

JAYHIND METAL & TUBES

**Stockist & Supplier of
Stainless Steel, Duplex & Exotic Raw Material**

High Intention Sincere Effort



OUR STRENGTH TO YOUR BENEFITS

- Ready stock of basic raw materials from reputed manufacturers across the globe.
- With constantly innovating, finding new services & new solutions.
- By meeting standards for quality, price & delivery.
- By making parts & assemblies in total conformance to requirement & deliver them on time, every time.
- By maintaining close communication & long term active partnerships to increase value for end users.

You'll welcome us when you see how we constantly improve our services by eliminating waste & applying better methods & technologies to everything we do to reduce costs & ensure repeatability of precise specifications, job after job.

About Us

JAYHIND METAL & TUBES is a well established Trading House engaged into manufacturing & distributing business since two decades to cater the various applications in Powerplants, Oil & Gas, Heat Exchangers, Pharmaceutical, Food, Engineering, Chemical, Refineries, Industrial, Automobiles, Dairy & Brewery Industries .At JAYHIND, We constantly explore the cutting edge of technology for better solutions. Our objectives compel us to add new services & move to new levels of reliability, responsiveness & quality to share our knowledge with our business partners.

Quality Policy

Our quality assurance programme is documented in an approved quality assurance manual and covers all manufacturer, sales and services procedures. Stringent control of dimension and mechanical properties starting from the raw material and following right through all production steps to laboratory test as the final product is exercised in order to maintain the high quality of products. Our quality assurance system assures every product to go through the following quality system.

Mission

JAYHIND aims to be established as a brand for the Stainless Steel high quality products with enhanced customer satisfaction by meeting all their technical needs under one roof with the Principal of Fairness & becoming business partner to the customer.





Production & Quality Facilities At Glance

Total Welded Output	2400 MTons / annum
Total Seamless Output (Cold Pilgered & Cold Drawn)	1850 MTons / annum
Product Type	Seamless & Welded Tubes, Pipes, U tubes & Coil formed Tubes
Product Category	Austenitic, Super Austenitic, Duplex, Super Duplex & Nickel Alloys

- Bright Annealed small Dia Thin wall tubes in Straight & Coil form
- U Bend Tubes for Pressure Equipments with Dev. Length up to 24 Mtrs
Tubes & Pipes with superior corrosion resistance upto 15 MPY in acc. to ASTM A 262 - IGC Pr. B & C.
- ID - Electropolished (Ra - upto 0.4u) & OD - Mechanical polished up to 800 Grits.

In House Testing Facilities - Water Leak (Hydro) Test, Air under Water (Pneumatic) Test,
Online & Offline Eddy Current Testing, Ultrasonic Testing, IGC Pr. A & E
to assure & certify the right product quality inline with our prime motto of -

"Quality First Customer Always"

About Group

The most modern Stainless Steel Tube Plant, having "State of the Art" facility at Savli GIDC near Baroda, Gujarat is named "**KRYSTAL STEEL MANUFACTURING PRIVATE LIMITED**", manufactures Seamless & Welded – Stainless Steel, Duplex & Nickel Alloy Tubes & Pipes conforming to all International Standards and Grades to meet various applications viz. Power Plant, Pharmaceuticals, Oil & Gas Industries, Automobiles, Desalination as well as Fabrication Industry applications -Heat Exchangers, Economizers, Heat Recovery Systems and many more....

Certified & Approved By

DIN EN ISO 9001:2008 → PED → AD 2000 - Merkblatt W8 Compliant





* Product Range

TP - Type of Tubular Products	SEAMLESS	WELDED	' U ' TUBES
Grades	Austenitic (300)Series	Austenitic (300)Series	Austenitic (300) Series
O.D / N.B	6.0 mm to 254.0 mm & 1/8" NB to 12"NB	6.35 mm to 203.0 mm & 1/8" NB to 20"NB	19.05 mm to 38.10 mm
Thickness	0.6 mm to 12 mm & SCH 5 to SCH XXS	0.6 mm to 6 mm & SCH 5 to SCH 40	1.2 mm to 3.05 mm
ASTM Standard	A213/A269/A270/A312	A249/A269/A270/A312	A688

Type : Round, Square, Rectangular, Oval

- JHMT is specialised distributor of bright annealed Instrumentation & Heat Exchanger Tubes
- JHMT also specialises in PVC coated SS tubes as per 5831 standards Size: 6 mm OD to 25 mm OD
- PVC Coating:- 0.5 mm to 2 mm thickness
- Coating Colour:-As per Customer requirement
- Surface Finish - Inside Electropolished Sureface with Roughness upto 0.3 Ra
Outside Mechanical Mirror / Matt Finish Upto 800 Grits.
- Grades also provided : Duplex Steel, Hast Alloy, Titanium, Monal, Inconel

*Product Metallurgy & Grades -

Austenitic Stainless	-	304/L, 310s, 316/L, 316H, 316Ti, 317L, 321, 321H, 347H etc.
Super Austenitic	-	904L, 254SMo, 6Mo
Duplex & Super Duplex	-	32205, 32750, 32760
Nickel Alloys	-	Monel 400, Inconel - 625 / 825, Alloy 20



BUTT WELDED & FORGED FITTINGS

Size:

Butt Weld: 1/8" NB upto 42" NB in Sch 5, 10, 40, 80, 160, XS, XXS

Forged: 1/8" NB upto 24" NB in 3000#, 6000#, 9000#

Types:

Butt Weld (Seamless & ERW): 45° & 90° Elbow
(in Long & Short Radius) Equal Tee, Unequal Tee,
Eccentric & Concentric Reducer, 'U' Bends,
Nipple, Coupling, Crosses Caps

Socket Weld(Forged): 45° & 90° Degree Elbow, Equal Tee,
Unequal Tee, Eccentric & Concentric Reducer,
Nipple, Coupling, Crosses Caps, Weldoletes,
Socoklets, Threadoletes

RODS

Sizes

Bright Bars : From 5mm Dia upto 250 mm Dia

Black Bars : From 16mm Dia upto 350 mm Dia

Square Bars : From 5mm Dia upto 150 mm Dia

Hex Bars: From 5mm Dia upto 150 mm Dia

Wires : From 0.1mm Dia upto 5 mm Dia

Weilding Electrodes: From 2.6mm Dia upto 4 mm Dia

RCS : 100 x 100 to 250 x 250

Product Metallurgy & Grades -

Austenitic Stainless	-	304/L, 310s, 316/L, 316H, 316Ti, 317L, 321, 321H, 347H etc.
Super Austenitic	-	904L, 254SMo, 6Mo
Duplex & Super Duplex	-	32205, 32750, 32760
Nickel Alloys	-	Monel 400, Inconel - 625 / 825, Alloy 20



SHEETS PLATES COILS

Size:

Sheets: 0.8mm to 4mm thickness in 1000 upto 2000mm Width upto 6000 Length

Plates: 5mm to 100mm thk in 1000 upto 2000mm Width upto 8000 Length

Coils: 0.1mm thk to 12mm thk in 10mm upto 1500mm Width

Foils: 0.1mm thk to 0.3mm thk in any Width

Strips: 1mm to 100mm thk in 10mm Width upto 900mm Width &
1000 upto 6000 Length

Type

Forms : Flats, Circles, Rings

Finish: HR No.1, 2B, BA, Matt, Matt+ 1 Side PVC, Chequered

FLANGES

Sizes

Sizes: 1/8" NB upto 24" NB in 150 #, 300 #, 600 #, 900 #, 1200 #, 1500 #,
Table D, Table E, Table F.

Types

Slip on Flanges (with & without HUB), Blind Flanges (with & without HUB),
Weldneck Flanges, Sockdweid Flanges, Lapped, Joint, Screwed,
Long Weld Neck, Spectacle



PIPE SELECTION GUIDE AS PER ANSI B 36.19 STANDARD
OD'S = mm weight - (kg. p.m)

Nominal pipe size Inches		Outside Diameter (OD) mm	Schedule 5 S		Schedule 10 S		STD		Schedule 40 S		Schedule 40		XS		Schedule 80 S		Schedule 80		Schedule 160		xxs	
mm	Inch		WT mm	WT (kg. p.m)	WT mm	WT (kg. p.m)	WT mm	WT (kg. p.m)	WT mm	WT (kg. p.m)	WT mm	WT (kg. p.m)	WT mm	WT (kg. p.m)	WT mm	WT (kgm)	WT mm	WT (kgm)	WT mm	WT (kgm)	WT mm	WT (kgm)
3	1/8	10.30	-	-	1.24	0.28	1.73	0.37	1.73	0.36	1.73	0.37	2.41	0.47	2.41	0.48	2.41	0.47	-	-	-	-
6	1/4	13.70	-	-	1.65	0.51	2.24	0.63	2.24	0.64	2.24	0.63	3.02	0.60	3.02	0.82	3.02	0.80	-	-	-	-
10	3/8	17.10	-	-	1.65	0.64	2.31	0.84	2.31	0.86	2.31	0.84	3.20	1.10	3.20	1.12	3.20	1.10	-	-	-	-
15	1/2	21.30	1.65	0.82	2.11	1.01	2.77	1.27	2.77	1.30	2.77	1.27	3.73	1.62	3.73	1.65	3.73	1.62	4.78	1.95	7.47	2.55
20	3/4	26.70	1.65	1.04	2.11	1.31	2.87	1.69	2.87	1.71	2.87	1.69	3.91	2.20	3.91	2.24	3.91	2.20	5.56	2.90	7.82	3.64
25	1	33.40	1.65	1.33	2.77	2.13	3.38	2.50	3.38	2.55	3.38	2.50	4.55	3.24	4.55	3.29	4.55	3.24	6.35	4.24	9.09	5.45
32	1 1/4	42.20	1.65	1.68	2.77	2.76	3.56	3.39	3.56	3.46	3.56	3.39	4.85	4.47	4.85	4.56	4.85	4.47	6.35	5.61	9.70	7.77
40	1 1/2	48.30	1.65	1.95	2.77	3.17	3.68	4.05	3.68	4.13	3.68	4.05	5.08	5.41	5.08	5.51	5.08	5.41	7.14	7.25	10.15	9.56
50	2	60.30	1.65	2.44	2.77	4.01	3.91	5.44	3.91	5.54	3.91	5.44	5.54	7.48	5.54	7.63	5.54	7.48	8.74	11.11	11.07	13.44
65	2 1/2	73.00	2.11	3.77	3.05	5.36	5.16	8.63	5.16	8.81	5.16	8.63	7.01	11.41	7.01	11.64	7.01	11.41	9.53	14.92	14.02	20.39
80	3	88.90	2.11	4.60	3.05	6.59	5.49	11.52	5.49	11.52	5.49	11.52	7.62	15.27	7.62	15.59	7.62	15.27	11.13	21.35	15.24	27.68
90	3 1/2	101.60	2.11	5.29	3.05	7.55	5.74	13.57	5.74	13.82	5.74	13.57	8.08	18.63	8.08	19.01	8.08	18.63	-	-	-	-
100	4	114.30	2.11	5.96	3.05	8.52	6.02	16.07	6.02	16.40	6.02	16.07	8.56	22.32	8.56	22.77	8.56	22.32	13.49	33.54	17.12	41.03
125	5	141.30	2.77	9.67	3.40	11.82	6.55	21.77	6.55	22.20	6.55	21.77	9.53	30.97	9.53	31.59	9.53	30.97	15.88	46.11	19.05	57.43
150	6	168.30	2.77	11.55	3.40	14.13	7.11	28.26	7.11	28.83	7.11	28.26	10.97	42.56	10.97	43.42	10.97	42.56	18.26	67.56	21.95	79.22
200	8	219.10	2.77	15.09	3.76	20.37	8.18	42.55	8.18	43.39	8.18	42.55	12.70	64.64	12.70	65.95	12.70	64.64	23.01	111.27	22.23	107.92
250	10	273.10	3.40	23.08	4.19	28.34	9.27	60.31	9.27	61.52	9.27	60.31	12.70	81.55	12.70	83.19	15.09	96.01	28.58	172.33	25.40	155.15
300	12	323.90	3.96	31.89	4.57	36.73	9.53	73.88	9.52	75.32	10.31	79.73	12.70	97.46	12.70	99.43	17.48	132.08	33.32	238.76	25.40	186.97
350	14	355.60	3.96	36.06	4.78	42.14	9.53	81.33	-	-	11.13	94.55	12.70	107.39	-	-	19.05	158.10	35.71	281.70	-	-
400	16	406.40	4.19	42.41	4.78	48.26	9.53	93.27	-	-	12.70	123.30	12.70	123.30	-	-	21.44	203.53	40.49	365.70	-	-
450	18	457.00	4.19	47.77	4.78	54.36	9.53	105.16	-	-	14.27	155.80	12.70	139.15	-	-	23.88	254.55	45.24	459.37	-	-
500	20	508.00	4.78	60.46	5.54	70.00	9.53	117.15	-	-	15.09	183.42	12.70	155.12	-	-	26.19	311.17	50.01	564.81	-	-

CHEMICAL COMPOSITIONS

GRADE	UNS No.	EN No.	C	Cr	Ni	Mo	Others
Austenitic Stainless							
304	S30400	1.4301	0.08	18.00 - 20.00	8.00 - 12.00	—	—
304L	S30403	1.4307	0.035	18.00 - 20.00	8.00 - 12.00	—	—
310S	S31008	1.4845	0.08	24.00 - 26.00	19.00 - 22.00	—	—
316	S31600	1.4401	0.08	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	—
316L	S31603	1.4404	0.035	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	—
316H	S31609	1.4401	0.04 - 0.10	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	—
316Ti	S31635	1.4571	0.08	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	Ti:5x(C+N) - 0.70
317L	S31703	1.4438	0.035	18.00 - 20.00	11.00 - 15.00	3.00 - 4.00	—
321	S32100	1.4541	0.08	17.00 - 19.00	9.00 - 12.00	—	Ti:5x(C+N) - 0.70
347	S34700	1.4550	0.08	16.00 - 18.00	10.00 - 14.00	—	—
347H	S34709	1.4551	0.04 - 0.10	17.00 - 20.00	9.00 - 13.00	—	—

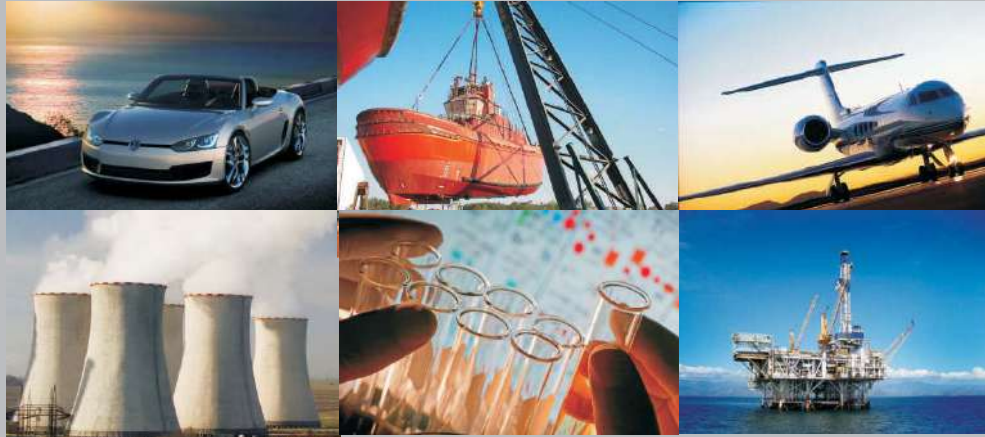
Super Austenitic Stainless							
904L	8904	1.4500	0.02	19.00 - 23.00	23.00 - 28.00	4.00 - 5.00	N : 0.10 max Cu : 1.0 - 2.0
254SMo	31254	1.4547	0.02	19.50 - 20.50	17.50 - 18.50	6.00 - 7.00	N : 0.18 - 0.22 Cu : 0.5 - 1.0
6Mo	8926	1.4529	0.02	19.00 - 21.00	24.00 - 26.00	6.00 - 7.00	N : 0.15 - 0.25 Cu : 0.50 - 1.50

Duplex & Super Duplex							
Alloy 2205	31803	1.4462	0.03	21.00 - 23.00	4.50 - 6.50	2.50 - 3.50	N : 0.08 - 0.20
Alloy 2507	32750	1.4410	0.03	24.00 - 26.00	8.00 - 8.00	3.00 - 4.50	N : 0.24 - 0.32 Cu : 0.50 max
Alloy 32760	32760	1.4501	0.05	24.00 - 26.00	6.00 - 8.00	3.00 - 4.00	Cu : 0.50 - 1.00 W : 0.50 - 1.00

Nickel Alloys							
Monel 400	4400	2.4380	0.30	—	63.00 Min	—	Cu : 28.00 - 34.00 Fe : 2.5 Max
Inconel 625	6625	2.4865	0.01	20.00 - 23.00	58.00 Min	8.00-10.00	Fe : 5 Max Nb + Ta : 3.15 - 4.15
Inconel 825	8825	2.4858	0.05	19.50 - 23.50	38.00 - 46.00	2.50-3.50	Fe : 22.00 Min, Cu : 1.50 - 3.00
Alloy 20	8020	2.4460	0.07	19.00 - 21.00	32.00 - 38.00	2.00-3.00	Cu : 3.00 - 4.00, Nb + W : 1.00 Max

ASTM	American Society for Testing of Materials	ASME	American Society of Mechanical Engineers	SAE	Society of Automotive Engineers
DIN	Deutsches Institute for Normung	JIS	Japan Industrial Standards	UNS	Unified Numbering System
GOST	Gosudarstvenii Standart	TEMA	Tubular Exchanger Manufacturers Association	PED	Pressure Equipment Directive





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