

SANTOSH

GROUP OF INDUSTRIES

AN ISO 9001 : 2000 CERTIFIED GROUP



Manufacturers of Stainless Steel

Round Tubes

Section Tubes

Schedule Pipes



ABOUT US...

"SANTOSH" group, known for its reliability, dependability & consistency in quality of various products manufactured, all over India & abroad. Manufacturing units are located at Falna in Rajasthan and Dadra in U.T. of Dadra Nagar Haveli. Works at both the places, are fully equipped with state of the art technology for manufacturing following products :

- Welded & Seamless Stainless Steel Pipes, Tubes, Square and Rectangular Sections (6,000 M.T.P. A.)
- Precision & CDW M.S. Tubes (1,200 M.T.P. A.)
- Umbrella Tubes, Handles & Parts (1500 M.T.P. A.) and
- Ready Umbrellas of various types (1.50 Million P. A.).

Both the Plants are DIN EN ISO 9001:2000 certified by TUV (RL) Group and accredited by NABCB. We firmly believe in continuous improvement in quality of the products so it can give complete satisfaction to the customers.

"SANTOSH" group is managed by highly professional people, having rich experience for nearly 30 years in the field of manufacturing & industrial administration. The Directors **Mr. R.K. Goyal** (BSc., L.L.B) - Commercial & **Mr. C.S. Goyal** (B.E.- Metallurgical) - Technical, are very well qualified and experienced in their respective fields. The leadership skills of both the Directors are very well appreciated in Indian Umbrella Industry, as the later has served '**All India Umbrella Federation, Mumbai**' as **Founder President** and have set new standards for this industry. Mr. C.S. Goyal is also a member of **Technical Committee of ASTM International - USA & American Welding Society - USA**, for last 12 Years.

Products of the group, enjoy highest degree of reputation in domestic & global markets, as far as the quality and consistency are concerned, as they are made for the entire satisfaction of the consumers. The products are marketed all over India & abroad.

Our R & D personnel keep on improving the products regularly, by seriously employing suggestions of the valued customers. Satisfied & dependable customers, together with contemporary technology, are the major assets of the group.

We would like to thank all those who are directly or indirectly associated with the Group i.e. management, technical staff, employees, and all the customers for having faith in our products & encouraging us to increase our production capacity in both the fields.

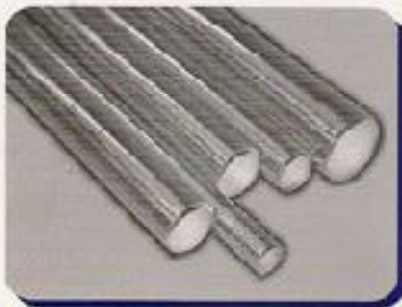
QUALITY POLICY

" Enhancing customer satisfaction by timely supply of better quality S.S. Tubes & Pipes, Umbrella and Umbrella Parts and continual improvement in all the processes of Quality Management System that can affect customer satisfaction."



PRODUCT RANGE

Product	Outer Diameter	Thickness	Specification	Testing
S. S. Welded Tubes	¼" to 4½" O.D. (6.35 mm to 114.30 mm)	0.30 mm to 4 mm	ASTM A249 ASTM A268 ASTM A269 ASTM A554	Tensile Test Flattening Test Flare Flange Test Reverse Bend Test 100 % Hydrostatic Test Hardness Test
S. S. Welded Pipes	¾" NPS to 4" NPS	Sch 5S, Sch 10S Sch 20S, Sch 40S	ASTM A312	Tensile Test Flattening Test 100 % Hydrostatic Test Hardness Test Flange Test
S. S. Seamless Tube	6 mm to 101.6 mm	0.80 mm to 4 mm	ASTM A213 ASTM A269 ASTM A270	Tensile Test Reverse Bend Test Flange Test 100 % Hydrostatic Test Hardness Test
S. S. Seamless Pipes	¾" NPS to 8" NPS	Sch 5S, Sch 10S Sch 20S, Sch 40S	ASTM A312	Tensile Test Reverse Bend Test 100 % Hydrostatic Test Hardness Test



Rectangular Section

Size	Thickness Availability In mm				
10x20mm	1.00	1.20	1.50		
13x26mm	1.00	1.20	1.50	2.00	
20x30mm	1.00	1.20	1.50	2.00	
20x40mm	1.00	1.20	1.50	2.00	3.00
25x50mm	1.00	1.20	1.50	2.00	3.00
30x50mm	1.00	1.20	1.50	2.00	3.00
40x60mm		1.20	1.50	2.00	3.00
25x75mm		1.20	1.50	2.00	3.00
40x80mm			1.50	2.00	3.00
40x75mm			1.50	2.00	3.00
40x100mm				2.00	3.00
60x100mm					3.00
55x125mm					3.00

Square Section

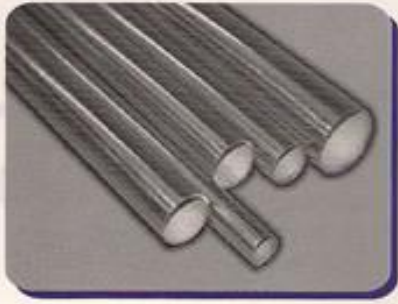
Size	Thickness Availability In mm				
15x15mm	1.00	1.20	1.50		
20x20mm	1.00	1.20	1.50	2.00	
25x25mm	1.00	1.20	1.50	2.00	3.00
30x30mm	1.00	1.20	1.50	2.00	3.00
40x40mm	1.00	1.20	1.50	2.00	3.00
50x50mm		1.20	1.50	2.00	3.00
60x60mm			1.50	2.00	3.00
70x70mm					3.00
80x80mm					3.00



PRODUCT RANGE

S.S. Round Tubes

Kgs. / mtr.



OD In mm	Thickness In mm						
	0.40	0.65	1.00	1.20	1.50	2.00	3.00
6.35	0.06	0.09	0.13				
7.93	0.08	0.12	0.17				
9.53	0.09	0.14	0.21	0.25			
12.70	0.12	0.20	0.29	0.35	0.42		
15.88	0.15	0.25	0.37	0.44	0.54		
19.05	0.18	0.30	0.45	0.54	0.66		
22.23		0.35	0.53	0.63	0.78	1.01	
25.40		0.40	0.61	0.73	0.90	1.17	
28.00		0.44	0.68	0.80	0.99	1.30	1.88
31.75		0.51	0.77	0.92	1.13	1.49	2.16
34.93			0.85	1.01	1.25	1.65	2.39
38.10			0.93	1.11	1.37	1.81	2.63
44.45			1.09	1.30	1.61	2.12	3.11
50.80			1.25	1.49	1.85	2.44	3.59
63.50				1.55	2.33	3.08	4.54
76.20					2.80	3.71	5.49
88.90					3.28	4.35	6.44
101.60					3.75	4.98	7.40

S. S. PIPE SERIES

NPS In Inch	NPS In mm	O.D. In mm	Wall Thickness & Weight Chart					
			Sch 5S		Sch 10S		Sch 40S	
			mm	kg/mtr	mm	kg/mtr	mm	kg/mtr
¼"	8	13.72	---	---	1.65	0.498	2.24	0.643
⅜"	10	17.15	---	---	1.65	0.639	2.31	0.857
½"	15	21.34	1.65	0.812	2.11	1.014	2.77	1.286
¾"	20	26.67	1.65	1.032	2.11	1.296	2.87	1.708
1"	25	33.40	1.65	1.310	2.77	2.121	3.38	2.537
1¼"	32	42.16	1.65	1.671	2.77	2.728	3.56	3.435
1½"	40	48.26	1.65	1.923	2.77	3.150	3.68	4.101
2"	50	60.33	1.65	2.421	2.77	3.986	3.91	5.515
2½"	65	73.03	2.11	3.741	3.05	5.336	5.16	8.755
3"	80	88.90	2.11	4.578	3.05	6.546	5.49	11.448
3½"	90	101.60	2.11	5.248	3.05	7.514	5.74	13.756
4"	100	114.30	2.11	5.918	3.05	8.483	6.02	16.296
6"	150	168.28	2.77	11.462	3.40	14.015	7.11	28.648
8"	200	219.08	2.77	14.979	3.76	20.240	8.18	43.129



Special Tubular Shapes & Surface Finishes.



Railing Tubes



Mirror Finish



800# Mirror Finish

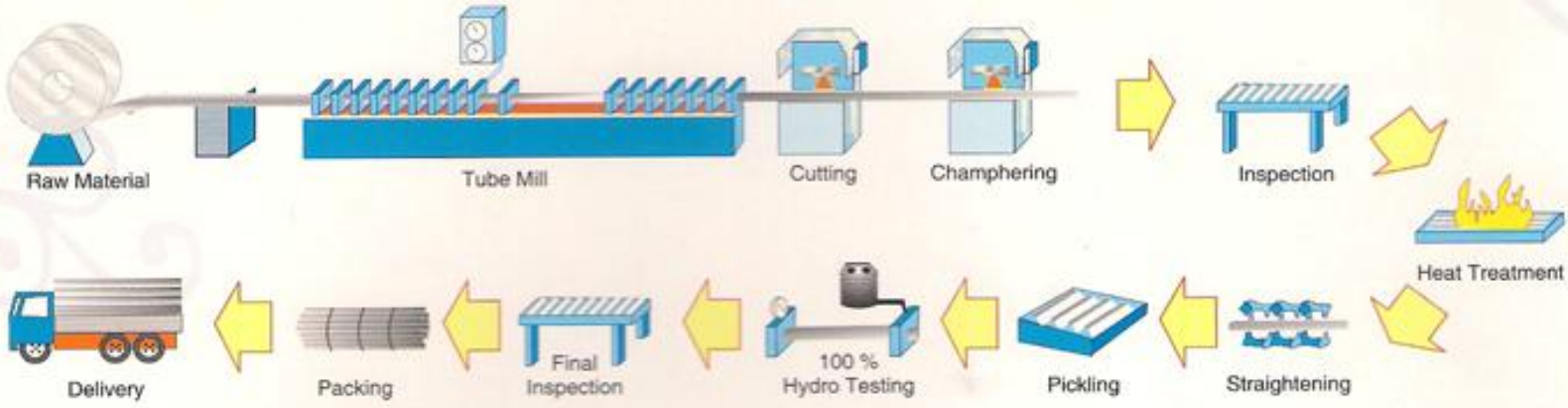


Mirror Finish



400# Matt Finish

MANUFACTURING PROCESS



Tube Mill plant for 1.25" - 4" NPS and OD upto 4.0".



Tube Mill plant for 1/4" - 1" NPS and OD upto 1.50".



Tube Mill plant for high precision OD Tubes upto 2.0".



QUALITY ASSURANCE

Flaring Test

The flaring test serves to establish the forming behavior of tubes & pipes which are expanded to specific degree in respect of O.D.. This test is carried out in conformation to the international standards.



Flattening Test

A sample of tube or pipe in 4" length shall be flattened cold between parallel plates in two steps. The weld shall be placed at 90° from the direction of the applied force. The first step is a test for ductility, no cracks or breaks on the inside or outside surfaces acceptable. During the second step, which is a test for soundness, the flattening shall be continued until the specimen breaks or the opposite walls of the specimen meet.



Hardness Test

Samples from each lot of continuously heat treated tubes & pipes are tested to ensure that the hardness is well within specified limits.

Eddy Current Test

This test is carried out to detect any micro cracks or inhomogenities in the material, by using the test procedure as described in ASTM E-426 & SEP 1914.



Reverse Bend Test

A sample of 4" in length shall be split longitudinally 90° on each side of the weld. The sample shall then be opened and bent around a mandrel with a maximum thickness of four times the wall thickness, with the mandrel parallel to the weld and against the original outside surface of the tube. The weld shall be at the point of maximum bend. There shall be no evidence of cracks, or of overlaps resulting from the reduction in thickness of the weld areas by cold working.



Tensile Test

Tensile test serves to determine the strength and ductile characteristics of the tubes & pipes i.e. yield strength, tensile strength and % elongation.

Hydro-static Pressure Test

All tubes & pipes manufactured by "SANTOSH" are Hydrostatic Pressure tested as per required specifications. Our Hydro-static pressure testing machine is capable of carrying out pressure test upto 6000 psi.

If required, customers or deputed Inspection agency can witness 100 % Hydro-static pressure testing at our plant. The products can also be supplied with third party inspection like Lloyds, SGS, BVQI, PDIL, TUV etc..



CHEMICAL COMPOSITION

Chemical Composition

GRADE	USA-Canada AISI-ASTM -ASME	% C (Max)	% Mn (Max)	% P (Max)	% S (Max)	% Si (Max)	% Cr	% Ni	% Mo	% N (Max)
AUSTENITIC										
301	301	0.15	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00	--	0.10
304	304	0.08	2.00	0.045	0.030	0.75	18.00-20.00	8.00-10.50	--	0.10
304L	304L	0.03	2.00	0.045	0.030	0.75	18.00-20.00	8.00-12.00	--	0.10
310	310	0.25	2.00	0.045	0.030	0.75	24.00-26.00	19.00-22.00	--	--
316	316	0.08	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00	2.00-3.00	0.10
316L	316L	0.03	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00	2.00-3.00	0.10
321	321	0.08	2.00	0.045	0.030	0.75	17.00-19.00	9.00-12.00	--	0.10
FERRITIC + MARTENSITIC										
409	409	0.080	1.00	0.040	0.030	1.00	10.50-11.75	0.50 max	--	--
410	410	0.15	1.00	0.040	0.030	1.00	11.50-13.50	0.75 max	--	--
LOW NICKLE AUSTENITIC										
201 (J4)	--	0.10	8.5-10.00	0.090	0.030	0.75	15.00-16.00	1.2 max	--	0.20.10
202 (J1)	--	0.08	7.00-8.00	0.075	0.030	0.75	15.00-17.00	4.00-5.00	--	--

APPLICATION

Stainless Steel Tubes & Pipes manufactured by **Santosh** Group of Industries are used in projects of critical national importance like :

- Petrochemical
- Chemical
- Fertilizer
- Automobile
- Decorative
- Refrigeration
- Fabrication
- Sugar Mills
- Dairy & Food
- Power Plants
- Oil & Gas
- Water Supply
- Heat Exchangers
- Pharmaceuticals
- Textiles & Many More...



PACKING

All special finish S. S. Pipes & Tubes are individually wrapped in plastic paper or LDPE tubes, and then in seaworthy packing in wooden boxes for exports or as per customer's request. For domestic customers the packing is done in jute bags / HDPE woven sacks or in wooden boxes or as per customer's request. The tube ends can be plugged, if required.

Domestic
Packing



Export
Packing



DETAILS REQUIRED ALONG WITH YOUR INQUIRY :

Please provide following information while forwarding your enquires and orders :

- Material Grade.
- Manufacturing Standards.
- Size : (a) Outside Diameter / Nominal Pipe Size.
(b) Wall Thickness / Schedule No.
(c) Length.
- Quantity in Meters / Nos.
- Finish Required.
- Details of Applications.
- Quantity of Tubes / Pipes (Seamless / Welded).
- Any special tests or supplementary test of the specified International Standard.



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