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 EN10216-2
 A/SA335, A/SA179
 B/SB163
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 B/SB165
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 EN10216-5
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 B/SB407, TY14-3P-55-2001, B/SB423, B/SB444, B/SB165, B/SB167, B/SB407, B/SB444, A/SA334, GB5310
 A/SA192, A/SA312, A/SA312, B/SB829, A/SA335
 A/SA803
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 A/SA688, B/SB444, EN10216-5
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 A/SA334
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 B/SB444, B/SB167, GOST9941-81
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 B/SB444
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 A/SA192
 A/SA213
 A/SA789
 B/SB668
 A/SA334



飞鹤管业
FH TUBE

Specializing in Straight and U-bent Tubing for Boiler, Heat Exchanger and Feedwater Heater.



Material:

- Alloy Steel
- Stainless Steel
- Nickel Alloy

江苏飞鹤管业有限公司
JIANGSU FH TUBE INDUSTRY CO., LTD.

企业简介 Brief Introduction

江苏飞鹤管业有限公司位于江苏省大丰市经济开发区内，紧邻G15（沈海高速）大丰出口，距上海2.5小时车程。交通方便，地理位置优越。

公司专业生产各种材料的锅炉、换热器用无缝管，主要有镍合金无缝管（包括Monel400、600/625/800/H、825、C276），不锈钢无缝管（包括铁素体&马氏体不锈钢，奥氏体不锈钢和双相不锈钢），低合金管无缝管三大类产品。

为了更好的满足锅炉换热器行业的需求，公司开发了碳钢&合金钢，不锈钢及镍合金材料的超长直管和U型管，以及无缝和焊接再拔制电站用高低压给水加热器U型管，最长直管达32米。公司生产的U型管，完全按照相关标准生产，如A/SA179/210/556，A/SA213/789/688，A/SA268/803，B/SB163.....质量完全达到和超过标准要求。针对石油行业客户需求，公司开发了L80，9Cr/13Cr油套管接箍料；G3镍合金油套管以及ASTM A335标准石油裂化用中小口径合金钢管（A335: P5、P11、P22、P9、P91.....），同时，公司还成功开发了轴承用440C高碳马氏体不锈钢无缝管以及17-4PH沉淀硬化马氏体不锈钢无缝管。

我们始终坚持生产高质量产品，拥有先进的生产设备，年生产销售符合**国标GB**，**美标ASTM/ASME**，**欧标EN**，**日标JIS**，**俄罗斯GOST**等标准的无缝管（尺寸 $\Phi 5-168 \times 0.5-14\text{mm}$ ）达6000吨。70%出口到欧美，俄罗斯，澳大利亚，东南亚，南非等世界各地。公司有严格的质量控制制度，通过了ISO9001质量管理体系认证，执行完善的质量检验制度，配备有先进的质量检测仪器和设备。

公司将通过持续的生产设备投入和持续改善的企业管理，不断提高产品质量和生产效率，满足广大客户的最大利益和产品需求，努力使公司发展成为知名的专业生产锅炉换热器管等管材的企业。



Jiangsu FH Tube Industry Co., Ltd. is located at the Economic Development Zone, Dafeng City, Jiangsu Province. It is only 2.5 hours drive from Shanghai.

FH Tube produce high quality boiler, heat transfer seamless tubing with kinds of material including Low alloy seamless tubes, stainless steel seamless tubes(ferritic and martensitic stainless steel, austenitic stainless steel, duplex stainless steel), and nickel alloy seamless tubes(400, 600, 625, 800/H, 825, C276...).

In order to meet the customers' demand for the boiler and heat exchanger, we developed super length straight and U-bent tubes, and seamless, welded-redrawn feedwater heater U-bent tubes for power plants. The max. length of straight tubes is up to 32 meters. The U-bent tubes produced per the specifications such as , A/SA213/789/688, A/SA268/803,B/SB163,B/SB165,B/SB444, can meet completely or be over the requirements of standards. For the demand of oil industry, we also developed the L80, 9Cr/13Cr alloy coupling stock pipes, G3 nickel alloy tubing, and the ASTM A335 alloy pipes for refinery with grades P5, P11,P22, P9, P91... Besides, we successfully developed 440C bearing machining and 17-4PH martensitic stainless steel seamless tube.

We focus on the production of high quality tubing. With advanced production equipments, we annually produce more than 6000 metric tons of carbon & alloy steel, stainless steel and nickel alloy seamless tubes/pipes per kinds of standards as GB, American ASTM/ASME, EN, JIS, GOST... Size is OD5-219mm, Wall0.4x20. 70% of products is exported to all of the world as Europe, USA, Russia, Canada, Australia, Southeast Asia, South Africa...With advanced inspection and testing equipments and machines, we carry out strict quality control and inspection system per the ISO9001:2008.

We will continuously invest on the production equipments, and improve our management, to upgrade the products quality and the efficiency, supply our customers with the most benefit and high quality products, besides make our company to be a famous professional manufacturer of boiler and heat exchanger tubes.





- ❖ 公司执行国际先进的质量管理体系，获得了 ISO9001-2008 质量管理体系证书。

With the ISO9001-2008 quality management system, FH Tube carry out the advanced quality management system strictly and completely.

- ❖ 公司的原材料来自国内知名工厂，部分原材料进口自欧美日本等国家的一流钢铁集团。

Our raw materials for tubes and pipes is from famous domestic melting mills, and part of the material is imported from the top-class melting mills of the world, like Europe, USA and Japan.

- ❖ 公司配备了先进生产设备，如计算机控制燃气自动热处理炉，高精度矫直机以及冷拔，冷轧设备，生产的钢管氧化少，内外表面质量好，成分稳定，几何尺寸精度高，综合力学性能优良。

FH Tube is equipped advanced production machines and equipments, like computer controlled natural gas fire heat treatment furnace, high precision straightening machines and cold drawn/rolling machines. The tubes/pipes has little oxidation, good outer and inner surface quality, good chemical content, high size precision/tolerance, and good comprehensive mechanical properties.

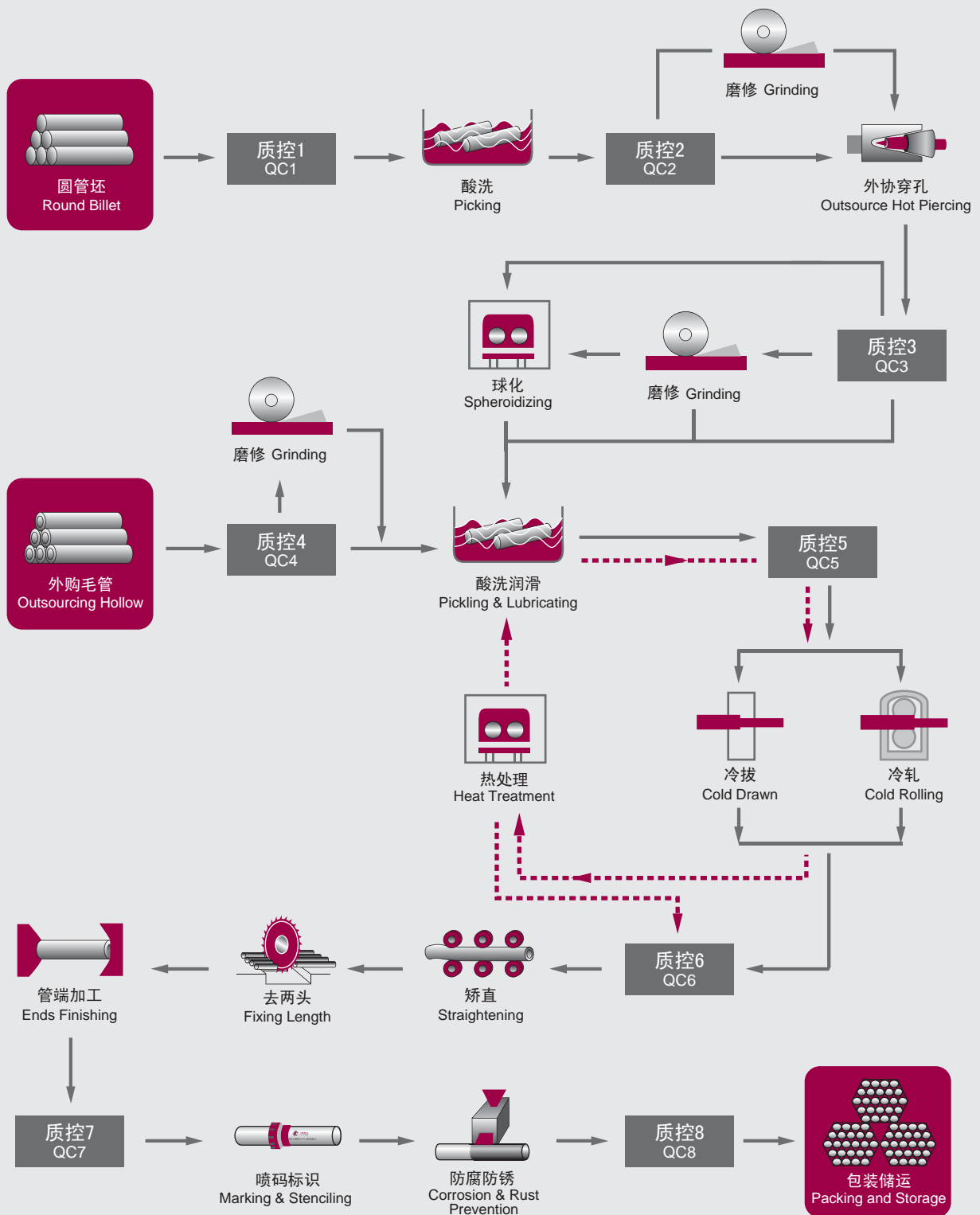


- ❖ 公司配备了先进的研发和检测设备，有光谱仪、涡流探伤仪、水压试验设备、万能材料试验机、布氏硬度计、晶间腐蚀设备、冲击试验机、金相显微镜、低倍和高倍显微镜、系列化学分析仪等，以及配套的理化分析等设施。

We also have advanced research and inspection equipments, such as spectrometer, eddy current testing machines, hydrostatic testing machines, comprehensive mechanical property testing machine, hardness testing equipment, intergranular corrosion testing equipments, compact testing machines, microstructure testing equipments, and other equipments.

生产流程

Production Flowchart





Nickel Alloy Tube/Pipe

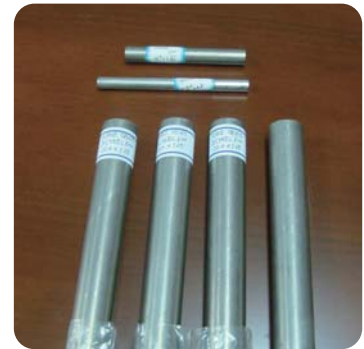
FH Tube's technical and production advantages assure us to supply customers with high quality nickel alloy tubes and pipes for serious corrosion and high temperature environments. The raw material is from famous domestic melting mill or from top class plants of the world.

❖ Applications:

Boiler, Heater, Heat Exchanger, Condenser, Instrumentation, Pipe lines...

❖ Available Specifications:

- ASTM/ASME B/SB163
Seamless Nickel and Nickel Alloy Condenser and Heat Exchanger Tubes
- ASTM/ASME B/SB165
Nickel-Copper Alloy (UNS N04400) Seamless Tube and Pipe
- ASTM/ASME B/SB167
Nickel-Chromium-Iron Alloys (UNS N06600, N06601, N06603, N06690, N06693, N06025 and N06045) and Nickel-Cobalt-Molybdenum Alloy (UNS N06617) Seamless Pipe and Tube
- ASTM/ASME B/SB423
Nickel-Iron-Molybdenum-Copper Alloy (UNS N08825 and UNS N08221) Seamless Pipe and Tube
- ASTM/ASME B/SB444
Nickel-Chromium-Molybdenum-Columbium Alloy (UNS N06625) and Nickel-Chromium-Molybdenum-Silicon Alloy (UNS N06219) Pipe and Tube
- ASTM/ASME B/SB407
Nickel-Iron-Chromium Alloy Seamless Pipe and Tube
- ASTM/ASME B/SB668
UNS N08028 Seamless Tubes
- ASTM/ASME B/SB677
UNS N08904, UNS N08925, UNS N08926 Seamless Pipe and Tube
- ASTM/ASME B/SB690
Iron-Nickel-Chromium-Molybdenum Alloys (UNS S08366 and UNS S08367) Seamless Pipe and Tube
- ASTM/ASME B/SB622
Seamless Nickel and Nickel-Cobalt Alloy Pipe and Tube





Chemical Content for Typical Nickel Alloy Grades and High Alloy Grades

	Ni	Cr	Mo	Fe	Cu	Mn	C	Si	Al	S	P	Others
UNS N04400	63.0 min.			2.5 max.	28.0-34.0	2.0 max.	0.3 max.	0.5 max.		0.024 max.		
UNS N06600	72.0 min.	14.0-17.0		6.0-10.0	0.5 max.	1.0 max.	0.15 max.	0.5 max.		0.015 max.		
UNS N06690	58.0 min.	27.0-31.0		7.0-11.0	0.5 max.	0.5 max.	0.05 max.	0.5 max.		0.015 max.		
UNS N06693	remainder	27.0-31.0		2.5-6.0	0.5 max.	1.0 max.	0.15 max.	0.5 max.	2.5-4.0	0.01 max.		Ti: 1.0 max.
UNS N06625	58.0 min.	20.0-23.0	8.0-10.0	5.0 max.		0.5 max.	0.10 max.	0.5 max.	0.4 max.	0.015 max.	0.015 max.	Nb+Ta: 3.15-4.15 Co: 1.0max Ti: 0.40max
UNS N08800	30.0-35.0	19.0-23.0		39.5 min.	0.75 max.	1.5 max.	0.10 max.	1.0 max.	0.15-0.60	0.015 max.		
UNS N08825	38.0-46.0	19.5-23.5	2.5-3.5	22.0 min.	1.5-3.0	1.0 max.	0.05 max.	0.5 max.	0.2 max.	0.03 max.		
UNS N08028	30.0-34.0	26.0-28.0	3.0-4.0	remainder	0.6-1.4	2.5 max.	0.030 max.	1.0 max.		0.03 max.	0.03 max.	
UNS N08926	24.0-26.0	19.0-21.0	6.0-7.0	remainder	0.5-1.5	2.0 max.	0.020 max.	0.5 max.		0.01 max.	0.03 max.	N2: 0.15-0.25
UNS N08904	23.0-28.0	19.0-23.0	4.0-5.0	remainder	1.0-2.0	2.0 max.	0.020 max.	1.0 max.		0.035 max.	0.045 max.	
UNS N10276	remainder	15.0-16.5	15.0-17.0	4.0-7.0		1.0 max.	0.01 max.	0.08 max.		0.01 max.	0.015 max.	Co: 2.5 max. W: 3.0-4.0, V: 0.1-0.3

Available Sizes

Products	OD		WT		Length	
	Inch	MM	Inch	MM	Ft max.	Mt max.
Tube	1/2"-3"	12.0-76.2	0.02"-0.5"	0.5-12.0	105'	32.00
Pipe	NPS1/2"-6"	21.34-168.3	Sch10-Sch80	2.11-12.7	98'	30.00

Super Length Tube/Pipe is our advantages.

Duplex and Super Duplex Stainless Steel Tube



As the duplex and super duplex stainless steel has both the advantages of ferritic stainless steel and the austenitic stainless steel, they are widely used to produce heat transferring tubing for petrochemical industry, sea water treatment... in aggressive acidic, chloride containing environments. FH Tube supply customer duplex/super duplex tubes with high quality.

Applications:

Heater, Heat Exchanger, Condenser, Instrumentation, Pipe lines...

Available Specifications:

- ASTM/ASME A/SA789
Seamless and Welded Ferritic/Austenitic Stainless Steel Tubing for General Service
- ASTM/ASME A/SA790
Seamless and Welded Ferritic/Austenitic Stainless Steel Pipe



Chemical Content of Typical Duplex Stainless Steel

	C	Mn	P	S	Si	Cr	Ni	Mo	N	Cu
UNS S32101	0.03 max.	2.0 max.	0.03 max.	0.030 max.	1.0 max.	20.0-23.0	1.0-3.0	0.6 max.	0.05-0.17	1.0 max.
UNS S32304	0.03 max.	2.5 max.	0.04 max.	0.040 max.	1.0 max.	21.5-24.5	3.0-5.5	0.05-0.6	0.05-0.20	0.05-0.6
UNS S31803	0.03 max.	2.0 max.	0.03 max.	0.020 max.	1.0 max.	21.0-23.0	4.5-6.5	2.5-3.5	0.08-0.2	
UNS S32205	0.03 max.	2.0 max.	0.03 max.	0.020 max.	1.0 max.	22.0-23.0	4.5-6.5	3.0-3.5	0.14-0.2	
UNS S32750	0.03 max.	1.2 max.	0.035 max.	0.020 max.	0.8 max.	24.0-26.0	6.0-8.0	3.0-5.0	0.24-0.32	0.5 max.

Available Sizes

Products	OD		WT		Length	
	Inch	MM	Inch	MM	Ft max.	Mt max.
Tube	1/2"-3"	12.0-76.2	0.02"-0.5"	0.5-12.0	105'	32.00
Pipe	NPS1/2"-6"	21.34-168.3	Sch10-Sch80	2.11-12.7	98'	30.00

Super Length Tube/Pipe is our advantages.



Austenitic Stainless Steel Tube

Austenitic stainless steel's resistance to general corrosion, good weldability... help the designer to use them to produce boiler and heat exchanger. It is the most widely used for heat transferring tubing. FH Tube supply the most grades of tubes with perfect quality, and value-added service.

Applications:

Boiler, Heater, Heat Exchanger, Condenser, Feedwater Heater, Instrumentation, Pipe lines...

Available Specifications:

- ASTM/ASME A/SA213
Seamless (Ferritic) and Austenitic Alloy-Steel Boiler, Superheater, and Heat-exchanger Tubes
- ASTM/ASME A/SA269
Seamless and Welded Austenitic Stainless Steel Tubing for General Service
- ASTM/ASME A/SA312
Seamless Austenitic Stainless Steel Pipes



Available Austenitic Stainless Steel Tube/Pipe Grades (Other grades available upon request)

GB新牌号	GB旧牌号	ASMT/ASME	UNS	EN	DIN	JIS	GOST
06Cr19Ni10	0Cr18Ni9	TP304	S30400	X5CrNi18-10	1.4301	SUS304	
022Cr19Ni10	00Cr18Ni10	TP304L	S30403			SUS304L	
07Cr19Ni10	1Cr19Ni10	TP304H	S30409		1.4948	SUS304H	
06Cr19Ni10N	0Cr19Ni9N	TP304N		X2CrNiN1810		SUS304N1	
06Cr23Ni13	0Cr23Ni13	TP309S	S30908	X12CrNi23-13		SUS309S	
06Cr25Ni20	0Cr25Ni20	TP310S	S31008	X8CrNi25-21	1.4845	SUS310S	10X23H18
06Cr17Ni12Mo2	0Cr17Ni12Mo2	TP316	S31600	X5CrNiMo17-12-2	1.4401	SUS316	
022Cr17Ni12Mo2	00Cr17Ni14Mo2	TP316L	S31603	X2CrNiMo18-14-3	1.4404	SUS316L	03X17H14M3
06Cr17Ni12Mo2N	0Cr17Ni12Mo2N	TP316N	S31651			SUS316N	
07Cr17Ni12Mo2	1Cr17Ni14Mo2	TP316H	S31609		1.4919	SUS316H	
022Cr17Ni12Mo2N	00Cr17Ni13Mo2N	TP316LN	S31653	X2CrNiMoN17-13-3	1.4429	SUS316LN	
06Cr19Ni13Mo3	0Cr19Ni13Mo3	TP317	S31700	X5CrNiMo17-13	1.4449	SUS317	
022Cr19Ni13Mo3	00Cr19Ni13Mo3	TP317L	S31703	X2CrNiMo18-15-4	1.4438	SUS317L	
06Cr18Ni11Ti	0Cr18Ni10Ti	TP321	S32100	X6CrNiTi18-10	1.4541	SUS321	08X18H10T
07Cr18Ni11Ti	1Cr18Ni10Ti	TP321H	S32109				12X18H10T
06Cr17Ni12Mo3Ti	0Cr18Ni12Mo3Ti	TP316Ti	S31635	X6CrNiMoTi17-12-2	1.4571	SUS316Ti	10X17H13M2T
06Cr18Ni11Nb	0Cr18Ni11Nb	TP347	S34700	X6CrNiNb18-10	1.4550	SUS347	(12X18H12T)
07Cr18Ni11Nb	1Cr19Ni11Nb	TP347H	S34709		1.4551	SUS347H	
		347HFG					
		316LUG					

Available Sizes

Products	OD		WT		Length	
	Inch	MM	Inch	MM	Ft max.	Mt max.
Tube	1/2"-3"	12.0-76.2	0.02"-0.5"	0.5-12.0	105'	32.00
Pipe	NPS1/2"-6"	21.34-168.3	Sch10-Sch80	2.11-12.7	98'	30.00

Super Length Tube/Pipe is our advantages.



Ferritic and Martensitic Stainless Steel Tube

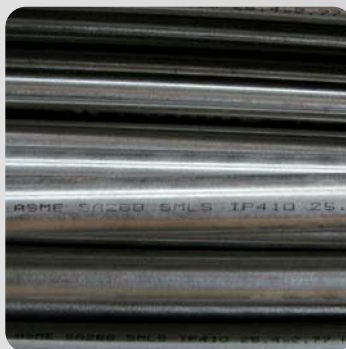
FH Tube's ferritic and martensitic stainless steel heat transferring tubing is produced to applications where better mechanical properties, hardness, chloride induced pitting, crevice and stress corrosion cracking may be considered. And the high quality tube and pipe with such material can be also used for other specific applications as petro/gas industry, bearing machining ...

Applications:

Heater, Heat Exchanger, Condenser, Machining, Bearing Machining, API service...

Available Specifications:

- ASTM/ASME A/SA268
Seamless and Welded Ferritic and Martensitic Stainless Steel Tubing for General Service
- API 5CT L80 9Cr/13Cr Coupling Stock Pipe for Anti-Corrosive of CO₂
- ASTM A756 Stainless Anti-Friction Bearing Steel



Chemical Content and Mechanical Properties for Ferritic and Martensitic Stainless Steel Tube

Standard	Steel Grade	Chemical Composition(%)								Mechanical Properties		Elongation (%)	Hardness (HRB)
		C	Mn	Si	P	S	Cr	Ni		Y. S. (MPa)	T. S. (MPa)		
A/SA268	TP405	≤ 0.08	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	11.50~14.50	≤ 0.50	Al:0.10~0.30	≥ 415	≥ 205	≥ 30	≤ 85
A/SA268	TP410	≤ 0.15	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	11.50~13.50			≥ 415	≥ 205	≥ 30	≤ 85
A/SA268	TP410S	≤ 0.08	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	11.50~13.50			≥ 415	≥ 205	≥ 30	≤ 85
A/SA268	TP430	≤ 0.12	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	16.00~18.00			≥ 415	≥ 205	≥ 30	≤ 85
A/SA268	TP430Ti	≤ 0.10	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	16.00~19.50	≤ 0.75	Ti: 5C~0.75				
A/SA268	TP446	≤ 0.20	≤ 1.50	≤ 1.00	≤ 0.040	≤ 0.030	23.00~27.00	≤ 0.75	N: ≤ 0.25	≥ 415	≥ 205	≥ 30	≤ 85
A/SA268	TP409	≤ 0.08	≤ 1.00	≤ 1.00	≤ 0.045	≤ 0.030	10.50~11.70	≤ 0.50	Ti: 6C~0.75	≥ 415	≥ 205	≥ 30	≤ 85
A/SA268	TP439	≤ 0.07	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	17.00~19.00	≤ 0.50	N: ≤ 0.04 Ti: 0.2+ 4(C+N)~1.1	≥ 380	≥ 205	≥ 22	≤ 80
A/SA268	TP444	≤ 0.025	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	17.50~19.50	≤ 1.00	Mo: 1.75~2.5 (Ti+Cb): 0.2+ 4(C+N)~0.8 N: ≤ 0.035	≥ 415	≥ 220	≥ 22	≤ 81
A/SA756/268	440C	0.95~1.10	≤ 1.00	≤ 1.00	≤ 0.025	≤ 0.025	16.00~18.00	3.00~5.00	Mo: 0.4~0.7				
A/SA693	17-4PH	≤ 0.07	≤ 1.00	≤ 1.00	≤ 0.040	≤ 0.030	15.50~17.50		Cu: 3.0~5.0 Nb: 0.15~0.45				
GOST9941-81	15Cr25Ti	≤ 0.15	≤ 0.80	≤ 1.00	≤ 0.035	≤ 0.025	24.00~27.00		Ti:5C~0.90	≥ 415	≥ 205	≥ 30	≤ 85
API 5CT	L80/9Cr	≤ 0.15	0.30~0.60	≤ 1.00	≤ 0.020	≤ 0.010	8.00~10.00	Mo: 0.90~1.10		≥ 655	≥ 552	≥ 20	≤ 23HRC
API 5CT	L80/13Cr	0.15~0.22	0.25~1.00	≤ 1.00	≤ 0.020	≤ 0.010	12.0~14.0			≥ 655	≥ 552	≥ 20	≤ 23HRC

Other C-Mo low alloy tubes available upon request

Size Tolerance

Size Tol. (ASTM A1016)	Dimension (D)		Wall thickness (S)	
	(mm)	Tolerance (mm)	(mm)	Tolerance (mm)
Cold Drawn/Rolled Tube	<25.4	+/- 0.1	≤38.1	+20%~0
	25.4~38.1	+/- 0.15		
	>38.1~<50.8	+/- 0.2	>38.1	+22%~0
	50.8~<63.5	+/- 0.25		
63.5~<76.2	+/- 0.3			

Size Tol. for pipes per ASTM A530

Available Sizes

Products	OD		WT		Length	
	Inch	MM	Inch	MM	Ft max.	Mt max.
Tube	1/2"-3"	12.0-76.2	0.02"-0.5"	0.5-12.0	105'	32.00
Pipe	NPS1/2"-6"	21.34-168.3	Sch10-Sch80	2.11-12.7	98'	30.00

Super Length Tube/Pipe is our advantages.

Low Alloy Steel Seamless Tube/Pipe



FH Tube's Cr-Mo alloy-steel and C-Mo alloy-steel heat transferring tubing makes our products better to meet customer demands for heat exchanger and boiler installation. And we also supply A/SA335 pipes with long length for our special customer, oil refinery for high temperature service.

Applications:

Boiler, Heater, Heat Exchanger, Oil Refining...

Available Specifications:

- ASTM/ASME A/SA213
Seamless ferritic and (austenitic) alloy-steel boiler, superheater, and heat-exchanger tubes
- ASTM/ASME A/SA209
Seamless carbon-molybdenum alloy-steel boiler and superheater tubes
- ASTM/ASME A/SA335
Seamless ferritic alloy-steel pipe for high-temperature service



Chemical Content and Mechanical Properties for Low-alloy Tubes

Standard	Steel Grade	Chemical Composition(%)							Mechanical Properties		Elongation (%)	Hardness (HRB)
		C	Mn	Si	P	S	Cr	Mo	Y. S. (MPa)	T. S. (MPa)		
A/SA213/335	T11/P11	0.05~0.15	0.30~0.60	0.50~1.00	≤ 0.025	≤ 0.025	1.00~1.50	0.44~0.65	≥ 415	≥ 205	≥ 30	≤ 85
A/SA213/335	T12/P12	0.05~0.15	0.30~0.61	≤ 0.50	≤ 0.025	≤ 0.025	0.80~1.25	0.44~0.65	≥ 415	≥ 205	≥ 30	≤ 85
A/SA213/335	T22/P22	0.05~0.15	0.30~0.60	0.50~1.00	≤ 0.025	≤ 0.025	1.90~2.60	0.87~1.13	≥ 415	≥ 205	≥ 30	≤ 85
A/SA213/335	T5/P5	≤ 0.15	0.30~0.60	≤ 0.50	≤ 0.025	≤ 0.025	4.00~6.00	0.44~0.65	≥ 415	≥ 205	≥ 30	≤ 85
A/SA213/335	T9/P9	≤ 0.15	0.30~0.60	0.25~1.00	≤ 0.025	≤ 0.025	8.00~10.00	0.90~1.10	≥ 415	≥ 205	≥ 30	≤ 85
A/SA213/335	T91/P91	0.07~0.14	0.30~0.60	0.20~0.50	≤ 0.020	≤ 0.010	8.00~9.50	0.85~1.05	≥ 585	≥ 415	≥ 20	≤ 25HRC

Other Cr-Mo low alloy tubes available upon request

A/SA209	T1	0.10~0.20	0.30~0.80	0.10~0.50	≤ 0.025	≤ 0.025		0.44~0.65	≥ 380	≥ 205	≥ 22	≤ 80
A/SA209	T1a	0.15~0.25	0.30~0.80	0.10~0.50	≤ 0.025	≤ 0.025		0.44~0.65	≥ 415	≥ 220	≥ 22	≤ 81
A/SA209	T1b	≤ 0.14	0.30~0.80	0.10~0.50	≤ 0.025	≤ 0.025		0.44~0.65	≥ 365	≥ 195	≥ 22	≤ 77

Other C-Mo low alloy tubes available upon request

Size Tolerance

Size Tol. (ASTM A1016)	Dimension (D)		Wall thickness (S)	
	(mm)	Tolerance (mm)	(mm)	Tolerance (mm)
Cold Drawn/Rolled Tube	<25.4	+/- 0.1	≤38.1	+20%~0
	25.4~38.1	+/- 0.15		
	>38.1~<50.8	+/- 0.2		
	50.8~<63.5	+/- 0.25	>38.1	+22%~0
	63.5~<76.2	+/- 0.3		
	76.2~101.6	+/- 0.38		
>101.6~168.3	+0.38~-0.64			

Size Tol. for A/SA335 alloy pipes per ASTM A530

Available Sizes

Products	OD		WT		Length	
	Inch	MM	Inch	MM	Ft max.	Mt max.
Tube	1/2"-3"	12.0-76.2	0.02"-0.5"	0.5-12.0	105'	32.00
Pipe	NPS1/2"-6"	21.34-168.3	Sch10-Sch80	2.11-12.7	98'	30.00

Super Length Tube/Pipe is our advantages.

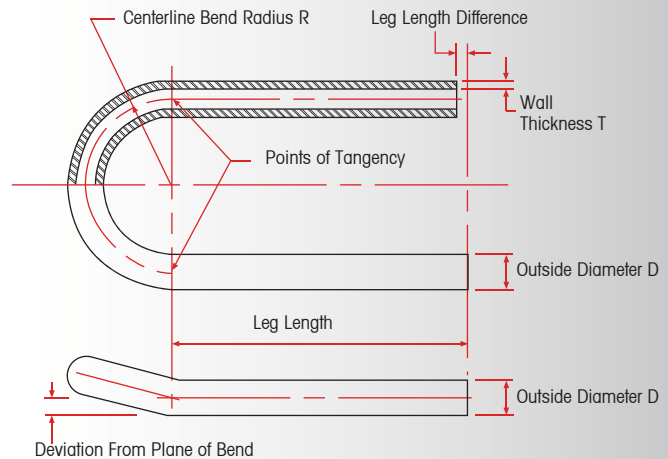


U-bent Tube

Our experienced and professional team of bending, and full tools and equipments make us provide customers almost all kinds of metal U-bent tubes with high quality. With our unique manufacturing capabilities, FH Tube also supply customer with value-added service.

FH Tube's advanced capabilities for U-bent tubes:

- Reliable bending machines
- Precision bending dies
- Eddy current test before bending
- Bending up to 105'(32m) developed length
- Electric resistance stress relief annealing after bending
- Hydrostatic test after bending
- OD and WT reduction Testing
- Full bending radius and tube legs tolerance check
- Stack-rack boxing
- Detailed labeling

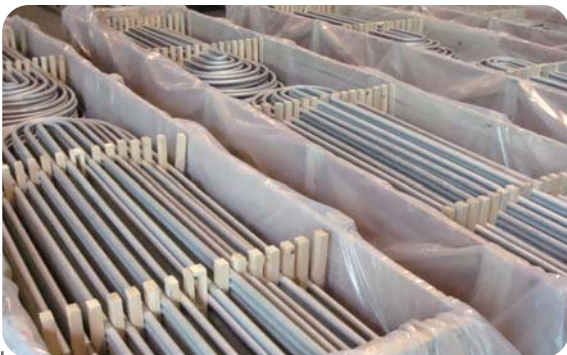


Available Metal U-bent Tubes

Products	Dimensions (mm)			Standards	Materials	Remarks
	O.D.	W.T.	Length			
U-bent Tubes for Heat Exchanger	12.7-76.2mm (1/2"-3")	0.5-5.16mm (0.02"-0.203")	Leg Length:15.24m (50') Total length: 32.00m(105')	ASTM/ASME A/SA179, 192, 210	A/SA179,192, 210 A1 C, 10#,20#	Seamless Carbon steel U-bent tubes
				ASTM/ASME A/SA213	T5, T11,T12, T22, T9, T91, TP304/304L, TP304H, TP316/316L, TP347/347H, TP316Ti, TP321/321H, TP310S	Seamless Ferritic and Austenitic Stainless Steel U-bent Tubes
				ASTM/ASME A/SA249	TP304, TP304L, TP316, TP316L...	Welded Stainless Steel U-bent Tubes
				ASTM/ASME A/SA789	UNS S31803/32205, UNS S32750...	Duplex Stainless Steel U-bent Tubes
				ASTM/ASME A/SA163	Monel400, UNS N06600, 625, Incoloy800/800H, 825...	Seamless Nickel Alloy U-bent Tubes
				ASTM/ASME A/SA268	TP405, TP409, TP410, TP430,TP439...	Ferritic and Martensitic Stainless Steel Seamless U-bent Tubes
Seamless and (Welded)Re-drawn Stainless Steel Feed Water Heater U-bent Tubes	12.7-25.4mm (1/2"-1")	0.7-3.05mm (0.028"-0.12")	Leg Length:15.24m (50') Total length: 32.00m(105')	ASTM/ASME A/SA668/213 ASTM/ASME A/SA803	TP304, TP304L, TP304LN, TP316, TP316L, TP316LN, TP439	Low Pressure Feed Water Heater of Thermal Power Station
Seamless Carbon Steel Feed Water Heater U-bent Tubes	15.88-25.4mm (5/8"-1")	1.24-3.05mm (0.049"-0.12")	Leg Length:15.24m (50') Total length: 32.00m(105')	ASTM/ASME A/SA556	Gr. A2, B2, C2	High Pressure Feed Water Heater of Thermal Power Station



Stainless steel U-bent Tube



Nickel alloy U-bent Tube



Tubes after bending



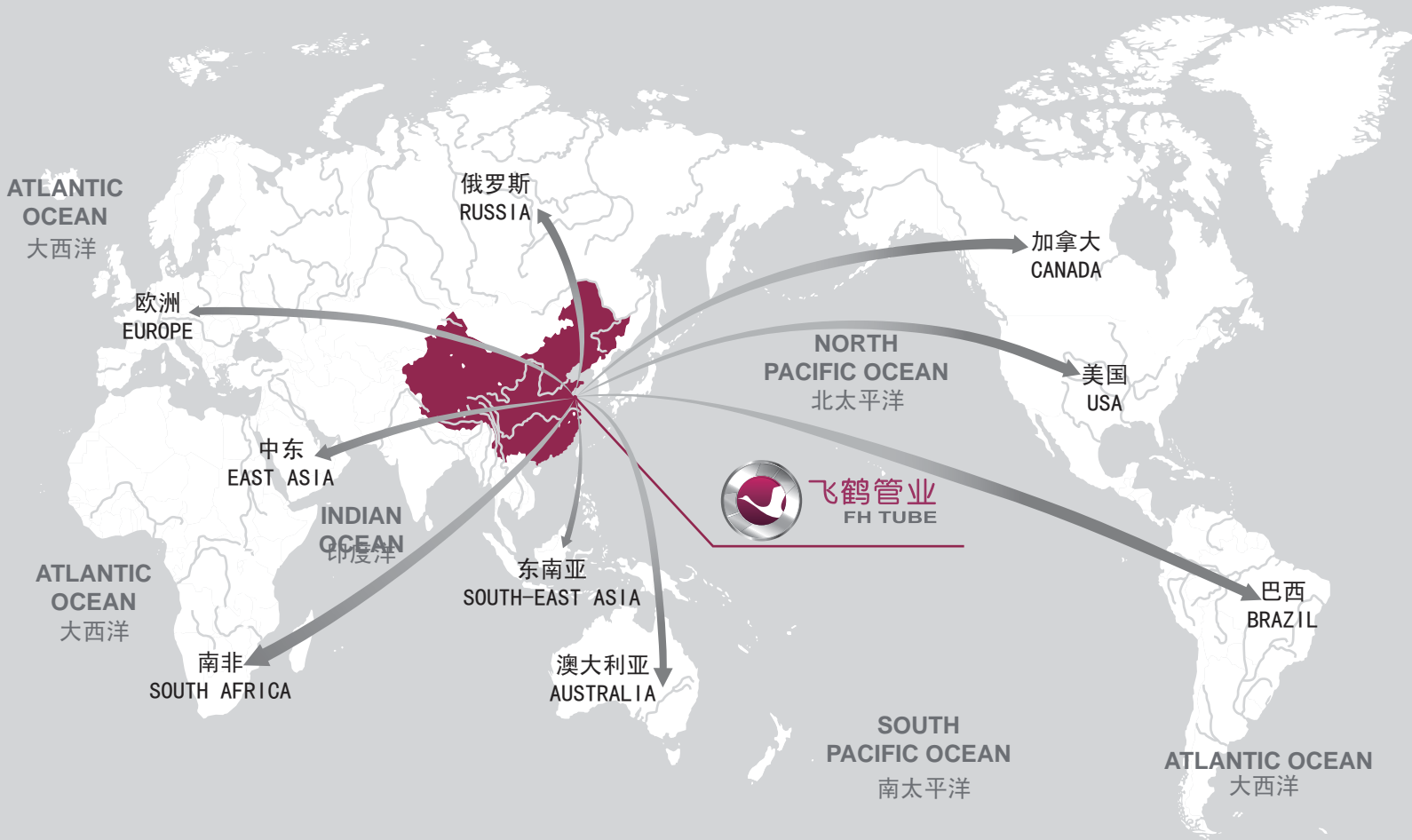
Electric stress relief annealed tubes



Safe shipment

飞鹤管业在世界领域的销售

FH TUBE TO THE WORLD



海运
BY SEA



陆运
BY TRUCK



空运
BY AIR

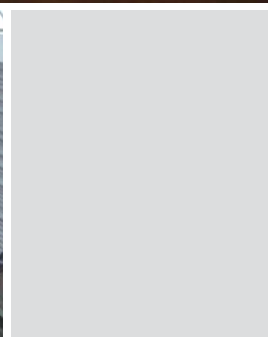
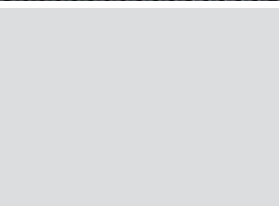


铁路
BY TRAIN





B/SB163
 EN10216-3, A/SA334, A/SA192, B/SB677
 EN10216-2, GB5310, A/SA213, GOST550-75, B/SB423, B/SB668
 GOST9941-81, B/SB444
 EN10216-5, B/SB407, A/SA312, A/SA210, B/SB668
 A/SA192, A/SA179, GB5310
ASTM/ASME GB9948, A/SA268
 A/SA803, B/SB165, A/SA210, GB5310, GB13296, GB13296, A/SA192, B/SB677
 A/SA334, B/SB407, GOST A/SA268, TY14-3P-55-2001
 A/SA556, A/SA179, GOST550-75, A/SA556, B/SB444
GB14976 **ASTM/ASME**
 A/SA192, B/SB163
 B/SB829, B/SB668, TY14-3P-55-2001, B/SB423
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 A/SA335, EN10216-3, **GB14976**, A/SA213, EN10216-5
 A/SA210, B/SB677, A/SA789, **GB9948**
 GB9948, GOST9941-81
B/SB444
GB13296
 GOST550-75
 A/SA688
 A/SA803
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A/SA789, GB5310, A/SA268
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 B/SB829, EN10216-5
 B/SB163, **A/SA268**
 B/SB165, A/SA335
B/SB167, A/SA556
 A/SA210, A/SA192



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