



**MAITRI**

EMPOWERING INNOVATION

[maitrimetal.com](http://maitrimetal.com)



**MAITRI**

EMPOWERING INNOVATION

At THE MAITRI METALS (P) LIMITED, we are a dynamic and versatile company, specializing in the manufacturing, distribution, and stockholding of a wide range of metal products and related materials. With a rich heritage and a commitment to excellence, we have emerged as a leading player in the metal industry, offering a diverse portfolio of high-quality products and services to meet your every need.



## OUR MISSION

The Maitri Metals is a quality based organisation providing excellence through products . We strive to be a global researcher in order to Develop , Design and Deliver technology to the customers.



## OUR VISION

Creating a priceless and matchless position for our services and products. Being able to deliver in this competitive world, efficiently. Continuous development of products.

# The Maitri

## STEEL DIVISION

Stainless Steel Scrap, Billets, Wire Rods, Round, Hexagonal, Square Bars, Sheets & Coils.

## BRIGHT BAR DIVISION

Retail Outlet For Stainless Steel Bright Bar.

## MAITRI ENGGTECH

Stainless Steel/Carbon Steel/Alloy Steel/ Exotic Nickel Alloy Flanges & Fittings.

## PIPE DIVISION

Carbon Steel, Alloy Steel, Stainless Steel, Seamless & Welded, Pipes & Tubes.

## FASTENERS DIVISION

Stainless Steel, High Tensile, Exotic Alloy Fasteners

## ELECTRODES DIVISION

Welding Consumables & Equipment.

## WIRES & CABLES DIVISION

EHV Cables, LV Power Cables, LV Control Cables, Instrumentation Cables, Rubber Cables, Flexible & Building Wire, Fire Survival Cables, Aerial Bunched Cables

## ENERGY DIVISION

Furnace Oil (FO), Carbon Black Feed Stock (CBFS), Light Diesel Oil (LDO) Mixed Hydrocarbon Oil (MHO)

# Group



# Steel Division

## BILLETS

<b>Particulars</b>	: Continuous Cast (CC) Billets
<b>Size Range</b>	: 100mm X 100mm 120mm X 120mm 140mm X 140mm 150mm X 150mm 160mm X 160mm 200mm X 200mm
<b>Supply Condition</b>	: As Cast, Spot Ground, Fully Ground
<b>Grade (AISI)</b>	: 303, 304, 304L, 309S, 310, 310S, 316, 316L, 316Ti, 317L, 321, 410, 420, 430
<b>Length</b>	: Upto 10 Mtrs.
<b>Application</b>	: Rolling, Forging



## WIRE RODS

<b>Particulars</b>	: 5.50 to 32mm
<b>Supply Condition</b>	: Hot Rolled Hot Rolled Pickled Hot Rolled Annealed & Pickled (HRAP)
<b>Grade (AISI)</b>	: 201, 202, 204Cu, 302, 303, 304, 304L, 304LER, 308LER, 309LER, 310, 316, 316L, 316LER, 430L
<b>Size Tolerance</b>	: 5.5 to 10mm - $\pm$ 0.20mm 11 to 16 mm - $\pm$ 0.25mm 17 to 32mm - $\pm$ 0.30mm
<b>Surface defect</b>	: 1% of Diameter
<b>Weight of Coil</b>	: Approx 2000kgs
<b>Packing</b>	: HDPE wrapped coils and strapped with metal strips at 3-4 places. Identification lables are tagged according to standard specification.
<b>Application</b>	: Bright Bars, Fasteners, Chains, Wire Drawing, Threaded Bars, Welding Products, Structural use



## BRIGHT BARS

We offer superior quality Stainless Steel Bright Bars in various finish option.

### Size Range

5 mm-200 mm

### Grades

303, 304, 304L, 316, 316L, 316Ti, 321, 310, 410, 420, 430

### Supply Conditions

- Length-up to 6 meters
- Cold Drawn, Centreless Ground, Peeled & Polished, Rough Peeled or
- Smooth Turned bars
- Tolerances-h8, h9, h10,
- Heat Treatment - Soft Annealing, Solution Annealing
- Tempering & Normalizing
- Bars End Finish - Chamfered ends, 300, 450 & 600 Plain ends without Burrs or Sharp Edges
- Specifications-As per EN, DIN, JIS, ASTM, BS, ASME, GHOST, AISI/Nace MR0175
- 100% identified by Handheld Spectrometer
- Free from Radioactive elements, Mercury & Lead contamination.



## HEXAGONAL BRIGHT BARS

### Size Range

6 mm to 70 mm

### Grades

303, 304, 304L, 316, 316L, 321

### Supply Conditions

- Length-up to 6 Meters
- Tolerances -h11, k12, k13
- Heat Treatment - Cold drawn, Solution Annealed, Oil & Water Quenched /Tempered
- Bars End Finish - Chamfered Ends, Plain ends without Burrs or Sharp Edges
- Specifications - As per EN, DIN, JIS, ASTM, BS, ASME, AISI, etc.
- 100% identified by Handheld Spectrometer
- Free from Radioactive elements, Mercury & Lead contamination.



## SQUARE BRIGHT BARS

### Size Range

6 mm to 70 mm

### Grades

303, 304, 304L, 316, 316L, 321

### Supply Conditions

- Length-up to 6 Meters
- Tolerances-h11, k12, k13
- Heat Treatment Cold drawn, Solution Annealed, Oil & Water Quenched / Tempered
- Bars End Finish - Chamfered Ends, Plain ends without Burrs or Sharp Edges
- Specifications - As per EN, DIN, JIS, ASTM, BS, ASME, AISI, etc.
- 100% identified by Handheld Spectrometer
- Free from Radioactive elements, Mercury & Lead contamination.



Channel Partner



## HRAP FLAT BARS

### Size Range

20mm x 5mm to 100mm x 20mm

### Grades

304, 304L, 316, 316L

### Supply Conditions

- Length - upto 6 meters
- Hot Rolled, Annealed & Pickled (HRAP)
- Tolerance - ASTM A484, EN 10058
- Both ends are color coded as per the customers specific requirement
- Specifications - As per EN, DIN, JIS, ASTM, BS, ASME, AISI, etc.
- Laser printing as per grade & size
- Free from Radioactive elements, Mercury & Lead contamination.



## HRAP EQUAL BRIGHT BARS

### Size Range

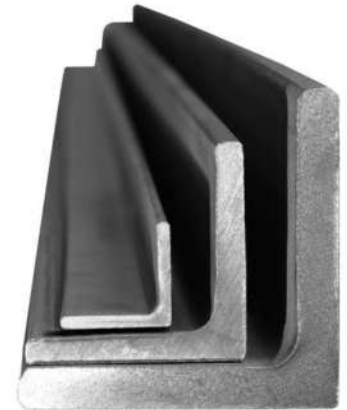
20mm X 20mm X 3mm to 100mm X 100mm X 12mm

### Grades

304, 304L, 316, 316L

### Supply Conditions

- Length-up to 6 Meters
- Tolerance-ASTM A484, EN 10056
- Hot Rolled, Annealed & Pickled (HRAP)
- Grit Polish as per Customer's Request
- Bars End Finish - Chamfered Ends, Plain ends without Burrs or Sharp Edges
- Specifications - As per EN, DIN, JIS, ASTM, BS, ASME, AISI, etc.
- 100% identified by Handheld Spectrometer
- Free from Radioactive elements, Mercury & Lead contamination.



# STAINLESS STEEL SHEETS / COILS / PLATES

## Stocking & Supply of Stainless Steel Sheets / Coils.

With our Integrated fast & efficient global supply chain, we provide customers an alternative, cost competitive & reliable solutions to support their business.

### Types

ASTM A312 / A213, A240, A249, A269, A276, A358

### Grades

200 series (201, 202, JT, J4JSL AUS)

300 series (304, 304L, 310, 316L, 347, 317L, 321)

400 series (409, 409L, 410, 430, 441, 439, 436)

### Nickel Alloys

Duplex steel, Inconel, Nickel

### Size Range

Thickness - 0.30mm to 70mm

### Surface Finish

N01, HR, 2B, 2D, BA, NO 8, NO 4 & Matt

### Width & Length

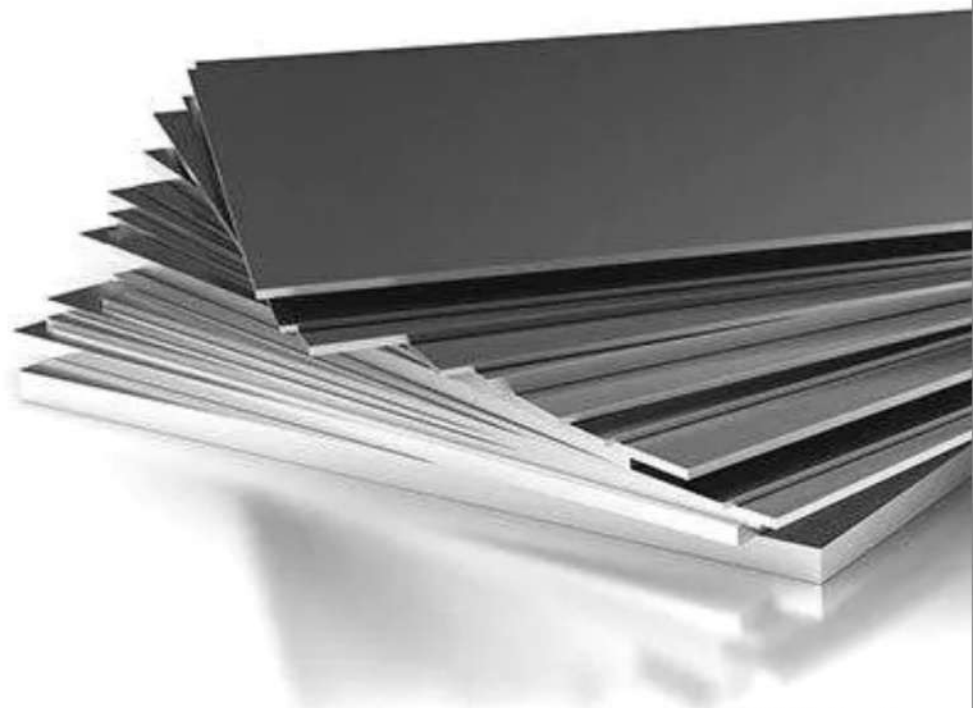
Width-1000mm/1250mm/1500mm/2000mm

Length -1000mm to 12000mm



### Application

- Automobile
- Exhaust
- Pharma
- Kitchen
- Architectural Architecture
- Petrochemical
- Hardware
- Railing
- Refrigeration



Stockist & Dealers of

**JSL**  
JINDAL STAINLESS

# Maitri Enggtech

We are manufacturers of Flanges & Fittings in Stainless Steel / Carbon Steel / Mild Steel & Exotic Nickel Alloys

## FLANGES

### CARBON STEEL

ASTM / SA 105 Gr. F52 / F60 / F65 / F70  
SA-350 / LF-2

### ALLOY STEEL

ASTM / SA 182 Gr. F5 / F9 / F11 / F22 / F91

### DUPLEX STEEL

ASTM / SA 182 F51 / F53 / F55 / F60

### STAINLESS STEEL

ASTM / SA 182 Gr. 304, 304L, 304H, 310S, 310H,  
316, 316Ti, 316H, 316L, 317L, 321, 321H, 347, 347H,  
904L, 446, etc.

### EXOTIC ALLOYS

**INCONEL** : Inconel 600 / Inconel 625 / Inconel 800 /  
Inconel 825 / Inconel 800HT

**MONEL** : Monel 400 / Monel 500

**HASTELLOY** : C276 / C22

**TITANIUM** : Grade 2 / Grade 12

**NICKEL** : Nickel 200 / Nickel 201

**Cupro Nickel, SMO 254, etc.**



## PRODUCT RANGE

Flange Type	Size Range	Pressure Class	Grade
SORF / SWRF / BLRF / THRF / WNRF / LAP-JOINT / RTJ / TONGUE & GROOVE / Orifice as per ASME / DIN / EN/ JIS AWWA / GOSH standards	1/2" to 12"	150, 300, 400, 600, 900, 1500, 2500 LBS	Carbon Steel Alloy Steel Stainless Steel
	14" to 24"	150, 300, 400, 600, 900 LBS	Duplex Steel Exotic Alloys



Channel Partner

**HILTON**  
METAL FORGING LTD

**VIRAJ**  
VIRAJ PROFILES PRIVATE LIMITED



enggtech@maitrimetal.com



## PRODUCT RANGE

### Slip-on-Flanges

The Flange is slipped over the Pipe and then welded both inside and outside to provide sufficient strength and prevent leakage. This Flange is used in preference to weld Necks by many users because of its lower cost accuracy is required when cutting pipe to length.

### Blind Flanges

This is a Flange without a bore and is used to shut off a piping system or vessel opening. Blind Flanges can be supplied with or without Hubs at the manufacturer's option.

### Weld-Neck Flange

This is designed to be joined to Piping system by Butt Welding. It is relatively expensive because of its long neck, but is preferred for High Stress applications. The bore of the Flange matches the bore of Pipe, reducing turbulence and erosion.

### Threaded Flange

This is similar to Slip-On Flange in outline, but the bore is threaded, thus enabling assembly without welding.

### Socket Weld Flange

This is similar to Slip-On Flange in outline, but the bore is counter-bored to accept Pipe. The Flange is attached to the Pipe by a Filler Weld around the Hub of the Flange. Its biggest use in High Pressure System Such as Hydraulic and Stream Lines.

### Lap-Joint Flanges

A lap-joint flange is a two-component assembly, with a stub end that has a lap-joint ring flange placed over it. This type of flange connection is particularly useful for large or hard-to-adjust flanges.

### Tongue & Groove Flanges

Tongue and groove joints also have an advantage in that they are self-aligning and act as a reservoir for the adhesive. Tongue-and-groove facings are standardized in both large tongue and groove flange and small tongue and groove flange

### Orifice Flanges

Orifice Flanges are widely used in conjunction with orifice meters for measuring the volumetric flow rate of liquids and gases through a pipe.



# Fittings

## BUTTWELD FITTINGS

### PRODUCT RANGE

Size	Thickness	Type of Fittings	Dimension Standard	Dimension Standard
1/2" - 16"	SCH 5 to SCH-XXS	90° Elbow, 45° Elbow, Tee, Reducing Tee, Equal & Unequal Cross, Concentric & Eccentric Reducers, Stub Bend & 180° U-Bend	ASTM B16.9	A234, A403 Wp304 / 304L, Wp316 / 316L, Wp321 / Wp347 / WP31803 / WP32205 & other Exotic Materials

## BUTTWELD EQUAL AND UNEQUAL-TEE

Buttweld Tees are perfect for high and low temperature applications and ensure long service life. Tees are suitable for changing the direction of pipe runs or for connecting pipes of varied diameters.



## BUTTWELD ELBOWS 45°-90°-180°(LR-SR)

An elbow is a pipe fitting which is used as a connection point between two lengths of pipes to produce a change in the direction of flow in the pipe, usually at an angle of 90°, 45° or 180°. We offer 180 Deg U Bends and 90-45 Deg Elbows in different radii (1D/1.5D / 3D and more)



## BUTTWELD REDUCERS (CONC. & ECC.)

A steel pipe reducer is one of the most commonly used industrial pipe fitting, which helps to connect two pipes or tubes of different diameters. These are mainly used to adapt different pipe size in a pipeline system. ANSI B16.9 Pipe reducers can mainly be categorized in two types – concentric reducer and eccentric reducer.



## BUTTWELD END-CAPS

Pipe Ends, also known as Pipe Caps, suggest their function through their name: they act as a seal to the end of a pipe. Primary function of End Cap is to waterproof piping networks in addition to resisting moisture, chemicals and weather.



## BUTTWELD STUB-ENDS

Stub ends are fittings used in place of welded flanges where rotating back up flanges are desired. They are mainly used with standard Lap Joint Flanges.



## FORGED FITTINGS

### PRODUCT RANGE

Size	Thickness	Type of Fittings	Dimension Standard	Dimension Standard
1/4" - 4" (SW) Socket Weld Type	3000#-9000#	90° Elbow, 45° Elbow, Tee, Cross, Coupling, Reducer Coupling	ASTM B16.11	A105, A350, LF2, F5, F9, F11, F22, 304 / 304L / 316 / 316L / 321 / 347 / F51, F60, F53/55, other Grade
1/4" - 4" (SCRD) Threaded/ Screwed Type	2000#-6000#	90° Elbow, 45° Elbow, Tee, Cross, Coupling, Reducer Coupling, Plugs, Bushing & Hex, Nipples	ASTM B16.11	A105, A350, LF2, F5, F9, F11, F22, 304 / 304L / 316 / 316L / 321 / 347 / F51, F60, F53/55, other Grade

## FORGED TEE & CROSS

Tee is a forged fitting used for splitting and changing the flow direction of run pipe of 90 degrees. Moreover, these tee fittings do not need any special tubing preparation before application. Forged Cross Tee comes in a category of pipe fittings which is T-shaped having two passages, at 90 degrees to the joining to the central line. These forged Cross Tee fittings capable of withstanding high pressure and temperature and resisting corrosion.



Fittings

## FORGED ELBOW

Forged Socket Weld Elbows to join pipe to fittings and valves or to other sections of pipe, fillet-type seal welds be used. 90 Degree Elbow are fitting devices that are utilized to produce a 90-degree change in the direction of flow of the contents in a pipe whereas 45 Degree Elbow is designed for a shorter range of application of force via a shorter arm length changing direction at 45-degree.



## FORGED COUPLING (FULL-HALF-REDUCING)

These Threaded Coupling (Full & Half) are available in various shapes, sizes, specification & thickness as per the client's requirements. A coupling (or coupler) (used in piping or plumbing) is a very short length of pipe or tube, with a socket at one or both ends that allows two pipes or tubes to be joined, welded (steel), brazed, or soldered (copper, brass, etc.) together.



## FORGED NIPPLES & PLUGS

A pipe nipple is a length of straight pipe with male threads on both ends. They are used to fit straight end hose or pipe. Plugs are easy to install pipe plugs for isolation of piping systems during repair, maintenance, or testing of damaged lines.



# Pipe Division

## CARBON STEEL / SEAMLESS PIPES

**Length : upto 12mtrs (Depending upon sizes)**

**Specification** : ASTM A/ASME SA 53 GR A, ASTM A/ ASME SA 53 GR B, ASTM A/ASME SA 106 GR A, ASTM A/ ASME SA 106 GR B, ASTM A/ASME SA 106 GR C, ASTM A/ASME SA 333 GR 1 & 6, API 5L GR B, X42, X52, X60-PSL1 & PSL2

**Size Range** : 1/2" NB to 24" NB All Schedules



## CARBON STEEL / SEAMLESS TUBES

**Length : upto 30mtrs (Depending upon sizes)**

**Specification** : ASTM A/ASME SA 179, ASTM A/ASME SA 192, ASTM A/ASME SA 210 Gr A1, BS 3059 PART I & PART II, DIN 2391/St 35.4/St 37.4, DIN 2391/St 52

**Size Range** : 3/4" to 3" (19.05 mm to 76.2 mm) OD & Required Wall thickness 38 mm to 150 mm OD & Required Wall thickness. 4 mm to 70 mm OD Wall thickness 0.5 mm to 7.0 mm 50 mm to 140 mm OD Wall thickness 5 mm to 10 mm



## ALLOY STEEL / SEAMLESS PIPES

**Length : upto 12mtrs (Depending upon sizes)**

**Specification** : ASTM A/ ASME SA 335 P5, ASTM A/ ASME SA 335 P9, ASTM A/ ASME SA 335 P11, ASTM A/ ASME SA 335 P22, ASTM A/ ASME SA 335 P91

**Size Range** : 1/2" NB to 24" NB All Schedules



## ALLOY STEEL / SEAMLESS TUBES

**Length : upto 30mtrs (Depending upon sizes)**

**Specification** : ASTM A/ ASME SA 213 T5, ASTM A/ ASME SA 213 T9, ASTM A/ASME SA 213 T11, ASTM A/ ASME SA 213 T22, ASTM A/ ASME SA 213 T91

**Size Range** : 10mm to 127mm OD & Wall thickness (0.4mm to 12.7mm)

Channel Partner

 **JINDAL SAW LTD.**  
TOTAL PIPE SOLUTIONS



## STAINLESS STEEL / SEAMLESS PIPES

**Length : upto 12mtrs (Depending upon sizes)**

**Specification** : ASTM A/ASME SA 312, GR 304, 304H, 304L, 310H, 316, 316L, 316H, 317, 317L, 321, 347, 347H

**Size Range** : 1/2" NB to 12" NB All Schedules



## STAINLESS STEEL / SEAMLESS TUBES

**Length : upto 30mtrs (Depending upon sizes)**

**Specification** : ASTM A/ASME SA 213/269, GR 304, 304H, 304L, 304LN, 310H, 316, 316L, 316H, 317, 317L, 321, 347, 347H.

**Size Range** : 1/4" to 3" (6.35mm to 76.2mm) OD & Required Wall thickness.



## MILD STEEL / WELDED PIPES

**Length : upto 12mtrs (Depending upon sizes)**

**Specification** : IS-1239, IS3589, GR 330/410, API 5L GR B, X42, X52, X60  
ASTM A 671, ASTM A 672

**Size Range** : 1/2" NB to 6" NB (Light / Medium / Heavy)  
6" NB to 48" NB &  
Wall thickness (6.35mm to 50mm)



Pipe



Stockist & Dealers of



MSL

**Karloskar**  
Ferrous

ISMT LIMITED  
Solutions You Can Trust

# QUALITY & INSPECTION

## QUALITY

We have strong sourcing of quality product across india & foreign market. We offer Third Party Inspection to our client as per their requirement and testing like Visual Dimension & Thickness Checking, Hydro Test, Eddy Current, UT Test, Physical/Mechanical Test with Chemical Analysis, PMI, Microscopic Examination etc. to a certain that the products are genuine and of the best quality as per customer requirement.

Mill test certificates are provided by us in writing document & guarantee of genuinity of the supplied material as per standard and required by customer to ensure traceability of supplied materials.

## CERTIFICATION

We are an ISO 9001: 2015 certified company and have approvals from all the major EPCs in India. We provide high quality genuine material with IBR and original mill test certificates according to EN-10204/DIN 500493. 1B

Thickness Dimension



Outside Dia Dimension



Positive Material Identification



Tensile Test



Hydro Test



Ultrasonic



## ANTI CORROSION COATING

### 3 Layer Poly Ethylene (LPE)

3LPE Coated Pipes consist of 3 layers for pipeline coating.

Layer 1 consists of Fusion Bonded Epoxy. This later provides protection against corrosion and is fusion bonded with the blasted steel surface.

Layer 2 is a copolymer adhesive which has excellent chemical bonding to the inner layer and the top layer of polyethylene.

Layer 3 is the layer of polyethylene used for protection against any physical damage of the pipes.

The 3 layer polyethylene coated pipes are the preferred choice for transmission of oil and gas around the world. It can withstand varied temperatures and environments ranging from dessert dry lands to deep underwater regions. 3LPE coated steel pipes are used for transportation of drinking water, oil and gas and other fluids. The 3LPE coated pipes can be used in the high temperatures as high as 60o C to 80 oC.

### 3 Layer Poly Propylene (LPP)

3LPP Coated Pipes consists of multilayer anti-corrosion coatings consisting of an inner layer of fusion bonded epoxy layer, the middle layer is an adhesive layer and an outer layer of polypropylene. The inner layer is used for protection against corrosion and chemical damage while the outer layer is used for protection against any physical damage in laying and transportation. The 3 layer polypropylene coated pipes are used in oil fields where the resources are drawn from deep reservoirs and at high temperatures (100oC to 140oC). It is highly abrasion resistant and is generally used where the chances of damage are high such as Rocky Mountains or for drilling operations.

### Fusion Bonded Epoxy

Fusion bonded epoxy (FBE) coated pipes are used for prevent steel pipes from corrosion and harmful chemicals. These are thin coatings of epoxy-resin powder materials formed in a film and applied on pipes by specialised coating facilities by electrostatic spraying. These FBE coated pipes can be used in temperatures up to 85oC in dry conditions.

FBE Coating has been used as a standard in industries for protection against corrosion. FBE coatings have good handling characteristics; they are flexible and resistant to soil pressure. These are used in pipeline projects that have normal requirements and do not have harsh conditions.

A dual-layer of fusion bonded epoxy can also be used for coating of pipelines for use in harsher conditions to make it more abrasion resistant. The second layer is also made of the similar fusion bonded epoxy with both the layers being sprayed successively. Depending on the application, the dual-layer FBE can also come with an Abrasion-Resistant Overcoat (ARO), to reduce damage to pipes.

### Hot Dip Galvansing

The hot dip galvanized seamless steel pipe has marvelous corrosion resistance because of its galvanized coating. By making molten metal react with the substrate to create an alloy layer, the product offers secure bonding between the coating and the substrate, and the coating thickness is uniform as well.



# Fasteners Division

We are manufacturers of Bolts / Nuts / Screws / Washers & Studs in Stainless Steel / Carbon Steel / Mild Steel & High Nickel

## GRADES

Grades Stainless Steel	High Nickel Material	Carbon Steel
DIN-304 / 304L / A2-70 / A2-80	DUPLEX	Mild Steel Grades
ASTM-316 / 316L / A4-70 / A4-80	SUPER DUPLEX	-
IS-410	MONEL	4.6
ISO-420	INCONEL	5.6
BS-321	-	6.8
ANSI-347	-	8.8

## BOLT / SCREW / RIVETS

Hex Head Bolt, Allen cap, Socket Head, Allen CSK, I-Bolt. U Bolt Eye Bolt, Linear Bolt, Foundation Bolt, Socket Set Screw, Countersunk Head Cap Screw, Grub Screw, Special bolts as per drawing

**Diameter range** : M5 to M80 diameter and length up to 500 mm long

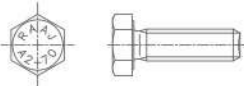
**Thread Type** : MM, BSW, BSF, UNC, UNF and Fine pitch

**Material** : Stainless Steel (A2, A4), Mild Steel & High Tensile (4.6, 5.6, 8.8, 10.9, 12.9, B7) and Special Alloys as per customers requirements



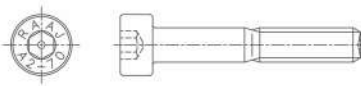
## BOLT

### DIN 933



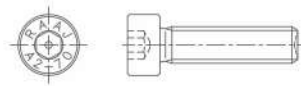
Standard	DIN 933/ISO 4017/IS 1364 (Part-1)
Grade	A2-70, A2-80, A4-70, A4-80
Size	M3 to M27
Length	10 MM to 150 MM

### DIN 912



Standard	DIN 912/ISO 4762 (Half thread & Full thread)
Grade	A2-70, A4-70
Size	M4 to M16
Length	10 MM to 150 MM

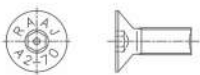
### DIN 7984



Standard	DIN 7984
Grade	A2-70
Size	M6 to M12
Length	10 MM to 150 MM

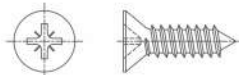
## SCREW / RIVETS

### ISO 10642



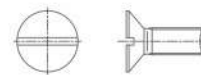
Standard	ISO 10642/DIN 7991 (Full thread)
Grade	A2-70, A4-70
Size	M4 to M16
Length	10 MM to 150 MM

### DIN 7982



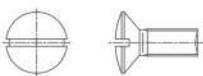
Standard	DIN 7982 (Phillip & Pozzi)
Grade	A2, A4
Size	#2.9 to #6.3
Length	9.5 MM to 50 MM

### DIN 963



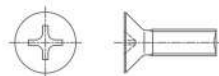
Standard	DIN 963
Grade	A2
Size	M3 to M6
Length	10 MM to 50 MM

### DIN 964



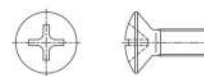
Standard	DIN 964
Grade	A2
Size	M3 to M6
Length	10 MM to 50 MM

### DIN 965



Standard	DIN 965
Grade	A2
Size	M3 to M6
Length	6 MM to 50 MM

### DIN 966



Standard	DIN 966
Grade	A2
Size	M3 to M6
Length	10 MM to 50MM

Channel Partner





# NUTS

Hex Nut, Lock Nut, Nylock Nut, Heavy Nut, Dome Nut, Special Nut

**Diameter range** : M3 to M80 diameter

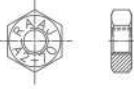
**Thread Type** : MM, BSW, BSF, UNC, UNF and Fine pitch

**Material** : Stainless Steel (A2/A4), Mild Steel & High Tensile (Gr 4, 8, 10, 12, 2H) and Special Alloys as per customers requirements

**Standards** : ISO, DIN, IS, BS, ANSI, ASTM



## DIN 934



Standard	DIN 934 / ISO 4032 / IS 1364 (Part 3)
Grade	A2-70, A2-80, A4-70, A4-80
Size	M3 to M27

## BSW 1083



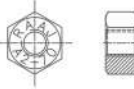
Standard	BSW 1083
Grade	A2-70, A4-70
Size	1/4" to 5/8"

## DIN 439



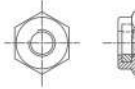
Standard	DIN 439 / Lock Nut
Grade	A2-70, A2-035
Size	M4 to M20

## UNI 5587



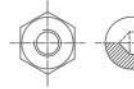
Standard	UNI 5587 / Thick Nut
Grade	A2-70, A4-70
Size	M4 to M16

## DIN 982



Standard	DIN 982
Grade	A2-70, A4-70
Size	M4 to M16

## DIN 1587



Standard	DIN 1587
Grade	A2-70
Size	M5 to M12

# THREADED RODS

Stud, Full Thread Stud, Half Thread, Double ended Stud, Special stud, Foundation Bolts, Anchor Bolts

**Diameter range** : M6 to M80 diameter and length up to 3000 mm long

**Thread Type** : MM, BSW, BSF, UNC, UNF and Fine pitch

**Material** : Stainless Steel (A2,A4). Mild Steel & High Tensile (4.6,5.6, 8.8, 10.9, 12.9, B7) and Special Alloys as per customers requirements

**Standards** : ISO, DIN 976, IS, BS, ANSI B1.1, ASTM



## DIN 976



Standard	DIN 976 (Type A & B)
Grade	A2-70, A2-80, A4-70, A4-80, B8 & B8M
Size	M2.5 to M24
Length	1000 MM to 5800 MM

## ANSI B1.1



Standard	ANSI B1.1
Grade	A2-70, A2-80, A4-70, A4-80
Size	1/4" to 1"
Length	3 FEET to 12 FEET

● Customised Threaded Rods / Studs are available on request.

# WASHER

Plain Washer, Spring Washer, Flat Washer, Punch Washer, Square Washer, Star Washers

**Diameter range** : M3 to M80 diameter

**Material** : Stainless Steel (A2, A4), Mild Steel /Special Steel / High Tensile as per customers requirements

**Standards** : ISO, DIN 125 (304), IS, BS, ANSI, ASTM



# Electrodes Division

## WELDING ELECTRODES

### Mild Steel

GRADES E6013 (General Purpose & Structure Welding)

### C-Mn Steel

GRADES E7018 E7018-1 E7018-G E7016 E7016-1 E6020  
E7024

### Cellulosic

GRADES E6010 E6011 E7010-G E7010-P1 E8010-G E8010-P1

### Low Alloy Steel

GRADES E7018-A1 E8018-B6L E9013-G E8018-C4 E10018-M E12018G  
E 8018-B2 E8018-B8 E8018-C1 E8018-G E10018-G E9018-M  
E9018-B3 E8018-B8L E8018-C2 E8016-G E11018-M E7018-W1  
E7018-B2L E9018-B91 E7018-C2L, E9018-D1 E11018-M E8018-W2  
E8018-B3L E9015-B91 E8018-C3 E9018-G E11018-G H4R E8045-P2 H4R  
E8018-B6 E8013-G E7018-C3L E10018-D2 E12018M E9045-P2 H4R

### Stainless Steel Electrodes

GRADES E308-16 E316L-15 E309-17 E310-16 E310H E430-15  
E308H-16 E317L-16 E309L-16 E310-17 E240-16 E409cb  
E308L-16 E318-16 E309Nb-16 E320-15 E307-16 E2209-16  
E308L-15 E318-17 E309Nb-17 E385-15 E409Nb-16 E2553-16  
E308L-17 E347-16 E309Mo-16 E630-16 E410-15 E2594-15  
E316-16 E347-17 E309Mo-17 E209-16 E410NiMo-15 E2594-16  
E316-17 E309-16 E312-16 E219-16 E410NIMO-16 E2595-16  
E2595-15

### Cast Iron Electrodes

GRADES Est ENiCu-B ENi-CI ENiFe-CI

### Hardfacing

GRADES Zedalloy 250 Zedalloy K Zedalloy 680 NIMOTEN 9580  
Zedalloy 350 Zedalloy 17Cr NS Plus Maganacane NIMOTEN 9650  
Zedalloy 550 Zedalloy VB Nimoten Plus 535 A Nimoten HFD  
Zedalloy 550LH Zedalloy 16 Nimoten Plus 535 B Zedalloy CoCr-A

### Nickel & Nickel Alloys

GRADES ENiCu7 ENiCrFe-3 ENiCrMo-5 ENiCrMo-12 ENiMO-7 ECuAl-A2  
ENi-1 ENiCrMo-3 ENiCrMo-6 ENiCrMo-14 E4043 ECUNi  
ENiCrFe-2 ENiCrMo-4 ENiCrMo-10 ENiCrFe-7 ECuSn-A

### Cutting & Gouging

GRADES CAG 9900 CAG 9901 CAG 9905



Channel Partner

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[sales@maitrimetal.com](mailto:sales@maitrimetal.com)

## WIRES

### C-Mn Steel

GRADES ER70S-6 ER70S-2 ER70S-2 (Spl) ER70S-G

### Low Alloy Steel ( High Temperature )

GRADES ER 70S-A1 ER80S-B2 ER80S-B2 ER90S-B3 ER80S-B6 ER80S-B8  
ER90S-B91

### Low Alloy Steel ( Low Temperature )

GRADES ER80S-Ni1 ER80S-Ni2

### Low Alloy Steel ( High Strength )

GRADES ER80S-D2 ER80S-G ER90S-D2 ER90S-G ER100S-G ER110S-G

### Stainless Steel

GRADES 308L / 309L ER310 ER310H ER316Lsi ER347Si ER410NiMo ER2209  
308Si / 347 ER410 ER316L ER347 ER385 ER430 ER2594

### Duplex Stainless Steel

GRADES ER2209 ER2594

### Nickel Alloys

GRADES ERNICU-7 ERNiCrCoMo-1 ER1100 ERNi-1 ERNiCr-3 ERNiCrMo-3 ERNiCrMo-4

### Aluminium Alloys

GRADES ER 4043 ER 5183 ER 5356 ER5556

### Copper Alloys

GRADES ERCuSn-A ERCUSi-A ERCuNi ERCuAl-A1 ERCuAl-A2

### Hardfacing Alloys

GRADES MC 42 FC 580 FC 600

## SAW WIRE & FLUXES

### SAW Wire

GRADES EL8 EM12K EH 10k EH 12K EH14 EA 2 EA 4 EA 3 EB 2R EB 3R EF 3

### SAW Flux

GRADES Automelt A55 (Automelt Gr II) Automelt A57 Automelt A81 Automelt A82  
Automelt B31 (Automelt Gr IV) Automelt B71 Automelt B22 Plus Automelt B20 Plus  
Automelt B41 Automelt B43 Automelt S33 Automelt S76

### Strip Classing Flux

GRADES Automelt Es1

### Bare Brazing Rods

GRADES Bras 3302 Bras 3305 Bras 3314 Bras 3343 Bras 3356

### Coated Brazing Rods

GRADES Bracc 2211 Bracs 3344 Bracc 7700

### Brazing Fluxes

GRADES Albraze A Sibraze F

# WELDING EQUIPMENT

## SMAW (Stick Electrode Welders and Air-Arc Gouging Equipment)

GRADES GL 601  
THYROLUXE 401/600  
THYROLUXE 800/1000/1200  
CHAMP ARC 201  
CHAMP 200 X  
CHAMP 250 X  
CHAMP 250  
CHAMP T 400  
CHAMP 400X  
CHAMP 600



## GTAW (TIG) Welders

GRADES CHAMPTIG 220 C  
CHAMPTIG 300 P/400 P  
CHAMPTIC 300 AD/500 AD

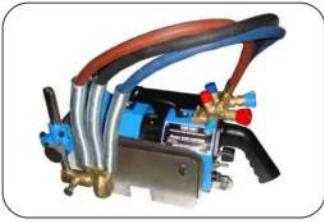


## GMAW (MIG/MAC) Welders

GRADES STRIKER 400  
CHAMPMIG 250/400/600  
CHAMPMULTI 400/600  
CHAMP PULSE 500



## GAS CUTTING PRODUCTS



PANTHER NM



KING TIGER



KING REGULATOR SERIES



KING TORCH-IM



KING JOIN AGWT/25W



KING PROTECT



KING JOIN AGWT/3W



KING TORCH-NM



KING JOIN AGWT/HT-1



KING PANTHER-IM



KING ADAPTOR



KING HEATER

## PPE ACCESSORIES



KING SHIELD-HAND



KING SHIELD-AUTO



600V ARC  
WELDING CABLE



KING HOSE



KING GLOVE-MP



KING APRON



SAFETY SHOE-RHINO



SAFETY SHOE-BISON



KING LEG GUARD



KING SLEEVE GUARD



HOLDER KING  
COOL-600



HOLDER KING  
SWORD-600



EARTH CLAMP-600



HOLDER HC-600



ADOR HANDY

# Wires & Cables Division

## EHV CABLES

Extra High Voltage Cables are used widely in power transmission utilities and many other industries related to water, renewable energy, nuclear & thermal power stations, airports, railways, steel, and other manufacturing industries.

**Size Range** : upto 2500 sq. mm Copper  
3000 sq. mm Aluminium

**Referred Standards** : IEC 60840 / IS 7098 Part 3 / IEC 62067



## MV / HV CABLES

These cables include voltage grade ranges in 3.3 kV to 33 kV, suitably ideal for power transmission & distribution.

**Size Range** : 25sq. mm to 1000sq. mm, 25sq. mm to 1000sq. mm  
25sq. mm to 1000sq. mm, 35sq. mm to 1000sq. mm  
50sq. mm to 1000sq. mm  
for single core & 400sq mm for 3 core

**Referred Standards** : IS:1554-(P-2), IS:7098 (P-2), IEC:60502-2,  
BS:6622 & RELEVANT NFC



## LV POWER CABLES

LV Cables are used widely in many industries related to water, renewable energy, distribution & power networks, nuclear & thermal power stations, airports, marine, defence, telecommunications, windmills, building, mining, offshore, ship wiring, railways, automation, audio-visual, manufacturing industries, etc.

**Size Range** : 1C, 2C, 3C, 4C-4 sq mm to 1000sq mm  
3.5C-25sq mm and as per client's requirement

**Referred Standards** : IS:1554-(P-1) & (P-2), IS:7098 (P-1) & (P-2)  
IEC:60502-1 & 2, BS:5467, BS:6724, BS:6346, BS: 7655  
BS:7889, VDE-0207, VDE-0276



## LV CONTROL CABLES

These cables are mainly used in machinery, machine tools & appliances, measuring, control, heating & air conditioning technologies for permanent connections in cable chains etc.

**Size Range** : 1.5 sq mm - 2C to 61 Cores  
2.5 sq mm - 2C to 61 Cores  
and as per client's requirement

**Referred Standards** : IS:1554 (P-1), IS:7098 (P-1), IEC:60502-1, BS:5467,  
BS:6724, BS:6346



## INSTRUMENTATION / SIGNAL CABLES

These cables can be utilised in process plants to connect instruments for communicating with each other. They are primarily used in industrial plants such as refinery or petrol deposit, steel plants or any manufacturing units. They can be insulated in PVC, PE, XLPE & HEPR and sheathed in PUR, LSF, PVC & PE.

**Size Range** : 1P to 100P - up to 6sq mm  
1t to 100T - up to 6 sq mm  
and as per client's requirement

**Referred Standards** : EIL-6-52-46. Rev-05, PAS: 5308 Part 1 & Part 2,  
BSC 143-0.75 (24/0.2 mm) OAS, IEC 60092-375, 376,  
BS EN 50288, VDE 0815, VG 95218, NEK 606 and as per customer's specifications.



## THERMOCOUPLE EXTENSION / COMPENSATING CABLES

These cables are also called instrumentation cables as they are used for process temperature measurement. Thermocouples are used in processes to sense temperature and are connected to the pyrometers for indication and control.

**Size Range** : 12 AWG/16 AWG/20 AWG-up to 100 pairs and as per clients requirement

**Referred Standards** : EIL SPEC:6-52-46, ANSI:MC-96.1, ENI-163.00, IS:8784.  
BS:7655 IEC 60584-3



## RUBBER CABLES ( ELASTOMERIC CABLES)

Elastomeric / Rubber Cables are used widely across many industries related to water, renewable energy, distribution & power networks, nuclear & thermal power stations, airports, marine, defence, telecommunications, windmills, building, mining, onshore & offshore applications, ship wiring, railways, automation, audio-visual, manufacturing, etc.

**Size Range** : 1C, 2C, 3C, 4C-05 sq mm to 1000sq mm  
3.5C-25sq mm to 400 sq and as per client's requirement

**Referred Standards** : IS:9968(P-1) & (P-2), IS:14494, IEC-60502-1 & 2,  
IEC:60092-350, VDE:250, BS:6007, BS:7919, BS:6195,  
NCB:118, NES & DEFSTAN, RDSO Specification, NEK-606, BS:6883



## FLEXIBLE & BUILDING WIRES

High degree of thermal stability, Oxygen & temperature index and used in low voltage signals, electrical motors, electrical appliances, control panels, DC power transformers, electrical boards, battery cables, etc.

**Size Range** : House Wire - 0.5 sq mm to 6 sq mm  
Multi Core-20 to 240-0.5 sq mm to 400 sq mm  
Single Core Flexible - 0.5 sq mm to 1000 sq mm  
Building Cables - 0.5 sq mm to 6 sq mm and as per client's requirement

**Referred Standards** : IS:1554 (P-1), IS:7098 (P-1), IEC:60502-1, BS:5467,  
BS:6724, BS:6346



## FIRE SURVIVAL / LSZH CABLE

In case a building catches fire, these fire-resistant and non-halogenated cables overcome hazards such as fire smoke, heat & toxic fumes, etc. and help us in safe evacuation.

**Size Range** : Power Cables: 1 core to 5 core-upto 1000 sq mm  
Control Cables: up to 61 cores -0.5 sq mm to 6.0 sq mm  
Signal Cables: up to 100 pairs from 0.5 sq mm to 6.0 sq mm  
Signal Cables: up to 100 triads from 0.5 sq mm to 6.0 sq mm

**Referred Standards** : IS:1554-(P-1) IS:9968, IS:7098(P-1) BS:5467, VDE-0207,  
BS:6346, IEC:331, BS:5746, IEC 60502-1, BS:7846,  
BSEN-60811& II, IEC:60092, NEK-606, BS:6883,BS:8519



Channel Partner

**KEI**  
Wires and Cables

# Energy Division

## LOW SULPHUR HEAVY STOCK (LSHS)

**Description :** LSHS is a heavy, low-sulfur fuel oil that is ideal for industrial applications requiring high energy output and reduced environmental impact.

**Specifications :** Detailed technical specifications, including sulfur content, viscosity, and calorific value.

**Applications :** LSHS is commonly used in power generation, cement manufacturing, and other heavy industries where reliable and cleaner-burning fuels are essential.

## CARBON BLACK FEED STOCK (CBFS)

**Description :** CBFS is a versatile, cost-effective fuel oil known for its high combustion efficiency and suitability for various heating applications.

**Specifications :** Comprehensive specifications, including viscosity, flash point, and density.

**Applications :** CBFS finds applications in boilers, furnaces, and heating systems across industries, offering reliable and efficient energy solutions.

## LIGHT DIESEL OIL (LDO)

**Description :** LDO is a clean-burning, low-viscosity diesel fuel that provides excellent ignition characteristics and energy efficiency.

**Specifications :** Detailed specifications, such as cetane number, sulfur content, and flash point.

**Applications :** LDO is commonly used in power generation, diesel engines, and industrial heating, offering superior performance and reduced emissions.

## FUEL OIL

**Description :** Our Fuel Oil product range encompasses various grades designed to cater to different industrial needs, from marine and power generation to manufacturing processes.

**Specifications :** Detailed specifications for each grade, including viscosity, sulfur content, and specific applications.

**Applications :** Fuel Oil serves as a dependable energy source in marine vessels, power plants, and heavy machinery.

## FURNACE OIL

**Description :** Furnace Oil is a robust and cost-effective heating fuel used extensively in industrial furnaces, kilns, and boilers.

**Specifications :** Comprehensive specifications to aid in product selection for specific applications.

**Applications :** Furnace Oil is a preferred choice for industries requiring consistent and efficient heat generation.





# Chemical Composition

Stainless Steel is essentially a low carbon steel which contains chromium at 10% or more by weight. It is this addition of chromium that gives the steel its unique stainless corrosion resisting Properties. The corrosion resistance and other useful properties of the steel are enhanced by increased chromium content and the addition of other elements such as molybdenum, nickel and nitrogen

Chemical Composition of Stainless Steel											Nearest Equivalent Specification		
AISI Grade	UNS NO.	EN	BS	C Max	Mn Max	P Max	S Max	Si Max	Cr	Ni	Mo	Cu	I.S.

## Austenitic

201	S20100	-	-	0.15	5.5/7.5	0.06	0.03	1	16.0/18.0	3.5/5.5	-	-	-
202	S20200	-	-	0.15	7.5/10	0.06	0.03	1	17.0/19.0	4.0/6.0	-	-	-
301	S30100	-	301S21	0.15	2.0max	0.045	0.040	1.0	16.0/18.0	6.0/8.0	-	-	10Cr17Ni7
302	S30200	-	-	0.15	2.0	0.045	0.030	1.0	17.0/19.0	8.0/10.0	-	-	07Cr18Ni9
303	S30300	-	303S31	0.15	2.0	0.045	0.15 min	1.0	17.0/19.0	8.0/10.0	-	-	15Cr18Ni9
304	S30400	1.4301	-	0.08	2.0	0.045	0.030	1.0	18.0/20.0	8.0/10.0	-	-	04Cr18Ni10
304L	S30403	1.4307	304S11	0.030	2.0	0.045	0.030	1.0	18.0/20.0	8.0/12.0	-	-	02Cr18Ni11
304LN	S30453	1.4306	304S61	0.030	2.0	0.045	0.030	0.75	18.0/20.0	8.0/11.0	-	-	-
304H	S30409	-	-	0.05	2.0	0.045	0.03	1	18.0/20.0	8.5/9.5	-	-	-
309	S30900	-	309S16	0.20	2.0max	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	20Cr24Ni12
309S	S30908	1.4833	-	0.08	2.0	0.045	0.030	1.0	22.0/24.0	12.0/15.0	-	-	-
310H	S31009	-	-	0.25	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	10Cr25Ni12
310S	S31008	1.4845	-	0.08	2.0	0.045	0.030	1.50	24.0/26.0	19.0/22.0	-	-	-
316	S31600	-	316S31	0.08	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	04Cr17Ni12Mo2
316L	S31603	1.4404	316S11	0.030	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	03Cr17Ni12Mo2
316LN	S31653	-	316S61	0.030	2.0	0.045	0.030	0.75	16.0/18.0	10.0/14.0	2.0/3.0	-	-
316Ti	S31635	1.4571	320S31	0.080	2.0	0.045	0.030	1.0	16.0/18.0	10.0/14.0	2.0/3.0	-	-
317	S31700	-	-	0.08	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-
317L	S31703	-	317S12	0.030	2.0	0.045	0.030	1.0	18.0/20.0	11.0/15.0	3.0/4.0	-	-
317LN	S31753	-	-	0.03	2.0	0.045	0.03	1	18.0/20.0	11.0/15.0	3.0/4.0	-	-
321	S32100	1.4541	321S31	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	-	04Cr18Ni10Ti20
347	S34700	-	347S31	0.08	2.0	0.045	0.030	1.0	17.0/19.0	9.0/12.0	-	-	04Cr18Ni10Nb-40
904L	N08904	1.4539	-	0.02	2.0	0.045	0.035	1	19.0/23.0	23.0/28.0	4.0-5.0	-	-

## Ferritic

410	S41000	-	410S21	0.15	1.00	0.040	0.030	1.0	11.50-13.50	0.75	...	...	...
410S	S41008	1.4000	403S17	0.08	1.00	0.040	0.030	1.0	11.50-13.50	0.60	...	...	...
429 <sup>c</sup>	S42900	-	-	0.12	1.00	0.040	0.030	1.0	14.00-16.00	...	...	...	...
430	S43000	1.4016	430S17	0.12	1.00	0.040	0.030	1.0	16.00-18.00	0.75	...	...	...
439	S43035	-	-	0.07	1.00	0.040	0.030	1.0	17.00-19.00	0.050	...	0.04	...
444	S44400	-	-	0.025	1.00	0.040	0.030	1.0	17.5-19.5	1.00	1.75-2.50	0.035	...
409L	-	-	-	≤ 0.030	≤ 1.00	≤ 1.00	-	-	-	10.50~11.75	~	-	-

## Duplex & Super Duplex

---	S31803	1.4462	-	0.030	2.00	0.030	0.020	1.0	21.0-23.0	4.5-6.5	2.5-3.5	---	0.08-0.20
255 <sup>c</sup>	S32550	-	-	0.040	1.50	0.040	0.030	1.0	24.0-27.0	4.5-6.5	2.9-3.9	1.50-2.50	0.10-0.25
2507	S32750	1.441	-	0.030	1.20	0.035	0.020	0.8	24.0-26.0	6.0-8.0	3.0-5.0	0.50	0.24-0.32
---	S32760	-	-	0.030	1.00	0.030	0.010	1.0	24.0-26.0	6.0-8.0	3.0-4.0	0.50-1.00	0.20-0.30



# Our Customers

## HYDROCARBON



## ENERGY



## FERTILIZERS



COUNTRIES WE YIELD TO



## STEEL



**AM/NS  
INDIA**

**VISA STEEL**

## EPC



## SHIPPING



- India
- Vietnam
- Taiwan
- Italy
- UAE
- Middle East
- Germany
- Singapore
- Malaysia
- Hongkong
- Portugal
- Canada



# MAITRI

EMPOWERING INNOVATION

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### MAITRI ENGGTECH

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### ELECTRODES DIVISION

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### WIRES & CABLES DIVISION

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Email : brightbar@maitrimetal.com

**maitrimetal.com**