



# PRODUCT CATALOGUE 2024

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

## Business

ISO 9001:2015 & PED certified  
Manufacturer and Distributor for  
the Standard and Custom Steel  
Forged Flanges and Fittings.



# ABOUT US

We Viraj Forge are please to introduce ourselves as ISO 9001:2015 and PED Certified Company engaged in manufacturing and distribution of Steel Forged Flanges and Fittings for both the domestic and International markets as per ASME, ANSI, API, DIN, JIS, BS, EN, AFNOR, AWWA, GOST, MSS, UNI standards. We procure the best steel and use state-of-the-art machinery resulting in better quality forged flanges and Fittings. Exhaustive quality checks are done at every stage right from conception, designing and manufacturing ensuring high accuracy in terms of composition, mechanical properties, dimensions and delivery. We are also capable to provide special custom forgings as per our customers' drawings and specifications. Our products consist of ASTM/ASME SA 304,304L, 316,316 L, Duplex, Super Duplex, Nickel Alloy, carbon steel and Alloy steel.



## Why Us?

### Top-quality and safety

At Viraj Forge quality means providing only the best goods and facilities to its clients. We believe in the principle of 'Zero Error' manufacturing. We align all our resources and intrinsic values towards achieving this objective.

### Dynamic development

We aspire to boost innovations and share our youthful passion in our work in order to create a lasting impact in all spectrums. We expect to embrace new emerging trends and developments rapidly and to make a difference in the innovation of steel

### Prompt services

We pride ourselves on delivering professional and timely service. We race against the clock to meet all of your needs well before the deadline

### Designing and Engineering

Our full-fledged Engineering department is made up of highly technical people who are trained with the most up-to-date tools and machinery to undertake even the most challenging jobs.

### Flexibility

We are always looking for ways we can serve the customer better, never hesitating to adjust according to the customer's requirements. Client satisfaction and retention are some of our core values that drive our service

# INFRASTRUCTRE

At Viraj Forge we have set up sound infrastructure with upgraded machinery having annual manufacturing capacity of 5000MT and Standard Testing facility located at Plot no 15 Gut No 329 Village Hamrapur Manor Wada Road Taluka Wada dist Palghar -421303 and Warehouse at Sewri.

**Machinery:** Band Saw (Raw Material Cutting Machine), Heat Treatment Machine (furnace), Forging Hammer, Lathe Machine, CNC Machine, VMC (Drilling machine), Marking Machine.





# CERTIFICATIONS & APPROVALS



UDYAM-19-063210

**UDYAM REGISTRATION CERTIFICATE**

UDYAM REGISTRATION NUMBER: UDYAM-MH-19-063210

NAME OF ENTERPRISE: VIRAJ FORGE INDUSTRIES

TYPE OF ENTERPRISE: MANUFACTURING

MAJOR ACTIVITY: MANUFACTURING

SOCIAL CATEGORY OF ENTREPRENEUR: GENERAL

NAME OF UNIT(S): VIRAJ FORGE INDUSTRIES

OFFICIAL ADDRESS OF ENTERPRISE: Plot No. 15, Gul No. 325, Village - Hamrapur Marer, Wada Road, Takala-Wada, Dist. Palghar - 421 303, Maharashtra, India

DATE OF INCORPORATION / REGISTRATION OF ENTERPRISE: 27.08.2021

DATE OF COMMENCEMENT OF PRODUCTION/BUSINESS: 27.08.2021

NATIONAL INDUSTRY CLASSIFICATION CODE(S): 24

DATE OF UDYAM REGISTRATION: 25.05.2021

**IRCLASS INSPECTION RELEASE NOTE**

Client: M/S. JHE India Ltd. 222 No. 205, Capital Plot No. C-5, 10 Barve Road, Wagle Estate, Thane (W) - 400 604, Maharashtra.

Client PO No. (On IRCLASS): Not Available at the time of inspection

End User/Project: M/S. Indian Oil Corporation Limited, Project - HCL & CO2 (HYDROGEN INFRASTRUCTURE FOR HCL 160)

Inspection Location: M/S. Viraj Forge Industries, Shop No. 17, 6th Flr, School Building, 3rd Kumbheshwar, Mumbai 400005

Material Vendor Name: M/S. Viraj Forge Industries, Ground Floor, 10/11, Plot No. 216, Dwarach Compound Khewadi, 10th Khewadi, Gangan Mumbai City-420004 Maharashtra India

Sub Vendor Name: Not Applicable

Main Vendor PO No & Date: M/015-PO-10230548 DTD 08.11.2021

Sub Order PO No & Date: Not Applicable

Final Inspection Report No & Date: MUM/03/198-292 Dtd 23/11/2021 & MUM/03/SP- Dtd 24/11/2021

Client Specific Additional Information (If any): NR.

Reference Documents: (List down for every document - Reference numbers, drawings, drawings, Procedures, etc.)

Doc. Number	Rev. No.	Date	Approved By	Document Supplied By
PO	M/015-PO-10230548	08.11.2021	M/S. JHE India Ltd	M/S. JHE India Ltd
Inspection And Test Plan for Flanges	M/03/0035-ITP-001 Page 12 of 15	05/06/21	M/S. JHE India Ltd	M/S. JHE India Ltd

Details of items offered for inspection (Table format to be changed as per item description requirements)

Sl. No.	Item Description	Identification (Lot/Serial No.)	UOQ	PO Qty	Offered Qty	Accepted Qty
1	FLANGE SOCKET WELD FLANGE 3/4" B16.5 150# A182 F304L B16.5 SW-4T NOUN	Heat No. VT-045	100	100	100	100
2	FLANGE BLIND FLANGE 3/4" 150# A182 F304L B16.5 BL-4T NOUN	Heat No. VT-045	100	100	100	100
3	FLANGE SOCKET WELD FLANGE 1 1/2" B16.5 150# A182 F304L B16.5 SW-4T NOUN	Heat No. VT-045	100	100	100	100

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# Product Grades and Specifications

Catering your specific requirement

STAINLESS STEEL GRADE	
ASTM	304/304L, 316/316L, 316Ti, 321, 304H, 316H, 317L, 347, 347H, 904L410, 420, 430F, 431, 17-4PH and more
EN	1.4307, 1.4404, 1.4571, 1.4541, 1.4021, 1.4104, 1.4057, 1.4542 and more
DUPLEX & SPECIAL   NICKEL ALLOYS	
DUPLEX	F51 / F60 (2205), 1.4462, F53 (2507), 1.4410, F55, F44
NICKLE ALLOY	600, 625, 718, 800 H/HT, 825, Alloy 20, Alloy22, Alloy 400, Alloy C276
CARBON STEEL	
A105, SA266, LF2, LF3, EN8, EN9 and more	
ALLOY STEEL & MICROALLOY	
EN19, EN24, EN26, 4130, 4340, 4140, 8620, 8630, F1, F5, F9, F11, F22, F91, F6NM, 42CrMo4, 16Mo3, 25CrMo4, 30CrNiMo8, 10725 AB/BU, 10705 MBU, 10725 BA, C70S6, 20MnCr5, 38MnVS6	
TITANIUM   ALUMINIUM ALLOYS	
Ti	Ti-6AL-4V, Ti-6AL-1.5 Mo-1.5V / Ti-6AL-6V-2Sn
AL	AL - AA2014, AA2219



# PRODUCT SPECIFICATION

Catering your specific requirement

**Standard Specification as per** ASTM, EN, DIN, JIS, BS, ASME, NACE, QQS, AFNOR and customized as per customers drawings.

STANDARD	TYPES
ASME/ANSI B16.5	Welding Neck Flange, Slipon Flange, Blind Flange, High Hub Blind Flange, Socket Weld, Flange, Lap Joint Flange, Threaded Flange, Long Weldneck Flange
Pressure Class	150, 300, 400, 600, 900, 1500, 2500
Flanges bore schedules	S5S, S10, S10S, S20, S30, S40, S40S, S60, S80, S80S, S100, S120, S140, S160, STD, XS, XXS
ASME/ANSI B16.47	Welding Neck Flange, Blind Flange (Series A & B)
Pressure Class	75, 150, 300, 400, 600, 900
ASME/ANSI B16.36	(Orifice Flanges) Welding Neck Flange, Slipon Flange, Threaded Flange
Pressure Class	300, 400, 600, 900, 1500, 2500
JIS B2220/B2291	Welding Neck Flange, Slipon Hub Flange, Slipon Plate Flange, Shut off Flange
Pressure Class	5k, 10k, 16k, 20k, 30k
BS4504	Welding Neck Flange, Hubbed Slipon Flange, Hubbed Threaded Flange, Lapped Pipe End Flange, Plate Flange, Loose Plate Flange, Loose Plate with Weld-neck Flange, Blank Flange
Pressure Class	PN 2.5 To PN 400
ASME/ANSI B16.9 / MSS SP-43	Stub End Size Range: 1/2" to 24"
DIN Flanges / EN- 1092-1	DIN2527, DIN2566, DIN2573, DIN2576, DIN2641, DIN2642, DIN2655, DIN2656, DIN2627, DIN2628, DIN2629, DIN2631, DIN2632, DIN2633, DIN2634, DIN2635, DIN2636, DIN2637, DIN2638, DIN2673
ASME/ANSI B16.48 API 590	Figure 8 - Spectacle Blind
AWWA - C 207	Slip on Flange, Blind Flange, Ring



# Products

**Flanges Type:** Weld Neck, Lap joint, Slip-on, Blind, Threaded, Socket Welding, Orifice, Spectacle Blind, Long Weld Necks, Stub Ends, Custom Flanges.

**Flange Facing Type:** Flat face, Raised face, Large Raised face, Ring joint, Tongue & Groove face (large & small), Male-Female face.

**Flange Face Finish:** Stock Finish serration, Spiral or Phonographic Serration, concentric Serration, Smooth Finish.



BLIND FLANGE



WNRF



SOCKET WELD FLANGE



THREADED FLANGE



LAP JOINT FLANGE



SLIPON FLANGE



ORIFICE FLANGE

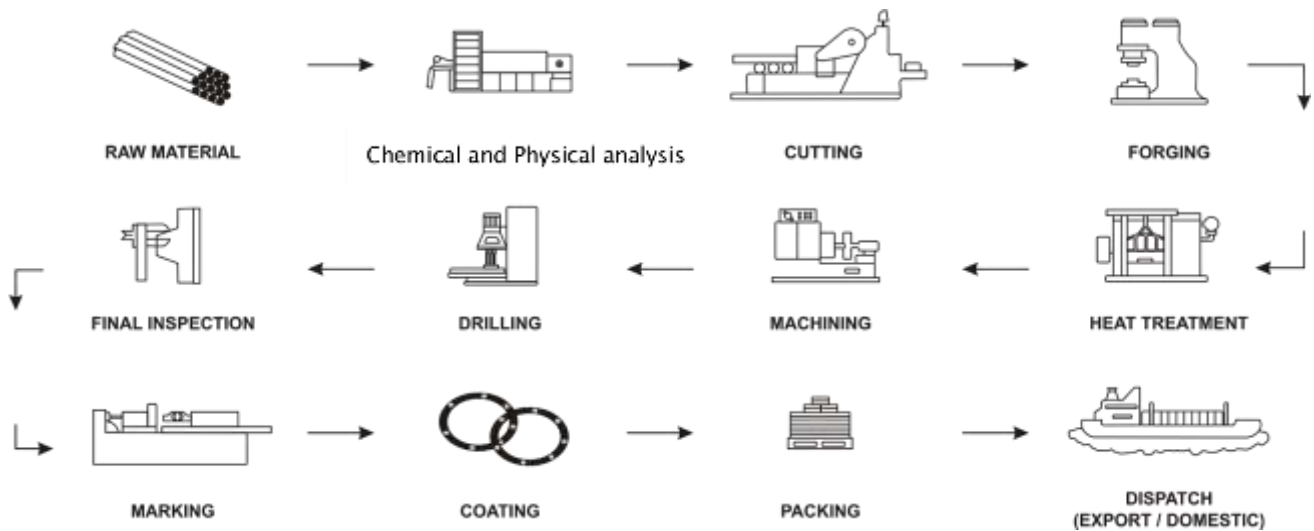


SPECTACLE BLIND FLANGE



STUB END

# Manufacturing Process



## Constant Technology Upgradation

### Our flanges connect the world

Strongly believing in constant innovation and technologically upgradation at Fortune Stainless Steel. We make use of the latest techniques to manufacture a wide range of Forged Flanges in both semi-finished as well as fully finished condition. We also customize our flanges as per the specifications of our clients and make sure that these are superior in quality.





# Delivering High Quality

At Viraj Forge we believe in delivery the quality, hence we do not compromise in Quality of production at any stage.

## ❖ Inspection Stage 1: Raw material Inspection

- Chemical & Mechanical Properties
- Surface Quality
- PMI

## ❖ Inspection Stage 2: In Process Inspection

- Dimensional properties such as tolerance, lobbing, out-of-roundness, straightness & length.
- In process Mechanical Properties such as Tensile, Elongation, Yield, Reduction of Area, Hardness
- Ultrasonic Test (UT)

## ❖ Inspection Stage 3: Finished Good Inspection

- Surface Finish
- Final Mechanical Properties
- Mercury Contamination, Macro and Micro Properties, Inter Granular Impact and Corrosion Properties
- Magnetic Particles Inspection/ Dye Penetrant Test
- Packaging, Colour Coding and Marking

**Material Test Certificate MTC as per EN10204 3.1 / 3.2**



# Quality assurance

## The Epitome of Quality

**Quality** is our prime concern. We are able to maintain high quality standards through our committed personnel and sound infrastructure. We ensure that finest quality material is used for our products. For ensure the quality of each material, we are providing Materials Test Certificate along with supply. Our team of experts maintain a vigil on the quality of the products. Every single piece is attached with test certificates and reports. We are continually improving our quality to serve our clients better.

### Quality Objectives:

**We consider three elements to be essential for the overall quality of the company services:**

- Independence & Objectivity.
- Technical & Scientific Quality.
- Practical Benefits to Clients.

### Quality Control:

We exercise stringent quality control measures for ensuring the accurate dimensions and mechanical properties of our products. Our quality assurance system assures each product to pass through following processes and quality systems:

- Certification and Supplementary Test
- Finishing and Marketing.
- The impeccable quality standards of our product range as well as services have contributed immensely to the success of our company.
- Material Control System
- Machining and Dimensional Control
- Process Control System

### Our Quality Standards:

The bitterness of poor quality remains long after low pricing is forgotten. So, we follow strong measure of quality checking. Understanding Customers requirement and ensuring to supply as per these requirements is realized with the help of Quality Assurance and Quality Control at Viraj Forge Across the entire business chain of supplies, operations and marketing appropriate quality assurance systems are in place to ensure correctness at each step of the cycle.

In our philosophy, quality is not only the durability and defect free nature of product but its utility and applicability to satisfy the sole purpose for which it was bought. Thus, we are committed to produce products, which can satisfy different requirements and purposes. We have adopted stringent quality control measures to ensure superior quality and zero defects products. Quality is checked at different stages of production and supply and the raw material we use is sourced only from reliable and established vendors



# Application in Diverse Industries

## Application Industries

- ❖ Aerospace
- ❖ Automobile
- ❖ Construction Equipment
- ❖ Defence
- ❖ Earth Moving Equipment
- ❖ Fertilizers
- ❖ General Engineering
- ❖ Heat Exchanger
- ❖ Nuclear Power
- ❖ Oil & Gas
- ❖ Petrochemical
- ❖ Pressure Vessels
- ❖ Railway
- ❖ Thermal Power
- ❖ Valves
- ❖ Wind Energy
- ❖ Pharmaceutical
- ❖ Dairy & Sugar Mill
- ❖ Cement Industries



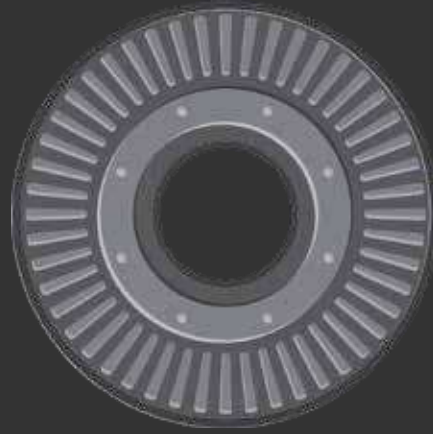
## Packaging

Protect raised face and bevel end with plastic protection caps and use well fumigated plywood boxes for shipment.



\*Plywood Box packing is only done for export orders and as per customer requirement.





**VIRAJ FORGE & FITTINGS PVT LTD**

**MANUFACTURERS OF FORGED FLANGES FORGED  
FITTINGS & BW PIPE FITTINGS**

Being Revolutionary

**GET IN TOUCH**



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<http://www.virajforge.com>

CIN -U46699MH2024PTC436607

GST NO 27AAKCV6210G1ZB



Office-9/A Floor Plot No 124/138  
Surya Darshan Sant Sent maharaj  
Marg Girgaon Mumbai-400004

Manufacturing plant Plot No 15 Gut No 329 Village Hamrapur  
Manor Wada Road Taluka-Wada District Palghar Pin  
Code -421303 | INDIA MOB- 09833018600