

MANUFACTURER & EXPORTER OF STAINLESS STEEL FITTINGS AND FLANGES

PED 2014-68-EU AD 2000 - Merkblatt WO
ISO 9001, ISO 14001, ISO 45001
Certified Manufacturing Unit



Introduction

Manufacturers of stainless Steel,
Carbon steel, Alloy steel &
High Nickel Alloy Flanges, Buttweld
Pipe Fittings, Outlet,
High Pressure Forges Fittings.

It gives us great pleasure to introduce our company, Rajendra Industrial Corporation (RIC) as specialists in the manufacturing of Flanges & Pipe Fittings for various industries like Petrochemical, Pharmaceutical, Chemical, Power Plants, Refinery, Heavy Engineering Units, etc.

RIC has carved an exclusive niche for itself in manufacture of Flanges & Pipe Fittings and we have already been a part of several prestigious projects of our esteemed clients. We also take pride in and specialising in developmental and custom-made jobs in the forging field. We have the ability as well as the capability to manufacture forged products as we know that there is a lot of potential for such jobs and we come under the category of those rare few manufacturers who have the technological knowledge and expertise to successfully execute these jobs. We have attached a brief work profile of some of the jobs that we have already carried out for our clients.

We earnestly request you to extend your support and cooperation to us so that we can endeavour to serve you better.

Thanks & Regards,
Vikas Doshi (CEO)

Quality Certifications



PED Certified
Directive 2014 / 68 / EU



ISO 9001 : 2015
Quality Management System



ISO 14001 : 2015
Environmental Management System



ISO 45001 : 2018
Occupational Health and Safety Assessment system

Materials Handled, Codes, TPI Agencies

Materials handled / Can be handled	Codes & standards followed	Worked with TPI agencies / Consultants
Stainless Steel (304/304L, 316/316L, 310, 317, 321, Duplex)	ASME / ANSI / DIN	Bureau Veritas India
Carbon Steel	ASME / ASTM / ANSI / DIN / MSS SP43	SGS India
Alloy Steel		Aker Kvaerner Powergas Pvt. Ltd.
		Tata Projects Ltd
Exotic Materials : Hastelloy, Inconel, Monel, Cupro-Nickel		Chemtex Global Engineers Pvt. Ltd

Material Sources, Outsourced and NDT Facilities

Major Raw Material Suppliers	Lab-testing Facilities	In-house NDT Facilities	Nature of work normally sub-contracted
Sheets / Plates / Coils – Jindal / Essar / Tata / Outokompu / Acerinox / Thyssen-Krupp	JewelMetallochem Laboratory	Positive Material Identification (PMI)	Heat Treatment of Special grades
	Geo-Chem International	Dye Penetrant Test	Forging of Large-size flanges
Pipes & Tubes – ISMT / MSL / Sumitomo / Sammi / Dongshin / V & M	TCR Engineering Services		NDT
	Metallurgical Services Pvt. Ltd.		Tata Projects Ltd.
Bars – Laxcon / Jindal / Mukand / Ambica / Facor	Industrial Inspection Services		Die Machining

FACILITIES

Details of Premises:

Factory Plot area	45,000 sft
Covered area	30,000 sft
Flooring	30,000 sft RCC flooring
Office area	1600 sft (G+1)
Working area	40,000 sft
Storage area	10,000 sft
Electric Power	160 hp (GEB)



Manufacturing

To stay competitive in today's global market, our manufacturing facilities continuously innovate, adopt new technologies, and optimize their processes to meet ever-changing customer demands and industry standards. We rely on advanced technology and automation to improve efficiency, productivity, and product quality.



Manpower

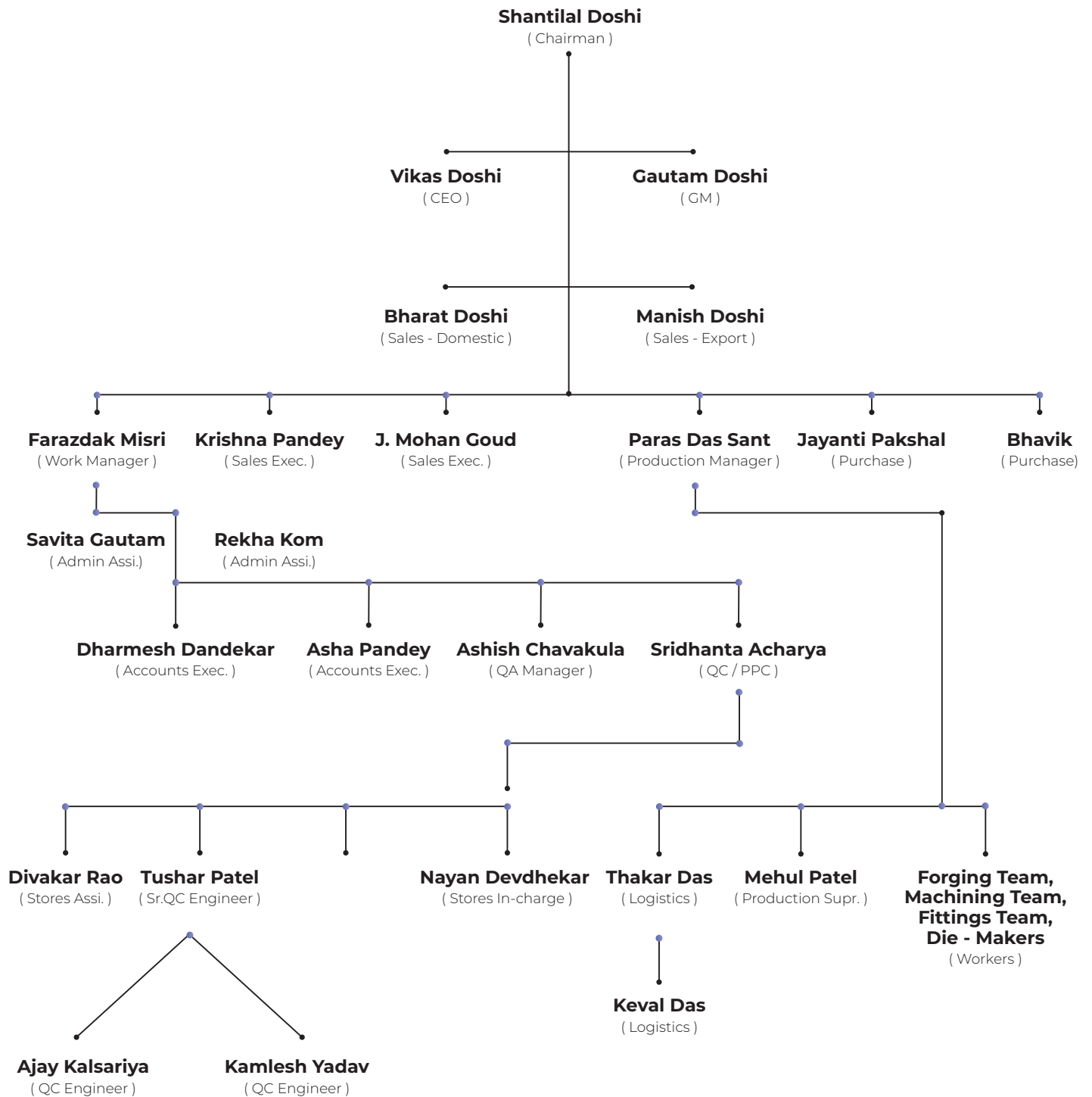
Staff (Administration)	6 nos
Staff (Production)	10 nos
Staff (QA / QC)	5 nos
Workers	70 nos
Manpower mobilization capacity	50 nos



LIST OF MACHINERY / EQUIPMENT

Sr. No.	Name of Machine	Capacity / Size	Quantity
01	ACE CNC Lathe Super Jobber 500	200 mm 4-jaw ; 250 mm 3-jaw	5 nos.
02	JYOTI CNC Milling PX-10		2 nos.
03	UTM (FIE make) UTE-40	400 KN	1 nos.
03a	Electronic Extensometer (FIE make)	Gauge Length : 25 and 50 mm	1 nos.
04	Hardness Tester RAB250	Rockwell cum Brinell	1 nos.
05	PMI (Bruker make)		1 nos.
06	Forging Hammer	1.25 MT	1 nos.
07	Trimming Press	200 tons	1 nos.
08	Oil-fired Furnace		1 nos.
09	SS ERW Tube Mill	Up to 4"	1 nos.
10	Electric Furnace	40 kw	1 nos.
11	Coal-fired Furnace		1 nos.
12	Electric Induction Furnace	40 kw	3 nos.
13	Cooling Tower		1 nos.
14	Hydraulic Press	300 MT / 150 MT	2 nos.
15	Air Compressor	10.5 kg/cm ² g	2 nos.
16	Lathe Machine (Heavy)	Bed L=4'-10"; Ctr. H=12"	9 nos
17	Lathe Machine (Medium)	Bed L=3'-3"; Ctr. H=9"	2 nos
18	Lathe Machine (Light)	Bed L=3'; Ctr. H=7"	5 nos.
19	Pillar Drill	38 mm	4 nos.
20	Band Saw Machine	Ø 200 mm	3 nos.
21	Hacksaw Machine	Up to 200 mm	1 no.
22	Pipe cutting Machine	Up to 200 mm	1 no.
23	Slitting Machine	12"	1 no.
24	Bench Grinder	8" Wheel	3 nos.
25	Ultrasonic Cleaning Machine		1 no.
26	Buffing Machine (fixed)		1 no.
27	Buffing Machine (portable)		1 no.
28	ID Marking Machine	Up to 8" NB	1 no.
29	ID Etching Machine		1 no.

ORGANISATION CHART



Flanges



Flanges are mechanical components used to connect pipes, valves, pumps, and other equipment in a piping system. They provide an easy access point for cleaning, inspection, or modification of the system. Flanges usually consist of a flat, circular disk with bolt holes around the perimeter, which allows them to be securely fastened together with bolts or studs. There are various types of flanges, including weld neck, slip-on, socket weld, threaded, lap joint, and blind flanges. Each type serves a specific purpose and is suitable for different applications depending on factors like pressure, temperature, and the materials being transported through the piping system.

Types of Flanges



Slipon Without Collar



Slipon With Collar



Weldneck



Blind



Socketweld



Lapjoint



Screwed



Tongue & Groove



Orifice



Spectacle Blind



Ring Joint



Long Weld Neck

Stainless Steel Flanges

Specification: ASTM A182 / A240 & ASME SA182 / SA240. : 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316TI, 316H, 316L, 316LN, 317, 317L, 321, 321H, 347, 347H, 904L etc.

Alloy Steel Flanges

Specification: ASTM / ASME A182 F1 / F5 / F9 / F11 / F22 / F91 etc.

High Nickel Alloys Flanges

Duplex Steel, Inconel, Monel, Hastelloy, Cupro Nickel, Alloy 20, Titanium etc

Class / Pressure

150#, 300#, 600#, 900#, 1500#, 2500#. PN6, PN10, PN16, PN25, PN40, PN64 etc. Table "D", "E", "F", "H" and as per drawings etc.

Carbon Steel Flanges

Specification: ASTM A105 / A350 LF2, ASME SA105, A694 – F42, F46, F52, F60, F65, F70, A36, A516 Gr. 70, etc.

Mild Steel Flanges

Specification: IS 2062 plate flanges etc.

Mild Steel Flanges

Specification: IS 2062 plate flanges etc.

Dimensions

ANSI/ASME B16.5, B 16.47 Series A & B, B16.48, BS4504, BS 10, EN-1092, DIN, etc.

Buttweld - Pipe Fittings



Buttweld pipe fittings are a type of fittings used in piping systems to change the direction, branch off, or mechanically connect pipes. They are designed with beveled ends that allow for a secure and leak-proof connection by welding the fitting directly to the pipe. This method of joining pipes creates a smooth and continuous flow path, minimizing turbulence and pressure losses in the system. They are available in various shapes and sizes to accommodate different system requirements.

Types of Buttweld - Pipe Fittings



90° Elbows



45° Elbows



U Bend



Piggable Bend



Reducers



Pressed Stubend
Weldings Collars



Tee



4 - Way Cross



Stubends



Caps



45° Laterals



Barrel Nipple

Stainless Steel Buttweld Pipe Fittings

Specification: ASTM A403 & ASME SA403, 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316TI, 316H, 316L, 316LN, 317, 317L, 321, 321H, 347, 347H, 904L etc.

Alloy Steel Buttweld Pipe Fittings

Specification: ASTM / ASME A234 P1 / P5 / P9 / P11 / P22 / P91 etc.

Size

Seamless ½" to 24", Welded ½" to 24", Two Joint / Two Halve Fittings 6" to 48"

Thickness

Sch 5, 10, 20, 40, STD, 60, 80, XS, 100, 120, 140, 160 Sch XXS.

Carbon Steel Flanges Pipe Fittings

Specification: ASTM / ASME A234 / A420 WPL3 / A420 WPL6 / A860 – MSS-SP-75 WPHY 42 / 46 / 52 / 56 / 60 / 65 / 70 etc.

High Nickel Alloys Buttweld Pipe Fittings

Duplex Steel, Inconel, Monel, Hastelloy, Cupro Nickel, Alloy 20, Titanium etc.

Dimensions

ANSI / ASME B16.9, B16.28, MSS-SP-43.

Type

Seamless , Welded , Two Halves/Two Joint, Branchweld, Fabricated etc.

High Pressure Forged Fittings Socketweld & Threaded



High pressure forged fittings are a type of pipe fittings that are used in high-pressure piping systems. They are made by forging a solid piece of metal into the desired shape and size, which gives them exceptional strength and durability. High pressure forged fittings are commonly used in industries such as oil and gas, chemical processing, and power generation. They are designed to withstand extreme pressure and temperature conditions, making them suitable for use in high-pressure piping systems. These fittings come in a variety of types, including elbows, tees, couplings, caps, plugs, and crosses.

Taypes of High Pressure Forged Fittings Socketweld & Threaded



90° Elbows



45° Elbows



Tee



4-way Cross



Couplings



Street Elbows



End Cap



Plug & Bushing



Hex Nipple



Union



Hose Nipple



Welding Boss

Stainless Steel High Pressure Forged Fittings

Specification: ASTM / ASME A182 / SA182, 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316TI, 316H, 316L, 316LN, 317, 317L, 321, 321H, 347, 347H, 904L etc.

Alloy Steel High Pressure Forged Fittings

Specification: ASTM / ASME A 182 GR F 5, F 9, F 11, F 12, F 22, F 91.

Class / Pressure

2000#, 3000#, 6000#, 9000#, etc.

Carbon Steel High Pressure Forged Fittings

Specification: ASTM / ASME A105 / SA105, ASTM A350 LF2, A694 – F42, F46, F52, F60, F65, F70, etc.

High Nickel Alloys High Pressure Forged Fittings

Duplex Steel, Inconel, Monel, Hastelloy, Cupro Nickel, Alloy 20, Titanium etc.

Dimensions

ANSI / ASME B16.11 & BS3799, etc.

Welding Outlets



Welding Outlets are a type of pipe fittings that are used to provide a branch connection to a main pipeline. They are essentially a combination of a fitting and a flange, with a branch connection that can be welded onto the main pipe. Outlets are designed to provide a leak-proof and strong connection, and are commonly used in piping systems for various industries such as oil and gas, chemical processing, and power generation. Outlets are available in different types, including Welding Outlet, Socket weld Outlet, Threaded Outlet, Lateral Outlet, and Elbow Outlet. Each type of outlet is designed to suit different piping configurations and applications.

Types of Welding Outlets



Welding Outlet



Socket weld Outlet



Lateral Outlet



Threaded Outlet



Sweep Outlet



Nippal Outlet



Swage Nipple



Elbow Outlet

Stainless Steel Outlets

Specification: ASTM / ASME A182 / SA182, 304, 304L, 304H, 309S, 309H, 310S, 310H, 316, 316TI, 316H, 316L, 316LN, 317, 317L, 321, 321H, 347, 347H, A403, 904L etc.

Carbon Steel Outlets

Specification: ASTM / ASME A105 / SA105, ASTM A350 LF2, A234, A420, A694 – F42, F46, F52, F60, F65, F70.

Alloy Steel Outlets

ASTM / ASME A 182 GR F 5, F 9, F 11, F 12, F 22, F 91.

High Nickel Alloys Outlets

Duplex Steel, Inconel, Monel, Hastelloy, Cupro Nickel, Alloy 20, Titanium etc.

Dimensions

MSS SP 97



STANDARD QA / QC PROCEDURE

- All raw materials are purchased from reputed and reliable vendors and with corresponding Mill Test Certificates.
- Materials are received at stores and checked on arrival for quantity & quality by the Stores In-charge & QA Engineer and recorded in Incoming Inspection Register. Random samples are sent to NABL approved labs for checking. Then the Mill TC is cross-checked with the reports from the labs and if the supply is not as per requirement, the vendor is duly informed of the rejection and its cause. Thereafter, the rejected material is sent back to the supplier.
- Prior to manufacturing, each item is stamped with the relevant Heat no. and stock book is updated against the issue of such materials.
- Product realization starts. Workshop Supervisor receives the drawings / instructions in the form of job sheet, specifications for processing from the Production Manager, and he allots the necessary manpower and monitors the daily production activities. Only trained and competent manpower is deployed for product realization.
- Forging Dies are checked regularly and oversized dies are repaired or replaced as required.
- Stage-wise visual inspection is carried out during the manufacturing process to check that the products are free from cracks or any other deformities.
- Internal inspection reports for 100% of the production quantity are prepared after finished goods reaches back to the stores. Dimensions and tolerances are scrutinised closely to ensure that they are within permissible limits.
- QA Engineer carries out the inspection and testing and all relevant records are kept in designated files. Non-conforming products are recorded.
- A few samples from each lot are sent to NABL approved labs for analysing the physical and chemical properties. After receipt of satisfactory reports, the finished goods are duly marked and stored in the designated storage areas.
- Data on utilized manpower, consumables, product quality, and wastage of raw material / consumables is recorded. Analysis of data is carried out, recorded and reviewed periodically.
- Periodical calibration of monitoring and measuring devices is carried out and recorded.

For WPW & ERW Fittings:

- Welder is qualified by a reputed consultant or TPI.
- V-groove preparation is done and checked for correctness before releasing for welding.
- Welding is carried out by TIG method using relevant filler wire.
- After root run, back chipping is done and checked by DP test.
- The product is then solution annealed
- Finally, radiography is carried out.



RAJENDRA
INDUSTRIAL CORPORATION

- +91 9867249161
- sales@rajendrafittings.com
- + (91)-(22)-23857169/66362120
- www.rajendrafittings.com

- 97/99, Shiv Vilas Building, 2nd Pathan Street,
5th Kumbharwada, Mumbai - 400 004, India
- Rajendra Industrial Corporation Plot No. 199/6
& L605, GIDC, Umbergaon- 396 171 (Gujarat) India