



KRYSTAL

Global Engineering Ltd.

"Quality First Customer Always"

KRYSTAL Global Engineering Limited is one of the leading Manufacture of High Performance ***Stainless Steels, Duplex, Super Duplex, Nickel Alloy and Exotic Grade Material Tubes, Pipes & U-tubes*** in India.

Krystal is able to produce some of the most complex grades and handles other critical production related issues faced in steel industry with utmost expertise. Backed with a long and vast manufacturing experience of 14 Years.



We Manufacture & Supplier of ***Heat Exchanger Tube, Instrumentation Tube, Hydraulic Tube, Feed water Heater Tubes, Boiler Tubes, capillary tubes, Process Pipes*** in surface finish of Bright annealed (CFA), Solution Annealed Pickled (CFD) & Passivated & Polished Tube.

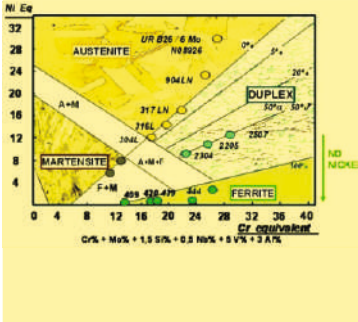
KRYSTAL TODAY

- ✦ Envisioned by the Team of Dynamic Entrepreneurs with the Support of over 210 dedicated & efficient people, striving smartly for 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 Manufacture.
- ✦ NORSOK Approved Mill, Vd TÜV 418 Certified Duplex Tubes & Pipes, Vd TÜV 421 Certified 904L / 1.4539 Tubes & Pipes.
- ✦ Successfully Export & Presence over 42 International Countries.
- ✦ We are specialized with Exotic Alloys like UNS No 8800, UNS No 8028, UNS No 8825, UNS No 31254, Monel 400, UNS No 6600, UNS No 6625, EN 1.4306, EN 1.4835, EN 1.4435, EN 1.4335 & Many more on short delivery basis with proven track records for more assurance for all our clients across the Globe.
- ✦ All KRYSTAL Products are well Approved & Used by the End Users like ADNOC, Shell, Exxon Mobil, Petrobras, PetroJet, Reliance, KOC, Oman Refinery, ONGC, IOCL, BOCL, BASF, Bayer, Covestro, Technimont, Stalolil, ENI, Cepsa, Repsol, GE, Total, FACT, Indian Railway, HOCL, HAL, ISRO & Many More.
- ✦ Continuous Improvement Program (CIP) & Kaizen Training on Regular basis.
- ✦ Product R&D led by well Qualified Metallurgist & QC Team.
- ✦ Our In – House Testing Facility includes:- Automatic Ultrasonic test (UT), Manual Ultrasonic Test (UT), Eddy Current Test (ECT) , Pneumatic Test (Air Under Water), Hydrostatic test, In house Lab to carry out all mechanical test.
- ✦ U Bend Expertise for OD – 9.53 mm, Radius – Min 1.25 D for OD ≥ 19.05 mm.
- ✦ Best suitable Tubes with Inside Surface Finish Ra < 0.4 Microns for Pharma, Dairy & Food applications.
- ✦ We understand & value our CSR being a Corporate Citizen & hence we keep ourselves positively engaged for the welfare of Employees & Society by means of Blood Donation, Plantation, Water Purification, Child Education etc.

**WOW! KRYSTAL My
Progressive Partner**

Product Profile @ Krystal

PRODUCT METALLURGY & GRADES



Austenitic Stainless Steel	:	TP 304/304L, EN 1.4031/1.4307, EN 1.4306, TP 304H, TP 310S, EN 1.4845, TP 316/316L, EN 1.4401/1.4404, TP 316Ti, EN 1.4571, TP 317/L, EN 1.4438, TP 321/321H, EN 1.4541, TP 347/H, EN 1.4550/1.4551, TP 904L, EN 1.4539, UNS 31254 TP 405, TP 409, TP 410
Ferritic Steel	:	TP 405, TP 409, TP 410
Duplex Stainless Steel	:	UNS 31803/32205 (EN 1.4462), UNS 32750 (EN 1.4410) : UNS 32760 (EN 1.4501), UNS 31500
Nickel Alloys	:	UNS N08020, UNS N08028, UNS N04400, UNS N06600, : UNS N06625, UNS N08800, UNS N08825
Special Grades	:	EN 1.4835, EN 1.4435, EN 1.4335, UNS No. S31050, 316L UG

We Also Manufacture Products As Per ASME, EN, JIS(Japan), BS, NFA(AF-NOR), GOST & Other Equivalent Standards

STAINLESS STEEL SEAMLESS TUBES



Specification	:	ASTM A 213 / A 269 / A 312 / A 789 / A 790 ASME SA 213 / SA 312 / SA 789 / SA 790 SB 163 / SB 165 / SB 423 / SB 444 / SB 729 / SB 829 EN 10216-5 / EN 10297-2 / DIN 2391
OD	:	3.175 mm to 323.90 mm
N.B	:	1/8" - 12"
Thickness	:	0.5 mm to 15 mm
Length	:	Up to 30 Meters (Depending Upon Size)
Surface Finish	:	Bright Annealed (CFA), Solution Annealed (CFD), Polished (APP)

Heat Exchanger Tubing, Instrumentation Tubing, Hydraulic Tubing, Feed Water Heater Tubes, Boiler Tubes & Process Pipes

STAINLESS STEEL SEAMLESS U-TUBES



Specification	:	ASME & ASTM A 213 / A 688 & TEMA RCB - 2.3.1/ DIN 28179
OD	:	9.53 mm to 50.88 mm
Thickness	:	0.5 mm to 3.68 mm
Leg Length	:	Up to 14 Meters Leg Length (Depending Upon Size)
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 Annealed (CFA), Solution Annealed (CFD), Polished (APP)

COIL FORMED TUBES



Specification	:	ASME / ASTM A 213 / A 269
OD	:	3.175 mm to 19.05 mm
Thickness	:	0.5 mm to 1.65 mm
Length	:	Up to 300 Meters in Coil Form (Depending Upon Size)
Coil Dia	:	Up to 1 Meter
Process Features	:	Bright Annealed / Annealed Pickled Polished
Surface Finish	:	Bright Annealed (CFA), Solution Annealed (CFD), Polished (APP)

Production @ Glance

Product Metallurgy	Austenitic, Super Austenitic, Ferritic, Duplex Super Duplex, Nickel Alloys & Special Alloys
Product Type	Stainless Steel Seamless Tubes, Pipes, U Tubes & Coil 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 Mtrs.
	Tubes and Pipes with Superior Corrossion Resistance upto 12 MPY in Acc. to ASTM A262-IGC pr. B & C, EN ISO 3651/2 Method A,B,C
	Detection of Transverse & Longitudinal Imperfection in Accordance to EN 10246 - 2,4,6,7&13 as per ASTM E 213 & E 426
	ID Electropolished (Ra-upto 0.4 μm) & OD - Mechanical Polished up to 800 Grits.
	In House Testing Facility-Water leak (Hydro) Test, Air Under Water(Pneumatic) Test, Eddy Current Testing, Ultrasonic Testing, IGC Pr. A & E to Assure & Certify the Right Product Quality Inline with our Motto of <i>"Quality First Customer Always"</i>





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Quality & Testing @ Glance

NDE - Automatic Ultrasonic Test (UT)	6.00 mm OD to 355 mm OD - Off line Rota Type Automatic water Immersion Ultrasonic Testing Machine
NDE - Rota & Scanner Type Water Immersion	15.88 mm OD to 323 mm OD Up to 15 mm Thickness
NDE - Eddy Current Test (ECT)	Up to 76.2 mm OD
Pneumatic test (Air Under Water)	6 mm OD to 50.8 mm OD Upto Max 500 PSI
Hydrostatic Test	3.175 mm OD to 219 mm OD
Ultrasonic Thickness Guages	Up to 15 mm (Digital)
Spectroscope	Spectromax
Positive Material Identification (PMI)	Niton
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 Extenso Meter)
Hardness Test	Twin Hardness Tester, RAB-SAROJ make
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



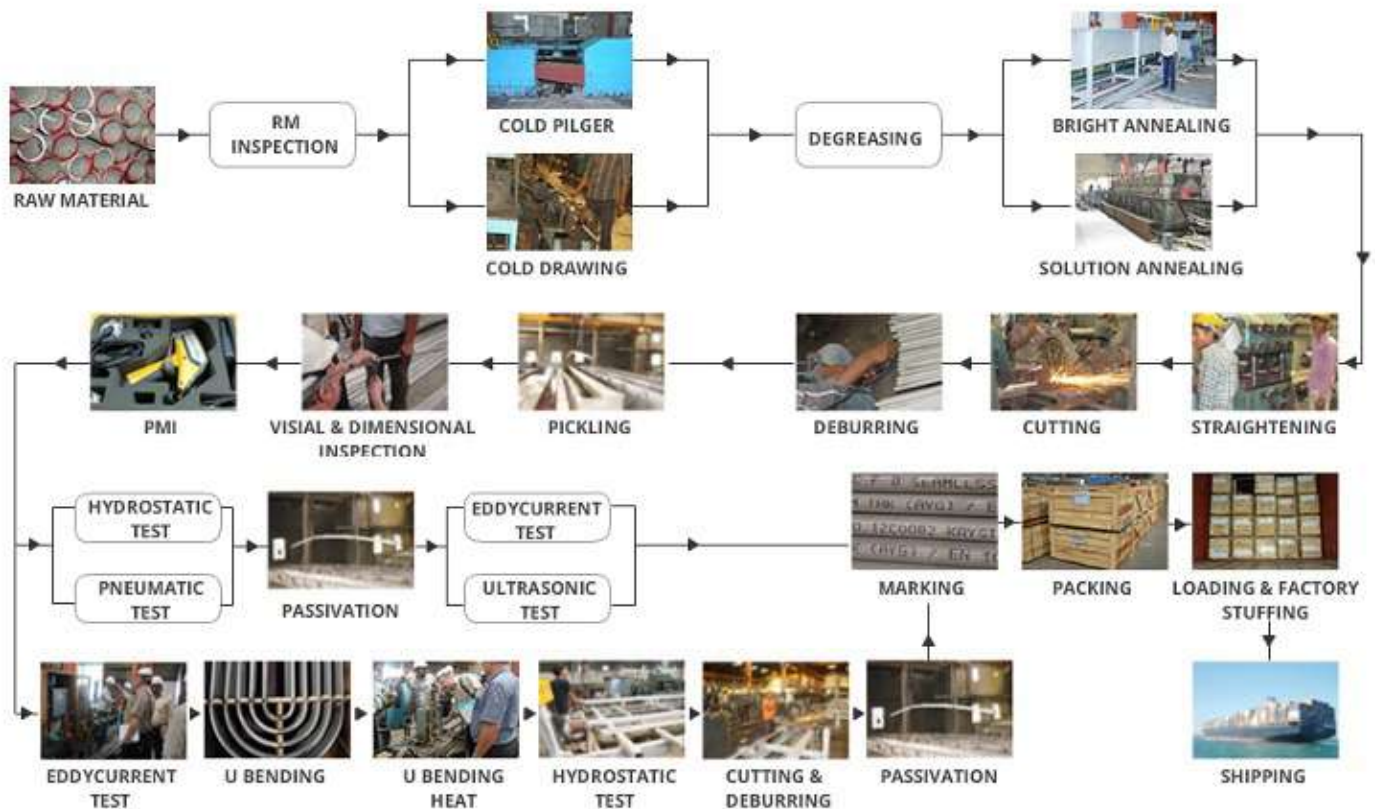


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Seamless Production Process



Certification

- ❖ ISO 9001 : 2015 - TÜV Nord, Germany
- ❖ ISO 14001 : 2015
- ❖ ISO 45001 : 2018
- ❖ PED (Pressure Equipment Directive - 2014/68/EU) - TÜV Nord, Germany
- ❖ AD 2000 – Merkblatt W0 - TÜV Nord, Germany
- ❖ NORSOK M-650 - TÜV Nord, India





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Approvals

				
				
				
				
				
				
				
				<p>& Many More...</p>

Thank You!

Global Presence

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Customers & Partners

- ARGENTINA
- AUSTRIA
- BELGIUM
- BRAZIL
- CHINA
- COLOMBIA
- CZECH REPUBLIC
- DENMARK
- EGYPT
- FRANCE
- GERMANY
- GREECE
- HUNGARY
- INDIA
- ITALY
- KUWAIT
- MEXICO
- NETHERLANDS
- OMAN
- POLAND
- PORTUGAL
- QATAR
- ROMANIA
- SAUDI AREBIA
- SOUTH AFRICA
- SPAIN
- SWITZERLAND
- UAE
- UK
- USA



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