



DUPLEX

SUPER
DUPLEX

U-TUBES

KRYSTAL

NICKEL
ALLOY
TUBES

PIPES

SEAMLESS
STAINLESS

QMS | EMS | OHSAS

P.E.D & AD 2000 Merkblatt W0 Compliant
Government Recognized Export House

MANUFACTURER & EXPORTER OF
Seamless Tubes, Pipes, U Tubes & Coil Tubes

- 🔧 Exotic Nickel Alloys
- 🔧 Austenitic Stainless Steel
- 🔧 Super Austenitic Stainless Steel
- 🔧 Duplex & Super Duplex Steel
- 🔧 Super Bright Electropolished Tubes



Vision

- ❖ We aspire to be a Happily Successful Process Driven Progressive Organization with a CAGR of 20% + Y-O-Y Growth in Revenues & Profits for Empowering & Upgrading Peoples, Partners & the Nation.

Mission

- ❖ We shall achieve the revenue milestone of USD 60 Million (INR 500 Crores) by the 31st of March 2027.
- ❖ We shall successfully list, Krystal Global Engineering Ltd. on the NSE Main Board by the 31st of December 2027.
- ❖ We shall achieve the revenue milestone of INR USD 120 Million (INR 1000 Crores) by the 31st of March 2030 with EBITDA > 20% & 200% + growth for all people, partners, and investors.
- ❖ We shall create employment opportunities for 1000+ families by the 31st of December 2030.
- ❖ We shall progressively reduce our carbon footprint each year by a minimum of 5%.

Values & Behaviours

- ❖ **Customer Value:** We shall demonstrate a proactive customer-first and customer-delight mindset. We shall proactively listen to customer feedback and inputs to continuously improve our products and customer experience.
- ❖ **Excellence in Execution:** Always thinking in terms of ROTI - Return on Time Investment. Time is a scarce resource; we must invest time and not spend it. We must keep the main thing and do the first things first. We shall always commit to the highest standards of safety and environment. We shall conduct ourselves to the highest standards of corporate citizenship.
- ❖ **Being Proactive:** Being proactive, doing the right thing right. We shall prioritise and align our work keeping the larger purpose of the organization in mind. Being proactive in communication and in building interpersonal relationships.
- ❖ **Ownership Mindset:** We shall operate with a personal stake and an ownership mindset and play to win. We shall always remain agile and anticipate what will make a difference to our stakeholders and make it happen with speed.
- ❖ **Harmonious teamwork:** We shall collaborate seamlessly, seeking, and offering help as one team, one family. We shall take accountability of our own actions and also that of our team.



KRYSTAL @ 2024

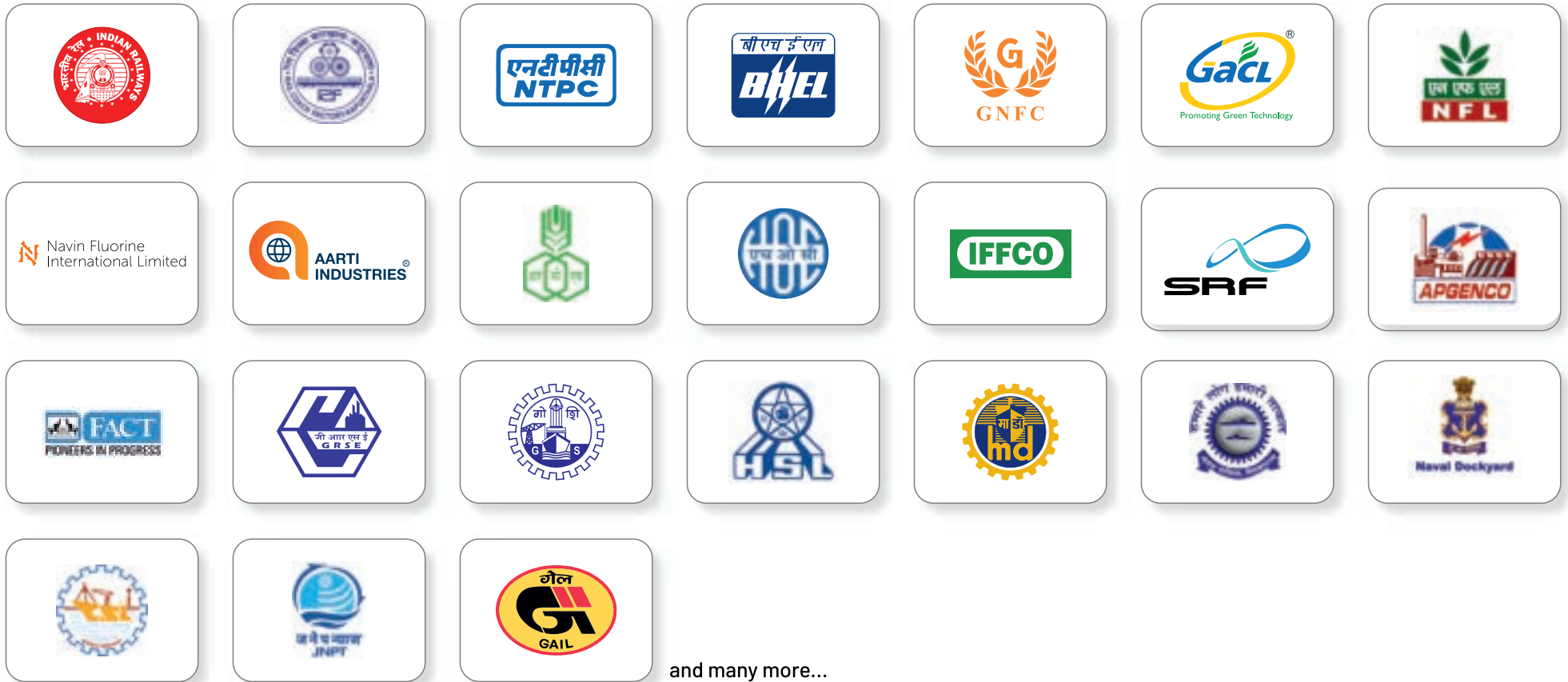
- ✦ Envisioned by a team of dynamic Entrepreneurs with the support of > 250 dedicated, committed people driven by an ownership mindset; striving relentlessly with the prime motto of **"Quality First.....Customer Always"**.
- ✦ IMS (ISO 9001:2015, ISO 14001:2015, ISO 45001:2018)certified company.
- ✦ PED 2014/68/EU & AD 2000 Merkblatt W0 / W2 / W10 approved manufacturer.
- ✦ NORSOK & VD TUV-certified products.
- ✦ >200 happily satisfied and delighted customers in > 32 Countries.
- ✦ Specialised in the production of high-performance exotic Alloy Tubes & super bright Annealed Electropolished Tubes with a Ra < 0.4 Microns.
- ✦ Multiple Radius Bends in a single Tube without any Weld Joints, especially for Cryogenic and Power Applications.
- ✦ Continuous Improvement Plan (CIP), Continuous R&D for new product developments and Continuous T&D (training and development) for enabling, empowering, engaging, and upgrading our people is a way of life at Krystal.
- ✦ We believe that society and our nation have played a crucial, pivotal role in our growth. As a token of appreciation, expressing our gratitude we have and will always remain committed to serving our society and our nation by way of our CSR spending. For us, it is just not a corporate responsibility, it is our moral responsibility.



APPROVALS & ACCEPTANCE



APPROVALS & ACCEPTANCE



CERTIFICATES



MATERIAL GRADES



NICKEL & NICKEL ALLOY
Nickel 2200/2.4066/ALLOY 200
Nickel 2201/2.4068/ALLOY 201
Monel 4400/2.4360/ALLOY 400 MONEL
Inconel 6600/2.4816/ALLOY 600
Inconel 6022/2.4602/Hatelloy C-22
Inconel 6625/2.4856/ALLOY 625 INCOLY
Incoloy 8800/1.4558/ALLOY 800 INCOLOY
Incoloy 8810/1.4876/ALLOY 800H INCOLOY
Incoloy 8811/1.4876/ALLOY 800HT INCOLOY
Incoloy 8020/2.4660/ ALLOY 20
Incoloy 8825/2.4858/ALLOY 825 INCOLOY
Incoloy 8028/1.4563/ALLOY 28
Inconel 10276/2.4819/Hatelloy C-276

FERRETIC
TP 405/1.4002
TP 410/1.4006

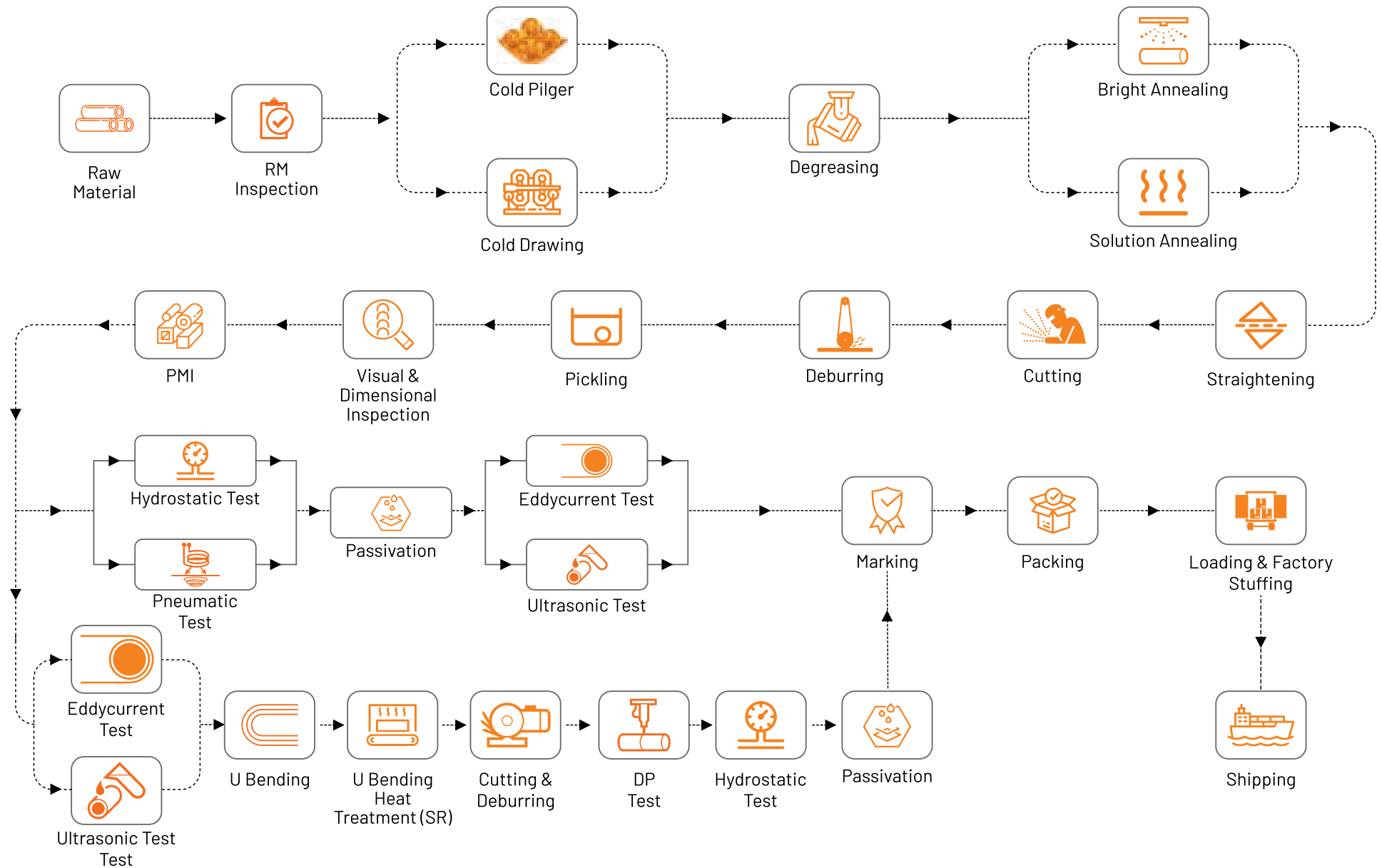
AUSTENTIC
TP304/TP304L/1.4301/1.4307
TP 309/1.4828
TP 304H/1.4948
TP 310/TP310S/1.4845
TP316/TP316L/1.4401/1.4404
TP 316H/1.4918
TP 316Ti/1.4571
TP 317/TP 317L/1.4438
TP 321/TP 321H/1.4541/1.4940
TP 347/TP 347H / 1.4550/1.4912
EN 1.4306

SUPER AUSTENTIC
UNS S32154/1.4547
TP 904L/UNS N08904/1.4539
UNS S30815/1.4835
EN 1.4435
EN 1.4335
TP 304LN/ 1.4311
TP314/1.4841
TP 316LN/1.4406
TP 317LMN/1.4439

DUPLEX & SUPER DUPLEX
UNS S31803
UNS S32205/1.4462
EN 1.4362
UNS S32750/1.4410/SUPER DUPLEX F53
UNS S32760/1.4501/SUPER DUPLEX 25CR

- We Manufacture Products as per ASTM, ASME, DIN EN (GERMAN), NF (AFNOR), JIS (JAPAN) & Other Equivalent Standards.

SEAMLESS TUBES & PIPES PRODUCTION PROCESS



Seamless Heat Exchanger Straight Tubes:

Krystal manufactures High Performance Heat Exchanger Tubes serving all industries and applications across the Globe. Our heat exchanger tubes are efficiently used for the cooling, heating or re-heating of fluids, gases, air in a diverse range of industries.

Krystal Tubes are highly efficient having very high working life being produced with very stringent production and quality norms.

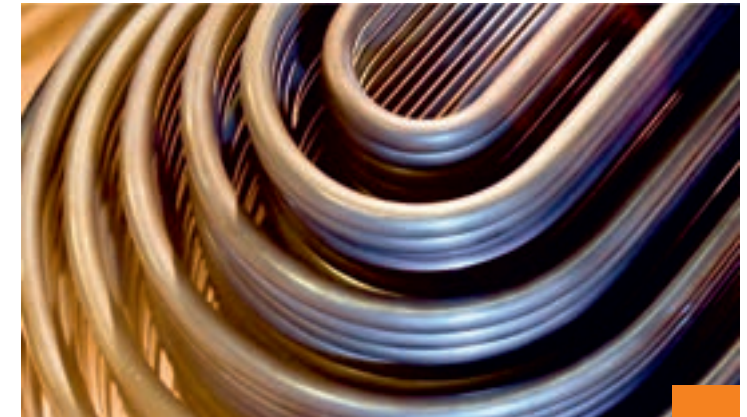
- ✦ **Metallurgy** : Nickel Alloys, Austenitic, Super Austenitic, Duplex, Super Duplex, Ferritic
- ✦ **Outside Diameter** : 9.53 mm to 76.2 mm OD
- ✦ **Wall Thickness** : 0.7 mm to 4.00 mm
- ✦ **Specification** : SB 163, SB 167, SB 407, SB 423, SB 444, ASTM A-213, A-268, A-789, EN 10216-5
- ✦ **Length** : As per Requirement, maximum up to 24 Meters long
- ✦ **Surface Finish** : Bright Annealed(CFA), Solution Annealed(CFD)
- ✦ **End Cut** : Plain End



Seamless Heat Exchanger U Tubes:

Krystal has dedicated facility to manufacture U Tubes with developed lengths upto 24 meters in U bend, Multiple U Bend, C Bend and Different shapes of Bending.

- ✦ **Metallurgy** : Nickel Alloys, Austenitic, Super Austenitic, Duplex, Super Duplex, Ferritic
- ✦ **Outside Diameter** : 9.53 mm to 88.9 mm
- ✦ **Wall Thickness** : 1mm to 6.00 mm
- ✦ **Specification** : SB 163, SB 167, SB 407, SB 423, SB 444, ASTM A-213, A-268, A-789, EN 10216-5, TEMA 'RCB' 2.3 & ASTM A-688
- ✦ **Length** : As per Customer's Drawing, Developed length up to 24 Meter
- ✦ **Surface Finish** : Bright Annealed(CFA), Solution Annealed(CFD)
- ✦ **Special Process** : Full Length SR, In Situ Metallography, DP Test, Ball Pass test
- ✦ **End Cut** : Plain End

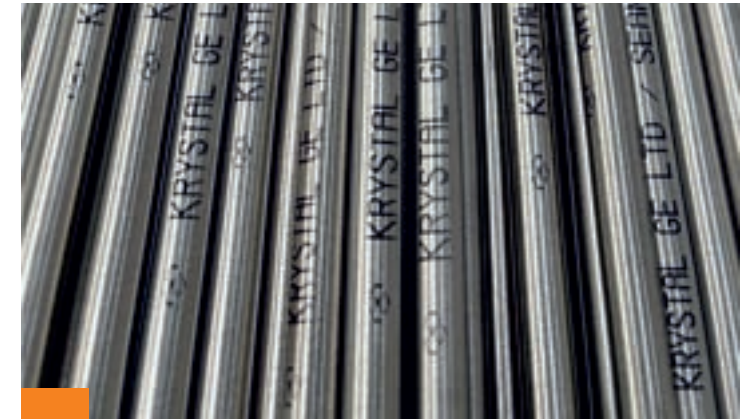


We manufacture Products as per ASTM, ASME, DIN EN (GERMAN), NF (AFNOR), JIS (JAPAN) & Other Equivalent Standards.

Seamless Instrumentation & Hydraulic Tubes:

Krystal is one of the renowned manufacturer and supplier of a qualitative range of Instrumentation Tubes that are being designed as per the national and international standards and specifications. Krystal Tubes are a perfect fit for the ferrule fittings in all range with smooth biting, turning and clamping.

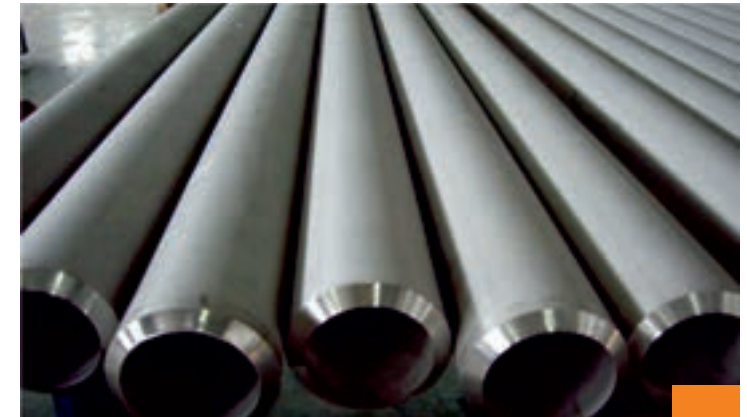
- ✧ **Metallurgy** : Nickel Alloys, Austenitic, Super Austenitic, Duplex, Super Duplex, Ferritic
- ✧ **Outside Diameter** : 3.17 mm to 101.6 mm
- ✧ **Wall Thickness** : 0.4 mm to 8.00 mm
- ✧ **Length** : 6 Meter Fixed Length Or as per Requirement. Maximum up to 24 Meter long
- ✧ **Specification** : SB 163, SB 167, SB 407, SB 423, SB 444, ASTM A-269, A-268, A-789, EN 10216-5
- ✧ **Surface Finish** : Bright Annealed (CFA), Solution Annealed (CFD), OD & ID Polished upto 1200 Grits.
- ✧ **End Cut** : Plain End



Seamless Process Pipes:

Cold Finished Seamless Pipes are produced from Hot Extruded as well as Hot Pierced Mother hollows in different alloys meeting the national and international standards.

- ✧ **Metallurgy** : Nickel Alloys, Austenitic, Super Austenitic, Duplex, Super Duplex, Ferritic
- ✧ **Range** : 6 NB to 300 NB
- ✧ **Outside Diameter** : 1/8" NPS to 12" NPS (13.73 mm to 323.90 mm)
- ✧ **Wall Thickness** : 1.24 mm to 12.7 mm
- ✧ **Specification** : EN10216-5, ASTM A312/A312M, ASME SA312/SA312M, ASTM A790 / A790M
- ✧ **Length** : Single Random Length 5 to 7 Meter or Double Random Length 10 - 12 Meter or Cut Length
- ✧ **Surface Finish** : Solution Annealed (CFD), Mechanical Polished, Sand Blasting
- ✧ **End Cut** : Plain End or Beveled End



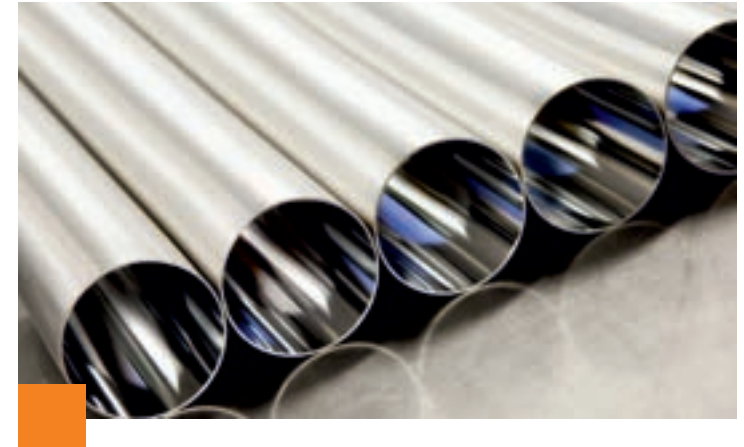
We manufacture Products as per ASTM, ASME, DIN EN (GERMAN), NF (AFNOR), JIS (JAPAN) & Other Equivalent Standards

Super Bright Annealed Electropolished (SBA-EP) Seamless Tube

Krystal understands the importance of end to end smooth flow of material. Krystal Tubes with Inside and Outside Mechanical polish as well as Electro Polish provides super smooth surface for the transfer of material without stagnancy in the flow.

Krystal SBA tubes are well established High Performance Tubes for the Pharmaceutical, Dairy, Breweries, Biotechnology & Semiconductor Industries.

- ✧ **Metallurgy** : Austenitic, Duplex, Nickel Alloys
- ✧ **Outside Diameter** : 3.18 mm to 88.9 mm
- ✧ **Wall Thickness** : 0.89 mm to 2.77 mm
- ✧ **Specification** : ASTM A213 / ASTM A269
- ✧ **Length** : 6 Meter Fixed Length or as per customer requirements
- ✧ **Roughness** : $Ra \leq 0.25\mu\text{m}$ (Internal), $Ra \leq 0.50\mu\text{m}$ (External)
- ✧ **Packing** : Each tube purged with N2 gas, capped on both ends, packed in clean double-layer of bags and final into wooden case.
- ✧ **End Cut** : Plain End



Coil Tube

We manufacture stainless steel and nickel alloy tubing for high-performance applications where corrosion resistance, tolerance and purity are critical. Our coiled tubing - supplied in one continuous length - prevents the impurities associated with welding sections of tubing together, and it is available in both loose & bulk wound into coils or level wound onto various reel sizes.

Relying on one continuous length of tubing reduces installation time, as it doesn't require welding multiple tube sections. The tubing's seamless construction also improves its performance since the entire coil has the same dimensions and durability properties.






- ✧ **Outside Dimension** : 3.175 mm to 25.4 mm
- ✧ **Wall thickness** : 0.5 mm to 2.11mm
- ✧ **Specification** : ASTM A269
- ✧ **Length** : Up to 200 Meter (650 Feet) in coil Length with respect to dimensions.



Corrugated Tubes

Krystal offers Single Corrugation as well as Cross Corrugation in Seamless Tubes by indenting plain tube with smooth and spiral projections, which generate turbulence in both outside and inside media increasing value for money and life of the tubes.

Corrugated tubes have variety of application such as Absorption type Refrigerator, Turbo Refrigerators and Screen Refrigerators Distillation Facility with multiple effects, for various effluent water, Dye-house effluent, Digestion Sludge, Food, Grain Slurry, Fruit Pulp, etc. Corrugated Tubes are manufactured out of various materials viz. Copper, Cupro-Nickel, Stainless Steel, Carbon Steel, etc.










-  **Range** : 6.35 mm To 50.8 mm OD
-  **Thickness** : 0.50 mm TO 6.0 mm
-  **Length** : As per Customer requirement, Maximum upto 22 Meter Long.
-  **Specifications** : ASTM A213, ASTM A269
-  **Packing** : Sleeved, Ends Capped, Wooden Boxed



Finned Tubes

Krystal Finning Division is solely focused on producing the largest variety and most complete solutions for finned tubing. These tubes are made in two typical styles.

1. Applied finned tube which helically winds metal fins onto a tube or pipe.
2. Extruded finned tubes, are made by forming fins into a base tube creating integral fins on the outside and/or inside diameter.

-  **Metallurgy** : Austenitic, Super Austenitic, Duplex and Nickel Alloys
-  **Fin Type** : "L", "LL", "G" EMBEDDED, Extruded
-  **Diameter** : 12.70mm, 15.88mm, 19.05mm, 22.20mm, 25.40mm & 38.10mm
-  **Fin Thickness** : 0.8mm up to 3.2mm
-  **Fin Height** : 0.8 mm to 38 mm
-  **Fin Pitch** : 60 FPM to 315 FPM
-  **Length** : As per Customer Requirement, Maximum upto 20 Meters
-  **Testing** : Fin Tubes will be supplied, duly Hydro Tested, after finning
-  **End** : Plain portion at both end



PRODUCTION AT GLANCE



- ⚙️ **Product Metallurgy** : Austenitic, Super Austenitic, Duplex, Super Duplex, Nickel Alloys.
- ⚙️ **Product** : Seamless Tubes, Pipes, U Tubes, Coil Tubes, Finned Tubes, Corrugated Tubes.
- ⚙️ Bright Annealed Small Dia x Thin Wall Tubes in Straight & Coil Form.
- ⚙️ U Bend Tubes for Pressure Equipment with Leg - Length up to 14 Meters.
- ⚙️ Tubes & Pipes with Superior Corrosion Resistance up to 12 MPY in Acc. to ASTM A 262- IGC Pr. B & C, EN ISO 3651 / 2 Method A, B, C.
- ⚙️ Detection of Transfer & Longitudinal Imperfections in Accordance to EN 10246, 2,4,6,7 & 13 & as per ASTM E 213 & E 246.
- ⚙️ ID - Electropolished (Ra - up to 0.4 μm) & OD - Mechanical Polished up to 800 Grits.
- ⚙️ In House Testing Facilities - Water Leak (Hydro) Test, Air Underwater (Pneumatic) Test, Eddy Current Testing, Ultrasonic Testing, IGC Pr. A & E to Assure & Certify the right Product Quality in line with our Prime motto of **"Quality First..... Customer Always"**.

QUALITY AT GLANCE

Customer Always is the way of working at Krystal. To have Continuous Progress, we adhere to strict Quality Control Measures at Order Planning stage to RM Indent to RM inspection and so on until Packing and dispatch.

We are providing continuous training to the operators & supervisors to be the process owners and experts to always produce First Time Right Quality. To have added assurance we have in process inspection team with full knowledge about the order and specs requirements.

At Krystal, all inspection and testing equipment are available inhouse with all necessary certifications and calibrations to give right results every time.

The process is carefully documented to ascertain consistent and high-quality batches of each product lot. At Krystal, we use the best available testing facilities for conducting Physical, Electrical, Mechanical & other kinds of tests that are required to assure superior quality products.



NDE Automatic Ultrasonic Test (UT)	6.00 mm OD to 355 mm OD-Rota & Probe Type Automatic water Immersion Ultrasonic Testing Machine.
NDE Manual Ultrasonic Test (UT)	15.88 mm OD to 323 mm OD upto 15 mm Thickness
NDE	OD ECT (Encircling Coil)
NDE	ID ECT (Robin Probe)
Hydrostatic Test	3.175 mm OD to 355 mm OD
Pneumatic Test (Air Under Water)	6 mm OD to 50.8 mm OD upto max 500 PSI
Spectroscope	Spectromax
Possitive Material Identification (PMI)	Niton + 1
Ultrasonic thickness Gauges	Upto 15 mm (Digital)
ID Boroscope	10mm ID to 32mm
Dimensional Checking.	Digital Vernier Caliper, Flat & Ball Micrometer etc. Mitutoyo make
Micro Structure Analysis & Grain Examination	Polishing Machine Electro Etching Machine Inverted Metallurgical Microscope with Optics & CCD Camera
Hardness Test	Twin Hardness Tester, RAB-SAROJ make
Tensile Flange / Flare / Flattening / Reverse Flattening Bend Test Corrosion	UTE 40-FIE Make with (Extensio Meter)
Testing	Laboratory Glassware to test IGC Pr. A & E according to all ASTM & EN Specs like ASTM A 262 & EN ISO 3651/2
Surface Roughness Tester	Mitutoyo



NOMINAL WALL THICKNESS SCHEDULE

Nominal Pipe Size		Outside Diameter (mm)	Nominal Wall Thickness Schedule																
NPS	DN	OD	SCH 5s	SCH 10s	SCH 10	SCH 20	SCH 30	SCH 40s	SCH STD	SCH 40	SCH 60	SCH 80s	SCH XS	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160	SCH XXS
1/8	6	10.3		1.24				1.73	1.73	1.73		2.41	2.41	2.41					
1/4	8	13.7		1.65				2.24	2.24	2.24		3.02	3.02	3.02					
3/8	10	17.1		1.65				2.31	2.31	2.31		3.20	3.20	3.20					
1/2	15	21.3	1.65	2.11				2.77	2.77	2.77		3.73	3.73	3.73				4.78	7.47
3/4	20	26.7	1.65	2.11				2.87	2.87	2.87		3.91	3.91	3.91				5.56	7.82
1	25	33.4	1.65	2.77				3.38	3.38	3.38		4.55	4.55	4.55				6.35	9.09
1 1/4	32	42.2	1.65	2.77				3.56	3.56	3.56		4.85	4.85	4.85				6.35	9.70
1 1/2	40	48.3	1.65	2.77				3.68	3.68	3.68		5.08	5.08	5.08				7.14	10.15
2	50	60.3	1.65	2.77				3.91	3.91	3.91		5.54	5.54	5.54				8.74	11.07
2 1/2	65	73	2.11	3.05				5.16	5.16	5.16		7.01	7.01	7.01				9.53	14.02
3	80	88.9	2.11	3.05				5.49	5.49	5.49		7.62	7.62	7.62				11.13	15.24
3 1/2	90	101.6	2.11	3.05				5.74	5.74	5.74		8.08	8.08	8.08					
4	100	114.3	2.11	3.05				6.02	6.02	6.02		8.56	8.56	8.56		11.13		13.49	17.12
5	125	141.3	2.77	3.40				6.55	6.55	6.55		9.53	9.53	9.53		12.70		15.88	19.05
6	150	168.3	2.77	3.40				7.11	7.11	7.11		10.97	10.97	10.97		14.27		18.26	21.95
8	200	219.1	2.77	3.76		6.35	7.04	8.18	8.18	8.18	10.31	12.70	12.70	12.70	15.09	18.26	20.62	23.01	22.23
10	250	273.1	3.40	4.19		6.35	7.80	9.27	9.27	9.27	12.70	12.70	12.70	15.09	18.26	21.44	25.40	28.58	25.40
12	300	323.9	3.96	4.57		6.35	8.38	9.53	9.53	10.31	14.27	12.70	12.70	17.48	21.44	25.40	28.58	33.32	25.40
14	350	355.6	3.96	4.78	6.35	7.92	9.53		9.53	11.13	15.09		12.70	19.05	23.83	27.79	31.75	35.71	

HEAT EXCHANGER TUBE-PRINCIPAL BWG SIZES

Outside Diameter			Birmingham Wire Gauge (BWG)								
			20 (0.889mm)	18 (1.245mm)	16 (1.651mm)	15 (1.829mm)	14 (2.108mm)	13 (2.413mm)	12 (2.769mm)	11 (3.048mm)	10 (3.403mm)
in	mm	Weight, kg/m (average wall)									
¼	0.250	6.350	0.12	0.16	0.19	-	-	-	-	-	-
⅝	0.313	7.950	0.15	0.21	0.25	0.28	-	-	-	-	-
⅜	0.375	9.525	0.19	0.25	0.31	0.34	0.39	-	-	-	-
½	0.500	12.700	0.25	0.34	0.45	0.49	0.55	0.61	0.68	0.72	-
⅝	0.625	15.875	0.33	0.45	0.58	0.64	0.71	0.80	0.89	0.97	-
¾	0.750	19.050	0.40	0.55	0.72	0.77	0.88	0.98	1.12	1.20	1.31
⅞	0.875	22.225	0.46	0.64	0.83	0.92	1.04	1.18	1.32	1.44	1.58
1	1.000	25.400	0.54	0.74	0.97	1.06	1.21	1.37	1.55	1.68	1.92
1 ⅛	1.125	28.575	0.61	0.83	1.10	1.21	1.37	1.56	1.76	1.92	2.11
1 ¼	1.250	31.750	0.68	0.94	1.23	1.35	1.53	1.76	1.96	2.16	2.40
1 ⅜	1.375	34.925	0.74	1.03	1.35	1.49	1.70	1.93	2.19	2.40	2.65
1 ½	1.500	38.100	0.82	1.13	1.49	1.64	1.87	2.17	2.40	2.63	2.92
1 ¾	1.750	44.450	0.97	1.32	1.74	1.92	2.20	2.50	2.84	3.10	3.44
2	2.000	50.800	-	1.52	1.99	2.20	2.53	2.89	3.27	3.59	3.97
2 ¼	2.250	57.150	-	1.73	2.26	2.48	2.87	3.26	3.70	4.06	4.51
2 ⅜	2.375	60.325	-	1.81	2.38	2.63	3.02	3.44	3.93	4.30	4.78
2 ½	2.500	63.500	-	1.91	2.52	2.78	3.18	3.66	4.14	4.54	5.04
2 ⅞	2.875	73.025	-	2.20	2.90	3.20	3.68	4.20	4.79	5.25	5.83
3	3.000	76.200	-	2.31	3.04	3.35	3.85	4.39	5.00	5.49	6.10
3 ½	3.500	88.900	-	2.69	3.56	3.93	4.51	5.15	5.86	6.44	7.17
4	4.000	101.60	-	-	4.11	4.54	5.21	5.95	6.80	7.47	8.30

CHEMICAL COMPOSITION

GRADE	UNS No.	EN No.	C	Cr.	Ni	Mo	Other
Austenitic & Super Austenitic Stainless Steel							
304	S30400	1.4301	0.08	18.00 - 20.00	8.00 - 12.00	-	-
304 L	S30403	1.4307	0.035	18.00 - 20.00	8.00 - 12.00	-	-
310 S	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	-
316 L	S31603	1.4404	0.035	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	-
316 H	S31609	-	0.04-0.10	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	-
316 TI	S31635	1.4571	0.08	16.00 - 18.00	10.00 - 14.00	2.00 - 3.00	Ti:5x (C+N) - 0.7
317 L	S31703	1.4438	0.035	18.00 - 20.00	11.00 - 15.00	-	-
321	S32100	1.4541	0.08	17.00 - 19.00	9.00 - 12.00	-	Ti:5x (C+N) - 0.7
347	S34700	1.4550	0.08	16.00 - 18.00	10.00 - 14.00	-	-
347 H	S34709	1.4551	0.04-0.10	17.00 - 20.00	9.00 - 13.00	3.00 - 4.00	-
904 L	S8904	1.4539	0.02	19.00 - 23.00	23.00 - 28.00	4.00 - 5.00	-

Ferritic Stainless Steel							
405	S40500	-	0.08	11.50 - 14.50	0.5	-	-
409	S40900	-	0.08	10.50 - 11.70	0.5	-	-
410	S41000	-	0.15	11.50 - 13.50	-	-	-

Duplex & Super Duplex Stainless Steel							
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	6.00 - 8.00	3.00 - 4.50	N : 0.24 - 0.32
Alloy 32760	32760	1.4501	0.05	24.00 - 26.00	6.00 - 8.00	3.00 - 4.00	N : 0.20 - 0.30

Nickel Alloys							
Alloy 20	8020	2.4460	0.07	19.00-21.00	32.00-38.00	2.00-3.00	Cu : 3.00 - 4.00
Alloy 28	8028	1.4563	0.03	26.00-28.00	30.00-34.00	3.00-4.00	Cu : 0.60 - 1.40
Monel 400	4400	2.4360	0.30	-	63.00 Min	-	Cu : 28.00 - 34.00
Inconel 600	6600	2.4816	0.15	14.00-17.00	72.00 Min	-	Fe : 6.00 - 10.00
Inconel 625	6625	2.4865	0.10	20.00-23.00	58.00 Min	8.00 10.00	Fe: 5.00 Max Nb+Ta: 3.15-4.15
Inconel 800	8800	-	0.10	19.00-23.00	30.00-35.00	2.50-3.50	Fe : 39.50 Max
Inconel 825	8825	2.4858	0.05	19.50-23.50	38.00-46.00	-	Fe : 22.00 Min
Hastalloy C-276	N 10276	-	0.01	14.50-16.50	-	15.00-17.00	Fe: 5.00 Max Nb+Ta: 3.15-4.15

ASTM	American Society for Testing of Materials
DIN	Deutsches Institute for Normung
GOST	Gosudarstvenil Standart

ASME	American Society for Mechanical Engineers
JIS	Japan Industrial Standards
TEMA	Tubular Exchanger Manufacturers Association

SAE	Society of Automotive Engineers
UNS	Unified Numbering System
PED	Pressure Equipment Directive

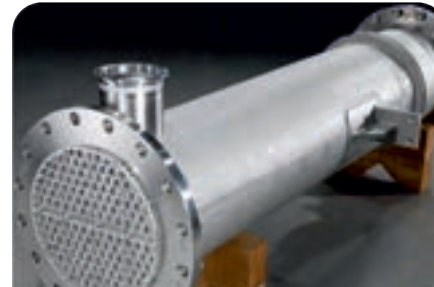
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