



SHANGHAI
HUAXIA INDUSTRY CO.,LTD

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HOOVOW 2010.3



STRICT ADMINISTRATION
+
PRECISION MANUFACTURE
=
HIGH QUALITY

Company Profile

Huaxia Group is united by 4 mills and 1 trading company, the mills are held by Shanghai Huaxia Industry Co., Ltd, as one of the largest and leader manufacturers of



Titanium, Stainless Steel, Duplex & Supper Duplex, Nickel & Nickel Alloy Tube/Pipe, Sheet/Plate, Bar/Wire, Clad Material in China, Huaxia supplied 3000MT Titanium sheet/plate, 500MT Titanium tube/pipe, 5000MT Stainless Steel Tube per year for industries of Aerospace, Ship building, Aviation, Nuclear Power Station, Petroleum, Chemical, Medicine, Thermal & Hydraulic Power Generation, Mechanical, Foodstuff, Chlorination, Sports etc. The trading company Shanghai Huaxia International Trading Co., Ltd not only deal with the import & Export business for the group members, but also support the clients for all the requirements.

Huaxia invested the quality and future, Huaxia regard quality as the company life. The quality control start from the raw material, good raw material is the basic of the good quality. As the professional manufacturer, Huaxia own the professional engineers of metallurgy more than 40 persons, among which 14 persons hold the Senior Title. Huaxia has been adopted for producing Titanium, Stainless Steel, Duplex & Supper Duplex, Nickel & Nickel Alloy products according to ASTM/ASME. JIS, DIN, EN, GB specification. "CSM" products have been used in everywhere in the world.

Huaxia is focused on the development of China Special Metal, and shoulder the responsibility of founding producing basic of the special metal in Shanghai. Huaxia is focused competitive price by technical improving, Huaxia hope to be the first choice of the clients with good price, good quality, good delivery and good service.

Trust Huaxia and win the future with Huaxia.



Memorabilia

- 1985 Establish China Huaxia Nonferrous Metal Group in Fujian.
- 1999 Establish Xiamen Huaxia Special Metal Industry Co., Ltd in Fujian.
- 2003 Move to Shanghai from Fujian and establish Shanghai Huaxia Industry Co., Ltd and Shanghai Huaxia International Trading Co., Ltd.
- 2004 Shanghai Huaxia Industry Co., Ltd bought Baosteel Shanghai No.3 Stainless Steel sheet plant and join venture with Baosteel for the mill producing.
- 2004 The 1st and biggest order of Supper Duplex Tube to Middle East. Total quantity 80MT
- 2005 Shanghai Huaxia Industry Co., Ltd establish the titanium tube mill.
- 2005 Supply 35MT Titanium Tube to Thailand PTA Project.
- 2006 Shanghai Huaxia as the holding company of the stainless steel tube mill.
- 2007 Capital Reorganization of Shanghai Huaxia, Bought back the shares from Baosteel.
- 2007 Patent of 《Over plasticity forming method of titanium plate heat exchanger sheet》
- 2008 "High Technology Enterprise" of Shanghai.
- 2008 "Technical Center" of Shanghai.
- 2008 Win the Essar Project Stainless Steel Tube order. Total Quantity 400MT.
- 2009 Patent of 《Forge Method to improve the property of Titanium 6Al-4V of 》



Culture of the Enterprise



- Professional spirit: We manufacture the products specialized in professional knowledge with high-level service.
- Enterprising spirit: Keep improving, specialty and aim high for our company.
- Devoting spirit: Demanding absolute dedication from our employees who are responsible for our products, for our company and for our all customers.
- Team spirit: All people unite as one who help each other and all guys are well coordinated.
- Our company Huaxia is the same pronunciation as Huaxia of th Chinese Nation. As a descendant of Chinese, every members in Huaxia company should develop the Chinese National spirit of wisdom, diligence, braveness and sincerity to work for Huaxia's brand as the first-class one all over the world and win glory for Huaxia motherland.

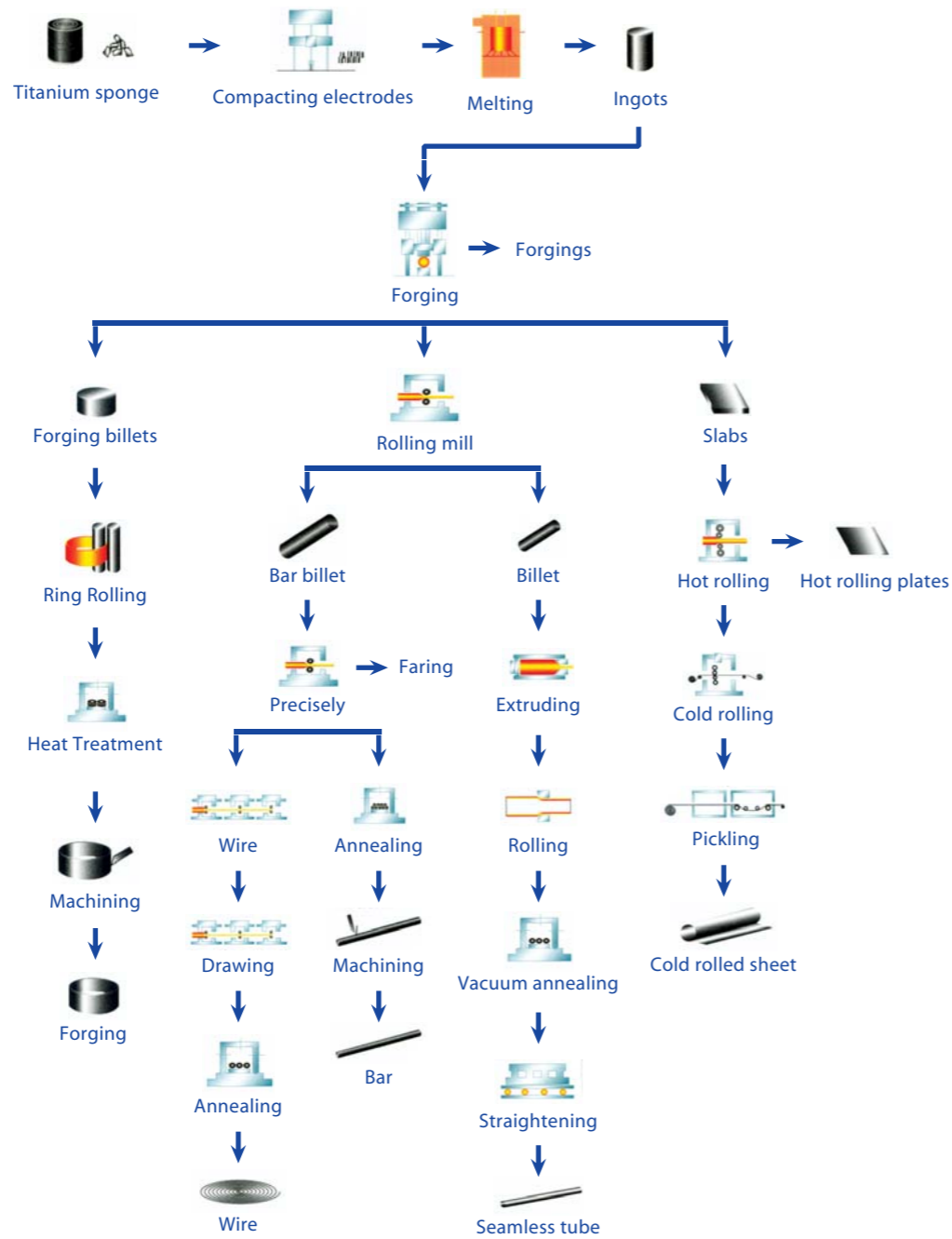


Organization

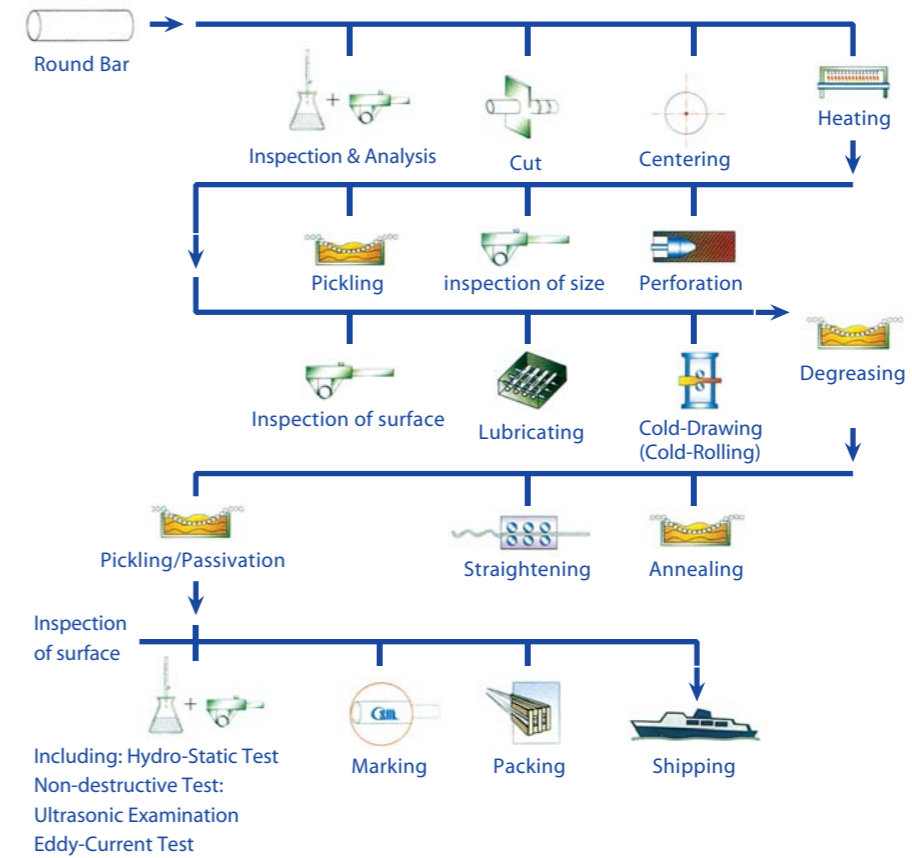


Manufacturing Process For Titanium

Titanium & Titanium alloys



Manufacturing Process For Stainless Steel Tube/Pipe



Products

Titanium Sheet/Plate/Coil

Based on titanium and titanium alloy of Huaxia's goods, the annual capability reaches 3000tons, of which 1000tons feature a hit product as sheets for plate heat exchanger. Our goods have been sold all over the world in accordance with specification GB, ASTM/ASME,AMS,MIL,DIN,JIS etc. In 2010, Huaxia new product-titanium coil will enter the market.



TYPE		Finish Condition	Size
GB	ASTM		
TA0 TA1	Gr.1 Gr.2	Cold rolling	Thk: 0.4 - 4.0mm Width: ≤ 1250mm Length: ≤ 3000mm
TA2 TA3	Gr.3 Gr.4		
TA5 TA6	Gr.5 Gr.7		
TA7 TA9	Gr.9 Gr.11	Hot rolling	Thk: 0.4 - 50mm Width: ≤ 2000mm Length: ≤ 7000mm
TA10	Gr.12		
TC1 TC2	Gr.16	Cold coil	Thk: 0.4 - 3.0mm Width: ≤ 1350mm Weight per coil: 1500kg - 5000kg
TC3 TC4	Gr.17		

Production line for hot rolling



Hot rolling line



3.3m + 4.2m
3.3m + 4.2m Hot rolling mill



Heating furnace by natural gas



Hot rolling



Production line for cold rolling



Cold rolling sheets



Cold rolling coil



2 sets 1.2m cold rolling mill



Equipment for Annealing



No.1 Vacuum Annealing Furnace



No.2 Vacuum Annealing Furnace



Heating furnace



Annealing furnace for semi manufactured goods



Raw material

In order to guarantee the quality, we strictly control the source of raw material, even from the selecting of Ti sponge till the establishment, tracking and acceptance of technical & arts for melting and forging.



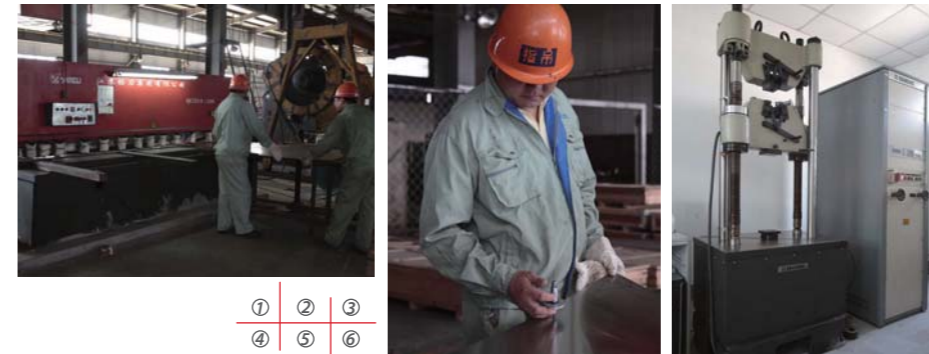
Imported ingot for high quality sheet



Slab



Quality Control



- ① Cutting
- ② Final Inspection
- ③ 30tons tensile testing machine
- ④ Cup testing
- ⑤ Sclerometer
- ⑥ Exporting Packing



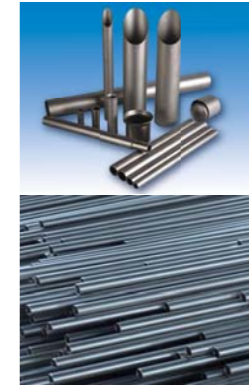
Quality and Service



Titanium and Titanium Alloys Tube and Pipe

1. seamless Tube/Pipe Size

OD \ WT	0.3	0.5	1	1.5	2	2.5	3	3.5	4	4.5	5	6-8
6-10mm												
10-15mm												
15-20mm												
20-25mm												
25-30mm												
30-35mm												
35-40mm												
41-45mm												
46-50mm												
51-55mm												
56-60mm												
61-65mm												
66-70mm												
71-75mm												
76-95mm												
95-114mm												
114-159mm												



Standard: ASTM/ASME B/SB338、B337 and ASTM B861

Available Material Chemical Composition and Mechanical Property



Available Material Chemical Composition

Element Type	N	C	H	Fe	O	Al	V	Mo	Ni	Pd	Ti
Gr.1	≤0.03	≤0.08	≤0.015	≤0.2	≤0.18						Residual
Gr.2	≤0.03	≤0.08	≤0.015	≤0.3	≤0.25						Residual
Gr.3	≤0.05	≤0.08	≤0.015	≤0.3	≤0.35						Residual
Gr.7	≤0.03	≤0.08	≤0.015	≤0.3	≤0.25					0.12-0.25	Residual
Gr.9	≤0.03	≤0.08	≤0.015	≤0.25	≤0.15	2.5-3.3	2.0-3.0				Residual
Gr.12	≤0.03	≤0.08	≤0.015	≤0.3	≤0.25			0.2-0.4	0.6-0.9		Residual

Mechanical Property

Gr.1	$\sigma_b \geq 240\text{Mpa}$	$170\text{Mpa} \leq \sigma_{0.2} \leq 310\text{Mpa}$	$\delta \geq 24\%$
Gr.2	$\sigma_b \geq 345\text{Mpa}$	$275\text{Mpa} \leq \sigma_{0.2} \leq 450\text{Mpa}$	$\delta \geq 20\%$
Gr.3	$\sigma_b \geq 450\text{Mpa}$	$380\text{Mpa} \leq \sigma_{0.2} \leq 550\text{Mpa}$	$\delta \geq 18\%$
Gr.7	$\sigma_b \geq 345\text{Mpa}$	$275\text{Mpa} \leq \sigma_{0.2} \leq 450\text{Mpa}$	$\delta \geq 20\%$
Gr.9A	$\sigma_b \geq 620\text{Mpa}$	$485\text{Mpa} \leq \sigma_{0.2}$	$\delta \geq 15\%$
Gr.9B	$\sigma_b \geq 860\text{Mpa}$	$725\text{Mpa} \leq \sigma_{0.2}$	$\delta \geq 10\%$
Gr.12	$\sigma_b \geq 483\text{Mpa}$	$345\text{Mpa} \leq \sigma_{0.2}$	$\delta \geq 18\%$

2. welded pipe size

Size		Size	
OD	5"~56"	L	≤7000mm
WT	Sch 5s ~Sch 160s	STANDARD	ASTM/ASME B862

Quality and Service



Producing Equipment for Seamless Tube & Welded Pipe



12m Annealing Furnace



18m Annealing Furnace



Cold rolling



Straightening



9m Pipe Fabrication Machine



8.5m Plasma Auto Welding



Quality Control



Inspection Workshop



UT test



Eddy Current test



HON Analyzer



Hydro-Static Test



Stainless Steel Tube/Pipe, duplex & Super duplex Tube/Pipe

Stainless Steel Seamless Tube

1. Size

WT	0.6	1.0	1.2	1.5	1.8	2.0	2.2	2.5	2.8	3.0	3.5	4.0	4.5	5.0	6.0	6.0	7.0	7.5	8.0	9.0	9.5	10.0	11.0	12.0	14.0	16.0		
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102																												
108																												
114																												
127																												
133																												
139																												
141																												
159																												
168																												



2. Available Grades

TP304 / 304L / 304H
TP310 / 310S
TP316 / 316L / 316Ti
TP317 / 317L
TP321 / 321H
KY704(C4)
00Cr16Ni14Si4
TP347 / 347H
UNS 31803
UNS 32750

The chemical composition As Per ASTM

Bement Type	Ni	P	Mo	Mn	C	Si	S	Cr	Cu	N
304	8.00-11.0	0.04	...	2	0.08	0.75	0.03	18.00-20.0	...	...
304L	8.00-13.0	0.04	...	2	0.035	0.75	0.03	18.00-20.0	...	...
310S	19.00-22.0	0.05	0.75	2	0.08	0.75	0.03	24.0-26.0	...	...
316	11.0-14.0	0.04	2.0-3.0	2	0.08	0.75	0.03	16.0-18.0	...	...
316L	10.0-15.0	0.04	2.0-3.0	2	0.035	0.75	0.03	16.0-18.0	...	...
317	11.0-14.0	0.04	3.0-4.0	2	0.08	0.75	0.03	18.00-20.0	...	...
317L	11.0-15.0	0.04	3.0-4.0	2	0.035	0.75	0.03	18.00-20.0	...	...
321	9.00-13.0	0.04	...	2	0.08	0.75	0.03	17.00-20.0	...	...
321H	9.00-13.0	0.04	...	2	0.04-0.10	0.75	0.03	17.00-20.0	...	...
347	9.00-13.0	0.04	...	2	0.08	0.75	0.03	17.00-20.0	...	...
347H	9.00-13.0	0.04	...	2	0.04-0.10	0.75	0.03	17.00-20.0	...	...
31803	4.5-6.5	0.03	2.5-3.5	2	0.03	1.0	0.02	21.0-23.0	...	0.08-0.20
32750	6.0-8.0	0.035	3.0-5.0	1.2	0.03	0.80	0.02	24.0-26.0	0.5	0.24-0.32

3. International Standards

JIS	ASTM/ASME	DIN	EN
G3446	A213/SA213	DIN2462	EN10216-5
G3447	A249/SA249	DIN2463	EN10217-7
G3448	A312/SA312	DIN17457	
G3459	A269	DIN17458	
G3463	A999		
	A1016		
	A789		
	A790		

4. Inspections and Tests

- **Chemical Composition Analysis:** SpectroAnalysis
- **Mechanical Property Tests:** Impact Test, Tension Test; Flaring Test, Flattening Test, Flange Test, Bending Test, Hardness Test
- **Intergranular Corrosion Test**
 - **Hydro-Static Test**
 - **Pneumatic Test** (Air pressure test under water)
 - **NDT Tests:** Eddy-Current Test, Ultrasonic Test,

Equipment for Tube



Annealing



Perforation



Cold rolling



Pilger Mill



Bright Annealing Furnace

Quality Control



Eddy Current test



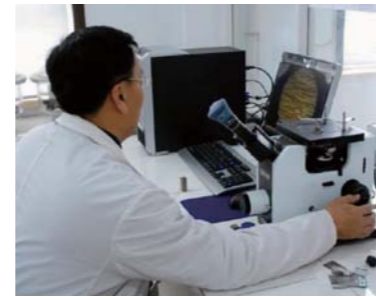
Tensile test



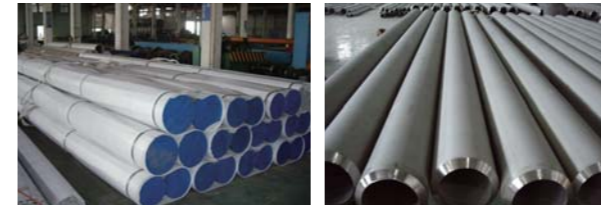
PMI (Portable Metal Analyzer)



Intergranular Corrosion Test



Stainless Steel Seamless Pipe



1. Size

OD \ WT	Sch5S	Sch10S	Sch40S	Sch80S	Sch160S	XX
1/8"(10.3mm)						
1/4"(13.70mm)						
3/8"(17.10mm)						
1/2"(21.3mm)						
3/4"(26.7mm)						
1"(33.4mm)						
1 1/4"(42.2mm)						
1 1/2"(48.3mm)						
2"(60.3mm)						
2 1/2"(73mm)						
3"(88.9mm)						
3 1/2"(101.6mm)						
4"(114.3mm)						
5"(141.3mm)						
6"(168.3mm)						
8"(219.1mm)						
10"(273.1mm)						
12"(323.9mm)						
14"(355.6mm)						
16"(406.4mm)						
18"(457.2mm)						
20"(508mm)						
24"(609.6mm)						

2. Available Grades

TP304 / 304L / 304H
TP310 / 310S
TP316 / 316L / 316Ti
TP317 / 317L
TP321 / 321H
KY704(C4)
00Cr16Ni14Si4
TP347 / 347H
UNS 37803
UNS 32750

3. International Standards

JIS	ASTM/ASME	DIN	EN
G3446	A213/SA213	DIN2462	EN10217-7
G3447	A999	DIN2463	
G3448	A789	DIN17457	
G3459	A790	DIN17458	
G3463			

4. Inspections and Tests

- **Chemical Composition Analysis:** Spectro Analysis
- **Mechanical Property Tests:** Impact Test, Tension Test; Flaring Test, Flattening Test, Flange Test ,Hardness Test
- **Intergranular Corrosion Test**
- **Hydro-Static Test**
- **NDT Tests:** Eddy-Current Test,Ultrasonic Test

Quality and Service



Equipment for Pipe



Annealing

Cold Drawing

Cold Drawing

Large-diameter device



UT Inspection

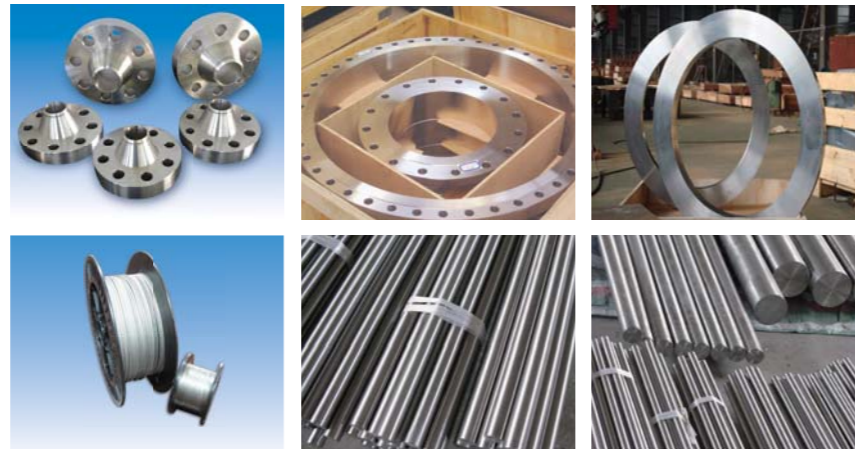
Hydro Inspection

Eddy Current inspection



Titanium Forging

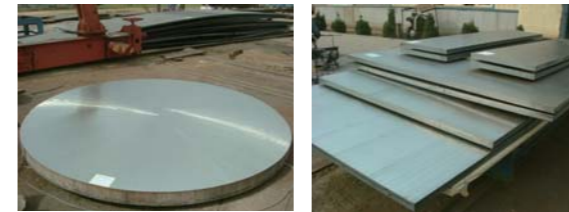
Standard: ASTM/ASME B/SB 348, ASTM B381, ASME B16.5



Available Size:

Description	Size Range
Bar	Dia 6mm ~ Dia 200mm x ≤ 4000mm
Disk	Dia ≤ 3000mm, Thk ≥ 40mm
Ring	OD ≤ 3000mm, H ≥ 40mm
Wire	Dia 0.1mm ~ Dia 6.0mm x coil
Flange	Dia 1/2" ~ 24" Type: Blank Flanges, Screwed Flanges, Slip-on Flanges, Weld Neck Flanges, Lapped Flanges

Clad Material



Clad plates have two layers clad material and base material. Ti+Cu, Ti+Ni, Ti+steel, Ti stainless steel etc.

Clad Bar:



Specification and Type of Clad Material:

	TYPE		Thickness		Width	Length
			Clad	Base		
Plate	Two Layer Clad Material/Base	Ti+Cu, Ti+Al Ti+Ni, Ti+CS	1mm~20mm	2mm~200mm	3000mm	6000mm
	Three Layers Clad Material/ Base/Clad Material	Ti+SS, CS+SS ctc.	0.1mm~10mm/ 0.1mm~10mm	1mm~100mm	3000mm	6000mm
Disk	Two Layers Clad Material/Base	Ti+Cu, Ti+Al Ti+Ni, Ti+CS Ti+SS, CS+SS ctc.	1mm~20mm	Dia<3800mm, Thk<200mm		
Bar	Drum, Round Square, Hollow	Ti+Cu	As per agreement			
Tube			As per agreement			

Fitting



1. Type:

L/R 90° Elbow/45° Elbow; S/R 90° Elbow/45° Elbow;
Straight Tee; Reducing Tee; Cap Stub End; Flange.

2. Available Material:

- **Titanium:** GR1、GR2
- **Stainless Steel:** TP304/304L; TP316/316L; TP321/321L

3. Standard:

wall thickness are in accordance with ANSI B36.10 and B36.19 where applicable
Dimensions are in accordance with ANSI B16.9 MSS.SP43.

Size Range:

A	B	MM	SCH5S	SCH10S	SCH40S	SCH80S	SCH10	SCH20	SCH30	SD	SCH40	SCH60	XS	SCH80	SCH100	SCH120	SCH140	SCH160	XXS	
8	1/4	13.7	—	1.65	2.24	3.02	—	—	—	—	—	—	—	—	—	—	—	—	—	
10	3/8	17.1	—	1.65	2.31	3.20	—	—	—	—	—	—	—	—	—	—	—	—	—	
15	1/2	21.3	1.65	2.11	2.77	3.73	2.11	—	3.41	2.77	2.77	—	3.73	3.73	—	—	—	—	4.78	7.47
20	3/4	26.7	1.65	2.11	2.87	3.91	2.11	—	2.41	2.87	2.87	—	3.91	3.91	—	—	—	—	5.56	7.82
25	1"	33.4	1.65	2.77	3.38	4.55	2.77	—	2.9	3.38	3.38	—	4.55	4.55	—	—	—	—	6.35	9.09
32	1.1/4"	42.2	1.65	2.77	3.56	4.85	2.77	—	2.97	3.56	3.56	—	4.85	4.85	—	—	—	—	6.35	9.70
40	1.1/2"	48.3	1.65	2.77	3.68	5.08	2.77	—	3.18	3.68	3.68	—	5.08	5.08	—	—	—	—	7.14	10.15
50	2"	60.3	1.65	2.77	3.91	5.54	2.77	—	3.18	3.91	3.91	—	5.54	5.54	—	—	—	—	8.74	11.07
65	2.1/2"	73.0	2.11	3.05	5.16	7.01	3.05	—	4.78	5.16	5.16	—	7.01	7.01	—	—	—	—	9.53	14.02
80	3"	88.9	2.11	3.05	5.49	7.62	3.05	—	4.78	5.49	5.49	—	7.62	7.62	—	—	—	—	11.13	15.24
90	3.1/2"	101.6	2.11	3.05	5.74	8.08	3.05	—	4.78	5.74	5.74	—	8.08	8.08	—	—	—	—	—	—
100	4"	114.3	2.11	3.05	6.02	8.56	3.05	—	4.78	6.02	6.02	—	8.56	8.56	—	11.13	—	—	13.49	17.12
125	5"	141.3	2.77	3.40	6.55	9.53	3.40	—	—	6.55	6.55	—	9.53	9.53	—	12.70	—	—	15.88	19.05
150	6"	168.3	2.77	3.40	7.11	10.97	3.40	—	—	7.11	7.11	—	10.97	10.97	—	14.27	—	—	18.26	21.95
200	8"	219.1	2.77	3.76	8.18	12.70	3.76	6.35	7.04	8.18	8.18	10.31	12.70	12.70	15.09	18.26	20.62	23.01	22.23	
250	10"	273.0	3.40	4.19	9.27	12.70	4.19	6.35	7.80	9.27	9.27	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40	
300	12"	323.8	3.96	4.57	9.53	12.70	4.57	6.35	8.38	9.53	10.31	14.27	12.70	17.48	21.44	25.40	28.58	33.32	25.40	
350	14"	355.6	3.96	4.78	9.53	12.70	6.35	7.92	9.53	9.53	11.13	15.09	12.70	19.05	23.83	27.79	31.75	35.71	—	
400	16"	406.4	4.19	4.78	9.53	12.70	6.35	7.92	9.53	9.53	12.70	16.66	12.70	21.44	26.19	30.96	36.53	40.49	—	
450	18"	457.2	4.19	4.78	9.53	12.70	6.35	7.92	11.13	9.53	14.27	19.05	12.70	23.83	29.36	34.93	39.67	45.24	—	
500	20"	508.0	4.78	5.54	9.53	12.70	6.35	9.53	12.70	9.53	15.09	20.62	12.70	26.19	32.54	38.10	44.45	50.01	—	
550	22"	558.8	4.78	5.54	9.53	12.70	6.35	9.53	12.70	9.53	—	22.23	12.70	28.58	34.93	41.28	47.63	53.98	—	
600	24"	609.6	5.54	6.35	9.53	12.70	6.35	9.53	14.27	9.53	17.48	24.61	12.70	30.96	38.89	46.02	52.37	59.54	—	



Equipment



Cold forming



Heat treatment

Fin Tube

We are able to manufacture low-finned or high-finned tubes in many different materials like CARBON STEEL, TITANIUM, STAINLESS STEELS AISI 304, 321, 316, COPPER, CU/NI 90/10, CU/NI 70/30, ADMIRALTY BRASS, ALUMINUM BRASS, etc.

We own cold-winding equipment and high frequency welding machine, U.S.A.

Application:

Cellpaking processing of heat pipes, economizers of boiler for generating station, boilers of waste heat for generating station, petrochemical engineering.



Size Range:

TYPE	OD(mm)	WT(mm)	L(mm)	Height of fin fan	Thickness of fin fan	Fin material
High Frequency Welding	22-219	2-16	20000	6-30	1-3	CS,SS
Cold-Winding L Type. G Type	12-50.8	1-5	12000	6-19	0.4	Al
Extrude Type	12-50.8	1-5	12000	6-19	0.4	Al

Nickel and Nickel Alloy Tube/Pipe

Standard: ASME/ASTM B163

Available Grade: UNS NO 2200, UNS NO 2201, UNS NO 4400, UNS NO 6600

Available Size:

OD: 10mm - 76mm

Wall thickness: 1mm - 7mm

Length: 12000mm max



1. Size:

Size	OD (mm)	WT (mm)	Length
Nickel & Nickel Alloy Tube/Pipe	10~76	1~7	12m max

2. Available Grades:

Monel 400, Inconel 600, UNS2200, UNS No2201 The chemical composition and Mechanical Property

Type	Ni	Cu	Fe	Mn	C	Si	S	Cr	σ_b Mpa	$\sigma_{0.2}$ Mpa	δ %
Monel400	≥63.0	28.0/34.0	≤2.5	≤2.0	≤0.3	≤0.5	≤0.024		≥483	≥193	≥35
Incone1600	≥72.0	≤0.05	6.0/10.0	≤1.0	≤0.15	≤0.50	≤0.015	14.0/17.0	≥552	≥241	≥30
UNS 2200	≥99.0	≤0.25	≤0.40	≤0.35	≤0.15	≤0.35	≤0.01		≥379	≥103	≥40
UNS No2201	≥99.0	≤0.25	≤0.40	≤0.35	≤0.02	≤0.35	≤0.01		≥345	≥83	≥40

Ferro alloy Tube/Pipe

Available Size:

OD: 10mm-76mm

Wall thickness: 1mm - 10mm

Length: 12000mm max



Standard: ASME/ASTM B163

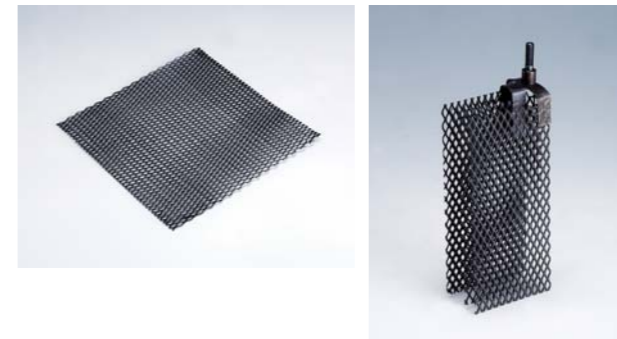
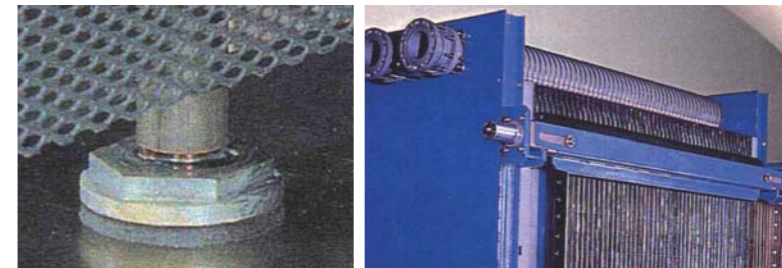
Available Grade and Chemical Composition(%), Mechanical Property

Type	Ni	Cu	Fe	Mn	C	Si	S	Cr	Al	Ti	σ_b Mpa	$\sigma_{0.2}$ Mpa	δ %
Incoloy800	30.0/35.0	≤0.75	≤39.5	≤1.5	≤0.10	≤1.0	≤0.015	19.0/23.0	0.15/0.60	0.15/0.60	≥517	≥207	≥30

Titanium anode

Huaxia Anode production starts from the demand of green material with "saving energy, saving material, non-polluted environment", also, gathers a number of experienced and outstanding professors to research and manufacture the titanium anode with Huaxia's characteristics. Now the current yield of titanium anode has reached 50,000m² per year.

Now Huaxia can provide titanium anode in the fields of Chlor-alkali Industry, Electroplating Industry, Wasterwater treatment, Water treatment, Cathodic protection and so on. The size will follow customer's requirement.



① ②
③ ④

- ① Titanium Anode in diaphragm cell
- ② Titanium Anode and Cathode in membrane cell electrolyzers
- ③ ④ Titanium Anode Mesh

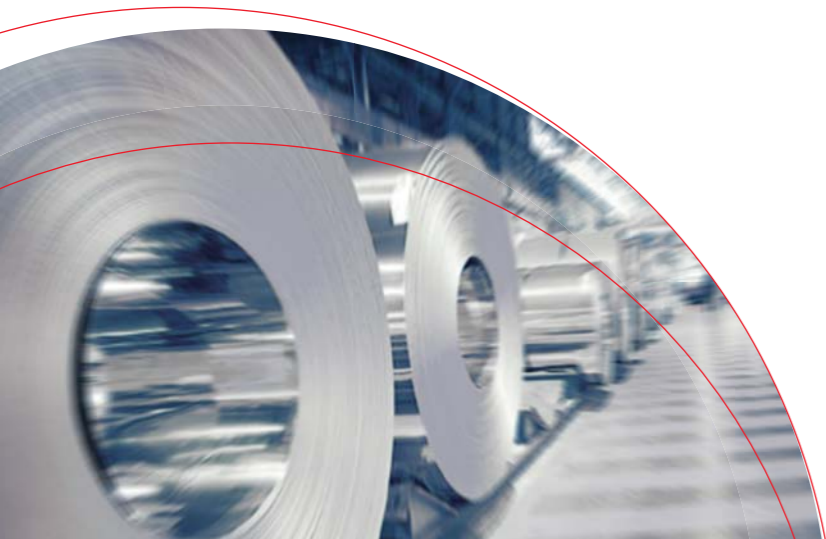
Applications



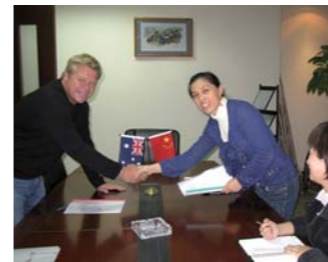
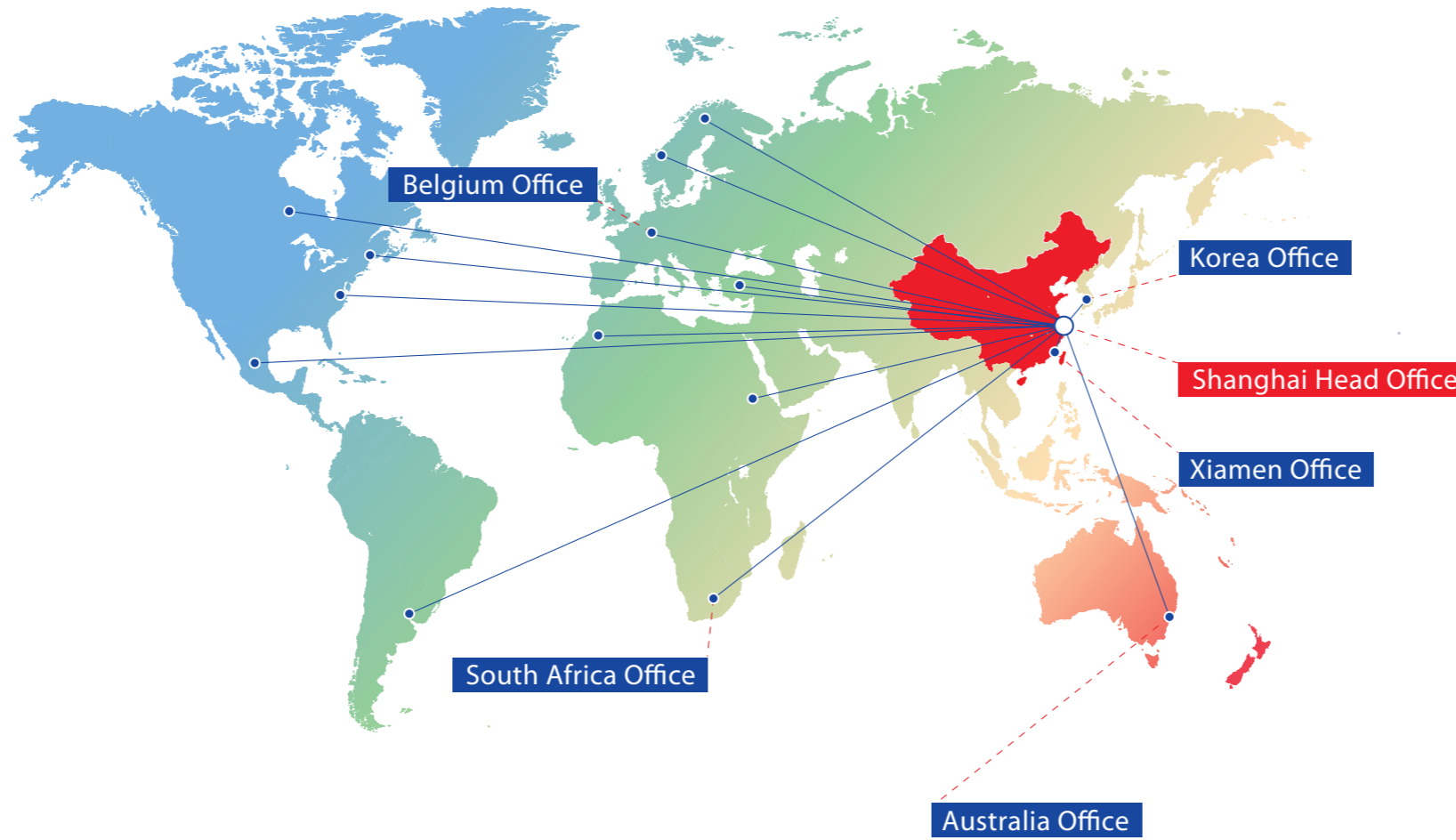
- ① Chemical Industry Petrochemical Industry
- ② Heat Exchangers
- ③ Nuclear and Thermal Power Plants



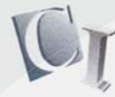
- ④ ⑤ Others
- ⑥ Offshore Structures
- ⑦ Ship Building



Global market



Reference



API Heat Transfer



.ICARUS



AsahiKASEI

