 国际标准	ASTM 美国	UNS 美国	BS 英国	EN 欧洲	NFA 法国
12Cr17Mn6Ni5N	SUS201	—	201	S20100	—	1.4372/X12CrMnNiN17-7-5	—
12Cr18Mn9Ni5N	SUS202	—	202	S20200	—	1.4373/X12CrMnNiN18-9-5	—
06Cr19Ni10	SUS304	11	304	S30400	304S15	1.4301/X5CrNi18-10	Z6CN18.09
022Cr19Ni10	SUS304L	10	304L	S30403	304S12	1.4307/X2CrNi18-9	Z2CN18.09
06Cr17Ni12Mo2	SUS316	20.20a	316	S31600	310S16	1.4401/X5CrNiMo17-12-2	Z6CND17.12
022Cr17Ni12Mo2	SUS316L	19.19a	316L	S31603	316S12	1.4404/X2CrNiMo17-12-2	Z2CND17.12

Stainless Steel Pipe Weight Calculation Formula 不锈钢管重量计算公式

Type 钢种	Density(q/cm^3) 密度	Calculation Method 计算方法
ASTM 美标		
201, 202, 304, 304L	7.93	$W=0.02491 \cdot t^2 \cdot (D-t)$
316, 316L	7.98	$W=0.02507 \cdot t^2 \cdot (D-t)$

W: Weight重量(kg/m) D: Outside Diameter外径(mm) t: Wall Thickness壁厚(mm)



Chemical Composition of Stainless Steel 不锈钢化学成分表

Standard 标准	Chemical Composition 化学成分 (%)									
	C(碳)	Si(硅)	Mn(锰)	P(磷)	S(硫)	Ni(镍)	Cr(铬)	Mo(钼)	N(氮)	
ASTM 美标	304	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	8.0-11.0	18.0-20.0	—	≤ 0.11
	304L	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	8.0-13.0	18.0-20.0	—	≤ 0.11
	316	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	10.0-14.0	16.0-18.0	2.0-3.0	≤ 0.11
	316L	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	10.0-14.0	16.0-18.0	2.0-3.0	≤ 0.11
JIS 日标	SUS304	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	8.0-11.0	18.0-20.0	—	—
	SUS304L	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	9.0-13.0	18.0-20.0	—	—
	SUS316	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	10.0-14.0	16.0-18.0	2.0-3.0	—
	SUS316L	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	12.0-16.0	16.0-18.0	2.0-3.0	—
GB 国标	06Cr19Ni10	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	8.0-11.0	18.0-20.0	—	—
	022Cr19Ni10	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	8.0-12.0	18.0-20.0	—	—
	06Cr17Ni12Mo2	≤ 0.08	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	10.0-14.0	16.0-18.0	2.0-3.0	—
	022Cr17Ni12Mo2	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.03	10.0-14.0	16.0-18.0	2.0-3.0	—
EN 欧标	X5CrNi18-10\1.4301	≤ 0.07	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.015	8.0-10.5	17.0-19.5	—	≤ 0.11
	X2CrNi18-9\1.4307	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.015	8.0-10.0	17.5-19.5	—	≤ 0.11
	X5CrNiMo17-12-2\1.4401	≤ 0.07	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.015	10.0-13.0	16.5-18.5	2.0-3.0	≤ 0.11
	X2CrNiMo17-12-2\1.4404	≤ 0.03	≤ 1.00	≤ 2.00	≤ 0.045	≤ 0.015	10.0-13.0	16.5-18.5	2.0-2.5	≤ 0.11

Stainless Steel Mechanical Properties 不锈钢机械性质

Standard 标准	Tensile Strength 抗拉强度	Yield Strength 屈服强度	Elongation 伸长率	Hardness 硬度	Characteristic 特性	
	Kgf/mm ² (N/mm ²)	Kgf/mm ² (N/mm ²)	%	HRB(HV)		
ASTM 美标	TP304	≥ 53 (515)	≥ 21 (205)	≥ 35	≤ 90 (200)	304 Anti-general acid and heat 抗一般酸及热
	TP304L	≥ 50 (485)	≥ 17 (170)	≥ 35	≤ 90 (200)	
	TP316	≥ 53 (515)	≥ 21 (205)	≥ 35	≤ 90 (200)	
	TP316L	≥ 50 (485)	≥ 17 (170)	≥ 35	≤ 90 (200)	
JIS 日标	SUS304	≥ 53 (520)	≥ 21 (205)	≥ 35	≤ 90 (200)	304L Strong corrosion resistance And high temperature 耐腐蚀性强 及耐高温
	SUS304L	≥ 49 (480)	≥ 18 (175)	≥ 35	≤ 90 (200)	
	SUS316	≥ 53 (520)	≥ 21 (205)	≥ 35	≤ 90 (200)	
	SUS316L	≥ 49 (480)	≥ 18 (175)	≥ 35	≤ 90 (200)	
GB 国标	06Cr19Ni10	≥ 53 (520)	≥ 21 (210)	≥ 35	≤ 90 (200)	316 resistant to grain boundary Corrosive 耐晶界腐蚀性
	022Cr19Ni10	≥ 49 (480)	≥ 18 (180)	≥ 35	≤ 90 (200)	
	06Cr17Ni12Mo2	≥ 53 (520)	≥ 21 (210)	≥ 35	≤ 90 (200)	
	022Cr17Ni12Mo2	≥ 59 (480)	≥ 18 (180)	≥ 35	≤ 90 (200)	
EN 欧标	X5CrNi18-10\1.4301	(500~700)	≥ 20 (195)	≥ 40	≤ 90 (200)	316L resistant to grain boundary corrosion High temperature to 650 ° C 耐晶界腐蚀性 耐高温至 650 ° C
	X2CrNi18-9\1.4307	(470~670)	≥ 18 (180)	≥ 40	≤ 90 (200)	
	X5CrNiMo17-12-2\1.4401	(510~710)	≥ 21 (205)	≥ 40	≤ 90 (200)	
	X2CrNiMo17-12-2\1.4404	(490~690)	≥ 19 (195)	≥ 40	≤ 90 (200)	

QUALITY COMPARISON

产品质量对比

EPAI Tube

Other defective pipe



PERFECT

完美

CRACK, PERFORATION

裂纹, 穿孔



PERFECT

完美

BURRS

管口毛刺



PERFECT

完美

ROUGH SURFACE, LOW BRIGHTNESS

纹路不细致, 亮度不够

STAINLESS STEEL PIPE

不锈钢管

Product Features 产品特性

Usually stainless steel pipe has three characteristics: weldability, corrosion resistance, polishing performance (BQ)

通常不锈钢管都有三种特性: 焊接性、耐腐蚀性、抛光性能 (BQ 性)

Weldability / 焊接性

The use of different products on the welding performance requirements are also different. A class of utensils on the welding performance is generally not required, and even part of the pot business. But the vast majority of products require good raw material welding performance, like two types of tableware, insulation Cup, steel, water heaters, drinking fountains and so on.

产品用途的不同对焊接性能的要求也各不相同。一类餐具对焊接性能一般不做要求, 甚至包括部分锅类企业。但是绝大多数产品都需要原料焊接性能好, 象二类餐具、保温杯、钢管、热水器、饮水机等。

Corrosion resistance / 耐腐蚀性

Most of the stainless steel products require good corrosion resistance, stainless steel tube like one, two types of tableware, kitchen utensils, water heaters, drinking fountains, etc., some foreign businessmen also do corrosion resistance test products: NACL aqueous solution heated to boiling, (Note: when the product is polished, due to emery or sandpaper contains Fe composition, will lead to the test surface rust), the amount of corrosion,

绝大多数不锈钢制品要求耐腐蚀性能好, 不锈钢管象一、二类餐具、厨具、热水器、饮水机等, 有些国外商人对产品还做耐腐蚀性能试验: 用 NACL 水溶液加热到沸腾, 一段时间后倒掉溶液, 洗净烘干, 称重量损失, 来确定受腐蚀程度 (注意: 产品抛光时, 因砂布或砂纸中含有 Fe 的成分, 会导致测试时表面出现锈斑)

Polishing performance / 抛光性能 (BQ 性)

Stainless steel products in the production are generally polished after this process, only a few products such as water heaters, water dispenser liner and so do not need to polish. So this requires a good polishing performance of raw materials. Factors affecting the performance of the main polishing are the following:

- ① raw material surface defects. Such as scratches, pitting, pickling and so on.
- ② stainless steel pipe material quality problems. Hardness is too low, it is not easy to polish when polished (BQ is not good), and the hardness is too low, in the deep drawing surface prone to orange peel phenomenon, thus affecting the BQ. High hardness of the BQ is relatively good.
- ③ after deep drawing of the product, the deformation of a large area of the surface will be a small black spots and RIDGING, thus affecting the BQ.

不锈钢制品在生产时一般都经过抛光这一工序, 只有少数制品如热水器、饮水机内胆等不需要抛光。因此这就要求原料的抛光性能很好。影响抛光性能的因素主要有以下几点:

- ①原料表面缺陷。如划伤、麻点、过酸洗等。
- ②不锈钢管原料材质问题。硬度太低, 抛光时就不易抛亮 (BQ 性不好), 而且硬度太低, 在深拉伸时表面易出现桔皮现象, 从而影响 BQ 性。硬度高的 BQ 性相对就好。
- ③经过深拉伸的制品, 变形量极大的区域表面也会出小的黑点和 RIDGING, 从而影响 BQ 性。

Stainless steel pipe classification 不锈钢管分类

Stainless steel seamless steel pipe and stainless steel welded pipe (with pipe) two categories, according to the different manufacturing processes can be: hot rolling, extrusion, cold drawing and cold rolling these basic types, according to cross-section shape can be divided into circles Tube and shaped tube, widely used is a round steel pipe, but there are some square, rectangular, semi-circular, hexagonal, equilateral triangle, octagonal and other profiled stainless steel pipe.

不锈钢无缝管和不锈钢焊接管 (有缝管) 两大类, 按照制造工艺的不同可以分为: 热轧、挤压、冷拔和冷轧这几种基本类型, 按断面形状又可分为圆管和异形管, 广泛应用的是圆形钢管, 但也有一些方形、矩形、半圆形、六角形、等边三角形、八角形等异形不锈钢钢管。

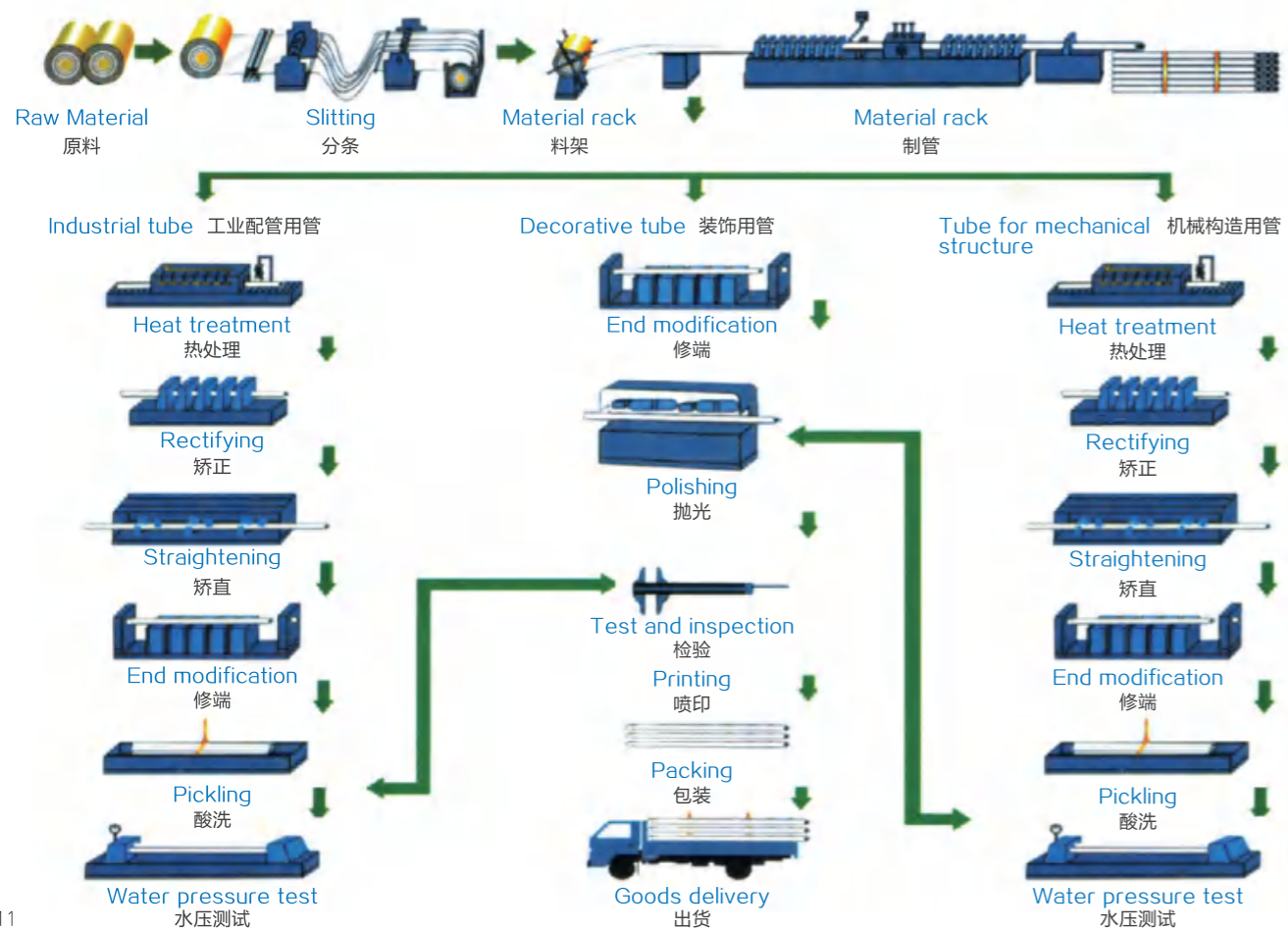
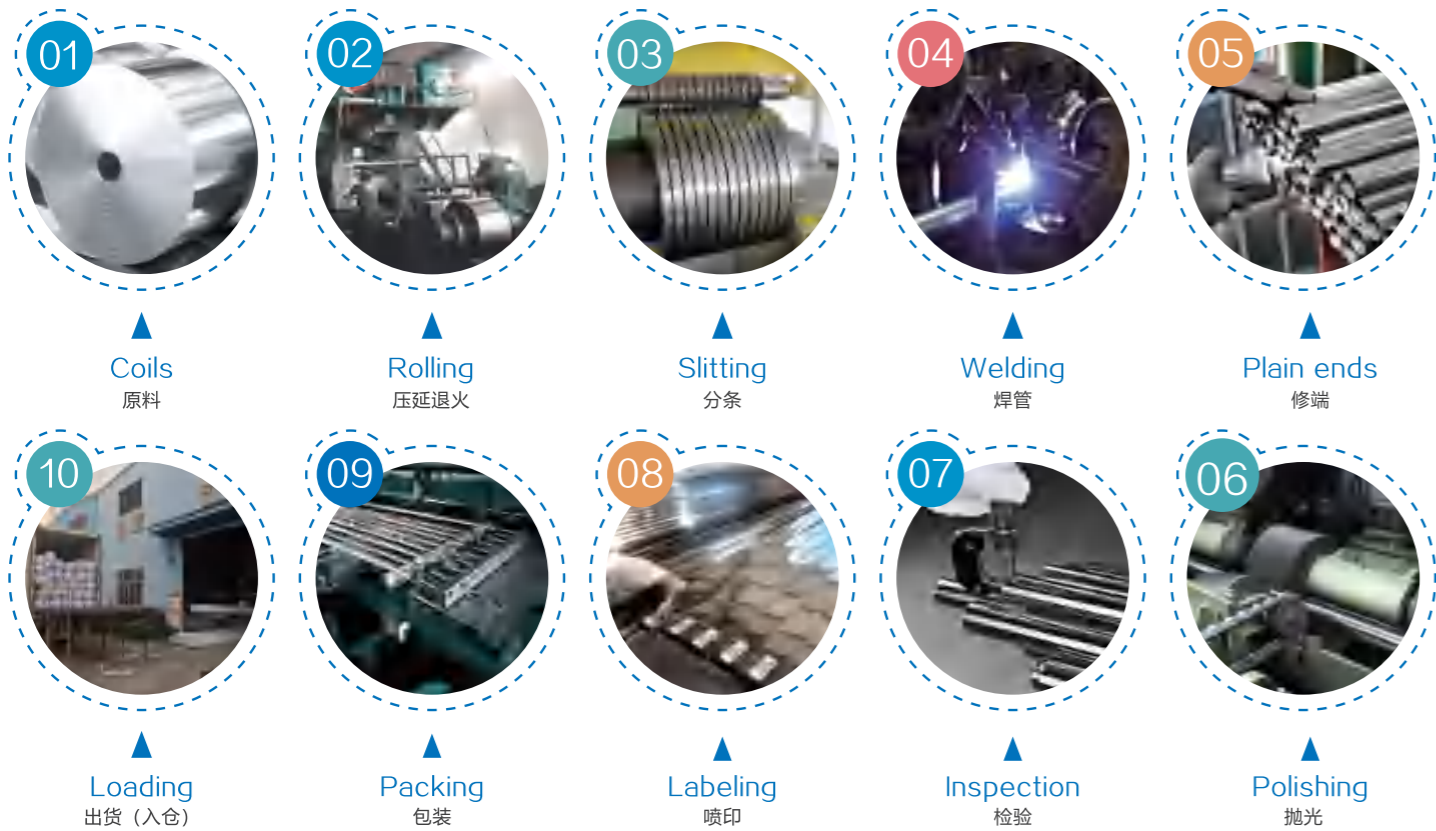
The application of stainless steel 不锈钢的应用

Stainless steel pipe is an economical section steel, is an important product in the steel industry, can be widely used in life decoration and industry, many people on the market for the production of staircase handrails, window protection, railings, furniture and so on. Common are 201 and 304 two kinds of materials.

不锈钢管是一种经济的断面钢材, 是钢铁工业中的一项重要产品, 可广泛用于生活装饰和工业, 市面上很多人用于制作 楼梯扶手、护窗、栏杆、家具等。常见的有 201 和 304 两种材质。

PIPE MANUFACTURE PROCESS

管材生产流程



TEST AND EXPERIMENT

检测与试验



CHEMICAL ANALYSIS

化学分析

Doing chemical analysis for the raw materials and adding materials of welded pipes, to ensure them comply with standard.

对焊管用原料和添加材料的化学组成，实行化学分析，保障化学成分符合标准规定。



HYDROSTATIC TEST

水压试验

For pressure resistance pipe, doing hydraulic pressure test respectively, the pipe is qualified without leakage under given pressure and within stipulated time.

对耐压用管逐支进行水压试验，在规定压力值及规定时间内，管不渗漏和不泄漏为合格。



FLATTENING TEST

压扁试验

The test is to check the strength by flattening the welding part to deformation. If the specimen withstands the specified degree of deformation without crack, then qualified.

此项试验使焊接部分承受压扁变形来检查它的强度。如果试件经得起规定变形量而不发生裂缝，检查就算合格。



CORROSION TEST

腐蚀试验

For industrial corrosion resistance stainless steel pipe, doing intergranular corrosion test for pipe and welded seam, according to the corrosion methods made by standards or bilateral agreement, shall not have intergranular corrosion tendency.

工业耐腐蚀钢管，经标准规定或双方协议的腐蚀方法，进行钢管和焊缝晶间腐蚀检验，不得有晶间腐蚀倾向。



FLARING TEST

扩口试验

The test will expand the outer diameter to 1.2 times larger, flaring part shall be free of crack.

此项试验把管口扩大到外径的 1.2 倍，扩口部分无裂缝。



NONDESTRUCTIVE TEST

无损探伤

For stress corrosion resistance stainless steel pipe for industry, doing Eddy Current test or X-ray inspection, to ensure the welded seam and the interior construction are compact and pore-free, without admixture and micro-crack. 对工业耐腐蚀压力用管，进行涡流或 X 光探伤，保证焊缝及钢材内部结构致密无气孔，夹杂、微裂纹。



FLANGING TEST

翻边试验

After flanging test, qualified specimen shall be free of crack, either on welded section or base metal.

经过翻边试验的试件，无论在焊接部分或基体金属上均无裂缝。



OTHER TESTS

其他形式试验

According to the special requirements of the users of the special methods of test.

按用户特殊要求，进行特殊方法的试验。

Automatic Precision Cold Rolling & Slitting Machine

全自动精密压延机与分条机

Product accuracy: thickness reach ± 0.02 mm, width ± 0.01 mm,

Effectively guarantee the dimension of tube.

能够把钢带厚度精确到 ± 0.02 mm, 宽度精确到 ± 0.01 mm,

有效保证钢管的尺寸。



**STAINLESS STEEL ROLLING
& SLITTING PROCESS**



Automatic high frequency water-cooled welding machine

全自动高频水冷焊机

Strict enforcement of ASTM standard, high welding strength,
Weld full, non-porosity, free of crack, suitable for tube bending.

产品严格执行 ASTM 国际标准，焊接强度高，
焊缝饱满，无裂缝，可弯曲，保证产品无损伤。

一派的每一条不锈钢管都是匠心制作。用心做，自然好。



STAINLESS STEEL

WELDED TUBE

Precision Molds

精密的模具

Each mold is made by precision lathe,
After high temperature hardening heat treatment,
To ensure the tube diameter accuracy, well-shaped and do not hurt the tube.

一派制管模具的每一个零件均由精密车床精制而成，
经高温加硬热处理，确保管的口径精准，外形规整，不伤管。



PRECISION MOLDS

16 Grinding Heads Automatic Polishing Line

16 头全自动抛光生产线

Ensure tubes have delicate surface, high brightness and smooth touching,
Satin finish 180 to 320 grit, Bright finish 500 to 600 grit(BA), Mirror 800 grit(8K),
Which is beyond industry average level and establishes the quality benchmark of "EPAI".

保证产品纹路细致，光亮度高，手感光滑，
全面达到砂光 180-320#，亮面 500-600#，镜面 8K，
高于行业平均水平，树立了“一派”品质标杆。



**STAINLESS STEEL
POLISHING**



Satin
圆砂



Hair line
拉丝



Bright
亮光



Mirror
镜面

Strict Quality Control

严格的质量管控

Every tube follows strict quality control during each process,
To meet the standard requirements and get 100% customers' satisfaction.

每一个产品每一道工序都遵循严格的质量监控，
以保证产品达到公司的质量标准，赢得客户的 100% 满意。



CHEMICAL COMPOSITION
化学成分



FLATTENING
压扁



EXPANSION
展平



BENDING
弯曲



FLARING
扩口



FLANGING
翻边



STRICT QUALITY CONTROL

Auto Packing Line

全自动打包生产线

Automatic plastic bag packaging equipment, PET strap pneumatic packing tool,

To dress up each tube a premium packaging and offer safety protection.

全自动套膜包装设备，PET 塑钢带气动打包机，

给每一根派钢管穿上一件高档的包装，

让产品从内到外都体现出一派人的精工制作。



**STAINLESS STEEL PIPES
AUTO PACKING**



Stocking / Loading

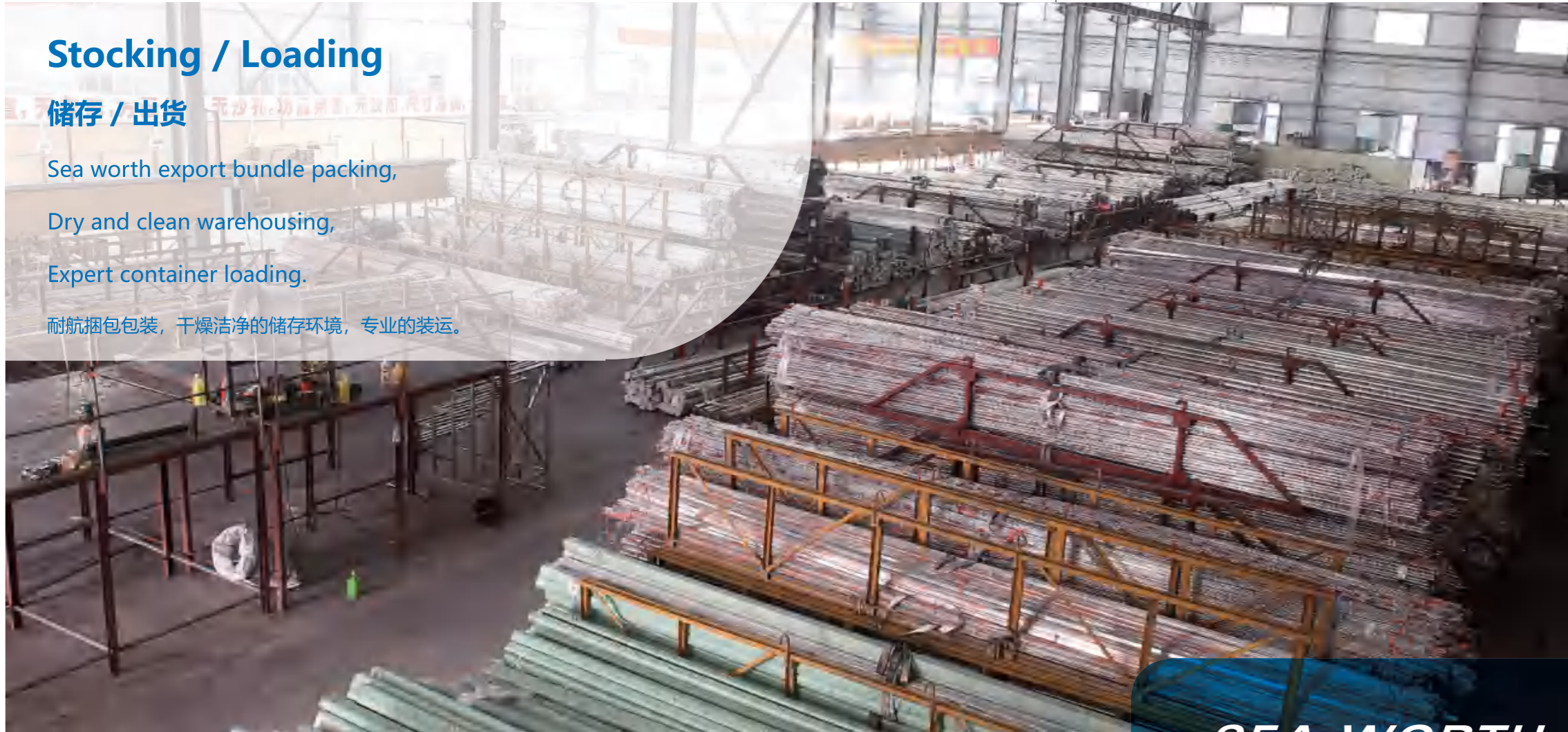
储存 / 出货

Sea worth export bundle packing,

Dry and clean warehousing,

Expert container loading.

耐航捆包包装，干燥洁净的储存环境，专业的装运。



SEA WORTH EXPORT PACKING





**20 YEARS OF EXPERTISE,
QUALITY ASSURED THROUGH
VERTICAL INTEGRATION.**

德质誉一派 · 钢管通世界

The highest quality, The nearest



Sepai
INOX

MARKETING NETWORK



68 EXPORT TO MORE THAN COUNTRIES

20 Years of Excellence, Exported Across Four Continents to Over 68 Countries, Exceeding 13,000 Tons Annually!

Sepai
INOX



"QUALITY STEMS FROM DILIGENCE,
THE JOY OF LOW PRICE IS FLEETING,
THE PAIN OF POOR QUALITY IS ENDURING.

SINCE OUR ESTABLISHMENT IN 1997, WE'VE ENGRAVED THIS IN OUR HEARTS."



"品质源于认真，
低价的喜悦转瞬即逝，
质量差的痛苦是持久的。

自1997年成立以来，我们将这一理念铭刻在心中。



STAINLESS STEEL TUBING FOR MECHANICAL AND

STRUCTURAL PURPOSES

ASTM A554,JIS G3446,CNS 5802

外徑 Outside Diameter	厚度 Thickness		0.8	0.9	1.0	1.2	1.25	1.5	1.6	2.0	2.11	2.5	3.0	4.0	5.0	
	mm	mm														
3 / 8 / -	9.5 / 10															
- / 1 / 2	12 / 12.7															
-	14 / 15															
5 / 8	15.9 / 16															
-	18															
3 / 4	19 / 19.05															
-	20															
-	21.3															
7 / 8	22 / 22.2															
1	25 / 25.4															
-	26.9															
1-1 / 8	28 / 28.6															
-	30															
1-1 / 4	31.75 / 31.8 / 32															
-	33.7															
-	35															
1-1 / 2	38 / 38.1															
- / 1- / 8	40 / 41.28															
-	42															
-	42.4															
1-3 / 4	44.45 / 44.5 / 45															
1 1/2	48.26 / 48.3															
- / 2	50 / 50.8 / 51															
2-1 / 8 / 2-1 / 4	54 / 57															
-	60.3															
2-1 / 2 / 2-3 / 4	63.5 / 70															
3	76.1 / 76.2															
3-1 / 2 / 4	88.9 / 101.6															
4-1 / 2	114.3															
5	127															
5-1 / 2	139.7															
6	152.4															
-	168.3															
8	203.2															

Remark (1)Marking:Product Spec. (2)Finish:(* :Polish#180);(△ :Polish#180/#320);(□ :Polish#180/#320/#400);(◎ :Polish#180/#320/#400/#600)

Welded Stainless Steel Sanitary Tubing, Tubes for Boiler, Heat-Exchanger & General Service Tubing

ASTM A249/A269/A270, AS 1528.1, JIS G3447/G3463, CNS 6668/7383, EN10357

外徑 Outside Diameter	厚度 Thickness		1/2	5/8	3/4	7/8	1	1 1/4	1 1/2	2	2 1/2	3	3 1/2	4	4 1/2	
	mm	Gauge														
1.2 / 1.25	- / 18		*	*	*	*	*	*	*	*	*	*	*	*	*	*
1.50	-		*	*	*	*	*	*	*	*	*	*	*	*	*	*
1.60 / 1.65	/ 16		*	*	*	*	*	*	*	*	*	*	*	*	*	*
2.00 / 2.11	/ 14		*	*	*	*	*	*	*	*	*	*	*	*	*	*

Remark (1)Marking:Product Spec.for ASTM A249/A270, AS 1528.1, JIS G3447/G3463, CNS 6668/7383, EN10357 (2)*:Product Spec.for ASTM A269

Stainless Steel Square Tubing

ASTM A554, CNS 5802

外徑 Outside Diameter	厚度 Thickness		0.8	0.9	1.0	1.2	1.25	1.5	1.6	2.0	2.5	3.0	4.0	4.57	6.0	8.0
	in	mm														
-	10.0x10.0		△	△	△	△	△	△	△							
1/2x1/2	12.7x12.7		△	△	△	△	△	△	△							
-	15.0x15.0 / 18.0x18.0		□	□	□	□	□	□	□							
3 / 4x3 / 4	19.0x19.0		□	□	□	□	□	□	□							
-	20.0x20.0		□			□				□						
7 / 8 x7 / 8	22.2x22.2															
1x1	25.4x25.4 / 25.0x25.0		□	□						□	□					
-	30.0x30.0		□	□												
1-1 / 4x1-1 / 4	31.8x31.8															
-	35.0x35.0															
1 / 2x1-1 / 2	38.1x38.1												*	*		
-	40.0x40.0															
2x2	50.8x50.8 / 50.0x50.0													*	*	*
-	60.0x60.0													*	*	*
2-1 / 2x2-1 / 2	63.5x63.5													*	*	*
-	70.0x70.0													*	*	*
3x3	76.2x76.2 / 75.0x75.0													*	*	*
-	80.0x80.0													*	*	*
-	90.0x90.0													*	*	*
-	100.0x100.0													*	*	*
4x4	101.6x101.6 / 100.0x100.0													*	*	*
-	120.0x120.0												*	*	*	*
6x6	152.4x152.4 / 150.0x150.0												*	*	*	*
8x8	203.2x203.2 / 200.0x200.0												*	*	*	*

Remark (1)Marking:(Product Spec.) (2)Finish:(* :Polish#180);(△ :Polish#180/#320);(□ :Polish#180/#320/#400)







Stainless Steel Rectangular Tubing

ASTM A554, CNS 5802

外徑 Outside Diameter	厚度 Thickness		0.8	0.9	1.0	1.2	1.25	1.5	1.6	2.0	2.5	3.0	4.0	4.57	5.0	6.0
	in	mm														
-	10x20															
-	12x25							□	□							
-	10x(30 / 40 / 50)								□							
-	15x(25 / 30) / 20x30									□	□					
3/4x1-1/2	19.05x38.1			△	△	△	△	△	△	△						
-	20x40			□					□	□						
-	22.4x28.3							□	□	□						
1x1-1 / 2	25.4x38.1 / 25x38				△	△	△	△	△	△	△					
-	30x(40 / 50)									□	□					
1x2	25.4x50.8 / 25x50							□	□	□	□					
-	30x60				□	□	□	□	□	□	□		*	*	*	
1x3	25.4x76.2 / 25x75							□	□	□	□					
-	20x(60 / 80)								□	□	□					
-	40x60					□			□	□	□					
-	40x80 / 45x75												*	*	*	
-	45x95 / 50x100												*	*	*	*
2x(3 / 4)	50.8x(76.2 / 101.6)								□	□	□	□	*	*	*	*
2x6	50.8x152.4 / 50x150												*	*	*	*
-	60x120												*	*	*	*
4x6	101.6x152.4 / 100x150												*	*	*	*
4x8	101.6x203.2 / 100x200												*	*	*	*

Remark (1)Marking:(Product Spec.) (2)Finish:(* :Polish#180);(△ :Polish#180/#320);(□ :Polish#180/#320/#400)

Oval Tube 椭圆管 / Slot Tube 凹槽管

Type 类别	Shape 外形	Size(mm) 规格	Type 类别	Shape 外形	Size(mm) 规格	Slot Width X Depth 槽宽 x 槽深 (mm)	Type 类别	Shape 外形	Size(mm) 规格	Slot Width X Depth 槽宽 x 槽深 (mm)				
Oval Tube 椭圆管		19x25	Round Tube 圆管		Φ25.4	14x14	Square & Rectangular Tube 方矩管		25x21	14x14				
		15x30							31.8x31.8	15x15				
		18x33							Φ28	5x5	32x32	15x5		
		20x30									Φ31.8	13x15 18.5x15	38x25	20x15
		20x34.3							Φ38.1	15x15 19x23 23.5x13			38x38	15x15
		21x61									Φ42.4	15x15 19.7x26.2 20x15 24x24	40x40	15x15 20x20
		23x38							Φ48.3	19.7x31.8 24x24 27x30 30x27			40x60	15x15
		24.9x40									Single Slot 单槽	50x50	50x25	15x15 25x15
		28x57							Φ50.8	13.8x15 15x15 19x38 19.7x31.8 20x20 20x25 25x25 28x21			60x40	15x15 24x24
		30x60									Φ60	25x25 25x40	60x60	25x25
		30x70							Φ60.3	20x20 34x34			75x45	20x25 25x25 35x28
		31x62									Φ63	15x15 19x38 20x20 23x34 25x25	70x30	42x6
		32x64							Single Slot 单槽	40x40			71x26	15x12
		35x55									Φ76	25x25 38x45	100x30	34x19
		34x80							Φ90	57x35			Double Slot 双槽	40x85
		35x80									Φ50.8	15x15	Oval Tube 椭圆管	Single Slot 单槽
		40x60							Φ60.3	20x20				
		40x80									Φ63.5	15x15 20x20 25x25	87x65	24x28
		40x110							Φ76.2	25x25			80x40	24x24 33x26
		42x75									Double Slot 双槽	110x40	93x57	25x25
		46x100							Φ63	15x15 19x38 20x20			100x52	45x40
		50x100									Φ60.3	20x20	110x40	33x26
		50x120							Φ63	23x34 25x25				
		50x150									Φ76.2	25x25		
		57x93												
60x90														
60x120														
60x150														
78x145														
80x142														
90x180														
95x180														
100x150														
100x180														
110x200														
153x177														
Flat Oval Tube 平椭圆管		6x12	Round Tube 圆管		Φ50.8	15x15	Oval Tube 椭圆管		40x40	15x15				
		14x21							40x85	25x13 25x20				
		13x25							50x50	15x15				
		15x30							60x40	20x20				
		15x35							87x65	24x28				
		14x36							80x40	24x24 33x26				
		15x36							93x57	25x25				
		16x34							100x52	45x40				
		15x35							110x40	33x26				
		18x33												
		20x40												
		20x90												
30x60														
40x80														
15x117														
51x151														
60x100														
154x251														

Dimension Tolerance Table 尺寸公差表

Standards 规范	Tolerance 公差	Outside Diameter 外径			Wall Thickness 厚度 (mm)	Length 长度 (mm)
		O.D 外径 (mm)	W.T 厚度 (mm)	Tolerance 公差 (mm)		
ASTM A554	< 12.7	0.51 ~ 1.24	±0.10	±10.0%	+4.8, -0.0	
		≥ 12.7 ~ 25.4	0.51 ~ 1.65 > 1.65 ~ 3.40			±0.13 ±0.25
	> 25.4 ~ 38.1	0.64 ~ 1.65	±0.20			
		> 1.65 ~ 3.40	±0.25			
	> 38.1 ~ 50.8	0.64 ~ 1.24	±0.25			
		> 1.24 ~ 2.11	±0.28			
		> 2.11 ~ 3.78	±0.30			
	> 50.8 ~ 63.5	0.81 ~ 1.65	±0.30			
		> 1.65 ~ 2.77	±0.33			
		> 2.77 ~ 4.19	±0.36			
> 63.5 ~ 88.9	0.89 ~ 4.19	±0.36				
	> 4.19	±0.51				
> 88.9 ~ 127.0	0.81 ~ 4.19	±0.51				
	> 4.19	±0.64				
GB/T 12770	< 25	±0.15		±10.0%	+20.0, -0.0	
	≥ 25~40	±0.18				
	≥ 40~50	±0.20				
	≥ 50~60	±0.23				
	≥ 60~70	±0.30				
	≥ 70~80	±0.30				
	≥ 80~90	±0.30				
	≥ 90~100	±0.40				
≥ 100~200	±0.5%D					
JIS G3446	< 50	±0.25		< 3.0 ±0.3	+50.0, -0.0	
	≥ 50	±0.50%		≥ 3.0 ±10.0%		

Square and Rectangular Tolerance 方、矩管公差

Standards 规范	Tolerance 公差	Max Radii of Corners 角度 (mm)		Outside Diameter 外径	
		W.T 厚度 (mm)	Radii of Corners, Max 最大角度 (mm)	O.D 外径 (mm)	Tolerance 公差 (mm)
ASTM A554	> 0.51 ~ 1.24	2.4	≤ 31.8	±0.38	
		3.2	> 31.8 ~ 63.5	±0.51	
		3.6	> 63.5 ~ 139.7	±0.76	
	> 2.42 ~ 2.77	5.2	Twist 扭角 (mm)		
	> 2.77 ~ 3.40	5.6	< 12.7	1.4	
	> 3.40 ~ 3.96	6.4	≥ 12.7 ~ 38.1	2.1	
	> 3.96 ~ 5.05	9.5	> 38.1 ~ 63.5	2.6	
	> 5.05 ~ 6.35	12.7	> 63.5 ~ 101.6	3.5	
> 6.35 ~ 9.53	19.1	> 101.6 ~ 152.4	6.9		

Product Application : It is widely used on machinery , medical devices , sport and fitness equipments , coatings , high-speed trains , automotives , furniture , interior decorations etc.

产品应用: 广泛应用于机械、医疗器械、健身运动器械、染整、高速列车、汽车、家具、家饰装潢装饰等用途。

STAINLESS STEEL WELDED TUBE FOR BOILER, HEAT EXCHANGER AND CONDENSER

锅炉热交换器、冷凝器用不锈钢管

ASTM A249, A269 / JIS G3463 / GB/T 24593 / DIN 17457 / EN 10217-7



Dimension Tolerance Table 尺寸公差表

Standards 标准	Tolerance 公差		Outside Diameter 外径 (mm)		Wall Thickness 厚度 (mm)		Length 长度 (mm)					
ASTM A269	< 38.1	±0.13	OD < 12.7	±15.0%	OD < 38.1	+3.2, -0.0	OD ≥ 38.1	+4.0, -0.0				
	≥ 38.1 ~ < 88.9	±0.25		±10.0%								
	≥ 88.9 ~ < 139.7	±0.38										
ASTM A249	< 25.0	+0.10, -0.11	±10.0%	OD < 50.8	+3.0, -0.0	OD ≥ 50.8	+5.0, -0.0					
	≥ 25.0 ~ ≤ 40.0	±0.15										
	< 40.0 ~ < 50.0	±0.20										
	≥ 50.0 ~ < 65.0	±0.25										
	≥ 65.0 ~ < 75.0	±0.30										
	≥ 75.0 ~ ≤ 100.0	±0.38										
GB/T 24593	< 25.0	±0.10	±10.0%									
	> 25.0~40.0	±0.15										
	> 40.0~50.0	±0.20										
	> 50.0~65.0	±0.25										
	> 65.0~75.0	±0.30										
	> 75.0~100.0	±0.38										
JIS G3463	< 60.0	±0.25	OD < 40.0	T < 2mm	+0.4, -0.0	OD ≤ 50.0	+7.0, -0.0					
	≥ 60.0 ~ < 80.0	±0.30			+20%, -0.0							
	≥ 80.0 ~ < 100.0	±0.40		OD < 40.0	+22%, -0.0	OD > 50.0	+10.0, -0.0					
	≥ 100.0 ~ < 120.0	+0.40, -0.60										
EN 10217-7	D1±1.50% with ±0.75mm (min)		T1±15.00% with ±0.60mm (min)	T2±12.50% with ±0.40mm (min)	T3±10.00% with ±0.20mm (min)	T4±7.50% with ±0.15mm (min)	T5±5.00% with ±0.10mm (min)	EN ISO 1127				
	D2±1.00% with ±0.50mm (min)								L ≤ 6000	+5.0, -0.0		
	D3±0.75% with ±0.30mm (min)										L > 6000-12000	+10.0, -0.0
	D4±0.50% with ±0.10mm (min)											
	EN ISO 1127											

Product Application : The product is applicable in construction of the high/ super-high pressure power boiler, the superheating steam tube, the boiling water pipe and the superheating tube for locomotive boiler.

产品应用：建造高压和超高压电站锅炉，过热蒸汽管、沸水管及机车锅炉用过热蒸汽管

OD 规格	Thickness 壁厚		0.80	1.00	1.20	1.24	1.50	1.65	2.00	2.11	2.50	2.77
	inch	mm				18GA		16GA		14GA		12GA
3/8	9.5	☆	☆	☆	☆	☆	☆	☆				
1/2	12.7	☆	☆	☆	☆	☆	☆	☆				
5/8	15.9	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	
	16	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	
	18	☆	☆	☆	☆	☆	☆	☆	☆	☆	☆	
3/4	19.1	○	○	○	○	○	○	○	○	○	☆	
7/8	22.2	○	○	○	○	○	○	○	○	○	☆	
1	25.4	○	○	○	○	○	○	○	○	○	☆	
1-1/8	28.6	○	○	○	○	○	○	○	○	○	☆	
1-1/4	31.8	○	○	○	○	○	○	○	○	○	☆	
	32	○	○	○	○	○	○	○	○	○	☆	
	34	○	○	○	○	○	○	○	○	○	☆	
1-3/8	35	○	○	○	○	○	○	○	○	○	☆	
1-1/2	38.1	○	○	○	○	○	○	○	○	○	☆	☆
	40	○	○	○	○	○	○	○	○	○	☆	☆
1-5/8	41.3	○	○	○	○	○	○	○	○	○	☆	☆
	42.7	○	○	○	○	○	○	○	○	○	☆	☆
1-3/4	44.5	○	○	○	○	○	○	○	○	○	☆	☆
	48.6	○	○	○	○	○	○	○	○	○	☆	☆
2	50.8	○	○	○	○	○	○	○	○	○	☆	☆
	52	○	○	○	○	○	○	○	○	○	☆	☆
2-1/4	57	○	○	○	○	○	○	○	○	○	☆	☆
2-1/2	63.5	○	○	○	○	○	○	○	○	○	☆	☆
	70	○	○	○	○	○	○	○	○	○	☆	☆
3	76.2	○	○	○	○	○	○	○	○	○	☆	☆
	85	○	○	○	○	○	○	○	○	○	☆	☆
3-1/2	88.9	○	○	○	○	○	○	○	○	○	☆	☆
4	101.6	○	○	○	○	○	○	○	○	○	☆	☆
4-1/4	108					△	△	△	△			
4-1/2	114.3					△	△	△	△			

☆ A269 Can Produce
代表 A269 工艺

○ A269/A269 Can Produce
代表 A249/A269 工艺

△ Only inside bead removed
仅内焊道平整工艺

STAINLESS STEEL SANITARY TUBE

食品卫生用不锈钢管

ASTM A270 / JIS G3447 / DIN 11850 / ISO 2037 / BS 4825 / QB/T 2467



DIN 11850

DN	10	15	20	25	32	40	50	65	80	100	125	150	200	250
OD 外径 (mm)	12	18	22	28	34	40	52	70	85	104	129	154	204	254
T 壁厚 (mm)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2	2	2	2	2	2	2

Dimension Tolerance Table 尺寸公差表

Standards 标准	Tolerance 公差		Wall Thickness 厚度 (mm)	Length 长度 (mm)
	Outside Diameter 外径 (mm)			
ASTM A270	≤ 25.4		±10.0%	OD ≤ 101.6 +3.2, -0.0 OD > 101.6 +4.8, -0.0
	> 25.4 ~ ≤ 50.8			
	> 50.8 ~ ≤ 76.2			
	> 76.2 ~ < 139.7			
	≥ 139.7 ~ < 203.2			
JIS G3447	≥ 203.2 ~ 304.8		±10.0%	+10.0, -0.0
	25.4			
	31.8			
	38.1			
	50.8			
	63.5			
	76.3			
	89.1			
	101.6			
	114.3			
139.8				
165.2				

Product Application : Biological engineering industry, food industry, pharmaceutical industry, purified water industry, electronic engineering industry, chemical fiber industry, chemical industry, papermaking industry, beer industry, highly-purified gases industry cosmetics industry and etc.

产品应用：生物工程、食品、制药、纯净水、电子工程、化纤工业、化工、造纸、啤酒、高纯度气体、化妆品等行业。

OD 规格	Thickness 壁厚	0.90	1.00	1.07	1.20	1.50	2.00	2.50	2.77	3.05	4.00	5.00
		0.89			1.24	1.65	2.11					
inch	mm	20GA		19GA	18GA	16GA	14GA		12GA	11GA		
5/8	15.9											
3/4	19.1											
7/8	22.2											
1	25.4											
1-1/8	28.6											
1-1/4	31.8											
	33.4											
	35											
1-1/2	38.1											
	41.3											
	42.7											
1-3/4	44.5											
	48.6											
2	50.8											
2 1/4	57											
2-3/8	60.3											
2-1/2	63.5											
3	76.2											
3-1/2	88.9											
4	101.6											
4-1/2	114.3											
5-1/2	139.7											
	154											
	165.2											
6-5/8	168.3											
8-5/8	219.05											
10-3/4	273.05											
12-3/4	323.85											
14	355.6											
16	406.4											

ABOUT EPAI

关于一派

ASTM A554, JIS G3446, and CNS 5802 tubes are excellent structural stainless steel tubes for using in ornamental, structural, exhaust, and other applications where appearance, mechanical properties or corrosion resistances are required.

Our products are made with Austenitic series stainless steel with optional grades in MT-304, MT-304L or MT-316L. We offer a wide range of stainless steel tube sizes, the outside diameters mainly range from 9.5 mm to 203.2 mm.

Because stainless steel tubes are highly cost-effective, they are usually favored for constructing residential, commercial, and industrial projects. Stainless steel tubes can be used in guardrails and stair handrails, plumbing applications, irrigation, food and beverage processing/handling, structural applications, and even furniture.

E-PAI INOX CO., LTD is a global leading stainless steel pipe & tube manufacturer.

Our professional manufacturing and engineering teams offer products with excellent and consistent quality to our clients all around world.

Our prompt after-sales services can always be relied on by our customers.

Our punctual delivery time makes stock control easy for our customers.

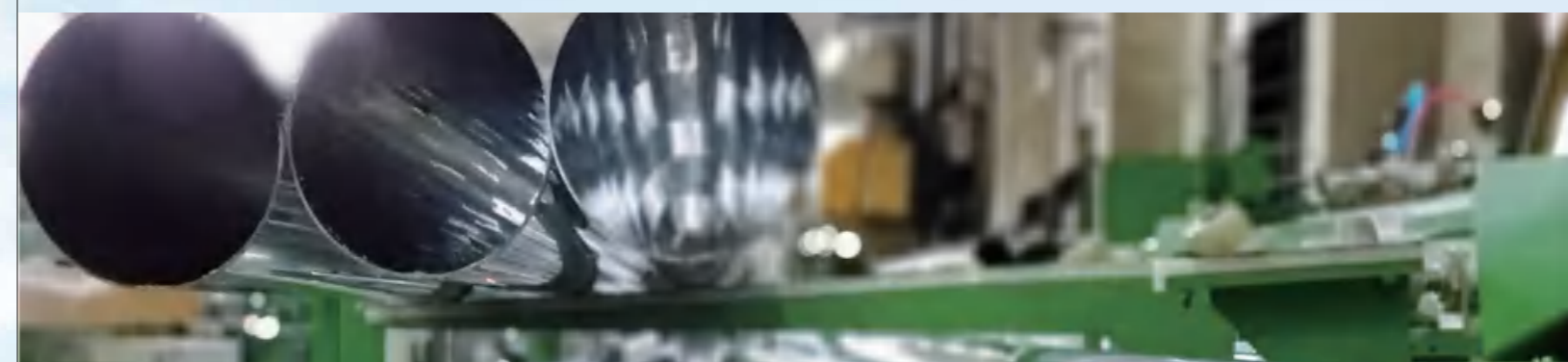
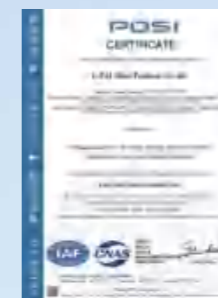
We offer product with tolerance complies with the norm (Specific tolerance requirement is possible. Please contact our sales specialists).

Specific mechanical tests are negotiable between seller and buyer.

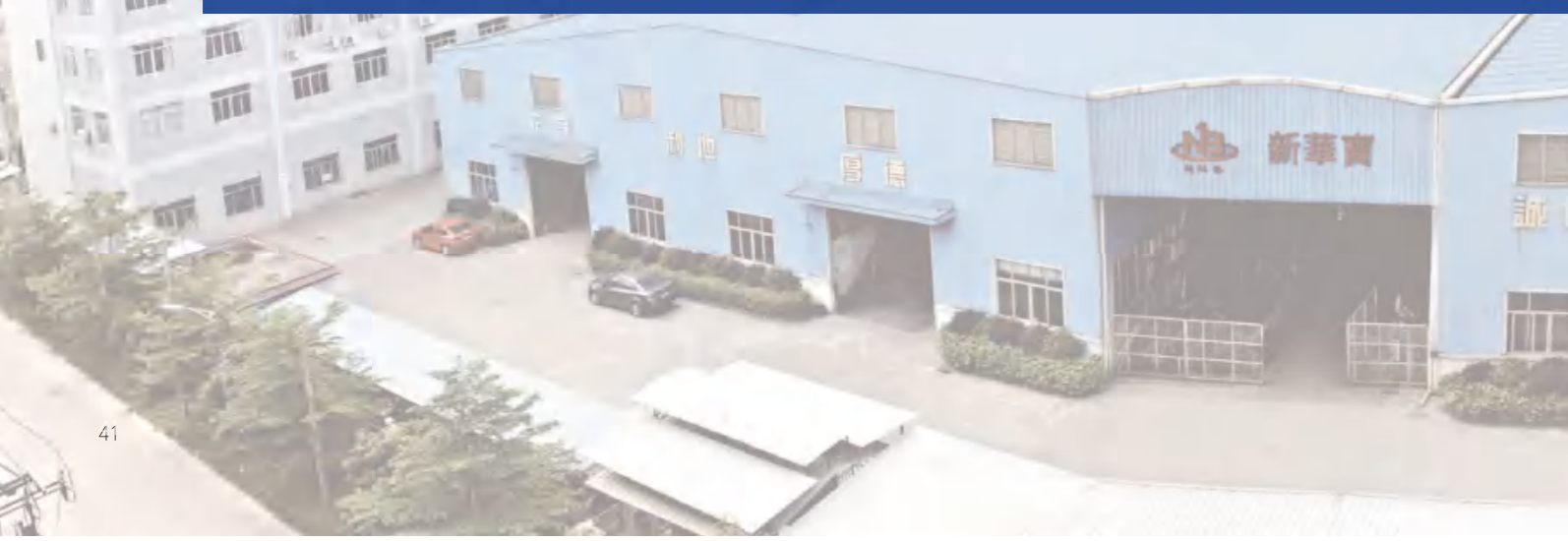
Bundle packing or steel crate packing is available in accordance with clients' preference

E-PAI INOX, your best choice of stainless steel.

EPAI: Quality First with ISO 9001 Management System and SGS Gold Supplier Certification



Exhaust pipe for car in production
automatic unloading machine to avoid scratching



DEVELOPMENT PATH

发展历程



◀ 1997-1998 Startup / 创业

1997 - Set up "New Hua Bao Hardware Decorative Materials CO.,LTD" in Foshan, sales "NHB" brand luxury door handle and gating hardware products. The company started from zero and found a firm footing in the market, the product was initially recognized by the market.

- 在佛山成立“新华宝五金装饰材料行”，销售“NHB”牌子豪华门拉手与门控五金产品。公司顺利从零起步并在市场站住脚，产品初步得到市场认可。

1998 - Set up "New Hua Bao Hardware Factory", plant area 400 square meters, started to produce and sale "NHB" brand luxury door handle.

- 开办“新华宝五金厂”，厂房面积 400m²，开始自产自销“NHB”牌豪华门拉手。

1999-2002 Transition / 转型 ▶

1999 - Developed innovative product strategy, featured product: stainless steel glass door handle. Production scale expanded.

- 制定创新产品策略，主打不锈钢玻璃门拉手，并掀起国内拉手分色处理的潮流。同年扩展生产规模。

2000 - Introduced ISO 9001-2000 quality management system, began to standardize the manufacturing process, implemented a firm foundation for management.

- 导入 ISO 9001-2000 质量管理体系，开始生产标准化流程进程，打好管理基础。



◀ 2003-2008 Development / 开拓

2003 - Adjusted the market strategy, began to develop foreign market.

- 调整市场策略，开始拓展国外市场。

2006 - Became the leading manufacturers that exported the largest number of stainless steel door handle, and successfully maintain the growth of a single product for the largest number.

- 成为不锈钢门拉手出口单品数量最多的厂家之一，并顺利保持增长连续产品单品数量最多的厂家，成为拉手领军厂家。

2009-2010 Profession / 专业 ▶

2009 - For quality improve of stainless steel handle, controlled the quality of raw material and started production of stainless steel tube, and won customers recognition.

- 为更好控制不锈钢拉手的品质，控制来料品质并投产不锈钢管生产线，得到客户认可。

2010 - Invested 6 production lines of stainless steel tube, month capacity 200 Tons. Set up "EPAI SS HANDLE MANUFACTURING CO., LTD.", specialized in producing elbow stainless steel handle.

- 承继发展势头开发不锈钢管生产线，初步投入 6 条生产线，月产销达 200 吨。并投产“一派精工”，专业生产不锈钢弯管拉手。



◀ 2011-Now 至今 Mission / 使命

2011 - Sales range of stainless steel tube kept increased, month capacity reached 300 tons with 10 production lines, developed strategy of "development through quality" to expand the market.

- 不锈钢管销量在扩大，月产 300 吨，共投产 10 条生产线，并制定“以质量求发展”的策略，拓展不锈钢管市场。

2012 - Loyal customers number increased steadily, and produce range expanded to stainless steel railing accessories, set up "EPAI BUILDER'S HARDWARE" factory.

- 不锈钢管固定客户稳定增加，并且业务延伸到为客户提供更优质的栏杆配件，开立“一派联和”建筑五金厂。初步奠定“一派品质”口碑，奠定了“成为不锈钢建筑五金领导者”的基础。

2013 - For quality improvement, purchased 20 whole new production lines and modes, also moved into a new modern plant, month capacity reached 500 tons.

- 为了做更好品质的产品，购置 20 条全新的生产线和模具，搬入全新的现代化厂区，月产 500 吨。

2017 - Set a long-term strategy, to creating a "Happy Working" business platform, and leading EPAI to become the king of stainless steel building materials industry! Provide a platform of entrepreneurship for every staff, shareholder and business partner to cooperate and achieving dream life.

- 定下长远的战略方针，打造“快乐工作，工作快乐”的创业平台，引领一派成为不锈钢建材行业王者！为我们员工，股东乃至商业伙伴提供创信和圆梦平台，共赢天下，公司是平台，我们每一个人都是主人，大家在上面创业和创富，共赢人生。

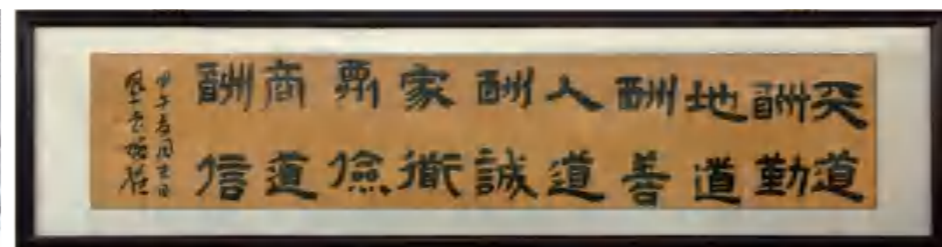
2019 - Keep pursuing "Excellence EPAI quality" as always, to provide satisfied products for customers. Production lines reached 26 and month capacity reached 1,500 tons. Market had spread over 30 regions of Southeast America, Southeast Asia, Middle East, Europe and China, and earn a good reputation of customer as "EPAI Tube, Trustable Tube".

- 一如既往地“更好的一派品质”进行追求，为客户提供放心满意的产品。生产线达到 26 条，产量保持持续递增，月产 1500 吨。市场开拓到南美、东南亚、中东、欧洲、中国等 30 多个地区，并且赢得客户评价“一派管，放心管”美誉。

EPAI GROUP

一派集团





ENTERPRISE CONCEPT

企业理念

Our Vision : Make us impressive to the world, build a best EPAI brand of stainless steel appliances

企业愿景: 实现“让全世界刮目相看”的伟大梦想，代言中国好建材！

Our Spirit : Focus on teamwork and collaboration, brave in exploration and creativity, never give up on any company personnel, to create a brilliant tomorrow together

企业精神: 正念、理他、厚德，团队协作，勇于开拓，不离不弃，共创辉煌

Our Faith : Respect every customer, superior quality builds the foundation, efficient service wins customer's trust

企业理念: 诚待天下客，质赢用户心，以卓越品质立企业之本，用优质服务得民众之心

Our Mission : Produce first-class products and cultivate top talents, create a happy working environment and make contributions to the whole world

企业使命: 做一流产品，造一流人才，让一派成为快乐的工作平台，为社会做出应有的贡献

Conduct Code : Listen, smile, praise, appreciate

企业行为文化: 倾听、微笑、赞美、感恩