

## FLANGE MANUFACTURING STANDARDS

- ASME B16.5
- ASME B16.47 SR A & B
- ASME B16.48
- MSS SP44
- API 605
- ASME B16.36 Orifice Flanges
- AWWA C207/C228
- EN 1092-1
- ISO 7005-1
- BS 4504
- JIS

## MATERIAL SPECIFICATION

- CARBON STEELS**  
SA / A105, A350LF2, SA266 CL-1, 2, 3&4, S355J2G3, A694F52, F60, F65
- STAINLESS STEELS**  
SA / A 182F304/L, F316/L, 321, F347, F317L
- DUPLEX & SUPER DUPLEX STAINLESS STEELS**  
SA / A182 F51, F60, F53, F55
- HIGH NICKEL BASED SPECIAL STEELS**  
Monel K400/500, Inconel 800,825,600,625, Alloy 20, Hastelloy C-276,
- ALLOY STEELS**  
SA / A182 F5, F11, F9, F22, F91,

## QUALITY & ENVIRONMENT

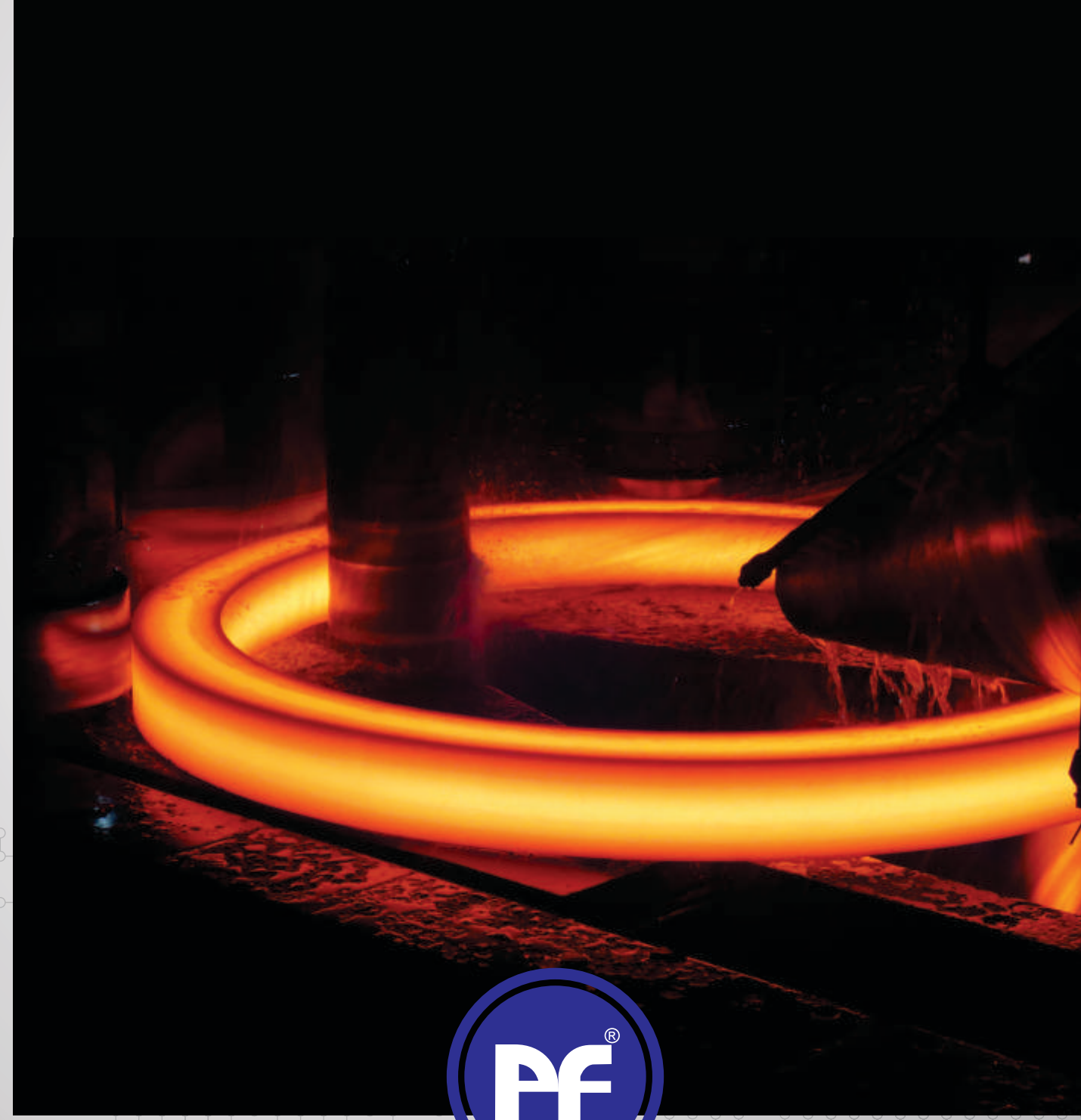
Our quality management system assures quality of highest standard and produces forgings in accordance with a variety of national and international standards, in line with specific customer specifications & requirements. All manufacturing processes are subject to strict quality control measures. A wide spectrum of different inspection and test procedures are applied to measure the quality of the products. Implementation of a strict quality system right from purchasing through production to delivery is maintained.

We strive to manufacture products of the highest quality standards. And In pursuit of achieving it, today we have become a reputed brand in the products that we cater to our worldwide and domestic clients.

The management system of has been certified by TUV NORD as per ISO 9001:2015, ISO 14001:2015, BS OHSAS 18001:2007

The compliance to the above Quality, Safety and Environmental Management Systems as well as the applicable legal requirements help us continuously improve the effectiveness and efficiency of processes by Promoting the optimization in the use of resources to minimize environmental impact and prevent pollution.

Being conscious of our responsibility to minimize environmental impact, we constantly implement the use of all resources in an efficient manner and strive to acquire friendly technologies and establish controls which help us in keeping the environment clean.



# PARAMOUNT FORGE

UNIT - I 99/100, 260/263, JAWAHAR INDUSTRIAL ESTATE, VILLAGE KAMOTHE - 410 209,  
PANVEL (DIST. RAIGADH) | TEL: 022 2743 0301 / 2743 5058 | FAX : 2743 0802

UNIT - II PLOT NO. 32/11, 32/5, 32/4D, SAVROLI-KHARPADA ROAD, VILLAGE DHAMNI,  
TAL.KHALAPUR, DIST RAIGAD - 410 202 | TEL: 02192 - 274072

REGD OFF. 1 & 3, GURU HIMMAT, GR.FLOOR, 140 DR. MASCARENHAS ROAD, MAZGAON,  
MUMBAI - 400 010. | TEL - 022- 23732656, 23780007 | FAX - 022 -23732657

Bricks and Clicks +91-98700 08628



# PARAMOUNT FORGE

*Passion For Excellence*



## OVERVIEW

Paramount Forge, established in 1996, is now among India's leading manufacturers of steel forgings, Equipped with modern facilities and a highly qualified workforce, Paramount Forge offers a wide range of Forged Products in compliance with highest standards in quality and productivity catering to the extensive needs of the Petrochemical, Oil & Gas, Nuclear, Power & other Heavy Engineering sectors.

As time has progressed, we have successfully modernized our existing Closed Die manufacturing plant & successfully set up a New Ring Rolling Facility which further increases our Production capacities & capabilities. This now includes a wide range of Products Including Flanges, Non-standard Forgings, Valve Components, Gear Rings & Blanks, Bearing Races, Slew Rings, Turbine Rings, & other Customized Forgings in all grades of Carbon, Alloy, Stainless, Duplex, and Super Duplex & Other Nickel Alloy based materials. The manufacturing plants are geared to manufacture with high productivity and precision followed by stringent quality control measures, managed by a group of professionals having extensive experience in various fields of management & engineering which is backed up by highly motivated workforce. The plant is certified under ISO 9001-2008, ISO 14001-2004 and BS OHSAS 18001-2007.

## MANUFACTURING CAPABILITIES

Over the years, at Paramount Forge we've invested in a vast array of machinery to increase and diversify our production capabilities. Today, we are able to manufacture & supply forged components weighing from 1 Kg up to 4 metric tons in rough or finish-machined condition.

Paramount Forge produces using the conventional Closed Die, Open & Automated Ring Rolling Processes in manufacturing. Having a highly experienced Team, The manufacturing plants cater to a wide range of Products of various sizes in accordance with international standards and Customer demands.

## SAWING

Having a wide range of band-saws right from Automatic to Semi-Automatic, the machines are capable of cutting all kinds of sections right from 5 mm to 1000mm in all grades of Carbon, Stainless & Alloy Steels

## FORGING

### A. CLOSED DIE FORGING FACILITY

Our Closed Die Forging Plant shop is equipped with two pneumatic air hammers 2T and 5T and a Drop Forge Hammer of capacity 1.5MT which are capable of producing single piece forgings weighing up to 120 Kgs.

### B. RING ROLLING FACILITY

The facility is equipped with an Automated 3500T Hydraulic Blanking Press producing a verity of forging sections such as crane wheels, industrial wheels, sheave wheels, gear blanks, blocks and other products, A Radial Axial Ring Rolling Mill which is capable of forging Seamless rolled rings up to a diameter of 3600mm, a height of up to 750mm and a weight of up to 5 MT.

## HEAT TREATMENT

The Forging plant is equipped with a fully automated state-of-the-art Heat Treatment facility having a sophisticated system with advanced Quenching systems that use both water and polymer quenching for increased flexibility and allowing all kinds of heat treatments such as Normalizing, Quenching & Tempering, Hardening, Solution Annealing, Annealing, Stress relieving and Spheroidize Annealing processes which give forgings the required mechanical properties and microstructural features.

## TESTING / INSPECTION

### MECHANICAL, CHEMICAL & METALLOGRAPHIC TESTS ARE CARRIED OUT AS UNDER,

- Tensile, Impact & Hardness.
- Chemical analysis & PMI.
- Microstructure & ferrite content.
- Intergranular Corrosion Tests.
- Pitting Corrosion.
- Tests by approved NABL accredited LABS.

### FOLLOWING NDT TESTS ARE CARRIED OUT BY ASNT LEVEL II TECHNICIANS:

- Ultrasonic Testing.
- Magnetic Particle Testing (wet fluorescent and dry).
- Liquid Penetrant Testing

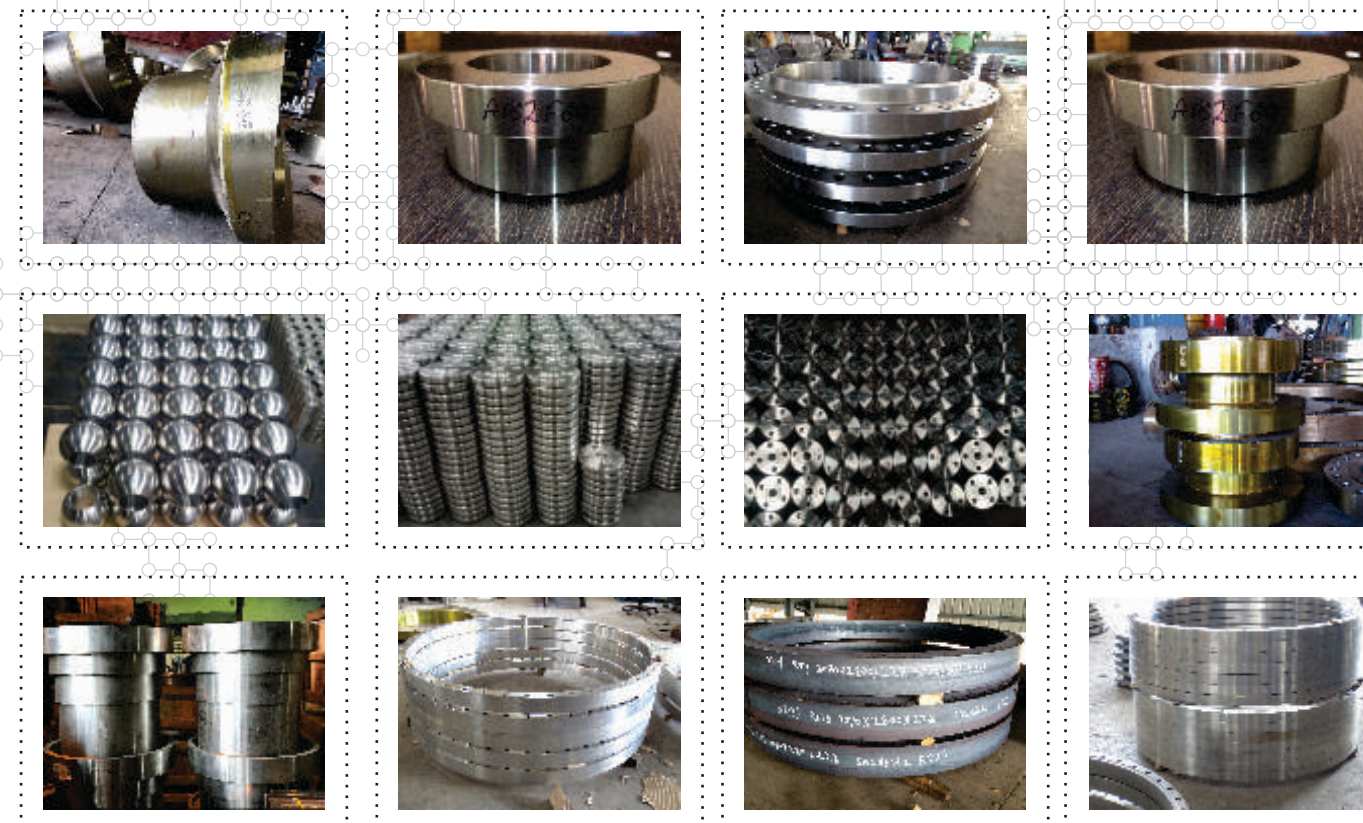
## MACHINING

At Paramount we access all conventional & modern advanced Technology for the further machine processing of forgings as well as surface finishing with highly precise production pa-rameters for all kinds of products made at the Facility.

Today we have a well-equipped machine shop with a wide range of CNC machines, Vertical & Horizontal lathes, milling, boring, deep drilling machines, Turn Mill centers, and multi-axis machining center enabling us to provide the necessary accuracies and mass productivity to a large range of products. This in turn helps on quicker and more responsive deliveries.



## PRODUCT RANGE



### FORGED FLANGES

Manufacturing Range: Sizes ½" to 144"

Weld Neck, Slip-On, Blind, Lap Joint, Threaded, Socket Welding, Reducing Flanges, Long Weld-Neck, Orifice Flanges, Spectacle Blinds, Spacers, Spades & Drip Rings.

### SEAMLESS ROLLED RINGS / GIRTH FLANGES / GEAR RINGS / SLEW RINGS / TURBINE RINGS / TOWER FLANGES / TYRE RINGS

Maximum OD 3600 mm  
Max height 700mm  
Max Weight 4000 kg  
Rectangular & Profiled

### FORGED BLANKS / TUBE SHEETS / FORGED BLOCKS

Maximum OD 1800 mm  
Max Weight 4000 kg

### HOLLOW BODY FORGINGS / SELF RE-INFORCED NOZZLES / VALVE BODY / ADAP-TORS / TRUNNION PLATES / STEM HOUSING / BALL / BONNETS / SEAT RINGS

Maximum OD 3000 mm  
Max height 700mm  
Max Weight 4000 kg