

# FORGINGS WITH QUALITY YOU CAN TRUST



ISO TS 16949:2002, ISO 9001:2000, ISO 14001:2004, ISO 18001:2007  
Company Certified by TUV, Rheinland & IBR Approved "Well known Forge Shop"

## Company

Vinir Engineering is one of the leading manufacturers of quality forgings & machined parts in Carbon steel, Alloy steel, Stainless steel & other special steels. Since establishment in the year 1985, the company is being led prominently by Mr. N C Gupta - a technocrat, having gained immense experience out of his career at Larsen & Turbo and Wyman Gordon Forge, USA & promoted by our two directors Mr. Nitesh Gupta & Mr. Ritesh Gupta.

- Established in 1985 with 40 employees & 600 tons capacity / annum
- Currently operating with 400 employees & 24000 tons capacity / annum
- Acquisitions down the lane had lead to a plant area of 300,000 square feet in two locations
- State of art facility with a wide range of products with all process from Die designing till fully machined part under one roof

## Mission

- To provide value engineering solutions on forged parts
- To become a one stop solution for all range of forged parts
- To support all buyers with an on time and quality performance under safe working conditions



## Quality Policy

- Achieve Total Customer Satisfaction by manufacturing and supplying Zero Defect Products on Time, Every Time
- Enhance Quality Awareness among all personnel and work towards Continuous Improvement

## Strengths

- Produce forgings in closed die, open forge, Upset forge, ring rolling, etc making us a one stop shop for all range of forged products. Specialize in Vertical upset forging up to 1000 mm length on LASCO presses with Material yield of up to 97 % with ZERO DRAFT AND FLASHLESS FORGING TECHNIQUE
- Forging lines are highly flexible, which gives the company the inherent advantage to simultaneously meet different customer demands and optimize capacity utilization. Capability of development of new parts within 72 Hrs including designing, die manufacture and part manufacture
- Since we cater to the Oil field industry, Automotive and Earth moving Industry for many years now, we have developed good knowledge on the application of the parts in this industrial segment
- Process all materials in Carbon, Alloy and Stainless steel with specialization in special grades of Stainless steels like F 5 I and F9I . We also process F6NM and I 7-4 PH for the valve industry. Process over 50 T stainless steel grade in 410, F 304, F 316, F 321 etc
- Using all modern software techniques & simulating the parts optimises the design to ensure reduced material weight usage for a fixed output
- High productivity levels with continuous improvement plans and KAIZENS make our products more acceptable and cost competitive. Continuous working with customers on Cost reduction plans, process improvements and KAIZENS really add value to us & our customers



## Materials Forged

- Currently, we forge the following materials
- AISI 1018/ 1020/ 1023 / ASTM A 105 / LF2 - Low carbon steel
- CL2, C 45, CL IV - Medium Carbon Steel
- CI 118 - High Manganese Free cutting steel
- AISI 4130/4140 - Alloy Steel
- ASTM A F 22/ F 11 - Alloy Steel
- EN 24 / SAE 4340 - Alloy Steel
- Din 17CrNiMo6 - Alloy Steel
- SAE 8822H - Alloy Steel
- EN 354 Case Hardening Steel
- SAE 8620, EN 353, DIN 20MnCr5 Case Hardening Steel
- SAE 4320 Case Hardening Steel
- F6NM Martensitic Stainless Steel
- AISI 410 Martensitic Stainless Steel
- I 7-4 PH Stainless steel
- F51/F53 Duplex Stainless Steel
- F 316L/304L/321L Austenitic Stainless Steel Non Magnetic
- DIN 1.4418 Austenitic Stainless Steel
- Inconel, Monel - Special Stainless Steel

# Infrastructure

Over the years, we at Vinir have created increased capacities and capabilities. Progressively we Invest in machineries, employees & raw materials stock to have a steady growth rate over the years & to withhold the name as a reputed forge shop with completely integrated facilities right from cutting to finishing. Above all we have state of the art laboratory to ensure delivery of quality products.

## 1. Die Manufacturing

- MAKINO S33C - 1 nos
- MAKINO V77 - 1 nos
- TAL Verticut 500 - 2 nos
- DOOSAN - VTL V550 - 1 nos
- DOOSAN - VMC MYNX 650 - 1 nos

## 2. Forging

- Closed die forging Double Acting Hammers (Russian) - 12ton - 1 no
- Closed die forging Double Acting Hammers (Russian) - 10ton - 1 no
- Closed die forging Counter blow hammer (German) - 5ton - 1 no
- Closed die forging MPM Hammers (Poland) - 3ton - 2 nos
- Closed die forging Drop Hammers (Indian / German) - 1 ton to 2ton - 5 nos
- Vertical Upset forging press (German) - 350 ton - 1 no
- CNC friction Screw Press (Italy) - 1200 ton - 1 no
- Open forging hammers (German) - 1ton - 2 nos
- Ring rolling - 1 no
- Trimming Press - 250T to 800T(6nos)

## 3. Heat Treatment

- Normalizing
- Quenching (Hardening)
- Tempering
- Annealing
- ISO Thermal Annealing
- Solution Annealing

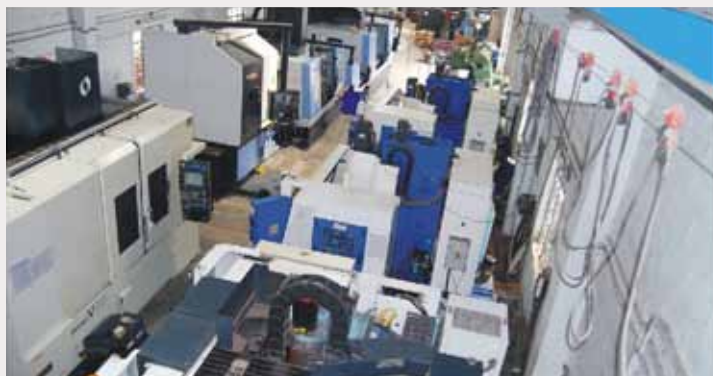
## 4. Inspection facilities

Inspection facilities are Chemical analysis, Ultrasonic testing, Impact testing, Tensile & yield testing, Hardness testing, Magnetic particle inspection and dimensional inspection.

- Spectrometer - Baird, USA - 20 elements
- Ultrasonic testing machine - Modsonic, India - 1 no
- Metallurgical Microscope - Metzger, Bombay - 100x - 1 no
- Universal Testing Machine - 20 T FIE, Ichalkaranji - 20 tons - 1 no
- Impact Testing Machine, Model IT- 30 - FIE, Ichalkaranji - 1 no
- Magnafluxing Machine with Demagnetiser - Magnafield Controls, Pune - EMCD- 2005 CF 10 - 2 nos
- Portable Magnaflux Machine - ITW Signode, Hyderabad - 1 no
- UV light intensity tester - Spectroline, USA
- Brinnell Hardness Testing Machine - FIE, Ichalkaranji - 3000 Kgs - 2 no
- Rockwell Hardness Testing Machine - FIE Make, Ichalkaranji - 1 no
- Portable Hardness Testing - Dietner, India - 1 no

## 5. Machining Facility

- CNC Turning Lathe - Doosan, Leadwell, Taiwan, LMW makes - 12 nos
- Vertical Machining Centre - Ace, Doosan, Makino, TAL makes - 8 nos
- Horizontal Machining Centre - Makino make - 2 nos
- CNC Vertical Turret Lathes - Doosan make - 2 nos
- Radial Drilling Machine - HMT - 2 no
- Universal Milling Machine - HMT - 3 nos
- Centre Lathes - Kirloskar - 12 nos



### Closed Die Forgings

Max weight 800 kgs  
Max diameter forged 800 mm  
Min diameter forged 20 mm  
Max length 3000 mm

### Vertical Upset Forgings

Max weight 100 kgs  
Max Length 1000 mm  
Max Diameter 300 mm

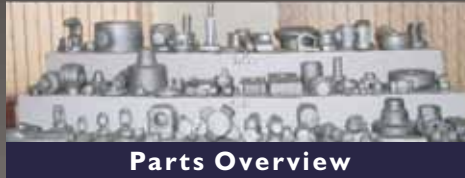
### Machined Parts

Turning upto diameter 750mm  
Milling upto 1000 mmL into 600mmB into 600mmH  
Special non standard components

## Products

### Rings

Max Outside Diameter 1000 mm  
Min Inside Diameter 100 mm  
Max Height 300 mm



Parts Overview

### Open Die Forgings

Max weight 2000 kgs  
Max diameter forged 800 mm  
Min diameter forged 100 mm  
Max length 3000 mm



# VINIR

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