

**ICON STEEL**  
TRADING LLC

Your One Stop Solution For High Nickel Alloy Engineering



## About Us

Founded in 2016, **ICON STEEL TRADING LLC** has rapidly emerged as a trailblazer in international markets, distinguished by its unwavering commitment to total quality and unparalleled flexibility.

Our journey to success is rooted in years of profound experience within the steel industry, coupled with a keen understanding of our customers' evolving needs. **ICON STEEL TRADING LLC** stands out through exclusive technology, certified products, stringent quality standards, and an unwavering dedication to exceptional customer service, positioning us as a true global performer and a trusted partner for our clientele.

What sets us apart is our ability to deliver any size, any grade, and any quality at a competitive price across various forms: pipes, tubes, plates, flanges, fittings, fasteners, valves, bars, and customized forgings. This exemplifies our exceptional flexibility. Our commitment to meeting customer delivery needs and adhering to complex technical specifications underscores our unwavering dedication to total quality.

At the heart of our success is an unrivaled product portfolio, strategically headquartered in Mumbai, enabling us to foster enduring relationships with our clients. Our primary goal is to facilitate smooth deliveries, providing not just reassurance but peace of mind.

As part of our continuous improvement initiative, **ICON STEEL TRADING LLC** consistently strives to maintain a market-leading position through ongoing research, strategic investments, and a culture of innovation.

Drawing upon extensive engineering experience, our mission is not just to meet our clients' needs but to exceed their expectations, delighting them with unparalleled product and service quality.

### **Our Commitment : We are committed to :**

Offering a comprehensive range of high-quality products and services across various fields. Executing all aspects of our work with the highest level of professionalism and excellence. Providing exceptional workmanship.

### **Our Vision**

To be the benchmark of the Indian Stainless Steel Pipe Industry, delivering superior value products through innovation and operational excellence.

### **Our Mission**

Aligned with the vision and values of our founders, we aim to fortify India's industrial base by leveraging cutting-edge technology, ensuring high productivity, and adhering to modern management practices. Recognizing honesty and integrity as essential pillars of a robust enterprise, we understand that profitability ignites the engine of economic activity.



**Product Gallery**



BW Fittings



Forged Fittings



Valves



Flanges



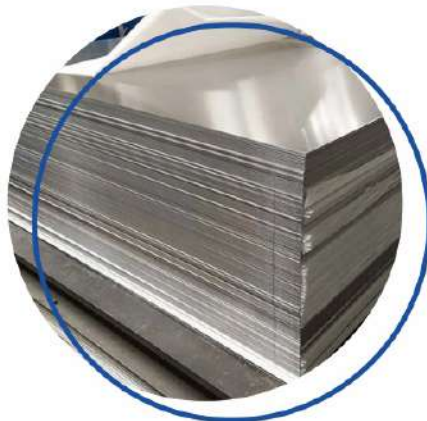
Instrumentation Fitting



Fasteners



Pipes & Tubes



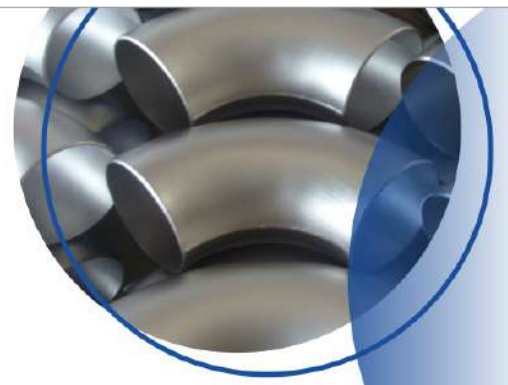
Sheet Plate



Round Bar



**ICON STEEL**  
TRADING LLC



**Buttweld Fittings**

**Manufacturing Range**

**TYPES**

- 90° ELBOW (1D/1.5D/3D/5D)
- 45° ELBOW
- 180° LR RETURN
- 180° SR RETURN
- EQUAL TEE
- REDUCING TEE
- CONCENTRIC REDUCER
- ECCENTRIC REDUCER
- END CAP
- LONG / SHORT STUB END
- LONG RADIUS PIGGABLE BEND
- AS PER DRAWING

**MATERIALS**

**STAINLESS STEEL :** ASTM A403 WP 304/ 304L/ 304H/316/ 316L/ 317/ 317L/ 321/ 310/ 347/904L.

**CARBON STEEL :** ASTM A234 WPB/A420 WPL3/A420 WPL6/ MSS-SP-75 WPHY 42/46/52 /56/60/65/70.

**ALLOY STEEL :** ASTM A234 WP1/ WP5/ WP9/ WP11/ WP22/ WP91.

**DUPLEX & SUPER DUPLEX :** UNS-S 31803 / 32760, UNS-32750.

**NICKEL ALLOYS :** 201/200.

**MONEL ALLOY :** 400/K-500.

**INCONEL :** 600, 601, 625, 825, 800 /800H /800HT.

**HASTELLOY :** C22, C276, B-2000.

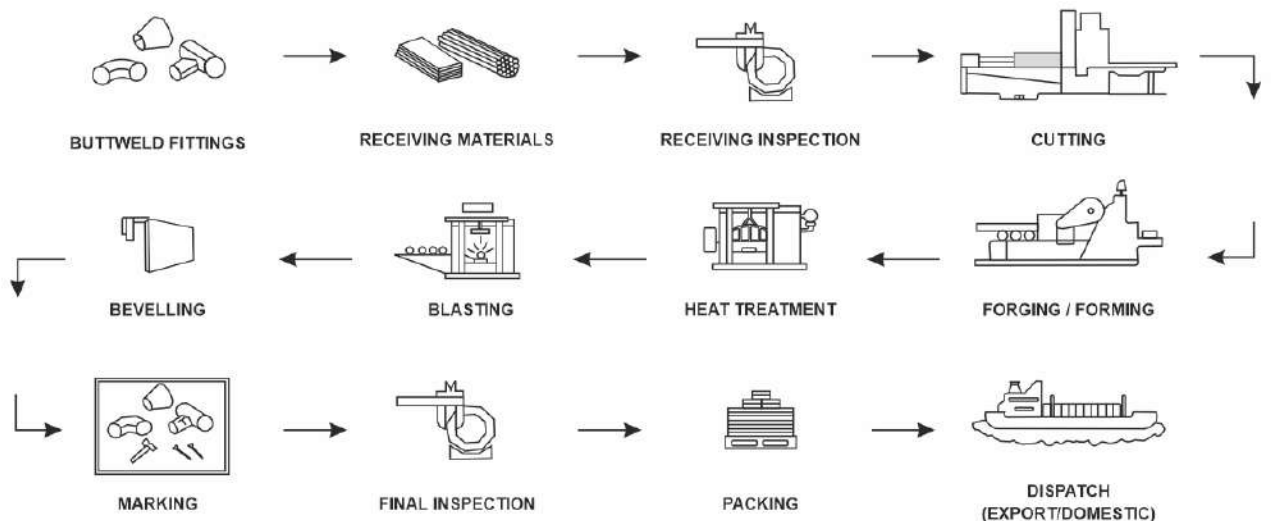
**TITANIUM :** GR. 1, 2, 5, 7.

**OTHERS :** TANTALUM, SMO 254, ALLOY 20 / 330, ALUMINIUM.

**SIZE RANGE**

- **SIZE :** 1/4" NB TO 24" NB (SEAMLESS) & UPTO 48" NB (WELDED)
- **WALL THICKNESS :** SCH. 5S TO SCH. XXS.

**MANUFACTURING PROCESS**





## Forged Fittings

### Manufacturing Range

#### TYPES

- 90° ELBOW
- 45° ELBOW
- EQUAL TEE
- REDUCING TEE
- FULL COUPLING
- HALF COUPLING
- CROSS
- WELDING BOSS
- UNION
- REDUCING INSERT
- CAP
- PLUG
- BUSHING
- HEX / PIPE NIPPLE
- SWAGE NIPPLE
- SOCKOLET
- WELDOLET
- THREDOLET
- LATROLET
- AS PER DRAWING

#### MATERIALS

**STAINLESS STEEL :** ASTM A182 F304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/310/ 347/ 904L.

**CARBON STEEL :** ASTM A105 / 105N A694 F42/46/52/56/60/65/ 70/ A 350 LF2 CLASS 1/2.

**ALLOY STEEL :** ASTM A182 F1/ F5/ F9/ F11/ F22/ F91 ETC.

**DUPLEX & SUPER DUPLEX :** UNS-S 31803 / 32760, UNS-32750.

**NICKEL ALLOYS :** 201/200.

**MONEL ALLOY :** 400/K-500.

**INCONEL :** 600, 601, 625, 825, 800 / 800H / 800HT.

**HASTELLOY :** C22, C276, B-2000.

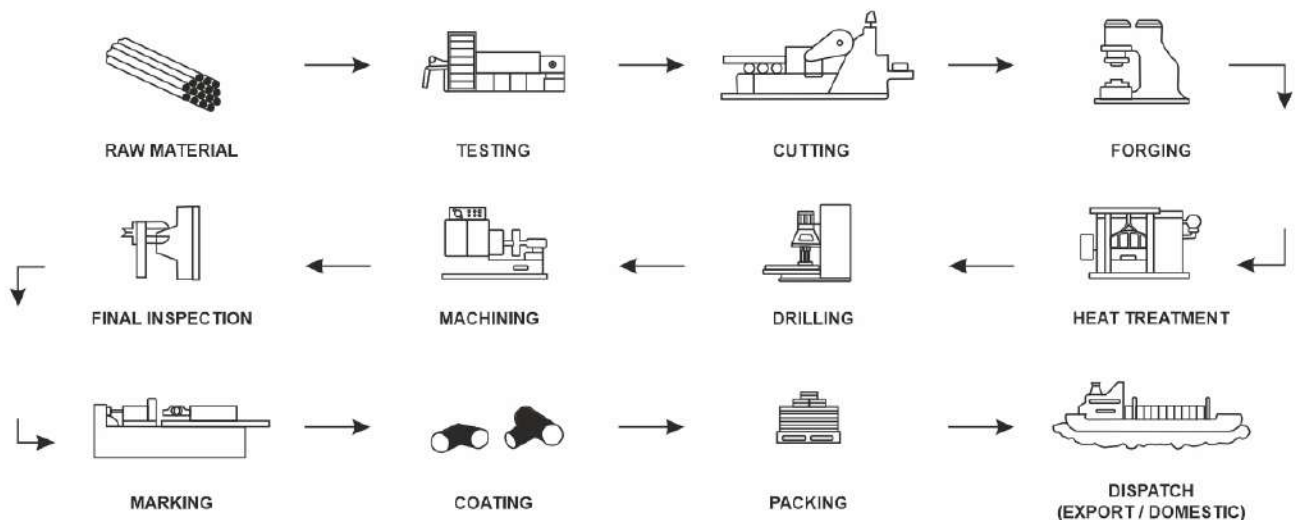
**TITANIUM :** GR. 1, 2, 5, 7.

**OTHERS :** TANTALUM, SMO 254, ALLOY 20 / 330.

#### SIZE RANGE

- SIZE : 1/4" NB TO 4" NB (THREADED & SOCKETWELD)
- CLASS : 2000#, 3000#, 6000#, 9000#.

#### MANUFACTURING PROCESS





## Flanges

### Manufacturing Range

#### TYPES

- WELDNECK
- SLIPON
- BLIND
- THREADED
- SOCKET WELD
- LAPPED JOINT
- LONG WELD NECK
- PLATE FLANGE
- WELDNECK SERIES A
- WELDNECK SERIES B
- BLIND SERIES A
- BLIND SERIES A
- SPECTACLES BLIND
- PADDLE BLANK & SPACER
- ORIFICE
- AS PER DRAWING

#### MATERIALS

**STAINLESS STEEL :** ASTM A182 F304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 347/ 904L.

**CARBON STEEL :** ASTM A105/105N

A694 F42/46/52/56/60/65/70 A350 LF2 CLASS 1/2.

**ALLOY STEEL :** ASTM A182 F1/ F5/ F9/ F11/ F22/ F91.

**DUPLEX & SUPER DUPLEX :** UNS-S 31803 / 32760, UNS-32750.

**NICKEL ALLOYS :** 201/200.

**MONEL ALLOY :** 400/K-500.

**INCONEL :** 600, 601, 625, 825, 800 /800H /800HT.

**HASTELLOY :** C22, C276, B-2000.

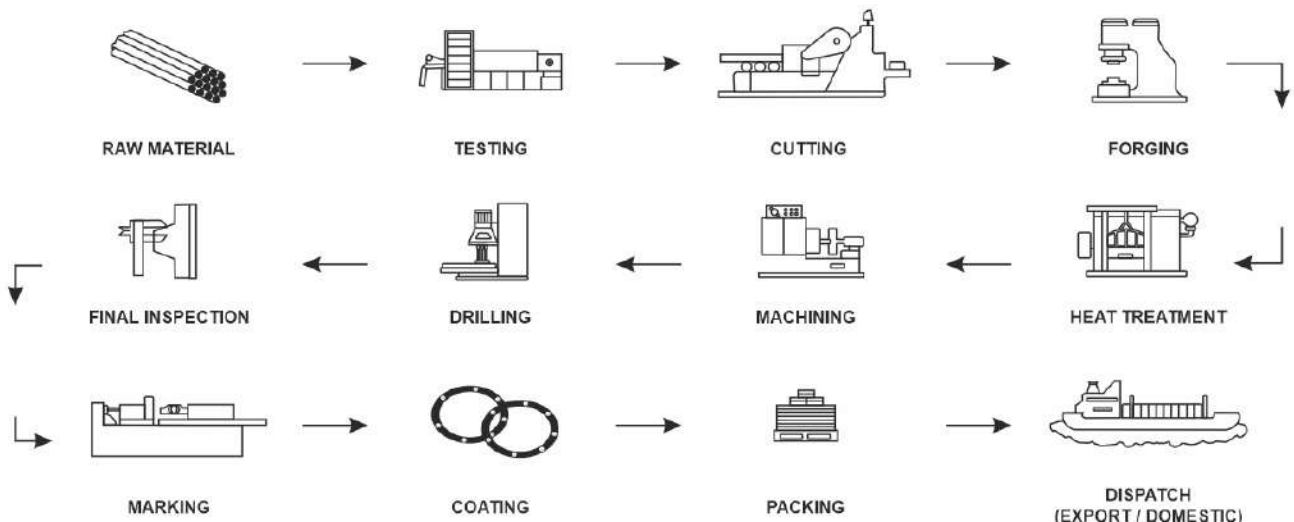
**TITANIUM :** GR. 1, 2, 5, 7.

**OTHERS :** TANTALUM, SMO 254, ALLOY 20 / 330, ALUMINIUM.

#### SIZE RANGE

- **SIZE :** 1/4" NB TO 24" NB (ABOVE AS PER CUSTOMER REQUIREMENT)
- **CLASS :** 150#, 300#, 600#, 900#, 1500#, 2500#.

#### MANUFACTURING PROCESS





## Fasteners

### Manufacturing Range

We hold expertise in offering fasteners, such as nuts, bolts, washers, anchor fasteners, stud bolts, Threaded Rod to clients. These material available in grade, such as Stainless Steel, Carbon Steel, Duplex Steel, Monel, Inconel, Hastelloy, Titanium and Nickel Alloy, Wich Alloy Steel assure their high tensile strength and corrosion resistance. Our range finds applications in numerous industries and is offered in sizes ranging from M4 TO M100, length up to 5 meters as per the client's requirements.

**Duplex & Super Duplex** : 347, 310, 303, 304/304H, 316/316L, 317/317L, 17/4PH, 410, 431, Nitronic 50, Nitronic 60, Nitronic 80A

**Carbon Steel** : 4.6, 8.8, 10.9, 12.9.

**Duplex & Super Duplex** : UNS S31803, UNS S32750, UNS S32760, UNS S3250, 254 SMO

**Hastelloy Alloy** : Hastelloy C4, Hastelloy B2, Hastelloy G30, Hastelloy B3, Hastelloy C276, Hastelloy X, Hastelloy C22

**Incoloy Alloys** : Incoloy Alloy 20, Incoloy Alloy 800, Incoloy Alloy 800H/800HT, Incoloy Alloy 825, Incoloy Alloy 925, Incoloy Alloy A286

**Monel Alloys** : Monel 400, Monel R405, Monel K500.

### Types

- ANCHOR FASTENERS
- HEX HEAD BOLTS
- SOCKET CAPS SCREW
- HEX NUTS
- EYE BOLTS
- WASHERS
- STUB BOLTS
- THREADED RODS
- COUNTERSUNK BOLTS
- FLAT / SPRING / LOCK WASHERS
- FOUNDATION BOLTS
- REFRACTORY ANCHOR



Inconel®, Incoloy®, Monel®, Hastelloy®, Duplex® are Registered Trade Marks of their Respective Owners.



● **S S Instrumental / Ferrule Fittings** ●

**Manufacturing Range**



Union Elbow



Male Elbow



Female Elbow



Union Tee



Male Run Tee



Male Branch Tee



Female Run Tee



Female Branch Tee



Union Cross



45 Deg. Elbow



Tube end Closure



Bulk Head Elbow



Positionable Male Elbow



Nut Ferrule



Union



Reducing Union



Bulkhead Union



Male Connector



Female Connector



Male Adaptor

**Syphon Tubes**



Type : Stainless Steel 304 & 316 Gr. in U type, Trumpet Type (Pigtail & Coil Type)  
 Application : Connected between the pressure gauge & process in applications where high temperature above 65 Deg C for e.g., steam. These Syphon Tubes acts as a cooling coil and protects the gauge from high temperature vapors.

**S. S. Tee / Elbow Ferrule Fittings**

- S.S. Union Tee
- S.S. Male Branch Tee
- S.S. Female Branch Tee
- S.S. Male Elbow
- S.S. Cross
- S.S. Valve Body
- S.S. Union

**S. S. Forged Tee / Elbow / Cross**



MANIFOLD VALVE



CONDENSATE POT



S.S. FORGED BLIND HEX TEE



S.S. FORGED BLIND HEX ELBOW



S.S. ELBOW 45°



S.S. CROSS





**Valves**

- Material** : Stainless Steel / Duplex / Super Duplex / Nickel Alloy / Carbon Steel / Alloy Steel
- Standard** : ASTM / ASME / ANSI / AISI / DIN
- Grade** : WCB, WC1, WC6, WC9, LCB, LCC, LC3, C5, C12, CF8, CF8M, CF3, CF3M, CF8C, CN7M, CD4MCu, A105, 304, 316, Hastelloy, Inconel, Monel, Duplex, Super Duplex
- Types** : Gate Valve, Ball Valve, Globe Valve, Butterfly Valve, Check Valve, Cryogenic Valve, Non Return Valve, Needle Valve, Plug Valves, Control Valves, Dia-pharma Valve, Pinch Valve, Safety Valve, Isolation Valve, Stainer
- Size** : 1/2" to 60"
- Class** : 150#, 300#, 600#, 800#, 900#, 1500# & 2500#.





## Pipes & Tubes

### Pipes

#### Stainless Steel & Duplex Steel Pipe

Size	: ½" to 30"
Schedule	: Sch. 5 to Sch. XXS
Stainless Steel	: ASTM A312, A358 - TP 304/304H/304L/316/316H/ 316L/316Ti/309/310/317/317L/321/347/904L
Duplex Steel	: ASTM A790 - UNS S31803, S32750, S32760, S32205

#### Alloy Steel, Carbon Steel & LTCS Pipe

Size	: 1/2" to 36"
Schedule	: Sch. 5 to Sch. XXS
Alloy Steel Pipe	: ASTM A335 Gr. P5, P9, P11, P12, P22 & P91
Carbon Steel	: ASTM A 106 Gr. B ASTM A53
Low Temp. Pipe	: ASTM A 333 Gr. 6
Line Pipe	: API 5L, X 42, 46, 52, 56, 60, 70
Mild Steel &	: IS 1239, IS 3589
Galvanized Pipe	

#### Copper & Nickel Alloys pipe

Size	: ½" NB to 10" NB
Standard	: 10S/40S/80S
Copper Nickel	: C70600 (90:10), C71500 (70:30), C71640
Nickel	: UNS N02200, N02201
Monel	: UNS N04400, N05500, Alloy 20
Inconel	: UNS N06600, N06601, N06625, N08800, N08810, N08825
Hastelloy	: UNS N10276, N06022, N10665, N06455

Inconel®, Incoloy®, Monel®, Hastelloy®, Duplex® are Registered Trade Marks of their Respective Owners.

### Tubes

Size	: 6 mm OD to 355.60 mm OD
Thickness	: 0.6mm-10mm-Gauge : 22 SWG/BWG to 10 SWG/BWG
Form	: Round, Square, Rectangle, Coil, 'U' Shap
Length	: Standard Length & Cut Length
Stainless Steel Tube	: ASTM A-213, A-249, A269-TP 304/304H/304L, 316/316H/316L/316Ti, TP 309, 310, 317L, 321, 347, 904 L etc.
Low Alloy Steel Tube	: ASTM A 213 - T-11, T-12, T-22, T-5, T-9 etc.
Titanium	: Gr. 1, 2, 5, 7
Carbon Steel Tube	: BS 3059 Gr. 360 / 440, SA 179, SA / ASTM A210 Gr. A1
Copper Nickel Tube	: ASTM B111, C70600 (90.10), C71500 (70:30), C71640
Admiralty Brass Tube	: ASTM B 111 C44300, C44400, C44500, C68700
Copper & Brass Tube	: ASTM B 188 C11000, C12200, C26000, C27000, C28000
Nickel Alloy Tube	: Nickel, Monel, Inconel, Alloy 20 etc.
Specialize	: Capillary Tube, IBR Tubes, Copper Nickel Tube

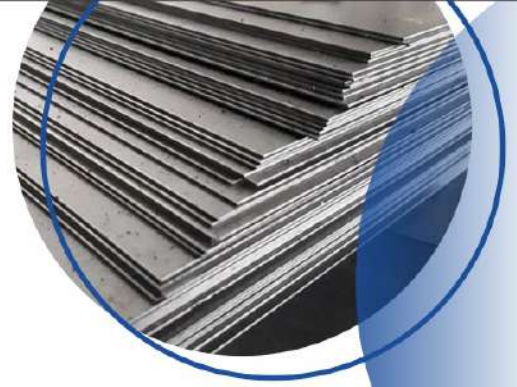
**Types**    Round | Rectangle | Square | Hydraulic





# ICON STEEL

TRADING LLC



## • Sheets, Plates & Coils •

### Stainless Steel & Duplex Steel

Stainless Steel : ASTM A240 304/304L/316/316L/316Ti/  
309/310/317/317L/321/347/409/410/  
430/904L/SMO 254 / AL6XN

Duplex & Super Duplex : Standard  
ASTM A240 - UNS S31803/S32205 (2205)  
Lean  
ASTM A240 - UNS S32304 (2304)  
Super Duplex  
ASTM A240 - UNS S32750 (2507)  
ASTM A240 - UNS S32760 (Zeron 100)

### Quenched & Tempered

ASTM A537 CL.1 & 2

### Boiler Quality

SA 516 Gr. 70

### Hardox

Hardox 400 / 500

### Hi-Nickel & Titanium

#### Hi-Nickel

Nickel : ASTM B162 N02200, N02201  
Inconel : ASTM B 168 N06600, N06601, N06617  
ASTM B 670 N07718  
ASTM B 443 N06625  
Incoloy : ASTM B 409 N08800, N08810  
ASTM B 424 N08825  
ASTM B 462 N08020  
Hastelloy : ASTM B 575 N10276, N06022  
ASTM B 333 N10665

#### Titanium

Commercially : ASTM B 265  
Pure Gr.1 R 56250 (CP4) Gr.2 R 50400 (CP3)  
Gr.3 R 50550 (CP2) Gr.4 R 50700 (CP1)  
Gr.7 R 52400 Gr.11 R 52250  
Alloys : ASTM B 265  
Gr.5 R 56400 (6Al-4V)  
Gr.23 R 56401 (6Al-4V-ELI), Gr.12 R 53400

### Alloy Steel, Carbon Steel / Mild Steel

Alloy Steel Pipe : ASTM A387 Gr. 11, 12, 22, 5, 91 (CL 1/2)  
Carbon Steel : ASTM A 36  
S275 JR  
IS 2062 Gr. A/B

### Aluminium

ASTM B 928  
5083 (A95083), 5086 (A95086),  
5052 (A95052) T6061 (A96061)

### Spring Steel Coils

CR C55, C80, C62, C45

### Cupro Nickel

ASTM B171 C70600 (90:10), C71500 (70:30)

### Monel

ASTM B127 N04400, DIN N05500



### Size

**Sheets** : 0.8mm to 4mm thk. in 1000 upto 2000 mm Width  
& 2000 upto 6000 Length  
**Plates** : 5mm to 100 mm thk. In 1000 upto 2000 mm Width  
& 2000 upto 8000 Length  
**Coils** : 0.1 mm thk. to 12mm thk. in 10mm upto 1500 Width  
**Foils** : 0.01 mm thk. to 0.3 mm thk. in any width  
**Strips** : 1mm thk. to 100 mm thk. in 10 mm upto 900 mm Width  
& 1000 upto 6000 Length

### Finish

HR No.1, 2B, BA, Matt, Matt+1 side PVC, BA + 1side PVC,  
Chequered

**Specializing in:**  
Stainless Steel Series, Hardox 400/500

Inconel®, Incoloy®, Monel®, Hastelloy®, Duplex®  
are Registered Trade Marks of their Respective Owners.



● **Round Bar, Hex, Square** ●

**Welding Filler Wire**

**Size :**

- Bright Bars : from 5mm Dia upto 400mm Dia
- Black Bars : from 16mm Dia upto 450mm Dia
- Square Bars : from 5mm Dia upto 150mm Dia
- Hex Bars : from 5mm Dia upto 150mm Dia
- Wires : 0.1mm Dia to 5mm Dia

**Welding Filler Wire :**

- Nickel Alloys : 201/200
- Monel Alloy : 400/K-500
- Inconel : 600, 601, 625, 825, 800 / 800H/ 800HT
- Hastalloy : C22, C276, B-2000
- Titanium : Gr. 1, 2, 5, 7, Tantalum SMO 254, Alloy - 904L, Alloy 20, Alloy 330, etc.
- Types : Elbow, Tee, Reducer, Cap, Return Bends, Stub-Ends, Collar, Cross, Insert etc.
- Size : 1/4" NB to 4" NB.
- Class : 3000#, 6000#, 9000#.

**Specification :**

- Condition : Rolled, Forged, Annealed, Picked, Hot Rolled, Cold Roll

**Grades :**

- Stainless Steel : 304/304, 316/316L/316Ti, 321, 310/310S, 317/317L, 347, 17-4 Ph. 15-5Ph, 904L, 410, 420, 430, 431, 430F, 416, 440C etc.
- Copper, Brass, Aluminium, Hastalloy, Titanium, Monel, Inconel, Nickel, etc.
- Duplex Steel : UNS 31803, UNS 32205, UNS 32760
- Alloy Steel : F5, F9, F11, F22, F91
- Carbon Steel, Mild Steel, Boiler Quality Plates
- Specification : ASTM, AISI, ASME, DIN, UNS etc.





## Gaskets

We are a prime Manufacturer, Exporter, and Supplier of All types of GASKET as per ANSI and DIN standard & All International Standards. These gaskets are available in Full face as well as Raised face flanges. We ensure best quality and dimensional stability of our ready cut gaskets.

### Metallics Gaskets

Ring Type Joint (RTJ)  
Spiral Wound  
Petromec (RTJ Rubber Coated)  
Double Jackete Gaskets,

Manifold Gaskets,  
Camprofile Gaskets,  
Serrated & Corrugated Gaskets,

Plate Heat Exchanger Gaskets,  
Manhole Gaskets,  
Valve & Bonnet Gaskets,

Size Range : 1/2" to 144"  
Pressure Range : 150# to 2500#

### Non-Metallic Gaskets :

Rubber Gaskets  
EPDM Gaskets  
Neoprene® Gaskets  
Silicone Gaskets  
Viton® Gaskets  
Nitrile (Buna-N) Gaskets  
SBR (Red Rubber) Gaskets Butyl  
Rubber Gaskets Natural (Gum)  
Rubber Gaskets Polyurethane Gaskets  
Food Grade (FDA) Gaskets

DIE CUT GASKETS  
Cork & Cork Rubber Gaskets  
Compressed Asbestos &  
Non-Asbestos Gaskets  
EMI RFI Shielding Gaskets  
Electrical Insulators  
High Temperature Gaskets  
Fiber Gaskets  
Felt Gaskets  
Foam Gaskets

Kapton® Gaskets  
PTFE (Teflon®) Gaskets  
Silicone Sponge Gaskets  
Closed/Open Cell Sponge Gaskets  
Flexible Graphite Gaskets  
Custom Non-Metallic Washers  
Plastic Gaskets  
Flange Gaskets

All gaskets are Available in  
VITON / SILICON / NEOPRENE/NITRILE/ EPDM/ PTFE (TEFLON)  
Silicon Sponge Cord, Silicon Sponge Strip, Silicon Sponge Tube, Silicon Tube  
Available in COLOR: RED / WHITE / BLACK

### PLATE HEAT EXCHANGER GASKETS

Model: Alfa Laval, Sondex, APV, Armstrong, GEA, Hisaka, Pasillac, Reheat, Swep, Tranter, Vicarb  
Material: Nitrile, EPDM, Neoprene, Butyl, and more. Style: Glue, Stud, Clip & Snap-in





## ● Structural Steel ●

We can offer you wide variety of structural steel for your regular needs for maintenance, construction as well as development of new projects. with tie ups with majority of manufactures we can offer steel from prime manufacturers like AMNS / SAIL / VIZAG / JINDAL / TISCO as well as from secondary rolling & re rolling manufacturers. we offer following product in our range of structural steel: mild steel structural.

### SS / MS Angles

Grade:- IS 2062

Product Range:- The following are the sizes available.

25 x 25 x 3/5, 35 x 35 x 5, 40 x 40 x 5/6, 45 x 45 x 4/5/6,  
50 x 50 x 5/6, 60 x 60 x 6/8, 65 x 65 x 6/8/10, 75 x 75 x 6/8/10,  
80 x 80 x 6/8, 90 x 90 x 6/8/10, 100 x 100 x 6/8/10/12,  
110 x 110 x 8/10/12, 130 x 130 x 10/12, 150 x 150 x 10/12,  
150 x 150 x 16/20 200 x 200 x 16/20

All the above mentioned sizes are in mm.

### SS / MS Beam

Light, Medium, Standard

Grade:- IS 2062

Product Range:- The following are the sizes available.

100 x 50, 125 x 70, 150 x 75, 175 x 85, 200 x 100, 250 x 125,  
300 x 140, 350 x 140, 400 x 150, 450 x 150, 500 x 180, 600 x 210.

All the above mentioned sizes are in mm

### TMT Bars

We have a wide range of TMT Re Bars which are available in various types & from Various Primary & Secondary Manufacturers.

Above Material can be offered in Grades Like FE 415 / FE 500

With Manufacturing Test certificate.

### SS / MS Channel

Grade : - IS 2062

Product Range:- The following are the sizes available.

75 x 40, 100 x 50, 125 x 75, 150 x 75, 175 x 75, 200 x 75,  
250 x 80, 300 x 90, 350 x 100, 400 x 100.

All the above mentioned sizes are in mm

### SS / MS Rounds Bars

Product Name:- Wire Rods

Grade:- Low Carbon - 5WR-14 / IS:2062 Gr. A

Product Range :- Diameters available (unit mm),  
5mm to 250mm

All the above mentioned sizes are in mm

These are available in straight lengths (as mutually agreed).

### SS / MS Flats

Available in size : 21 x 6 mm to 300 x 16 mm

### SS / MS Square Bars

Available in size : 10 x 10 mm to 63 x 63 mm





## Quality Assurance



### VISUAL & DIMENSION INSPECTION

Inspection is carried out to detect any Dents, Surface Defect or Scratch on the surface tube. The Dimensional Inspection is carried out with calibrated measuring instruments for product dimensions are within tolerance requirements.

### PMI TEST

Oxford Instruments make X-MET 5000 XRF analyser for PMI and Quality Control / Assurance



### ULTRASONIC TEST

A high speed "Rotating Transducer" ultrasonic tube testing system operates in pulse-echo mode. Water immersion coupling is used for adequate and positive coupling of sound energy. A multi channel ultrasonic processing is used for detection and recording of volumetric defect in tubes in longitudinal and transverse direction.

### Quality Control

We take utmost care in terms of dimensions and mechanical properties of our product to be supplied. Our each product checked by following quality procedures :

- Material Control System
- Process Control System
- Machining and Dimensional Control Certification and Supplementary Test

### Quality Assurance

Our quality assurance process runs on the principles of self management, open communication with all experienced personalities with great creativity support from our team. These principles are :

- We strive to be the best in our industry.
- We care about our customers.
- We do our absolute best to honor our commitments.
- We strive to always act with integrity and fairness.

### Our Excellence

We can keep high quality standards through our dedicated personnel and infrastructure. We guarantee that best quality content is used for our goods. To be sure the quality of every substance, We're supplying Materials Test Certificate together with provide. Our team of experts maintain a vigil on the quality of the goods. Each and every piece is connected with test reports and certificates, we're always improving our quality to serve our customers better.



**Packaging**

**PACKAGING & MATERIAL HANDLING**







## Extra Services

### THE FOLLOWING EXTRA SERVICES ARE AVAILABLE ON REQUEST

#### Extra Services

##### Standard Packing

In bundles with protective foil wrapping in wooden crates / cases. For smaller tubes on shelf fittings in carton boxes

##### Cutting to lengths

Cutting from 3.00 mm O.D. up to 406 mm. high volume tube cutting.

##### Polishing

We polish over a range of sizes from 6.00 mm O.D. up to 406 mm O.D. although sizes bigger than 168 mm are hand polished, not mechanical. Polishing standards are grit 180, 240, 320, 400 and mirror

On the inside we polish from 6.00 mm up to 168 mm. Other facilities are honing and electro polishing, which we can supply till 0.2  $\mu$ m smoothness.

#### Cleaning

For normal degrease standard and also for the much higher standard of "Oxygen clean" treatment, where air, gas, powder or other substances of high purity require non-contaminated surface finish. Reannealing from 6.00 mm upto 323 mm. Special cleaning will be applied by customers request!

#### Extra testing

All chemical and mechanical testing. Hardness according to : Rockwell, Brinell, Vickers and NACE MR 01-75. X-ray, Magnetic Permeability and ultrasonic testing. Witnessing by independent authorities as Lloyds Register of shipping, Det Norske Veritas, TUV, Bureau Veritas, ABS, Germanischer Lloyd and EIL or any other certifying authority.

### FORMULA OF CALCULATING WEIGHT

#### WEIGHT OF STAINLESS STEEL / CARBON STEEL PIPES & TUBES

OD (mm) - W.T. (mm) X W.T. (mm) X 0.02466 = KG. / MTR.

#### WEIGHT OF STAINLESS STEEL SHEETS

Length (mm) x Width (mm) x Thk. (mm) x 0.000008 = KG. / SHEET

#### WEIGHT OF CARBON STEEL SHEETS

Length (mm) x Width (mm) x Thk. (mm) x 0.000008 = KG. / SHEET

#### WEIGHT OF STAINLESS STEEL CIRCLE & BLANKS

O.D. (mm) x O.D. (mm) x Thk. (mm) x 0.0000063 = KG./PCS.

#### WEIGHT OF STAINLESS STEEL ROUNDS

Dia. (mm) x Dia. (mm) x 0.00623 = KG. / MTR.

#### WEIGHT OF STAINLESS STEEL HEXAGONAL RODS

Dia.(mm) x Dia. (mm) x 0.00679 = KG. / MTR.

#### WEIGHT OF STAINLESS STEEL SQUARE RODS

Dia. (mm) x Dia. (mm) x 0.00787 = KG. / MTR.

#### WEIGHT OF COPPER PIPES

O.D. (mm) - W.T. (mm) x W.T. (mm) x 0.0285 = KG. / MTR.

#### WEIGHT OF ALUMINUM PIPES

O.D. (mm) - W.T. (mm) x W.T. (mm) x 0.0282 = KG. / MTR.

#### WEIGHT OF ALUMINUM SHEETS

Length (mtr.) x Width (mtr.) x Thk. (mm) x 2.66 = KG. / SHEET

#### WEIGHT OF LEAD SHEETS

Length (mtr.) x Width (mtr.) x Thk. (mm) x 11.2 = KG. / MTR.

#### SHEET WIDTH REQD. FOR ROLLED & WELDED PIPES

O.D. (mm) - Thk. (mm) x 3.14 = SHEET WIDTH (mm)

#### WEIGHT FOR SQUARE / RECTANGLE PIPES

Length from 4 Angle (OD) / 3.14 - Thk. (mm) x Thk. (mm) x 0.00756 = KG. / PER FEET

#### WEIGHT FOR CONVERSION OF MTR. TO FEET

Weight of 1 Mtr.  $\div$  3.2808 = Feet

#### FORMULA FOR HEALTHY BUSINESS

Honesty + Quality of Goods + Quick Service  
+ Reasonable rate = Good Health of Business

## CHEMICAL & MECHANICAL PROPERTIES

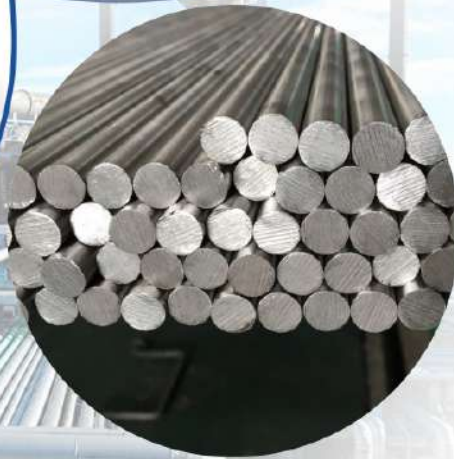
Chemical Composition											Mechanical Properties				
Steel Type	ASTM Grade	C % Max	Mn%	P % Max	S % Max	Si %	Cr %	Mo %	Ni %	Others	R. min Tensile Strength MPa	S. min Yield Strength MPa	A% min. (2"/4D) Elongation		Impact Test KCV (2) J
													Long	Transv.	
A234	WPB(1)	0.3	0.29-1.06	0.05	0.058	0.10 min	0.4	0.15	0.4	Cu=0.4 V=0.08 Cb=0.02	415-585	240	30	20	-
	WPC(1)	0.35	0.29-1.06	0.05	0.058	0.10 min	0.4	0.15	0.4	Cu=0.4 V=0.08 Cb=0.02	485-655	275	30	20	-
A420	WPL6(1)	0.3	0.6-1.35	0.035	0.04	0.15-0.30	0.3	0.12	0.4	Cu=0.4 V=0.08 Cb=0.02	415-585	240	30	16.5	16.5
	WPL3	0.2	0.31-0.64	0.05	0.05	0.13-0.37	-	-	3.2-3.8	-	450-620	240	30	20	20
	WP1	0.28	0.31-0.9	0.045	0.045	0.10-0.50	-	0.44-0.65	-	-	380-550	205	30	20	-
	WP12CL1	0.05-0.2	0.3-0.8	0.045	0.045	0.6	0.8-1.25	0.44-0.65	-	-	415-585	220	30	20	-
	WP12CL2	-	-	-	-	-	-	-	-	-	485-655	275	30	20	-
A234	WP11CL1	0.5-0.15	0.3-0.6	0.3	0.3	0.5-10	1.0-1.5	0.44-0.65	-	-	415-585	205	30	20	-
	WP11CL2	0.5-0.2	0.3-0.8	0.4	0.4	0.5-10	1.0-1.5	0.44-0.65	-	-	485-655	275	30	20	-
	WP11CL3	-	-	-	-	-	-	-	-	-	520-690	310	30	20	-
	WP22CL1	0.5-0.15	0.3-0.6	0.04	0.04	0.5	1.9-2.6	0.87-1.13	-	-	415-585	205	30	20	-
	WP22CL3	-	-	-	-	-	-	-	-	-	520-690	310	30	20	-
	WP5	0.15	0.3-0.6	0.04	0.03	0.5	4.0-6.0	0.44-0.65	-	-	415-585	205	30	20	-
	WP9	0.15	0.3-0.6	0.03	0.03	0.25-10	8.0-10.0	0.9-1.10	-	-	415-585	205	30	20	-
WP91	0.08-0.12	0.3-0.6	0.02	0.01	0.2-0.5	8.0-9.5	0.85-1.05	0.4	V=0.18-0.25 Cb=0.06-0.10 N=0.03-0.07 Al=0.04	585-760	415	20	-	-	
A403	WP304	0.08	2	0.045	0.03	1	18-20	-	8.0-11.0	-	515	205	28	20	-
	WP304L	0.035	2	0.045	0.03	1	18-20	-	8.0-13.0	-	485	170	28	20	-
	WP304H	0.04-0.10	2	0.045	0.03	1	18-20	-	8.0-11.0	-	515	205	28	20	-
	WP316	0.08	2	0.045	0.03	1	18-20	2.0-3.0	11.0-14.0	-	515	205	28	20	-
	WP316L	0.035	2	0.045	0.03	1	18-20	2.0-3.0	10.0-16.0	-	485	170	28	20	-
	WP321	0.08	2	0.045	0.03	1	17.0-20.0	-	9.0-13.0	Ti=5xC max 0.70%	515	205	28	20	-
	WP321H	0.04-0.10	2	0.045	0.03	1	17.0-20.0	-	9.0-13.0	Ti=4xC max 0.60%	515	205	28	20	-
	WP347	0.08	2	0.045	0.03	1	17.0-20.0	-	9.0-13.0	Cb+Ta>=8x%C max 0.10%	515	205	28	20	-
	WP347H	0.04-0.10	2	0.045	0.03	1	17.0-20.0	-	9.0-13.0	Cb+Ta>=8x%C max 0.10%	515	205	28	20	-
	WPS 31254	0.2	1	0.03	0.01	0.8	19.5-20.5	6.0-6.5	17.5-18.5	N=0.18-0.22 Cu=0.5-1.0	515	205	28	20	-
	S 31803	0.03	2	0.03	0.02	1	21.0-23.0	2.5-3.5	4.5-6.5	N=0.08-0.2	620	450	25	-	-
	WP410	0.15	1	0.04	0.03	1	11.5-13.5	-	0.5	-	485-655	205	20	-	-
WPNIC10	0.06-0.10	1.5		0.015	1	19.0-23.0	-	30.0-35.0	Cu=0.75 Al=0.15-0.60 Ti=0.15-0.60 Fe=39.5 min Al+Ti=0.85-1.20	450	170	30			
WPNIC11	0.06-0.10	1.5		0.015	1	19.0-23.0	-	30.0-35.0		450	170	30			



**Industries We Serve**



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- Desalination
- Petrochemical
- Refinery Plant
- Paper & Pulp
- Mineral & Mining Processing
- LNG
- Shipbuilding
- Steel & Power
- Nuclear
- Pharmaceutical
- Cement Plant
- Subsea
- Sugar Industries
- Engineering



**Stockist And Dealers In :**

Stainless Steel Bright Bars, Hexagon, Square,  
Wire Rods In Grade - 202, 4% Nickel, 303, 304,  
304L, 316, 316L, All Raw Industrial Material etc.

**IST**  
**ICON STEEL**  
TRADING LLC

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