

 **RIYAARTH OVERSEAS**

# Trusted Manufacturer Of Steel Pipe



## ABOUT US

Riyaarth Overseas is India's leading manufacturer, Exporters & Suppliers Ferrous & Non-Ferrous Metals Specialist In: Stainless Steel, Carbon Steel, API 5L Pipes Mild Steel, Monel, Titanium, Hastaloy, Duplex, Super Duplex, Inconel, ERW Pipe, Pipe Fittings, Sheet, Coils Hardox, Ferrous & Non-Ferrous Metals, ETC.

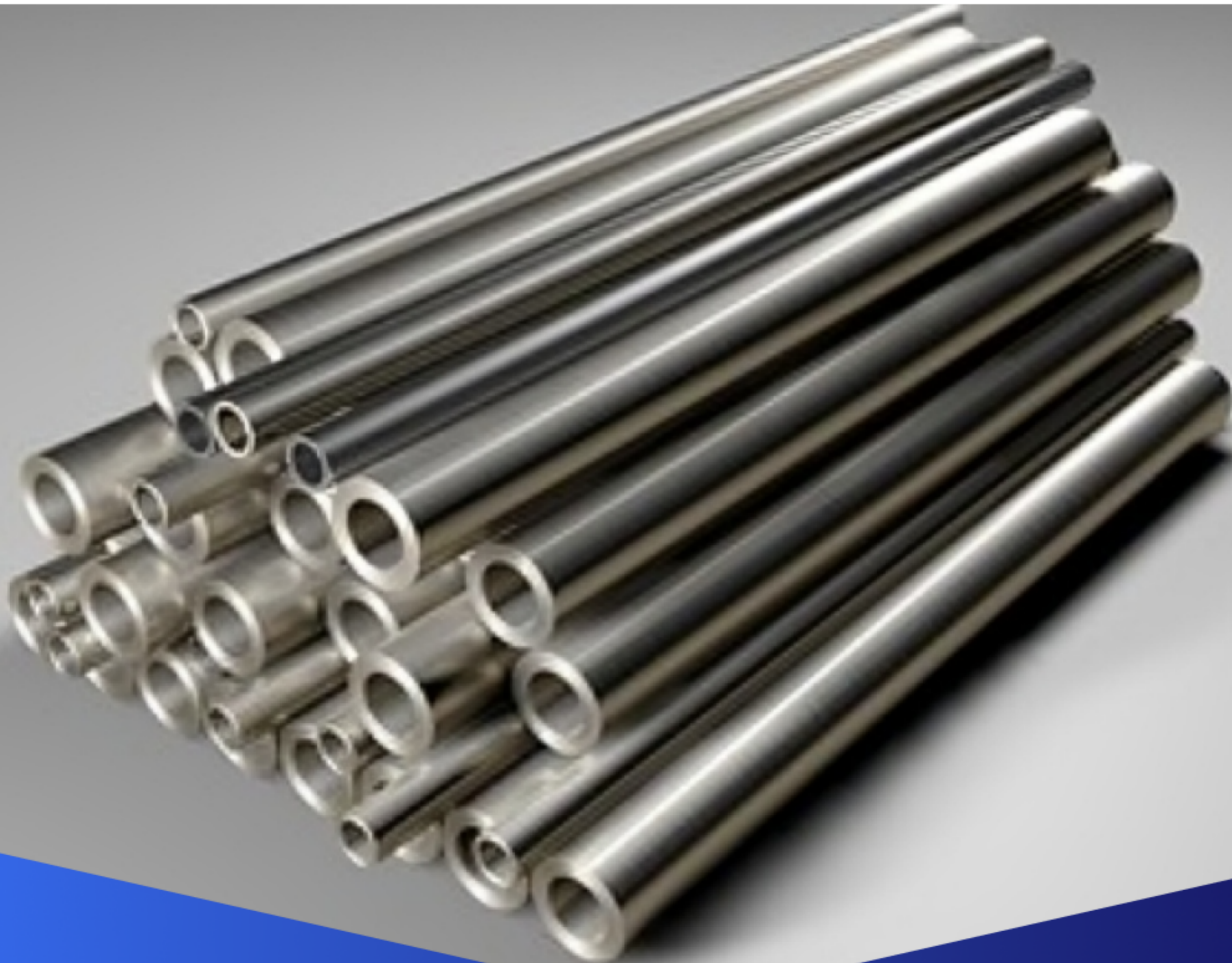
We manufacture various seamless and welded pipe fittings including elbows, tees, reducers, caps and bends as well as forging fittings and flanges.

## MISSION

To pursue the highest standards of quality and achieve customer satisfaction through a synergy of excellence and commitment.

## VISION

To evolve as a brand that would be best admired for its research focus, quality assurance and tradition of customer satisfaction.





# 01

## STAINLESS STEEL

Stainless steel is a highly versatile and durable material used extensively across industries due to its excellent corrosion resistance, strength, and aesthetic appeal. Known for its chromium content, which gives it a protective layer that resists rust and staining, stainless steel has various grades and finishes suited to different applications.

### Types of Stainless Steel

- Stainless Steel Sheets And Plates
- Stainless Steel Pipe Fittings
- Stainless Steel Pipes Tubes
- Stainless Steel Flanges
- Stainless Steel Round Bars | Flats
- Stainless Steel Rings
- Stainless Steel Plate Circles
- Stainless Steel Needle Valves
- Stainless Steel Flexible Hose Pipes

### Grades and Features

Grades	Features
304/304L	General corrosion resistance, used in kitchen and appliances.
316/316L	Superior marine corrosion resistance, used in offshore applications.
321/321H	High-temperature and welding stability, ideal for refineries.
317L	Excellent pitting corrosion resistance, used in chemical processing
310S	High-temperature oxidation resistance, used in furnace components.

### Applications

Construction, Automotive, Pharmaceutical, Oil, Gas, Food and Beverage Processing.



## 02

# DUPLEX STAINLESS STEEL

Duplex stainless steel is a type of stainless steel known for its dual-phase microstructure, consisting of both austenitic and ferritic phases in roughly equal parts. This unique combination offers higher strength and corrosion resistance compared to conventional stainless steel, making duplex stainless steel ideal for demanding applications in harsh environments.

### Types of Duplex Stainless Steel

- Duplex Stainless Steel Sheets And Plates
- Duplex Steel Pipe Fittings
- Duplex Stainless Steel Pipes and Tube
- Duplex Stainless Steel Flanges
- Duplex Stainless Steel Bars And Rods

### Key Features

- **High Strength:** Twice as strong, reduces costs.
- **Corrosion Resistance:** Withstands acidic, chloride-rich environments.
- **Stress Resistance:** Resists cracking in harsh conditions.
- **Weldability & Formability:** Easy to shape and weld.
- **Cost-Effective:** Strong, durable, low maintenance.

### Applications

Oil, Gas, Water treatment, Chemical processing, Marine, Pulp and paper industry.



## 03

# SUPER DUPLEX STAINLESS STEEL

Super duplex stainless steel is an advanced stainless steel alloy known for its high chromium, molybdenum, and nitrogen content, providing exceptional corrosion resistance, strength, and durability. It combines the best features of austenitic and ferritic stainless steels, making it ideal for extremely demanding applications, especially in harsh environments like marine, oil and gas, and chemical processing.

### Types of Duplex Stainless Steel

- Super Duplex Stainless Steel Pipes And Tubes
- Super Duplex Stainless Steel Sheets And Plates
- Super Duplex Stainless Steel Pipe Fittings
- Super Duplex Stainless Steel Flanges
- Super Duplex Stainless Steel Bars And Rods

### Grades and Features

Grades	Features
UNS S32750 (2507)	High strength and exceptional corrosion resistance, for extreme environments.
UNS S32760	Enhanced corrosion resistance used in offshore and chemical industries.
UNS S39274	Nitrogen-added strength, ideal for high temperature and pressure.

### Applications

Oil, Gas, Desalination plants, Chemical processing, Marine, Pulp and paper industry.



# 04

## CARBON STEEL

Carbon steel is a popular and widely used material in a variety of industries due to its durability, strength, and cost-effectiveness. It's an alloy primarily composed of iron and carbon, with trace amounts of other elements. The carbon content significantly affects its properties, giving carbon steel a broad range of applications, from structural to high-stress environments.

### Types of Carbon Steel

- Carbon Steel Sheets And Plates
- Carbon Steel Pipes And Tubes
- Carbon Steel Seamless Pipe
- Carbon Steel Square & Rectangular Pipes
- Carbon Steel S355JH IS3589 IS1239
- Carbon Steel Pipe Fittings
- Carbon Steel Flanges
- Carbon Steel Bars And Rods

### Key Features

- **High Strength:** Ideal for heavy-load applications.
- **Cost-Effective:** Affordable for large-scale projects.
- **Versatile Machinability:** Easily shaped, cut, and welded.
- **Heat Conductivity:** Efficient for heat transfer needs.

### Applications

Construction, Automotive, Manufacturing, Power Generation, Pipes and Tubing.



# 05

## ALLOY STEEL

Alloy steel is a versatile category of steel enhanced with additional alloying elements, such as manganese, nickel, chromium, molybdenum, and vanadium. These additions improve properties like strength, hardness, corrosion resistance, and toughness, allowing alloy steel to perform well in extreme environments and under high stress.

Alloy steels are engineered to meet specific performance requirements and are commonly used in industries such as automotive, aerospace, oil and gas, power generation, and construction.

### Types of Alloy Steel

- Alloy Steel Sheets and Plates
- Alloy Steel Pipe Fittings
- Alloy Steel Pipes and Tubes
- Alloy Steel Flanges
- Alloy Steel Bars And Rods

### Grades and Features

Grades	Features
ASTM A335	High-temperature alloy pipes for power plants and refineries.
ASTM A182	Flanges, fittings, and valves for high-temperature applications.
ASTM A213	Boiler, superheater, and heat exchanger seamless tubes.
AISI 4140	Strong, tough, wear-resistant for automotive, oil & gas.

### Applications

Construction, Automotive, Manufacturing, Power Generation, Pipes and Tubing.



## 06

# ALUMINIUM

Aluminum is a widely used, lightweight, and versatile metal known for its excellent corrosion resistance, high strength-to-weight ratio, and ease of fabrication. It's the second most commonly used metal after steel, found in everything from automotive components and aerospace structures to household products and packaging. Aluminum's properties make it ideal for applications that require durability without the added weight of heavier metals.

### Variations of Aluminium

- Aluminium Sheets and Plates
- Aluminium Pipe Fittings
- Aluminium Pipes and Tubes
- Aluminium Flanges
- Aluminium Bars And Rods

### Grades and Features

Grades	Features
ASTM B209	Aluminum sheets and plates for various applications.
ASTM B221	Extruded aluminum bars, rods, wires, and tubes.
Aluminum 6061	Versatile, corrosion-resistant, used in construction and marine.
Aluminum 5052	Excellent corrosion resistance, ideal for marine and food industries.
Aluminum 7075	High-strength, used in aerospace and sporting equipment.

### Applications

Aerospace, Construction, Automotive, Packaging, Marine and Electronics.





# 07

## PIPE FITTINGS

Pipe fittings are critical components used to connect, control, or redirect the flow of liquids and gases within piping systems. Available in a wide range of materials, shapes, and sizes, pipe fittings are designed to meet the unique requirements of industrial, commercial, and residential applications.

### Variations of Pipe Fittings

- Ferrule Fittings | Compression Fittings
- Fabricated/Flanged Pipes Fittings
- Investment Casting-IC Fittings
- Sanitary Tubes & Pipes Fittings
- Sanitary | Dairy Fittings & Valves

### Grades and Features

Grades	Features
ASME B16.9	Factory-made wrought buttwelding fittings.
ASME B16.11	Forged fittings, socket welding, and threaded.
ASTM A234	Carbon and alloy steel fittings for high temperatures.
ASTM A403	Austenitic stainless steel wrought fittings specification.
DIN and EN Standards	European pipe fittings and flanges for various uses.

### Applications

Oil, Gas, Chemical Processing, Water Treatment, HVAC systems, Food and Beverage.



# 08

## DISH END | DISHED ENDS

Riyaarth Overseas Industries is a leading manufacturer, exporter, and supplier of high-quality stainless steel dish ends, carbon steel dish ends, and alloy steel dished ends. We specialize in custom fabrication, offering solutions for various industrial sectors, including petrochemicals, pharmaceuticals, oil & gas, and power generation.

### Grades and Features

Grades	Features
SA 516 Gr. 70	High-strength, pressure vessel steel for dish ends.
SA 387 Gr. 11/22 CL 2	Heat-resistant, suitable for high-pressure dish ends.
SA 240 TP 304	Corrosion-resistant, used in stainless steel dish ends.
SA 240 TP 316L	Superior corrosion resistance, ideal for chemical tanks.
SA 240 TP 321	Heat-resistant, stabilized for high-temperature applications.

**Customized Sizes:** We manufacture dish ends up to 5000mm in diameter and with wall thicknesses between 3mm and 60mm.

**Material Variety:** We offer dished ends in carbon steel, mild steel, stainless steel, and nickel alloys, ensuring solutions that fit your specific needs

### Applications

Petrochemical, Oil & Gas, Power Generation, Pharmaceuticals, and Food Processing.



# 09

## PLATE CIRCLES, RINGS, FORGINGS

Riyarth Overseas is a premier manufacturer and supplier of high-quality custom-size forgings, rings, and circles, specializing in large-diameter carbon steel, alloy steel, stainless steel, and aluminum products. We cater to diverse industries, offering precision-cut circles, rings, bars, and blocks from stainless steel and carbon steel plates. Our expertise lies in producing custom sizes and dimensions, tailored to meet specific engineering and fabrication needs.

### Key Products:

- **Carbon & Stainless Steel Plate Circles:** Available in a variety of grades, including stainless steel 201, 304L, 316L, and Duplex.
- **Forged Rings and Discs:** Custom-made to specifications in carbon steel, alloy steel, and aluminum (5052, 5083, 6061, etc.).
- **Large Diameter Plates & Rings:** Manufactured for heavy industrial applications and cut-to-size based on client requirements

We excel in delivering high-performance materials for the engineering and fabrication industries across the globe, maintaining strict adherence to international standards like ASTM, ASME, DIN, EN, and JIS

### Quality Assurance & Packaging:

At Riyarth Overseas, all products undergo stringent quality control at every stage, from raw material selection to final dispatch. We offer:

- Manufacturer Test Certificates (EN 10204/3.1B)
- 100% Radiography Test Reports
- Third-Party Inspection Reports



# 10

## STEEL FASTENERS

Riyaarth Overseas is a renowned manufacturer, exporter, and supplier of industrial fasteners, specializing in high-quality stainless steel fasteners, duplex fasteners, high tensile fasteners, and custom-grade fasteners. We produce and supply a wide range of fasteners, including nuts, bolts, threaded rods, washers, and screws, all conforming to international standards like ASTM, DIN, and ASME.

### Carbon, Alloy, Stainless Steel Fasteners Production Range

Bolts	Hex Screw, Hex Bolt, U Bolt, Eye Bolt, J Bolt, T Bolt, Foundation Bolt, Structural Bolt
Nuts	Hex Nut, Square Nut, Lock Nut, Nylock Nut, Flange Nut, Weld Nut, Dom Nut, Eye Nut
Washers	Flat Washer, Plain Washer, Spring Washer, Star Washer, Tapper Washer, Tab Washer
Socket Screw	Allen Cap, Allen CSK, Button Head, Allen Grub
Machine Screws	Cheese Head, CSK Head, Pan Philipse, CSK Philipse
Self Tapping Screws	Pan Slotted, CSk Slotted, Pan Philipse, CSK Philipse Wood Screw

### Applications

Oil & Gas, Petrochemicals, Wastewater Treatment, Power Generation, and Food Processing.



# 11

## BUTTWELD FITTINGS

RiYaArth Overseas is a leading manufacturer and exporter of top-quality Buttweld Fittings, engineered to meet international standards such as ASME/ANSI/DIN.

Buttweld fittings are vital components for connecting and manipulating the flow of fluids or gases within piping systems.

### Types of Buttweld Fittings

- Pipe Elbow
- Pipe Tee
- Pipe Cross
- Pipe Reducer
- Pipe End Cap
- Pipe Bends
- Stubend-Lap Joint

Specifications	Features
Size Range	1/2" (15 NB) to 48" (1200 NB), suitable for various pipeline sizes.
Standards	SCH 5, SCH 10, SCH 20, SCH 40, STD, SCH 80, SCH 160, XXS, etc.
Wall Thickness	Complies with ASME B16.9, B16.28, MSS SP-43, DIN, and other international standards.
Carbon Steel	ASTM A234 WPB, WPC.
Stainless Steel	ASTM A403 WP304, 304L, 316, 316L, 321, 347, 904L.
Alloy Steel	ASTM A234 WP1, WP5, WP9, WP11, WP22, WP91.
Duplex/Super Duplex Steel	ASTM A815 UNS S31803, S32205.
Nickel Alloys	Inconel, Monel, Hastelloy, Nickel 200, Alloy 20.

### Applications

Oil & Gas, Petrochemical, Power Generation, Water Treatment, Pharmaceutical, Construction, Food & Beverage.



# 12

## FORGED FITTINGS

Riyaarth Overseas is a renowned manufacturer and exporter of forged fittings, providing reliable piping solutions for various industries worldwide. Our forged fittings comply with international standards such as ASME, ANSI, and DIN, ensuring durability, precision, and strength for high-pressure and high-temperature applications.

### Types of Forged Fittings

- Socket-Weld-Fittings
- Threaded Pipe Fittings
- Pipe Nipples
- Pipe Outlet Fittings
- Swage Nipple/Pipe Swage

### Specifications and Features

Specifications	Features
Size Range	1/8" (DN6) to 4" (DN100).
Standards	Conforms to ASME B16.11, MSS-SP-79, MSS-SP-83, MSS-SP-95, MSS-SP-97, BS 3799, and other international standards.
Pressure Ratings	Class 2000, Class 3000, Class 6000, and Class 9000.
Carbon Steel	ASTM A105, A350 LF2.
Stainless Steel	ASTM A182 F304, F304L, F316, F316L, F321, F347, F904L.
Alloy Steel	ASTM A182 F1, F5, F9, F11, F22, F91.
Special Alloys	Duplex, Super Duplex, Nickel Alloys (Inconel, Monel, Hastelloy, etc.).

### Applications

Oil & Gas, Petrochemical, Power Generation, Water Treatment, Pharmaceutical, Construction, Food & Beverage.



# 13 FLANGES

Riyaarth Overseas is a globally recognized manufacturer and exporter of premium flanges that adhere to ASME/ANSI/DIN standards. We are committed to delivering superior-quality products that meet international standards and provide exceptional performance in the most demanding environments.

## Types of Flanges

- Threaded Flanges
- Weldneck Flanges
- Socket Weld Flanges
- Blind Flanges
- Slip On Flanges
- Lap Joint Flanges
- Plate Flanges

## Specifications and Features

Specifications	Features
Size Range	From 1/2" (15 NB) to 48" (1200 NB), suitable for a wide range of applications.
Standards	Complies with ANSI B16.5, ANSI B16.47 Series A & B, MSS SP44, ASA, API-605, AWWA, and custom specifications.
Pressure Ratings	Class 150 to Class 2500, and PN6 to PN64, supporting various pressure requirements.
Carbon Steel	ASTM A105/A105N, A350 LF1, LF2, LF3, A694 F42 to F70.
Stainless Steel	ASTM A182 F304/304L, F316/316L, F310, F321, F904L.
Alloy Steel	ASTM A182 F1, F5, F9, F11, F22, F91.
Special Alloys	Duplex, Super Duplex, Nickel Alloys (Inconel, Monel, Hastelloy, et

## Applications

Oil & Gas, Petrochemical, Power Generation, Water Treatment, Pharmaceutical, Construction, Marine, Food & Beverage.



# 14 COPPER

Copper is one of the most versatile and widely used metals, known for its exceptional electrical and thermal conductivity, corrosion resistance, and durability. It is a key material in electrical, plumbing, HVAC, and industrial applications and has been valued for centuries due to its high-performance characteristics and ease of use.

## Types of Copper

- Copper Nickel Sheets and Plates
- Copper Nickel Pipes and Tubes
- Copper Nickel Pipe Fittings
- Copper Nickel Flanges
- Copper Nickel Bars And Rods

## Specifications and Features

Grade	Features
C11000 (Electrolytic Tough Pitch Copper)	High-purity, used in electrical applications.
C10100 (Oxygen-Free Copper)	Copper-zinc alloy, machinable, corrosion-resistant.
C26000 (Cartridge Brass)	Highly conductive, corrosion-resistant, electronic applications.
C70600 (90-10 Copper-Nickel)	Seawater-resistant, marine, offshore applications.
C17200 (Beryllium Copper)	Strong, hard, conductive, used in electronics.

## Applications

Electrical, Plumbing, HVAC, Automotive, Architecture, Medical and Industry Machinery.





# 15 INCONEL

Inconel is a family of nickel-chromium-based superalloys known for its exceptional resistance to heat, corrosion, and oxidation. Developed to perform in extreme environments, Inconel maintains its strength and stability at high temperatures, making it ideal for applications in industries like aerospace, power generation, chemical processing, and more.

## Types of Inconel

- Inconel Sheets and Plates
- Inconel Pipes and Tubes
- Inconel Pipe Fittings
- Inconel Flanges
- Inconel Bars And Rods

## Specifications and Features

Grade	Features
Inconel 600 (UNS N06600)	Corrosion-resistant, oxidation-resistant, heat-treating applications.
Inconel 625 (UNS N06625)	Excellent corrosion resistance, marine, aerospace applications.
Inconel 718 (UNS N07718)	High strength, creep-resistant, power generation.
Inconel X-750 (UNS N07750)	High-temperature strength, gas turbines, nuclear reactors.

## Applications

Aerospace, Power Generation, Marine, Oil & Gas, Chemical Processing and Nuclear Reactors.



# 16 MONEL

Monel is a family of nickel-copper alloys known for their exceptional strength, toughness, and outstanding corrosion resistance, particularly in marine environments. It was developed in the early 20th century and has since become a popular choice in applications requiring high durability and resistance to corrosion by seawater, acids, and alkaline solutions.

## Types of Monel

- Monel Sheets and Plates
- Monel Pipes and Tubes
- Monel Pipe Fittings
- Monel Flanges
- Monel Bars And Rods

## Specifications and Features

Grade	Features
Monel 400 (UNS N04400)	Corrosion-resistant, marine, chemical, oil & gas.
Monel K-500 (UNS N05500)	High strength, hardness, springs, shafts.
Monel R-405	Improved machinability, fasteners, valve seats.

## Applications

Aerospace, Power Generation, Marine, Oil & Gas, Chemical Processing and Electrical.



# 17

## HASTELLOY

Hastelloy is a family of nickel-molybdenum and nickel-chromium-based superalloys known for their exceptional corrosion resistance and high-temperature strength. Developed to withstand the harshest environments. Hastelloy alloys are widely used in applications that involve corrosive media, including acids, seawater, and high-temperature gases.

### Types of Hastelloy

- Hastelloy Sheets and Plates
- Hastelloy Pipe & Tube
- Hastelloy Pipe Fittings
- Hastelloy Flanges
- Hastelloy Bars And Rod

### Specifications and Features

Specifications	Features
Hastelloy C-276 (UNS N10276)	Universal corrosion resistance, strong acid resistance.
Hastelloy X (UNS N06002)	High-temperature oxidation, gas turbines, furnaces.
Hastelloy B-3 (UNS N10675)	Hydrochloric acid resistance, chemical processing.
Hastelloy C-22 (UNS N06022)	Crevice, pitting resistant, marine, waste treatment.

### Applications

Aerospace, Pollution Control, Marine, Oil & Gas, Chemical Processing, Pharmaceutical and Food Processing.



# 18

## TITANIUM

Titanium is a lightweight, high-strength metal known for its exceptional resistance to corrosion, making it highly valuable in industries that require materials capable of withstanding harsh environments. Although it is as strong as steel, titanium is 45% lighter, offering a unique balance of strength and weight. Titanium alloys retain their

### Types of Titanium

- Titanium Sheets and Plates
- Titanium Pipes and Tubes
- Titanium Pipe Fittings
- Titanium Flanges
- Titanium Round Plates

### Specifications and Features

Grade	Features
Grade 1 (UNS R50250)	High ductility, cold forming, corrosion resistance.
Grade 2 (UNS R50400)	Balanced strength, formability and widely used.
Grade 5 (Ti-6Al-4V, UNS R56400)	High strength, aerospace, marine, and industrial use.
Grade 23 (Ti-6Al-4V ELI, UNS R56401)	Extra-low interstitials, medical implants, biocompatibility.

### Applications

Aerospace, Medical, Marine, Chemical Processing, Power Generation and Sports and Consumer Goods.



# 19

## 17-4 PH ROUND BAR

17-4 PH stainless steel, also known as 1.4542 bar or AISI 630, is a precipitation-hardening martensitic stainless steel. This versatile material features copper and niobium/cobalt additions, offering a unique combination of high strength, hardness (up to 572°F / 300°C), and excellent corrosion resistance.

### Category and Details

Category	Details
Standard Compliance	AMS 5643R, DIN/EN 10088-3, AMS 5622, ASTM A564.
Heat Treatments	Solution Annealed, H900-H1150, P800-P1070.
Mechanical Strength	Yield strength up to 1100-1300 MPa.
Enhanced Properties	Improved strength, corrosion resistance and durability.

### Quality Assurance

All stainless steel products undergo strict inspections at each production stage, ensuring compliance with ASTM, ASME, MSS, DIN, EN, and JIS standards. For additional confidence, certified inspection agencies can verify material reports, dimensions, and overall product quality upon request.

### Applications

Aerospace, Chemical Processing, and Food Production.



## 20

# 254 SMO ROUND PIPES

We are a leading manufacturer, supplier, and exporter of Stainless Steel 254 SMO Pipes and Tubes, crafted from premium raw materials. 254 SMO, known for its high molybdenum content, is an austenitic stainless steel alloy that offers exceptional resistance to pitting and crevice corrosion.

<b>Specifications</b>	: ASTM A312, A213, / SA312, A213
<b>Dimensions</b>	: ASTM, ASME and API
<b>Schedule</b>	: SCH 10, SCH20, SCH30, SCH40, STD, SCH60, XS, SCH80, SCH120, SCH140, SCH160, XXS
<b>Wall Thickness</b>	: Schedule 5S – Schedule XXS.
<b>Size – Seamless 254 SMO Pipes &amp; Tubes</b>	: 1/2" NB – 24" NB
<b>ERW 254 SMO Pipes &amp; Tubes</b>	: 1/2" NB – 24" NB
<b>EFW 254 SMO Pipes &amp; Tubes</b>	: 6" NB – 100" NB
<b>Length</b>	: Single Random, Double Random & Cut Length.
<b>Types</b>	: Seamless / ERW / Welded / Fabricated / LSAW Pipes
<b>Form</b>	: Round, Square, Rectangular, Hydraulic Etc

## Equivalent Grades for Stainless Steel 254 SMO Pipe and Tube

STANDARD	WERKSTOFF NR.	UNS	AFNOR	SIS	EN
SS 254 SMO	1.4547	S31254	Z1 CNDU 20.18.06Az	2378	X1CrNiMoCu N20-18-7

 10/12, Shivtirth Building, 1st Floor, Off No. 104,  
Sindhi Lane, Mumbai- 400 004.

 +91 9870083265

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

 [www.riyaarthoverseas.com](http://www.riyaarthoverseas.com)