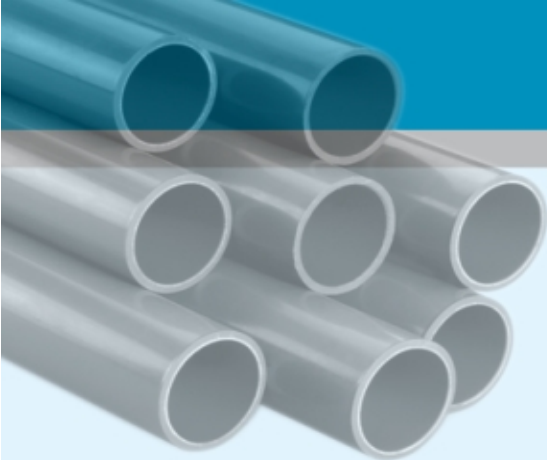
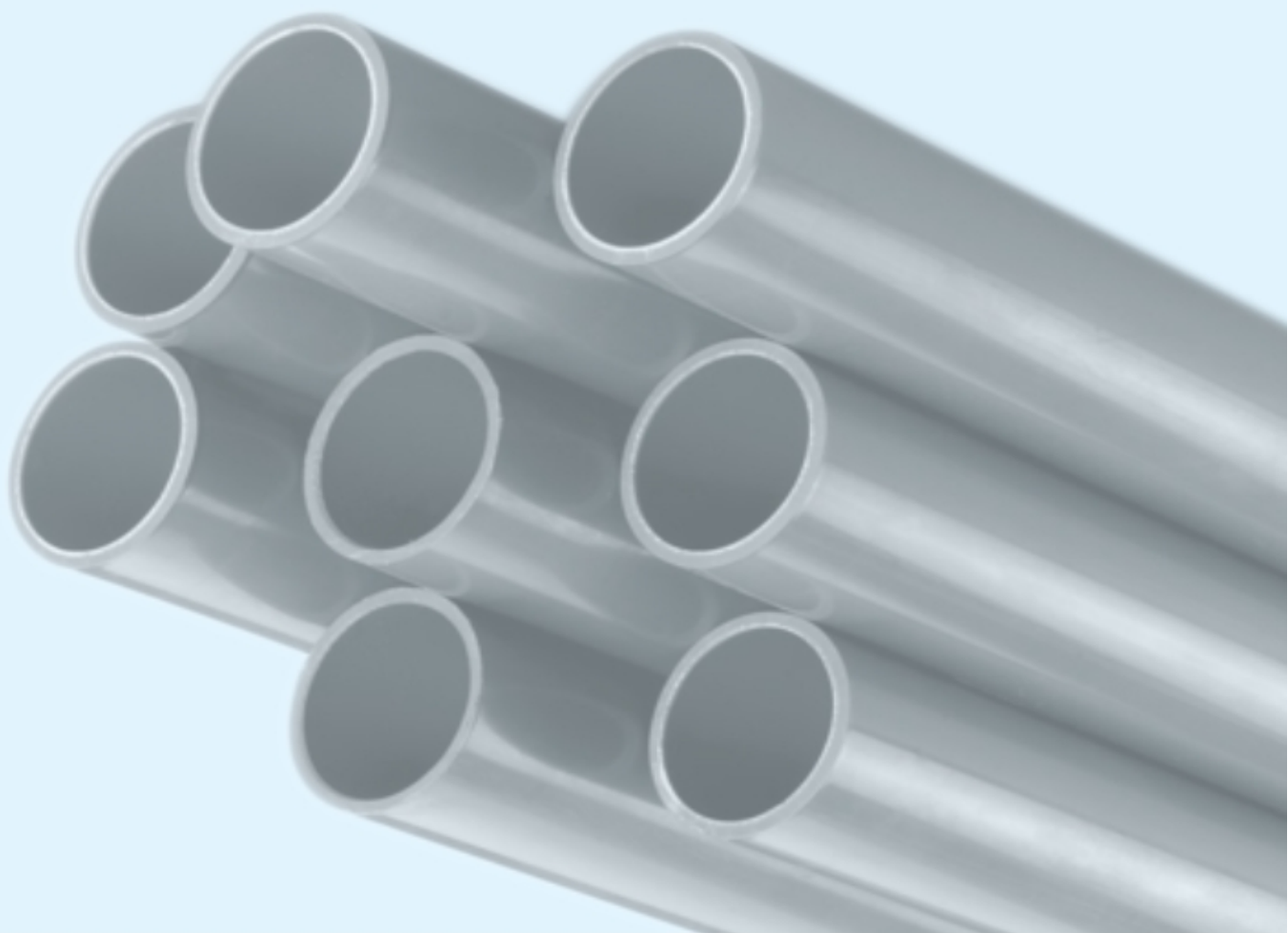




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MANUFACTURER & EXPORTER of
Stainless, Duplex, Super Duplex &
Nickel & other Alloys Tubes, Pipes, U Tubes and Fittings



Our Dream

P&P stainless steel tube company, is an industrial venture that has been born out of the entrepreneurial spirit of two young engineers, who despite not belonging to the traditional business community dared to step into the world of stainless steel tube industry dominated by the traditional cash-rich business class families of India. They believe that sincere intentions, backed by decades of hands-on professional experience, will go a long way in adding value to the fast-growing economy of this country has been the propelling force behind this venture.

Know P&P

P&P is being promoted by young entrepreneurs Mr Prashant Patel and Mr Nirav Prajapa who are technocrats. They started their careers in stainless steel tube industry and have decades of hands-on experience in plant operation, Raw material sourcing, equipment sourcing, customer servicing, dealing with various certifying agencies. They are fully abreast with latest technological trend in stainless steel manufacturing processes.

ABOUT P&P

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The vision of the entrepreneurs revolves around the aim to become a reliable and preferred choice of suppliers for customers in supplying quality products that add value for the resources expended by the customers. The vision also encompasses their commitment to all the stakeholders, the suppliers, the employees and the civic community around to

stand out as an example of running an enterprise with win-win business policies. The Mission involves taking large but firm progressive steps towards surpassing various milestones in the pursuit of establishing and sustaining a business enterprise that fulfills their dream vision.

"SATISFIED CUSTOMERS THROUGH SATISFIED AND INSPIRED SUPPLIERS AND EMPLOYEES"

OUR PLANT

The unit is situated in Sidhpur (North Gujarat) well connected with the industrial hub of Gujarat. The factory premises has generous reserve space for future expansion. The unit has been registered with the GIDC Norms & All regulatory and mandatory clearances have been obtained for the commencement of commercial operation. The process of getting vendor approvals from renowned industrial consumers of stainless steel tubes and facility approval by various certifying bodies has been successfully accomplished.

PLANT FACILITIES

The plant facility comprises of four Draw benches, square pipe drawing machine, two Tubemills, Annealing furnaces, Surface treatment units, Finishing machines like straightening, Cutting, Polishing. The set up has good testing and inspection facilities supported by essential instruments like PMI for grade identification, hardness tester, microscope and other miscellaneous testing equipment. The plant layout involves minimum material handling.

P&P TEAM

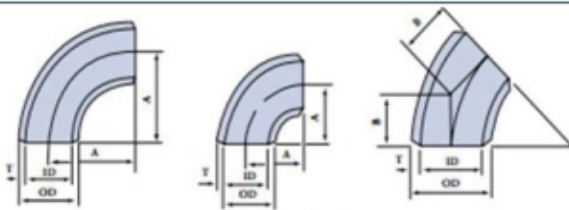
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PRODUCT RANGE AND CHEMICAL COMPOSITION



Long and Short Radius Elbows ASME B16.9 & B16.28 (in mm)

Nominal Pipe Size mm	Outside Diameter at Bevel D	Centre to End		
		Long Radius Elbow		Short Radius Elbow
		90 Deg A	45 Deg B	90 Deg A
15	21.3	38.1	15.7	-
20	26.7	28.4	11.2	-
25	33.5	38.1	22.4	25.4
32	42.2	47.8	25.4	31.8
40	48.3	57.2	28.4	38.1
50	60.5	76.2	35.1	50.8
65	73.2	95.2	44.4	63.5
80	88.9	114.3	50.8	76.2
100	114.3	152.4	63.5	101.6
125	141.2	190.5	79.2	127.0
150	168.1	228.6	95.2	152.4
200	218.9	304.8	127.0	203.2
250	273.0	381.0	158.8	254.0

ASME B36.19-B36.10 - pipe dimensions in mm and weights in kg

DN (mm)	NPS (inch)	OD (mm)	5.5	5	10.5	11	20	30	STD 40.5	40	60	80	100	120	140	160	XXS
15	1/2	10.3			1.34			1.45	1.73			2.41					
			0.3		0.3			0.3	0.4			0.5					
20	3/8	13.7			1.65			1.85	2.24			3.02					
			0.5		0.5			0.5	0.6			0.8					
25	1	17.5			1.85			1.85	2.31			3.20					
			0.6		0.6			0.7	0.9			1.1					
32	1 1/4	21.3	1.85	2.11				2.40	2.77			3.73				4.75	7.47
			0.8	1.0				1.1	1.3			1.6				2.0	2.6
40	1 1/2	26.7	1.85	2.11				2.40	2.87			3.91				5.56	7.82
			1.0	1.3				1.4	1.7			2.2				2.9	3.7
50	2	33.4	1.85	2.77				2.90	3.38			4.55				6.35	8.89
			1.3	2.1				2.2	2.5			3.3				4.3	5.5
60	2 1/2	42.2	1.85	2.77				2.90	3.54			4.85				6.35	8.70
			1.7	2.7				2.9	3.4			4.5				5.7	7.9
80	3	48.3	1.85	2.77				3.18	3.68			5.08				7.34	10.15
			1.9	3.2				3.5	4.1			5.5				7.4	9.7
100	4	60.3	1.85	2.77				3.18	3.91			5.54				8.34	11.07
			2.4	4.0				4.5	5.5			7.6				11.3	15.4
125	5	73.0	2.11	3.95				4.78	5.16			7.01				9.53	14.02
			3.8	5.3				5.0	5.6			7.4				14.0	20.4
150	6	88.9	2.11	3.95				4.78	5.49			7.62				11.3	15.34
			4.8	6.5				5.3	6.1			8.3				21.4	27.7
200	8	114.3	2.11	3.95				4.78	5.74			8.08					
			5.2	7.4				11.4	13.6			15.6					
250	10	141.3	2.11	3.95				4.78	6.02			8.56				11.13	13.48
			5.8	8.4				12.9	16.1			22.3				33.5	41.8
300	12	168.1	2.77	3.40				6.55				9.53				12.70	15.88
			9.5	11.8				21.8				31.8				40.3	57.4
350	14	188.3	2.77	3.40				7.11				10.67				14.27	18.26
			11.3	13.8				28.3				42.8				54.2	67.6
400	16	219.1	2.77	3.76				6.35	7.04			10.31				15.89	18.26
			14.8	20.0				30.3	38.8			50.1				75.9	90.4
450	18	273.0	3.40	4.19				6.35	7.30			12.70				18.26	21.44
			22.6	27.8				40.4	51.8			61.6				81.6	101.6

	VARIAS GRADE	UNS (United) Numbering	USA Canada/AISI ASTM-ASME	India/IS Letter Symbol	Germany/DIN Designation	Japan/JIS	%C (Max.)	%Mn (Max.)	%P (Max.)	%S (Max.)	%Si (Max.)	%Cr	%Ni	%Mo	%N (Max.)	%Others
Austenitic Cr-Ni*	301	530100	310	X10Cr17Ni7	X12CrNi177	SUS301	0.15	2.00	0.045	0.030	1.00	16.00-18.00	6.00-8.00	---	0.10	---
	304	530400	304	X04Cr19Ni9	X5CrNi1810	SUS304	0.08	2.00	0.045	0.030	0.75	18.00-20.00	8.00-10.50	---	0.10	---
	304H	530409	304H	---	---	---	0.04-0.10	2.00	0.045	0.030	0.75	18.00-20.00	8.00-10.50	---	---	---
	304L	530403	304L	---	---	SUS304L	0.30	2.00	0.045	0.030	0.75	18.00-20.00	8.00-12.00	---	0.10	---
	310	531000	310	X20Cr25Ni20	X15CrNiSi2520	SUS310	0.25	2.00	0.045	0.030	1.50	24.00-26.00	19.00-22.00	---	---	---
	310S	531008	310S	---	X12CrNi2621	SUS310S	0.08	2.00	0.045	0.030	1.50	24.00-26.00	19.00-22.00	---	---	---
	316	531600	316	X04Cr17Ni12Mo2	X2CrNiMo17122	SUS316	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	531603	316L	X02Cr17Ni12Mo2	X2CrNiMo17122	SUS316L	0.03	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00	2.00-3.00	0.10	---
	316Ti	531635	316Ti	X04Cr17Ni12Mo2Ti	X6CrNiMoTi17122	---	0.08	2.00	0.045	0.030	0.75	16.00-18.00	10.00-14.00	2.00-3.00	0.10	Ti=5X(C+N)Min., 0.70 Max.
	321	532100	321	X04Cr18Ni10Ti	X6CrNiTi1810	SUS321	0.08	2.00	0.045	0.030	0.75	17.00-19.00	9.00-12.00	---	0.10	Ti=5X(C+N)Min., 0.70 Max.
Martensitic	410	541000	410	X12Cr12	X12Cr13	SUS410	0.15	1.00	0.040	0.030	1.00	11.50-13.50	0.75max	---	---	---
	420	542000	420	X20Cr13	SUS420J1	SUS420J1	0.15 min	1.00	0.040	0.030	1.00	12.00-14.00	0.75max	---	---	---
	409	540900	409	---	X2CrTi12	---	0.03	1.00	0.040	0.020	1.00	10.50-11.75	0.50max	---	0.030	Ti=6X(C+N)Min., 0.5 Max.
	410S	541008	410S	---	S41008	---	0.08	1.00	0.040	0.030	1.00	11.50-13.50	0.60max	---	---	---
	430	543000	430	X07Cr17	X6Cr17	SUS430	0.12	1.00	0.040	0.030	1.00	16.00-18.00	0.75max	---	---	---

NICKEL BASE ALLOYS													
NOMINAL CHEMICAL COMPOSITION, % (not for specification purposes)													
Nickel	Fe	C	Mn	Pb	S	Si	Cu	Cr	Co	Mo	Al	Ti	Other
Nickel	99.5	0.08	0.018	0.2	0.005	0.18	8.13	---	---	---	---	---	---
Nickel D101	99.5	0.01	0.018	0.2	0.005	0.18	0.13	---	---	---	---	---	---
Nickel D105	99.5	0.08	0.018	0.010	0.004	0.18	0.08	---	---	---	0.05 Mg	---	0.05
Nickel D12	97.7	0.010	2.0	0.58	0.005	0.18	0.03	---	---	---	---	---	---
Nickel D22	98.5	0.01	0.02	0.04	0.0028	0.01	0.01	0.08	0.01	0.01	Mg=0.01	---	---
Nickel D70	99.98	0.01	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	---
Nickel	Fe	C	Mn	Pb	S	Si	Cu	Cr	Co	Mo	Al	Ti	Other
NICORREL alloy 400	63.0 min	0.15	1.0	28max	0.02max	0.85max	34.6	---	---	---	---	---	---
NICORREL alloy 400	63.0 min	0.015	1.8 max	2.5max	0.010max	0.6	30.8	---	---	---	---	---	---
Cast NICORREL alloy	63.0 min	0.07	0.75	2.5max	0.02max	0.04max	30.0	0.30max	---	0.20max	0.05max	0.01max	---
Cast NICORREL alloy	63.0 min	0.03max	0.02max	---	0.02max	0.04max	38.0	---	---	0.20max	0.05max	0.01max	---
NICORREL alloy 600	Fe	C	Mn	Pb	S	Si	Cu	Cr	Co	Mo	Al	Ti	Other
NICORREL alloy 600	60.5	0.15max	0.75max	8.0	0.05max	0.85max	0.05 max	15.5	---	0.8	0.25	0.25	Nb + Ta 3.85
NICOLLOY alloy 800	Fe	C	Mn	Pb	S	Si	Cu	Cr	Co	Mo	Al	Ti	Other
NICOLLOY alloy 800	32.5	0.15max	1.8max	8.0	0.01max	1.0max	0.75 max	21.8	---	---	0.38	0.38	---
NICOLLOY alloy 825	42.0	0.08max	1.0max	8.0	0.03 max	0.85max	2.28	21.8	---	3.8	0.9	---	---
NICOLLOY alloy 904	32.5	0.025	0.025	8.0	0.015	0.25	0.25	---	14.5	---	9.1	---	---
NICOLLOY alloy 95	39.0	1.2	1.2	8.0	---	2.3 max	2.3 max	18.0	---	---	0.20	---	---
Hastelloy B	Fe	C	Mn	Pb	S	Si	Cu	Cr	Co	Mo	Al	Ti	Other
Hastelloy B	55.0	0.10	0.80	5.68	0.7	0.6	1.28	28	---	---	---	---	---
Hastelloy C	55.0	0.05	0.80	5.79	0.7	0.6	1.28	27	---	---	---	---	---
Hastelloy G	55.0	0.05	1.623	18.0210	0.7	1.2	21.235	1.28	5.975	---	---	---	---

Composition Percentage, Max or Range									
UNS	Carbon C	Manganese Mn	Phosphorus P	Sulphur S	Silicon Si	Nickel Ni	Chromium Cr	Molybdenum Mo	Nitrogen N
S31803	0.030	2.00	0.030	0.020	1.00	4.5-6.5	21.0-23.0	2.5-3.5	0.08-0.20
S32205	0.03	2.00	0.03	0.02	1.00	4.5-6.5	22.0-23.0	3.0-3.5	0.14-0.20
S32550	0.04	1.50	0.040	0.030	1.00	4.5-6.5	24.0-27.0	2.9-3.9	0.10-0.25
S32750	0.030	1.20	0.035	0.020	0.80	6.0-8.0	24.0-26.0	3.0-5.0	0.24-0.32
S32760	0.05	1.00	0.030	0.010	1.00	6.0-8.0	24.0-26.0	3.0-4.0	0.20-0.30



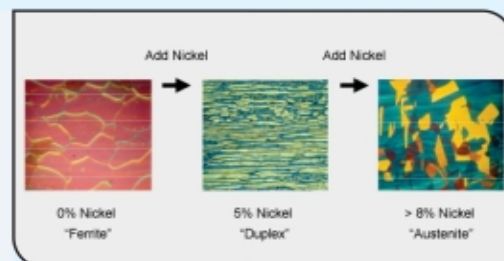
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PRODUCT STRENGTH @ P&P

PRODUCT METALLURGY & GRADES

Austenitic Stainless Steel	: 304/304 L, 1.4306, 304 H, 310 S, 316/316 L, 316Ti, 317L, 321/321 H, 347 H, 904 L, UNS No. S31254
Ferritic Steel	: 405, 409, 410
Duplex Stainless Steel	: Alloy 32205, Alloy 32750, Alloy 32760
Nickel Alloys	: Alloy 8020, Alloy 8028, Monel 4400, Inconel 6600 Inconel 6625, Incoloy 8800, Incoloy 8825, Hastalloy C-276
Special Grades	: EN 1.4835, EN 1.4435, EN 1.4335, UNS No. S31050, 316L UG, UNS No. S30815



SEAMLESS

Specification	: ASME & ASTM A 213 / A 268 / A 269 / A 312 / A 789 / A 790 SB 165 / SB 338 / SB 423 / SB 444 / SB 729 / SB 829 EN 10216-5 / EN 10297-2 / DIN 2391
OD	: 4.00 mm to 114.3 mm
N.B	: 1/8" - 12"
Thickness	: 0.5mm to 15mm
Length	: Up to 30 Meters
Process Features	: Bright Annealed / Solution Annealed - Pickled - Passivated
Surface Finish	: Bright / Pickled / Polished (ID & OD).

U-TUBES

Specification	: ASME & ASTM A 213 / A 688 & TEMA RCB 23C
OD	: 12.00 mm to 38.00 mm
Thickness	: 1.24 mm to 2.5 mm.
Leg Length	: Up to 8 Meters Leg Length
Process Features	: Bright Annealed / Solution Annealed - Pickled - Passivated IN-SITU Metallography Test U-Bend 1.25 D Up to 1000 mm Full Length Stress Relieving (SR) & DP after U-Bending
Surface Finish	: Bright / Pickled / Polished (ID & OD).



COIL FORMED TUBES

Specification	: ASME / ASTM A 213 / A 269
OD	: 4.00 mm to 12.70 mm
Thickness	: 0.5mm to 1.65 mm
Length	: Up to 300 Meters in Coil Form
Coil Dia	: Up to 1 Meter
Process Features	: Bright Annealed / Annealed Pickled Polished
Surface Finish	: Bright / Polished



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ERW WELDED TUBES & PIPES

Specification	: ASTM- Standards, A 249 / SA 249, A 268 / SA 268, A 269 / SA 269, A 312 / SA 312, A 688 / SA 688* Manufacturing facility in Mumbai (Maharashtra)
OD	: 12.00 mm to 38.00 mm
Thickness	: 1.24 mm to 2.5 mm.



SEAMLESS FITTINGS (ELBOW-LR/SR)

Specification	: ASME : ANSI B16.9, ANSI B16.28, MSS-SP-43 DIN : DIN2605, DIN2615, DIN2616, DIN2617, DIN28011 EN : EN10253-1, EN10253-2 (Seamless butt weld fittings)
N.B	: 1/2" NB to 4" NB
Thickness	: Sch10 to Sch40
Length	: As per standard

PACKING AND LOGISTICS

TYPE OF PACKING :

- ◆ Seaworthy Wooden Box
- ◆ Seaworthy Crate Box
- ◆ Hessain Cloth
- ◆ 20' & 40' Open Top
- ◆ 45' Close Top Container
- ◆ FCL & LCL Cargo

LOGISTICS :

- ◆ By Road All Over India
- ◆ By Sea Worldwide
- ◆ By Air Worldwide
- ◆ Flat Bed Container
- ◆ Breakbulk Container



OVER VIEW "TOUCH THE PERFECTION" 1000 MT / Annum

Infrastructure of the plant	Well equipped utilities and facilities
Total Seamless Output (Cold Drawn)	
Product MOC	Austenitic, Super Austenitic, Duplex, Super Duplex & Nickle Alloy
Type of Products	Stainless, Duplex, Super Duplex & Nickel & other Alloys Tubes, Pipes, U Tubes and Fittings
In House Testing Facility-Water leak (Hydro) Test, Air Under Water (Pneumatic) Test and reputed Test house associated for Eddy Current Testing, Ultrasonic Testing, IGC Pr. A& E to meet standard requirement & adhere to the customer satisfaction	

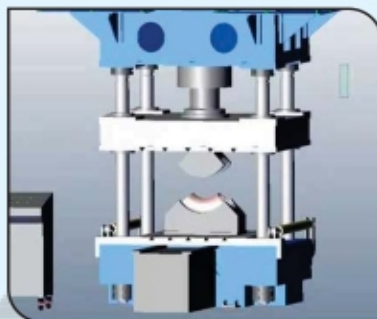


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QUALITY ASSURANCE & CONTROL

Hydrostatic Test	4.00 mm OD to 114.30 mm OD
Pneumatic test (Air Under Water)	6mm OD TO 50.8 mm OD Up to 10 bar
Ultrasonic Thickness Guages	Up to 15mm (Digital)
Possitive Material Identification (PMI)	Quickly analyze and identify the composition of metals and alloys.
Corrosion Testing	Laboratory Glassware to test IGC Pr. A & E acc. ASTM A 262 & EN ISO 3651 / 2
Tensile Flange / Flare / Flattening/ Reverse Flattening bend test	UTE 40-FIE Make (with Extensio Meter)
Hardness Test	Twin Hardness Tester
Micro Structure Analysis & Grain Examination	Polishing Machine Electro Etching Machine Inverted Metallurgical Microscope with Optics & CCD camera
Dimensional Checking	Digital vernier Caliper, Flat & Ball Micrometer etc of Mitutoyo make



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Expression of gratitude

The entrepreneurs are indebted to Mahesh Toshniwal of Just imagine movement . Mahesji's wisdom on Law of attraction and achieving desired goals in one's life by following the positive visualization process has been the prime driving force behind our entrepreneurial venture .



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