MSME
सूक्ष्म, लघु एवं मध्यम उद्यम
MICRO , SMALL & MEDIUM ENTERPRISES
MSME No. GJ25B0002717

MAKE IN INDIA

VARDHMAN
TUBE MILL

AN ISO 9001 : 2015 Certified Co.



STEEL GOOD, FEEL GOOD



VARDHMAN
TUBE MILL
AN ISO 9001 : 2015 Certified Co.

Company Profile

Since its inception in 1982, **Vardhman Tube Mill** has now become the leading manufacturer of Pipes and Tubes in India. Our sprawling plant in Umbergaon, Gujarat is located about 160kms away from Mumbai. Since last 4 decades we are producing a wide range of Stainless Steel Seamless & Welded Pipes and Tubes which finds applications in sectors like refineries, petrochemicals, oil & gas, thermal power, nuclear power energy, fertilizers, water distribution, chemicals, pharmaceuticals, aerospace etc. Our Pipes and Tubes are available in Stainless Steel and Duplex Steel in various types like seamless, welded, square, rectangular, polish pipes, hydraulic pipes and so on. VTM today has a range of more than 150 sizes. Our pipes and tubes are manufactured in accordance with international standards, mill standards, and ASTM standards and we use modern, well-maintained equipment. **Vardhman** draws its strength from technical excellence and highly trained and motivated manpower. Continuous innovative approach and focused efforts are the back bone of **Vardhman's** success.

Why Choose Us

Reasonable rates	Quick Response	Experienced Tradesman
Exceptional Standards	Customized packaging	Customer focused approach
Superior quality products	Timely delivery of products	Experience and specialty in work

Our Vision

We aspire to become the Indian Stainless Steel Pipe industry's benchmark by delivering superior value products to our customers, through innovation and leadership in operational excellence.

Our Mission

Consistent with the vision and values of our founders, We strive to strengthen India's industrial base through effective utilisation of staff and materials. The means envisaged to achieve this are cutting-edge technology, high productivity and being consistent with modern management practices. **Vardhman Tube Mill** recognises that honesty and integrity are essential ingredients of a strong and stable enterprise, profitability provides the main spark for economic activity.

Third Party Inspection

We also accept third party inspection by reputed agencies like :

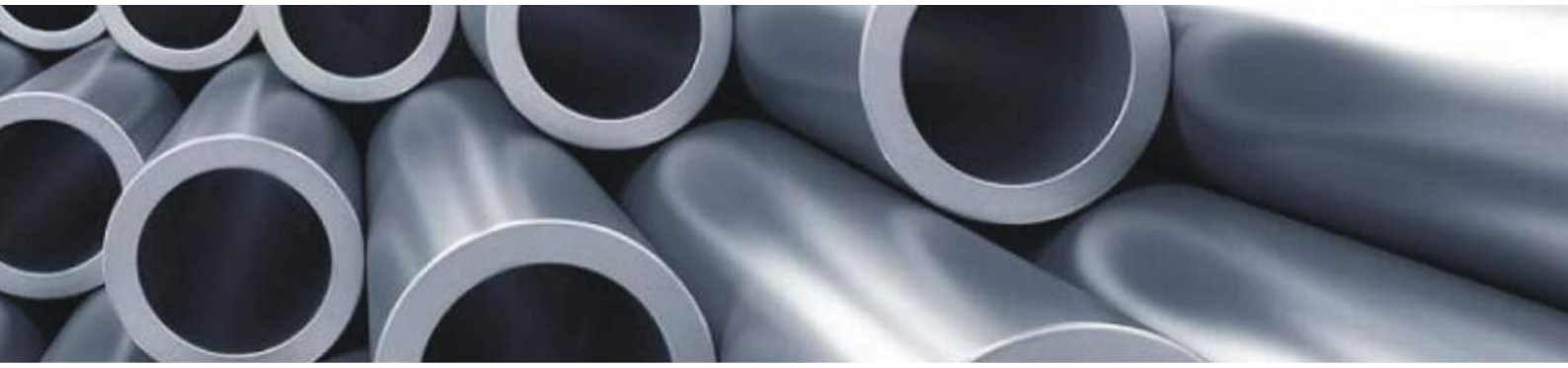
Larsen & Toubro Ltd. | इंआईएल | I.B.R. | Lloyd's Register | Electromech Engg. | TUV INDIA

DET NORSKE VERITAS | TATA Project | BUREAU VERITAS | पीडीआईएल | MIC-INDIA

Email : info@vardhmantube.com | **Web.:** www.vardhmantube.com



VARDHMAN
TUBE MILL
AN ISO 9001 : 2015 Certified Co.



Product

Stainless Steel Welded & Seamless Pipes & Tubes

Size	:	1/2" NB to 14" NB
Thickness	:	Sch 5 / 10 / 20 / 40 / 80
Specification	:	As per ASTM A 312 / A249 / A269 / A213 / A270 or as per European Standards



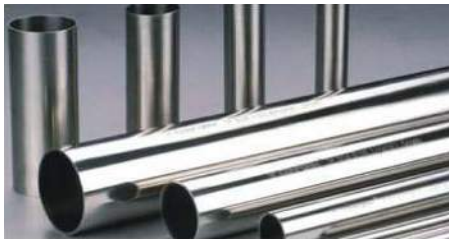




Stainless Steel Polish Pipes

Size	:	6mm OD to 127 mm OD
Thickness	:	0.8mm to 5mm
Specification	:	As per ASTM A 554 / A270 or Decorative Standards
Finishing	:	Pipes & Tubes can be supplied in **MATT / MIRROR or SILVER** finish as per customer requirement.



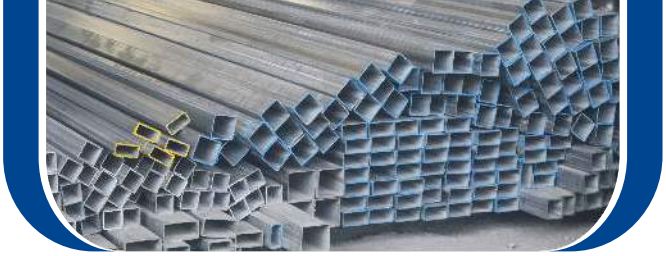




All 200, 300, 400 Series Grades Available
Duplex Steel and High Nickel Items also available.

- Stainless Steel Welded
- Stainless Steel Polish Pipe
- Stainless Steel Square and Rectangular Pipe

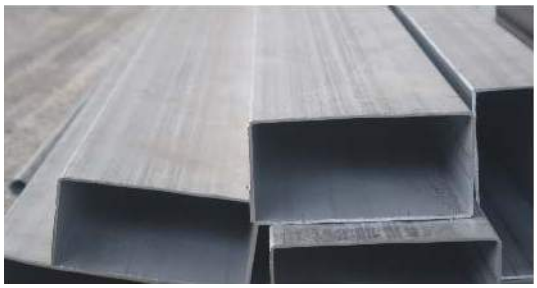
Email : info@vardhmantube.com | **Web.:** www.vardhmantube.com



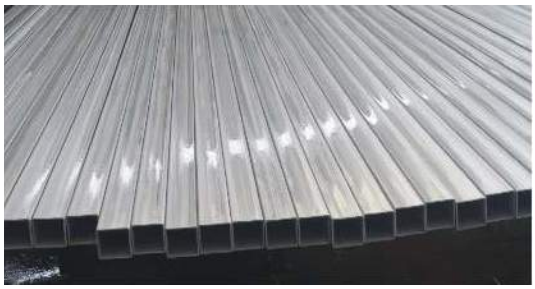
VARDHMAN
TUBE MILL
AN ISO 9001 : 2015 Certified Co.

Product

STAINLESS STEEL SQUARE & RECTANGULAR TUBES



RHS Pipe



SHS Pipe



Oval Pipes

Size : 10 x 10 to 200 x 200

Thickness : 0.8mm to 8mm

Finishing : Available in satin / mirror / 2B / Finish

Grits : 60/80/120/240/360 400/600 Available in Polish

All 200, 300, 400 Series Grades Available
Duplex Steel and High Nickel Items also available.

Square Weight (Kg/M) (Metric Sizes)

H X B (mm)	1.00	1.20	1.50	2.00	3.00	4.00	5.00
12x12	0.358	0.423	0.518	-	-	-	-
15x15	0.453	0.538	0.661	-	-	-	-
20x20	0.613	0.729	0.901	1.176	-	-	-
25x25	0.772	0.921	1.140	1.495	2.167	-	-
30x30	0.932	1.112	1.379	1.814	2.645	-	-
32x32	0.996	1.189	1.475	1.941	2.837	-	-
38x38	1.187	1.418	1.762	2.324	3.411	-	-
40x80	-	-	2.770	3.680	5.440	7.16	8.82
40x40	1.251	1.495	1.858	2.452	3.602	4.64	5.67
50x50	1.570	1.878	2.336	3.090	4.559	5.979	7.349
60x60	-	2.261	2.814	3.728	5.516	7.255	8.943
60x120	-	-	-	5.57	8.280	10.950	13.550
70x70	-	-	-	4.31	6.473	8.531	10.538
75x75	-	-	3.47	4.61	6.952	9.169	11.336
80x80	-	-	3.72	4.94	7.430	9.807	12.133
90x90	-	-	4.19	5.57	8.387	11.083	13.728
100x50	-	-	3.47	4.61	6.850	9.02	11.150
100x100	-	-	4.66	6.2	9.344	12.359	15.323
100x200	-	-	-	-	13.900	18.45	22.950
120x80	-	-	-	6.2	9.220	12.20	15.120
120x120	-	-	-	-	11.258	14.91	18.513
125x125	-	-	-	-	11.736	15.548	19.31
140x140	-	-	-	-	13.172	17.462	21.703
150x50	-	-	-	6.2	9.220	12.200	15.120
150x75	-	-	-	-	10.260	13.590	16.860
150x150	-	-	-	-	14.129	18.738	23.298
180x180	-	-	-	-	17.000	22.566	28.082
200x200	-	-	-	-	18.913	25.118	31.272

- Stainless Steel Welded
- Stainless Steel Polish Pipe
- Stainless Steel Square and Rectangular Pipe

Email : info@vardhmantube.com | **Web.:** www.vardhmantube.com



VARDHMAN
TUBE MILL
AN ISO 9001 : 2015 Certified Co.

DIMENSIONS & WEIGHT

WELDED AND SEAMLESS STAINLESS STEEL PIPES

NB MM	NPS INCHES	OD MM	SCHEDULE - 5 S		SCHEDULE - 10 S		SCHEDULE - 20 S		SCHEDULE - 40 S		SCHEDULE - 80 S	
			THK (MM)	KG/ MTR	THK (MM)	KG/ MTR	THK (MM)	KG/ MTR	THK (MM)	KG/ MTR	THK (MM)	KG/ MTR
3	1/8"	10.30	--	--	1.24	0.28	1.50	0.33	1.73	0.37	2.41	0.47
6	1/4"	13.70	--	--	1.65	0.49	2.00	0.58	2.24	0.63	3.02	0.80
10	3/8"	17.10	--	--	1.65	0.63	2.00	0.74	2.31	0.84	3.20	1.10
15	1/2"	21.30	1.65	0.81	2.11	1.00	2.30	1.07	2.77	1.27	3.73	1.62
20	3/4"	26.70	1.65	1.03	2.11	1.28	2.55	1.52	2.87	1.69	3.91	2.20
25	1"	33.40	1.65	1.30	2.77	2.09	2.55	1.94	3.38	2.50	4.55	3.24
32	1 1/4"	42.20	1.65	1.65	2.77	2.70	3.00	2.90	3.56	3.39	4.85	4.47
40	1 1/2"	48.30	1.65	1.91	2.77	3.11	3.00	3.35	3.68	4.05	5.08	5.41
50	2"	60.30	1.65	2.40	2.77	3.93	3.00	4.24	3.91	5.44	5.54	7.48
65	2 1/2"	73.00	2.11	3.69	3.05	5.26	4.00	6.81	5.16	8.63	7.01	11.41
80	3"	88.90	2.11	4.51	3.05	6.45	4.00	8.37	5.49	11.29	7.62	15.27
90	3 1/2"	101.60	2.11	5.18	3.05	7.40	4.50	12.18	5.74	13.57	8.08	18.63
100	4"	114.30	2.11	5.84	3.05	8.36	5.00	16.80	6.02	16.07	8.56	22.32
125	5"	141.30	2.77	9.47	3.40	11.57	6.35	25.36	6.55	21.80	9.53	30.97
150	6"	168.30	2.77	11.32	3.40	13.84	6.35	33.31	7.11	28.26	10.97	42.56
200	8"	219.10	2.77	14.79	3.76	19.96	6.35	41.77	8.18	42.55	12.70	64.64
250	10"	273.10	3.40	23.96	4.19	27.78	6.35	49.70	9.27	61.40	15.10	96.01
300	12"	323.90	3.96	31.25	4.57	36.00	7.92	67.90	9.53	73.88	17.48	132.08
350	14"	355.60	3.96	34.36	4.78	41.30	7.92	77.82	--	--	--	--
400	16"	406.40	4.19	41.56	4.78	47.29	7.92	87.74	--	--	--	--
450	18"	457.20	4.19	47.60	4.78	53.26	7.92	117.14	--	--	--	--
500	20"	508.00	4.78	59.25	5.54	68.61	7.92	141.11	--	--	--	--
550	22"	559.00	4.78	65.24	5.54	75.53			--	--	--	--
600	24"	610.00	5.54	82.47	6.35	94.45			--	--	--	--
750	30"	762.00	6.35	118.31	7.92	147.36			–	--	--	--

WELDED STANDARD TUBES

DIMENSIONS		10 Swg	12 Swg	14 Swg	16 Swg	18 Swg	20 Swg	22 Swg
SIZE IN INCHES	OD IN MM	3.25 MM (WT KG/M)	2.64 MM (WT KG/M)	2.03 MM (WT KG/M)	1.62 MM (WT KG/M)	1.21 MM (WT KG/M)	0.91 MM (WT KG/M)	0.71 MM (WT KG/M)
3/8	9.52	0.549	0.447	0.405	0.341	0.268	0.193	0.165
1/2	12.70	0.768	0.654	0.542	0.451	0.350	0.264	0.213
3/4	19.05	1.285	1.068	0.864	0.710	0.544	0.407	0.320
1	25.40	1.801	1.482	1.187	0.969	0.710	0.549	0.432
1 1/4	31.75	2.318	1.895	1.510	1.228	0.969	0.692	0.543
1 1/2	38.10	2.834	2.309	1.832	1.487	1.228	0.820	0.654
1 3/4	45.00	3.408	2.722	2.191	1.775	1.487	0.834	0.765
2	50.80	3.868	3.136	2.478	2.006	1.540	1.119	0.877
2 1/2	63.50	4.901	3.963	3.123	2.524	1.860	--	--
3	76.20	5.934	4.790	3.453	2.789	2.524	--	--
3 1/2	88.90	6.964	5.617	4.413	3.560	2.789	--	--
4	101.6	8.000	6.444	5.059	4.078	3.040	--	--

Any special / Odd Size can be made as per order

Email : info@vardhmantube.com | **Web.:** www.vardhmantube.com



VARDHMAN TUBE MILL

AN ISO 9001 : 2015 Certified Co.

CHEMICAL COMPOSITION OF STAINLESS STEEL

Stainless Steel is essentially a low carbon steel which contains chromium at 10% or more by weight. It is this addition of chromium that gives the steel its unique stainless corrosion resisting Properties. The corrosion resistance and other useful properties of the steel are due to chromium content and the addition of other elements such as molybdenum, nickel and nitrogen.

Chemical Composition of Stainless Steel										Nearest Equivalent Specification		
UNS NO.	AISI Grade	C Max	Mn Max	P Max	S Max	Si Max	Cr	Ni	Mo	Cu	I.S.	Other Element
Austentic												
S20100	201	0.15	5.5/7.5	0.06	0.03	1	16.0/18.0	3.5/5.5	-	-	-	-
S20200	202	0.15	7.5/10	0.06	0.03	1	17.0/19.0	4.0/6.0	-	-	-	-
S30100	301	0.15	2.0max	0.045	0.040	1.0	16.0/18.0	6.0/8.0	-	-	10Cr17Ni7	-
S30200	302	0.15	2.0	0.045	0.030	1.0	17.0/190	8.0/10.0	-	-	07Cr18Ni9	E-4-3-4%
S30300	303	0.15	2.0	0.045	0.15 min	1.0	17.0/19.0	8.0/10.0	-	-	15Cr18Ni9	E-4-1%Max
S30400	304	0.08	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	-	-	04Cr18Ni10	-
S30403	304L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	8.0/12.0	-	-	02Cr18Ni11	-
S30453	304LN	0.030	2.0	0.045	0.030	0.75	18.0/20.0	8.0/11.0	-	-	-	-
S30409	304H	0.05	2.0	0.045	0.03	1	18.0/20.0	8.5/9.5	-	-	-	CU:-2-2.50
S30900	309	0.20	2.0 max	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	20Cr24Ni12	-
S30908	309S	0.08	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	-	-
S31009	310H[4]	0.25	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	10Cr25Ni12	-
S31008	310S	0.08	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	-	-
S31600	316	0.08	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	04Cr17Ni12Mo2	-
S31603	316L	0.030	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	03Cr17Ni12Mo2	-
S31653	316LN	0.030	2.0	0.045	0.030	0.75	16.0/18.0	10.0/14.0	2.0/3.0	-	-	-
S31635	316Ti	0.080	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0		-	Ti5xCmin
S31700	317	0.08	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-	-
S31703	317L	0.030	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-	N:0.10/0.22
S31753	317LN	0.03	2.0	0.045	0.03	1	18.0/20.0	11.0/15.0	3.0/4.0	-	-	N:0.10/0.22
S32100	321	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	-	04Cr18Ni10Ti20	Ti5xCmin
S34700	347	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	-	04Cr18Ni10Nb-40	Nb/Ta10xCmin
N08904	904L[G]	0.02	2.0	0.045	0.035	1	19.0/23.0	23.0/28.0	4.0-5.0	-	-	CU : 1-2
Ferritic												
S41000	410	0.15	1.00	0.040	0.030	1.0	11.50-13.50	0.75	...	...	...	...
S41008	410S	0.08	1.00	0.040	0.030	1.0	11.50-13.50	0.60	...	...	...	...
S42900	429[G]	0.12	1.00	0.040	0.030	1.0	14.00-16.00	...	...	...	...	...
S43000	430	0.12	1.00	0.040	0.030	1.0	16.00-18.00	0.75	...	...	...	...
S43035	439	0.07	1.00	0.040	0.030	1.0	17.00-19.00	0.050	...	0.04	...	Ti 0.20 + 4 (C+N) min ;1.10 max Al 0.15max
S44400	444	0.025	1.00	0.040	0.030	1.0	17.5-19.5	1.00	1.75-2.50	0.035	...	Ti+Cb 0.20+4 (C+N min)
	409L	≤ 0.030	≤ 1.00	≤1.00	-	-	-	10.50~11.75	~	-	-	Ti 6 X C-0.75
Duplex & Super Duplex												
S31803	---	0.030	2.00	0.030	0.020	1.0	21.0-23.0	4.5-6.5	2.5-3.5	—	0.08-0.20	---
S32550	255[G]	0.040	1.50	0.040	0.030	1.0	24.0-27.0	4.5-6.5	2.9-3.9	1.50-2.50	0.10-0.25	---
S32750	2507	0.030	1.20	0.035	0.020	0.8	24.0-26.0	6.0-8.0	3.0-5.0	0.50	0.24-0.32	---
S32760	---	0.030	1.00	0.030	0.010	1.0	24.0-26.0	6.0-8.0	3.0-4.0	0.50-1.00	0.20-0.30	W 0.50-1.00

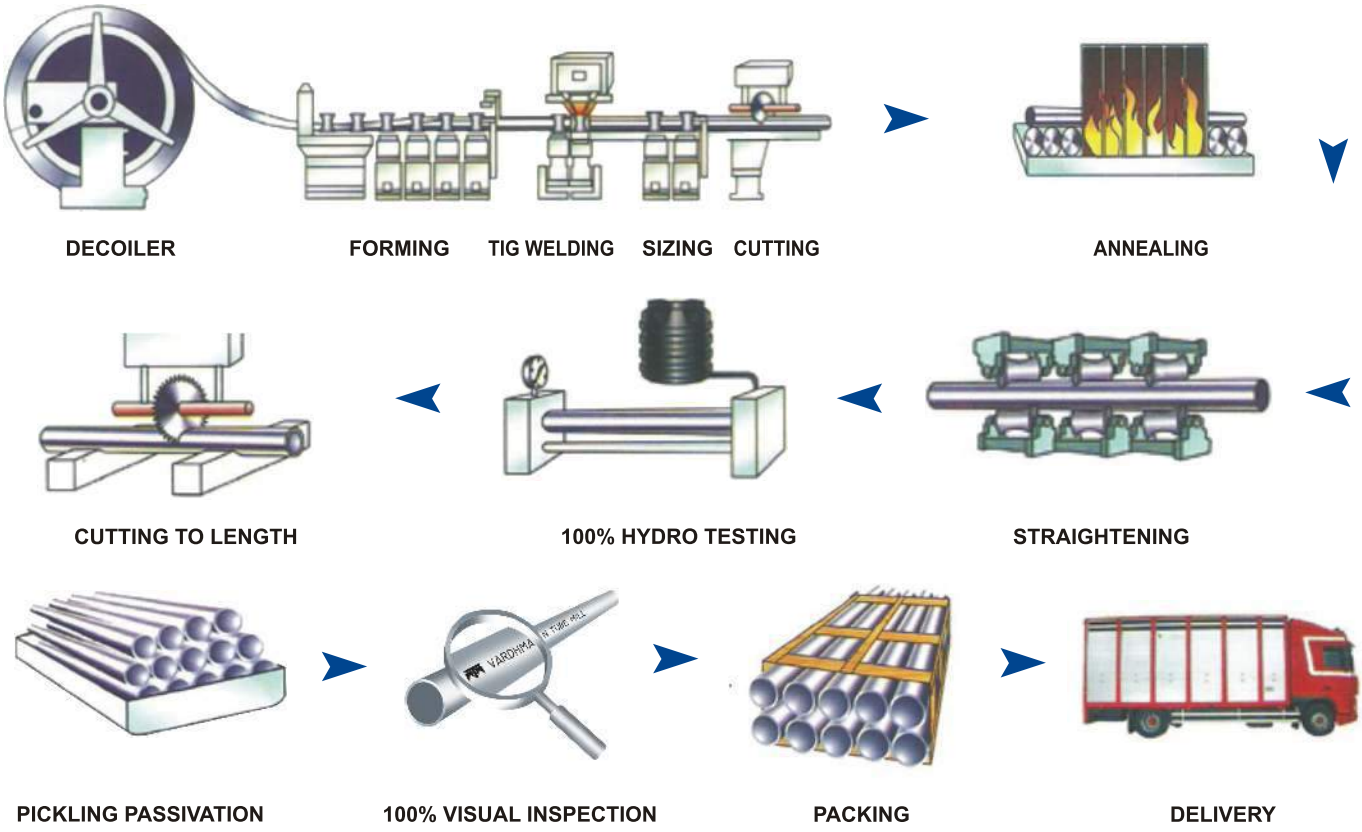
Email : info@vardhmantube.com | **Web.:** www.vardhmantube.com



VARDHMAN TUBE MILL

AN ISO 9001 : 2015 Certified Co.

PROCESS FLOW CHART



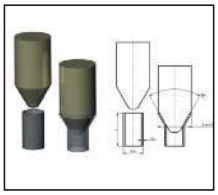
TEST

Corrosion Test



This test signifies the corrosion rate per annum which help to know the life of stainless steel material to test. It is carried as per practice A 262-A 763 if demanded by the purchaser.

Flaring Test



In this test a section of tube is flared with a tool having 60 degree included angle until the mouth of the tube has been expanded without cracking or any imperfection on weld or on parent material.

Flattening Test



In this test a section of tube is flared with a tool having 60 degree included angle until the mouth of the tube has been expanded without cracking or any imperfection on weld or on parent material.

Flange Test



A section of tube shall be capable of having flange turned over at a right angle to the body of tube with cracking or showing imperfections on weld or parent metal is subject to rejection. The width of flange shall not be less than 15% and as per specification.

Hydrostastic / Pneumatic Pressure Test



In this test, each length of finished Pipe/Tube is Hydro tested at their maximum strength.

Hardness Test



For the determination of softness requires to do further cold work on tube, the hardness test is performed on parent material of tube after annealing. The hardness for 1.7 mm to 5.0 mm and in Brinell scale above 5.10 mm wall thickness of pipe/tube as per the procedure laid down in the specification, less then 1.7mm thk superficial hardness is applicable.

Email : info@vardhmantube.com | **Web.:** www.vardhmantube.com



VARDHMAN
TUBE MILL
AN ISO 9001 : 2015 Certified Co.

VARDHMAN TUBE MILL
Manufacturers of Stainless Steel Pipes & Tubes.

Regd. Office :
201 / 2nd Floor, Lakdawala Sapphire,
4th Kumbharwada, Mumbai - 400 004.
Tel.: 022 - 6749 6054

Plant Address :
J-905/2, Phase III G.I.D.C Umbergaon - 396171
Dist-Valsad, Gujarat, India.
Tel.: 0260 - 256 3290

Email : info@vardhmantube.com

Web.: www.vardhmantube.com