



(AN ISO 9001:2015, 14001:2004, 18001:2007 Certified Co.)

# MAX STEEL & ALLOYS

(AN ISO 9001:2015, 14001:2004, 18001:2007 Certified Co.)

Quality Supplier ! Better Quality ! Better Life



**Specialist of :**

Nickel Alloys & Super Duplex

**Manufacturers & Exporter of :**

- L. R. Bends
- Pipe Fittings
- Fabricated & Machining Products





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## Company Profile

**Metal Steel & Alloys** is market leader in the steel industry since 1 decade, specialized in stocking and trading of Nickel Alloys, Stainless Steel, Carbon Steel, Alloy Steel Raw Material, Non-Ferrous Metals and industrial raw materials for various sectors and discerning customers in India & abroad.

As markets today demand better performance, more reliability & higher quality. We have expanded to new areas on the map globally, offering a larger range of products & services than even before.

**Metal Steel & Alloys** is a professionally managed organization having extensive experience in the field of manufacturing of Fabricated Pipes, Pipe Fittings, Flanges as well as an unparalleled sourcing network for varied steel products.

As a testimony to our relentless efforts in satisfying the client's need, we have been retained by various clients across industries like Refineries & Petrochemicals, Oil & Gas, Offshore, Chemical & Fertilizers, Cement, Engineering, Construction, Sugar, Nuclear & Thermal, Paper & Pulp etc.

We hope this Catalogue presented in a convenient and easily understandable format will help or serve as a valuable reference material which will make buying decision much easier.



## Quality Policy

To strive for **customer satisfaction** by service and technological Integration.

All departments are fully automated for **complete chain management** to offer best product quality & prompt service to customers.

All our products passes through best of **quality systems** for material control, process control, testing, finishing etc.

To maintain a competent work force through training and continual improvement of **Quality and Safety Management Skills**.

To **manage operations** and optimize profits.

Create a **sense of responsibility** amongst all members of the organization

To Train, **Motivate and Encourage** Employees in achieving Company's Goals.

Continually improve our Quality Management System to ensure its **continuing suitability** to enable us to stay ahead of competition.

Chemical, Abrasion, Temperature, Resistance Technology by New Research of **Wonderful Superior** by the Present Mankind to Future Generation.





## FLANGES

**Stainless Steel** : ASTM A182 F304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 316/ 317/ 904L etc.

**Carbon Steel** : ASTM A105/ A694 F42/ 46/ 52/ 56/ 60/ 65/ 70/ A350 LF2/ A350LF3, etc.

**Alloy Steel** : ASTM A182 F1/ F5/ F9/ F11/ F22/ F91 etc.

**Others** : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead etc.

**Types** : Weldneck, Slipon, Bind, Socket Weld, Lap Joint, Spectacles, Ring Joint, Oriface, Long Weldneck, Deck Flange, etc.

**Size** :  $\frac{1}{2}$ " NB TO 24" NB.

**Class** : 150#, 300#, 400#, 600#, 900#, 1500# & 2500#.

## BUTTWELD FITTINGS

**Stainless Steel** : ASTM A403 WP 304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 316/ 317/ 904L etc.

**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 etc.

**Duplex & Super Duplex Steel** : UNS S31803, UNS S32750, UNS S32760, 904L, Alloy 20

**Others** : Monel, Nickel, Inconel, Hastalloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead, etc.

**Types** : Elbow, Tee, Reducer, Return Bends, Stub-Ends, Cap, Collar, Cross, Insert etc.

**Size** : 1/4" NB TO 32" NB. (Seamless & Welded)

**Wall Thickness** : Sch. 5S To Sch. XXS.



## SOCKET-WELD FITTINGS

**Stainless Steel** : ASTM A182 F304/ 304L/ 304H/ 316/ 316L/ 317/ 317L/ 321/ 310/ 316/ 317/ 904L etc.

**Carbon Steel** : ASTM A105 / A694 F42/46/ 52/56/ 60/ 65/70 / A350 LF3/ A350 LF2.

**Alloy Steel** : ASTM A182 F1/ F5/ F9/ F11/ F22/ F91 etc.

**Others** : Monel, Nickel, Inconel, Hastelloy, Copper, Brass, Bronze, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead, etc.

**Types** : Elbow, Tee, Union, Cross, Coupling, Cap, Bushing, Plug, Swage Nipple, Welding Boss, Hexagon Nipple, Barrel Nipple, Welding Nipple, Parraler Nipple, Street Elbow, Hexagon Nut, Hose Nipple, Bend, Adapter, Insert, Weldolet, Elbolet, Sockolet, Thredolet, Nipolet, Letrolet, NPT Fittings,

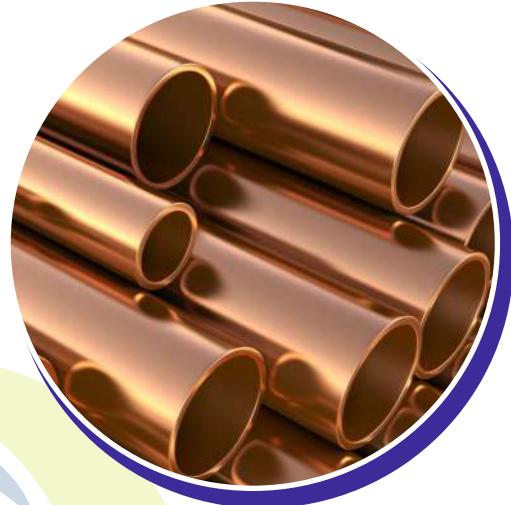
**Size** : 1/4" NB TO 4" NB. (Socketweld & Threaded)

**Class** : 3000#, 6000#, 9000#.



## COPPER PIPES

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



## COPPER FITTINGS



### Cupro Nickel

ASTM B 171 C70600 (90:10), ASTM B 171 C71500 (70:30)

### Size

Pipes : ½" to 30"

Schedule : Sch. 5 to Sch. XXS

### Types

Elbow, Tee, Reducer, Return Bends, Stub-Ends, Cap, Collar, Cross, Insert etc.

## PIPES, SHEETS, PLATES & COILS

**Stainless Steel Coils, Sheets & Plates** as per ASTM A 240 Gr. TP 304, 304L, 304LN, 309, 309S, 309H, 310S, 310H, 316, 316L, 316H, 316LN, 316TI, 317, 317L, 321, 321H, 347, 347H, 348, 348H, 409, 410, 420, 430 etc.

**Alloy Steel Plates** as per ASTM A 387 Gr. 2, 5, 9, 11, 12 & 22 in class 1 & 2, ASTM A 204, Gr. A & B, DIN 17175 Gr. 15Mo3 & 16Mo3 with IBR Test Certificate.

**Carbon Steel / Boiler Quality Plates** as per IS 2062 Gr. A, B & C, IS 2002 Gr. 1 & 2, ASTM A516 Gr. 60 & 70 ASTM A515 Gr. 70.

**High Nickel Alloy** : Monel, Nickel, Inconel, Hastelloy, Copper, Brass, Bronze, Brass, Titanium, Tantalum, Bismuth, Aluminium, High Speed Steel, Zinc, Lead, etc.

**Duplex & Super Duplex Steel** : UNS S31803, UNS S32750, UNS S32760, 904L, Alloy 20

**Types** : Sheet, Plates, Strips, etc.



## FASTENERS & GASKETS

**Stainless Steel** : AISI 302, 304, 304L, 316, 316L, 310, 317, 317L, 321, 347, 410, 420, 904L etc.

**Alloy Steel** : 4.6, 5.6, 6.6, 8.8, 10.9 & 12.9 / 'R', 'S', 'T' Conditions.

**Carbon Steel** : Bare Condition, Galvanized, Phosphated, Cadmium Plated, Hot Deep Galvanized, Bloodied, Nickel Chrome Plated etc.

**Non Ferrous Metal** : Copper, Brass, Aluminium, Titanium, Nichrome, Al. Bronze Phosphorous Bronze, etc.

**Types** : Bolts, Nuts, Washers, Anchor Fasteners, Stud Bolts, Eye Bolt, Stud, Threaded Rod, Cotter Pin, Socket Screw, Fine Fasteners & Spares, Foundation Fasteners, etc.

**Gasket Accessories**: Spiral Wound Metallic, Expanded PTFE sheet Gasket and Joint Sealant, PTFE Envelope Gasket & Solid PTFE Sheet Gasket, Machined Component Gasket, Asbestos & Non-Asbestos Gasket, Flexible Graphite Gasket, Rubber Gasket, Flange Insulation Gasket Kit, Compressed Non-Asbestos Jointing, Graphoil Ring Gasket, Ring Joint Gasket, Metal Jacketed Gasket, Customised Special & Standard Flange and Industrial Cut Gasket from various materials.



## 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, Hastelloy, Inconel, 304L, 316L, 2205, 2507 etc.

**Types** : Gate Valve, Ball Valve, Globe Valve, Butterfly Valve, Check Valve, Cryogenic Valve

**Size** : 1/2" to 60"

**Class** : 150#, 300#, 600#, 800#, 900#, 1500# & 2500#.

## REFRACTORY ANCHORS

### Materials

We can supply refractory anchors and fibre fixing systems to exacting tolerances in a wide range of stainless steel and higher alloys. Standard fixings are available in stainless steel grade (304) and grade (310), and Inconel 601. Other grades of stainless steel, mild steels and alloys are available to suit requirements, including Stainless Steel grades (316).

### Stainless Steel At Elevated Temperatures

Standard Stainless Steels provide corrosion resistance in a number of aggressive situations. They also provide very good oxidation and scaling resistance at elevated temperatures.

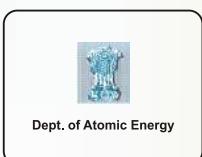




## APPLICATION INDUSTRIES

- OIL & GAS INDUSTRIES
- PHARMA-CEUTICAL
- PETRO-CHEMICAL
- SUGAR INDUSTRIES
- REFINERIES
- PAPER & PULP
- AUTOMOBILE
- ENGINEERING
- SHIP BUILDING
- FURNACE INDUSTRIES
- NUCLEAR POWER
- WATER PIPING SYSTEM

## THIRD PARTY INSPECTION



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