



**Steamline Industries Limited**

**A PERFECT SOLUTION TO  
ALL YOUR NEEDS OF  
STAINLESS STEEL TUBES & PIPES**

Founded in the year 1991 Steamline industries caters to daily operations and project requirements of leading industrial organizations in india. Having consolidated its position in various business segments, mainly engineering items. Over the years various industries around the country have come to rely on the services from SIL for sourcing & supplying needs. With in depth knowledge and decades of experience, backed up with the best technological facilities which itself takes care of customer satisfaction, the company has been able to establish itself in Manufacturing high quality stainless steel Pipes and tubes by exploring the possibility of backward integration.

The very trust of our customers and our strong marketing network has supported and brought into reality this dream.

The ultramodern facility is strategically located near Ahmedabad (Gujarat) with the State-of-the-Art manufacturing facility, we specialize in a complete range of Stainless Steel Seamless & Welded pipes and tubes & U-tubes for our diverse clients ranging from from oil and gas companies, Thermal power & nuclear power plants, water treatment centers, chemical and petrochemical companies, aerospace companies and many others.

## WE UNDERSTAND THE VALUE OF OUR CUSTOMERS

The company adopts advanced quality management system in the world and its main products are recognized by the international authoritative institutions. An ISO 9001: 2008, PED & AD 2000-Merkblatt approved company benchmark our products for international standards and quality parameters which commits its potential customers with the best quality material and services.

The manufacturing facilities the company possesses are based on the latest & the most advanced technology available today for pipe manufacturing. These features strengthen our large-scale manufacturing capacity, continuity and automation which keeps our customers ahead in their fields. We are dedicated to meet our customer's requirement, through constant technical modification and innovation.

Our team of professionals will work with you to select or custom produce the perfect solution for any application and budget. Efficiency in project handling by providing full package supplies to the clients inclusive of Seamless & welded pipes, tubes and U Bends.

We here, encourage an environment of innovative thinking and entrepreneurial spirit, which we feel differentiates us itself in the marketplace. It is our goal to develop long term client relationships and market alliances that are based upon mutual respect and communication.



# PRODUCTS

**Stainless Steel Seamless Pipes, Tubes & U-tubes**  
**Stainless Steel Welded Pipes, Tubes & U-tubes**

## Size Range

Product	Size Range		
	OD (mm)	Thickness (mm)	Length (Meters)
S.S. Seamless Tubes	6.00 mm - 101.60 mm	0.70 mm - 3.50 mm	25 Meters
S.S. Seamless Pipes	13.72 mm - 273.05 mm	1.65 mm - 12.70 mm	12 Meters
S.S. Seamless U-Tubes	12.70 mm - 60.30 mm	0.90 mm - 3.50 mm	Radius 1.50D to 1500mm
S.S. Welded Tubes	6.00 mm - 76.20 mm	0.50 mm - 3.50 mm	25 Meters
S.S. Welded Pipes	17.15 mm - 60.33 mm	1.65 mm - 5.54 mm	12 Meters
	73.03 mm - 273.05 mm	2.11 mm - 9.56 mm	12 Meters
S.S. Welded U-Tubes	12.70 mm - 60.30 mm	0.90 mm - 3.50 mm	Radius 1.50D to 1500mm

## Grades

- ▲ TP-304/L/H
- ▲ TP-316/L/H/Ti
- ▲ TP-317L
- ▲ TP-321/H
- ▲ TP-347/H
- ▲ TP-405
- ▲ TP-409
- ▲ TP-410
- ▲ Tp430
- ▲ UNS 31500
- ▲ 31803

## Specifications

- ▲ ASTM/ASME
- ▲ German (DIN)
- ▲ NF (AFNOR)
- ▲ JIS



## QUALITY CONTROL

The company adheres to stringent quality norms for all the processes. The materials used by SIL are of very high quality and compatible to the latest machinery and production process. The company's technical and commercial quality guidelines are set to high standards. A team supervises the quality assurance and control aspects along with the entire process system by identifying and associating with the quality circle. Quality Control tests are conducted regularly to maintain a uniform product quality.

## APPLICATIONS

- ▲ Heat Exchangers/ Dust Catchers pressure vessels
- ▲ Dairy and food Industry
- ▲ Paper Industry
- ▲ Environment & Effluent Treatment
- ▲ Solvent Extractions
- ▲ Petro – Chemical and Refineries
- ▲ Fertilizer Plants
- ▲ Submersible Pumps
- ▲ Breweries & Distilleries
- ▲ Pharmaceuticals
- ▲ Sugar Mills
- ▲ Oil and Gas Industry
- ▲ Automobile Industry
- ▲ Power Plants
- ▲ Instrumentation
- ▲ Furniture Industry

### Quality Policy

M/s. Steamline Industries Limited., is in the field of mfg of stainless steel ERW / Seamless pipes & tubes, to meet the international standards, customer expectations and quality.

We are committed to follow a process approach, by encouraging interested parties, suppliers, employees of our organization to meet the customer the customer expectations.

We Shall review our systems, technology, resources and results for maintaining a sustainability in our growth on continual basis.

*Executive Director*

## Inspection and Testing Equipments

	Name Of Machine	No. of Machines	Work Description
1.	Universal Tensile Testing Machine-(40T)	1	To obtain the mechanical properties of finished tubes & pipes and testing for flaring, flange test, flattening, R.flattening, reverse bending
2.	ROCKWELL Hardness Testing Machine	1	Hardness tester is used for measuring hardness values of tubes & pipes.
3.	Vickers Hardness Tester	1	Hardness tester is used for measuring hardness values of tubes & pipes
4.	Hydrostatic Test Machine	3	All hydrostatic test machines is used for carried out on finished tubes / pipes to check the tube for any leakage under elevated hydraulic water pressure as per specification or customer requirement
5.	Eddy Current Testing Machine	1	This is the non destructive test carried out to detect the surface defect / pin holes on the outside diameter or inside diameter of the tube
6.	Polishing Machine	1	Single 200 mm diameter disc polisher with variable speed facility for polishing of test pcs.
7.	Spectrometer	1	Spectrometer which is used for in house product analysis. It can measure up to 26 elements and gives the result of any sample within 60 seconds. It gives us very fast & highly accurate results.
8.	Metallurgical Micro Scope	1	Involves grain structure examination as per specification. (Microstructure as per E-112)
9.	Double Disk Grinding Machine	1	To grind with precision
10.	Chemical Testing Laboratory	1	Facility to carry out day to day testing of different solution used in pickling department & IGC testing practice 'E' & 'A' as per ASTM A-262
11.	Surface Roughness Tester	1	Test is carried out for measuring roughness of the tube & pipe for outer surface
12.	PMI Testing	1	Rapidly verify alloys in seconds
13.	Manual Ultra Sonic Test	2	To detect internal flaws or to characterize materials
14.	Dial Vernier Caliper	1	Measure diameter & thickness of the tubes & pipe
15.	Ultrasonic Thickness Gauge	1	This instrument measure the thickness at any point of the tube & pipe with accuracy of 0.1 mm



# TESTINGS

## Mandatory tests we conduct

### Hydro Test:

100% Compulsory Test for each & every Tube / Pipe produced in our plant as per the specifications required by our customers

### Visual & Dimension Inspection:

100% Compulsory Test For each & every Tube / Pipe produced in our plant by Well Technically Qualified Engineers to check any type of surface defects or scratches on Tube / Pipe

### Mechanical Test:

All Mechanical Testing on Tube / Pipe like Hardness Test, Tensile Test, Flattening & Flaring Test, Reverse Bend & Flattening Test as per the specification requirement

### Chemical Test:

100% Compulsory Test for each & every Tube / Pipe produced in our plant.



## Supplementary tests we conduct on client's requirement

### Eddy Current Test:

This Test is carried out to detect Sub surface in homogeneity as per ASTM – 426.

### PMI Test:

This Test is carried out for the grade confirmation of material at our in house facility.

### Ultrasonic Test:

This Test is carried out to detect Special Process Flow as per ASTM A 213 / A 450.

### Micro & Macro Test:

This Test is carried out to certify microstructure, grain size as per ASTM E 112, to ensure that Carbides are dissolved and corrosion resistance is at Maximum.

### Intergranular Corrosion Test:

This Test is carried out to determine the materials' intergranular attract and to measure the rate of corrosion as per standard ASTM A-262 practice "A", "B", "C" OR "E" within our company's own facilities with well built laboratory.



## Material Grades

Material	ASTM		Equivalent Standard		
	UNS	Grads (TP)	Din (EN)	Afnor (NF)	JIS
AUSTENITIC	S30400	304	1.4301	Z 6 CN 18.09	SUS 304
	S30403	304L	1.4306/1.4307	Z 2 CN 18.10	SUS 304L
	S31600	316	1.4401	Z 6 CND 17.11	SUS 316
	S31603	316L	1.4404	Z 2 CND 17.12	SUS 316L
	S31635	316Ti	1.4571	Z 2 CND 17.12	
	S32100	321	1.4541	Z 6 CNT 18.10	SUS 321
	S34700	347	1.455	Z 6 CNNb 18.10	SUS 347
	S30409	304H	1.4948	Z 6 CN 19.10	SUS 304H
	S31609	316H	1.4919	Z 10 CND 18.10	SUS 316H
	S32109	321H	1.4941	Z 10 CND 18.10	SUS 321H
FERRATIC	S40500	405	1.4002	Z 6 CAL 13	SUS 405
	S41000	410	1.4002	Z 12 C 13	SUS 410
	S43000	430	1.4016	Z 10 C 17	SUS 430
DUPLEX	S31803	2205	1.4462	Z 2 CND 22.06	
	S32750	2507	1.4410	Z 5 CND 20.12	
	S32760		1.4501		
	S31500		1.4417		
	S32304		1.4362		

## Specifications

Standard	Specification		Applicable to
ASTM/ASME	A / SA 213		Seamless ferritic and austenitic alloy steel boiler, super heater & heat exchanger Tubes
	A / SA 249		Welded austenitic steel boiler, super heater, heat exchanger & condenser tubes
	A / SA 268		Seamless and Welded ferritic and martensitic stainless steel tubing for general service
	A / SA 269		Seamless and Welded austenitic stainless steel tubing for general service
	A / SA 312		Seamless and Welded austenitic stainless steel pipes
	A / SA 358		Welded pipe for high temperature service
	A / SA 688		Welded feed water heater 'U' Tubes
GERMAN (EN)	DIN	17455	Welded general purpose piping
	DIN	17456	Seamless circular austenitic stainless steel for general service
	DIN	17457	Welded circular austenitic stainless steel tubes subject to special requirement
	DIN	17458	Seamless circular austenitic stainless steel tubes subject to special requirement
	DIN	28180	Seamless steel tubes for heat exchanger
NF	NF	A 49-117	Seamless ferritic & austenitic stainless steel tubes for general services
	NF	A 49-217	Seamless ferritic, austenitic & ferritic-austenitic stainless steel tubes for heat exchanger
JIS	JIS	G 3459	Seamless steel pipes
	JIS	G 3463	Stainless steel boiler and heat exchanger tubes



**TOTAL PRODUCTION CAPACITY  
2200 MT / MONTH & 26400 MT / YEAR**

## Stainless Steel Pipe Dimension

Nominal Pipe Size		Outside Diameter		Wall Thickness & Weight											
				Sch. 5S		Sch. 10S		Sch. 20S		Sch. 40S		Sch. 80S		Sch. 160S	
mm	Inch	mm	Inch	Wall Thick	Weight Kg/Mtr.	Wall Thick	Weight Kg/Mtr.	Wall Thick	Weight Kg/Mtr.	Wall Thick	Weight Kg/Mtr.	Wall Thick	Weight Kg/Mtr.	Wall Thick	Weight Kg/Mtr.
6	1/8	10.3	0.405	1	0.23	1.24	0.28	1.5	0.33	1.73	0.37	2.41	0.47	-	-
8	1/4	13.7	0.54	1.2	0.37	1.65	0.49	2	0.58	2.24	0.64	3.02	0.82	-	-
10	3/8	17.2	0.675	1.2	0.47	1.65	0.63	2	0.74	2.31	0.87	3.2	1.12	-	-
15	1/2	21.3	0.84	1.65	0.81	2.11	1.02	2.3	1.07	2.77	1.29	3.73	1.62	4.75	1.97
20	3/4	26.7	1.05	1.65	1.05	2.11	1.3	2.5	1.52	2.87	1.71	3.91	2.93	5.56	2.93
25	1	33.4	1.315	1.65	1.03	2.77	2.13	2.5	2	3.38	2.54	4.55	3.29	6.35	4.3
32	1 1/4	42.2	1.66	1.65	1.65	2.77	2.73	3	2.9	3.56	3.44	4.85	4.56	6.35	5.69
40	1 1/2	48.3	1.9	1.65	1.93	2.77	3.11	3	3.35	3.68	4.11	5.08	5.49	7.14	7.35
50	2	60.3	2.375	1.65	2.4	2.77	3.99	3.5	4.25	3.91	5.52	5.54	7.6	8.74	11.26
65	2 1/2	73.03	2.875	2.11	3.7	3.05	5.26	4	6.81	5.16	8.77	7.01	11.59	9.53	14.91
80	3	88.9	3.5	2.11	4.51	3.05	6.45	4	8.37	5.49	11.47	7.62	15.51	11.13	21.3
100	4	114.3	4.5	2.11	5.85	3.05	8.36	4.5	12.18	6.02	16.07	8.56	22.66	13.49	33.54
125	5	141.3	5.563	2.77	9.5	3.4	11.6	5	16.8	6.55	21.08	9.53	31	15.88	49.11
150	6	168.3	6.625	2.77	11.35	3.4	13.82	6.35	25.36	7.11	28.68	10.97	42.56	18.24	67.53
200	8	219.08	8.625	2.77	14.8	3.76	20	6.35	33.31	8.18	43.18	12.7	64.64	23.01	111.27
250	10	273.05	10.75	3.4	22.61	4.19	27.8	6.35	41.77	9.27	60.31	12.7	81.55	28.58	172.33
300	12	323.85	12.75	3.96	31.25	4.57	36	6.35	49.7	9.53	73.85	12.7	97.43	33.32	238.68
350	14	355.6	14	3.96	34.35	4.78	41.3	7.92	67.9	11.13	98.54	-	-	-	-
400	16	406.4	16	4.19	41.6	4.78	47.34	7.92	77.82	12.07	123.3	-	-	-	-
450	18	457.2	18	4.19	46.85	4.78	53.32	7.92	87.74	14.27	155.86	-	-	-	-
500	20	508	20	4.78	59.31	5.54	68.64	9.53	117.14	15.09	183.42	-	-	-	-
600	24	609.6	24	5.54	82.57	6.35	94.52	9.53	141.11	17.48	255.41	-	-	-	-



## Stainless Steel Tube Dimension

Wall thickness in mm	0.5	0.6	0.7	0.8	1	1.2	1.6	2	2.6	3	3.2	3.6
O.D. in mm	Weight in Kg/Meter											
6	0.069	0.081	0.093	0.104	0.125	0.144	0.176	-	-	-	-	-
9.52	0.112	0.134	0.154	0.174	0.213	0.249	0.317	-	-	-	-	-
10	0.119	0.141	0.163	0.184	0.225	0.264	0.336	-	-	-	-	-
12.7	0.153	0.182	0.21	0.238	0.293	0.345	0.444	-	-	-	-	-
14	0.169	0.201	0.233	0.264	0.325	0.384	0.496	-	-	-	-	-
15.87	0.192	0.229	0.266	0.301	0.372	0.44	0.571	0.694	-	-	-	-
19	0.231	0.276	0.32	0.364	0.45	0.534	0.696	0.85	1.066	1.2	1.264	-
25	0.306	0.366	0.425	0.484	0.6	0.714	0.936	1.15	1.456	1.65	1.744	1.926
25.4	0.311	0.372	0.432	0.492	0.61	0.726	0.952	1.17	1.482	1.68	1.776	1.962
31.8	-	-	-	-	-	0.918	1.208	1.49	1.898	2.16	2.288	2.538
38	-	-	-	-	-	1.104	1.456	1.8	2.301	2.625	2.784	3.096
44.5	-	-	-	-	-	1.299	1.716	2.125	2.724	3.113	3.304	3.681
50.8	-	-	-	-	-	1.488	1.968	2.44	3.133	3.585	3.808	4.248
63.5	-	-	-	-	-	-	2.476	3.075	3.959	4.538	4.824	5.391
76.1	-	-	-	-	-	-	2.98	3.705	4.778	5.483	5.832	6.525
101.6	-	-	-	-	-	-	4	4.98	6	7	7.872	8.82

## PACKING

- ▲ Seaworthy Wooden Box
- ▲ Seaworthy Crate Box
- ▲ Plastic Bundle Packing
- ▲ Plastic Bag / Sheet Packing
- ▲ Hessain Cloth



## TRANSPORTATION

- ▲ LCL & FCL Cargo Shipment
- ▲ Flat Bed Container
- ▲ Open Top Container 20" & 40"





# CERTIFICATIONS & APPROVALS

## Certification

- ▲ ISO 9001 : 2008
- ▲ AD 2000 – MERKBLATT W0
- ▲ PED (Pressure Equipment Directive) 97/23 EC
- ▲ ISO 14000 : 2004 - Under Progress
- ▲ OHSAS 18001 : 2007 - Under Progress
- ▲ IBR (Indian Boiler Regulation) Approval – Under Progress
- ▲ EIL (Engineering India Ltd.) Approval – Under Progress



## Third Party Approvals

- ▲ Lloyds Register Asia
- ▲ Bureau Veritas (BV)
- ▲ Det Norske Veritas (DNV)
- ▲ TUV (SUD)
- ▲ TUV (NORD)
- ▲ SGS
- ▲ Certified Engineers India Ltd. (CEIL)

Any Reputed Third Party recommended by the Client





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**Steamline Industries Limited**

**Manufacturers & Exporters of Austenitic,  
Ferritic, Martensitic, Duplex & Super Duplex  
Welded and Seamless Pipes, Tubes & U-tubes.**