



TUV Rheinland[®]

ISO 9001:2008
PED 97/23/EC
AD 2000 W0



fivebros
Forgings Pvt. Ltd.

• Forgings • Flanges • CNC Machined Components





**TRUE
PROGRESS
IS DEPENDENT
ON THE
CREDIBILITY
OF AN
INFRASTRUCTURE**



About us

Fivebros Forgings Pvt Ltd (Fivebros) is a leading Manufacturer & Exporter of Close Die & Open Forged Components, Flanges & Precision CNC Machined Components.

With over three Decades of manufacturing expertise it was founded by Mr. Yogesh Vadhar (Managing Director) & Mr. K.K.Syal (Technical Director) in 1999 and have Forged **Fivebros** as one of the top Engineering & Forging Companies in India which is bestowed with many performance accolades.

Continuing the Hard Work with its Promoters backing, Second Generation comprising Mr. Shrenik Vadhar (Executive Director) has taken the company Global with customer base spanning more than 30 Countries.

Fivebros with its dedicated team of Engineers, Latest infrastructure and its continual quest for improvement have satisfied customers from diverse industries namely **Oil & Gas | Chemical & Petrochemical | Power | Fertilizers | Fabrication | Instrumentation | Dairy & Food | Marine**



Precise • Efficient • Flexible



Cutting

Series of Automatic Bandsaws upto Dia 800mm.



Forgings

Close Die : 3 Tonne MPM Hammer
 1 Tonne Belt Rope Hammer
 Open : 5 Tonne Pneumatic Hammer.



Heat Treatment

"Natural Gas Fired" heat treatment furnaces equipped with state of the art automatic controls.

Manufacturing Facilities

- Plant spread on a plot of 15000 sq.meters of land with covered area of 6000 sq. meters.
- Close Die Forging Hammers and Open Forging Hammers.
- "Natural Gas Fired" forging furnaces equipped with state of art automatic controls enabling temperature control within +/- 10 degree celsius.
- "Natural Gas Fired" heat treatment furnaces equipped with state of art automatic controls enabling temperature control within +/- 10 degree celsius with recorders and graphs.
- Well equipped die making shop & tool room.
- Modern machine shop with state of the art machines which include CNC Lathes, CNC Machining Centre, Radial Drills, Pillar Drills, Conventional Lathes etc.
- Fast track raw material cutting facility on Band Saws, other facilities like Shot Blasting, Grinding etc.
- Product testing facilities:
PMI Machine, UTM machines, Chemical Testing Apparatus, Impact Testing Machines, Radioactivity Check Meter, Hardness Tester, Ultrasonic Test Machine, DP, MP etc.

Machining



Product Capacity

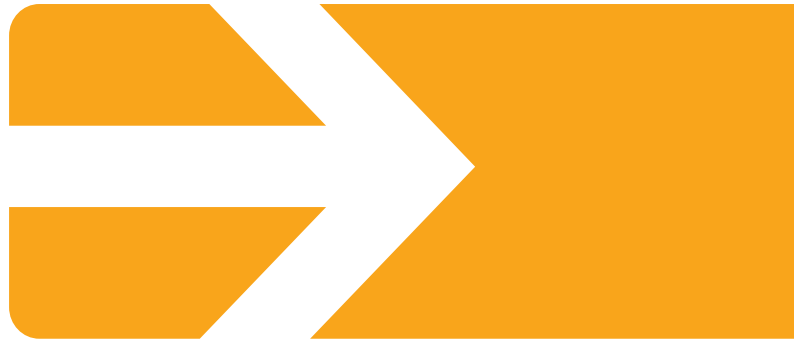
Forged : 5000 MT / Year
Machined : 2000 MT / Year



At Fivebros quality permeates everything. Our approach for Total Quality Control integration at all levels which includes Product Quality, Customer Satisfaction, HR, Infrastructure & Environment has resulted in a robust system over the years after we implemented ISO 9001 quality standards in 2002.

We followed system of quality control as per international standard ISO 9001 -2008.

Fivebros today is synonymous with top grade product quality & customer satisfaction. Below are the certifications & Approvals



Our Valued Customers

- Engineers India Ltd
- GAIL India Ltd
- Larsen & Toubro Ltd
- Reliance Industries Ltd
- BHEL
- Bharat Petroleum Corp Ltd
- Hindustan Petroleum Corp Ltd
- Godrej & Boyce Ltd
- Gujarat Sate Fertilizers Corp

Certification And Approvals



• Certificates

- ISO 9001 – 2008 by TUV
- PED 97/23/EC by TUV
- AD Merkblatt 2000 by TUV
- CRN's Canadian Registration Nos for all provinces

• Approvals

- EIL Enlisted
- IBR Well Known Forge
- Ministry of Defense Ordnance Factory
- Class NK

Testing Facilities

Chemical Testing, IGC, HIC, FE Analysis etc: are outsourced at reputed NABL approved LABS. We supply under special conditions & various third party inspection agencies like Lloyds, BVIS, TUV,PDIL ,SGS, UDHE, DNV, ABS, Velosi and others...



At Fivebros, Products manufactured conform to highest quality standards. With in-house Lab we carry out the following below testings

- Physical Testing
- Impact Testing
- Hardness Testing
- Positive Material Identification (PMI)
- Micro Structure Examination
- Ultrasonic Testing
- Magnetic Particle Testing
- Dye Penetrant Tests

Quality & Certifications



THE
LADDER
OF SUCCESS
MUST BE SET
UPON
A SOLID
FOUNDATION TO
START
THE ASCENT TOWARDS
POSITION
OF HIGH REPUTE

Quality Assurance





Close & Open Die Forgings

Close Die Forgings

Round Jobs – 0.5 kg – 66 kgs single piece

Profile Jobs – 0.5 kg – 35 kgs single piece

Items – Valve Bodies, Elbows, Tees, Hooks, Connecting Rods, Hubs, Yokes etc.

Open Forgings

Weight – Upto 1000 kgs single piece

Size – Upto 1100 Diameter

Items : Flanges, Tubesheet, Girth Flanges, Rings, Nozzles, Blanks, Shafts etc.

Forged Valve Body & Bonnet

Size – 1/2" to 2"

Pressure Rating – 400#, 800#, 1500#, 2500#

Material – Carbon, Alloy & Stainless Steel

Automotive Forgings

Size – As per Customer Drawings

Weight – 0.5 kg to 28 kgs

Items – Gears, Gear Shaft, Pinions, Crown Wheel, Connecting Rods, Steering Knuckle Arm etc.

Forgings for Material lifting

Eye & Shank Hooks 1/2 to 10 Tonne

Forged Flanges & Stub Ends

Flanges SPECIFICATIONS: ASME / ANSI, AFNOR, DIN, EN, BS, JIS, AWWA, MSSP

| | | |
|--------|------------------|--|
| GRADES | Stainless Steel | 304/304L/304H, 316/316L/316H, 317/317L/317H, 321/321H, 347/347H, 316Ti, F51 |
| | Alloy Steel | ASTM A 182 F1, F5, F6, F9, F11, F22, F91 |
| | Carbon Steel | ASTM A 105 / SA 266, ST37.2 / C22 / C22.8 |
| | Low Temp Steel | SA 350 LF2 |
| | High Yield Steel | ASTM F 694 F50, F52, F60 |
| | DIN / EN | 1.4404, 1.4401, 1.4541, 1.4571, 1.4306, 1.4307, 1.4301, 1.5415, 1.7380, 1.7335, 1.0460, 1.4462 |

SIZE RANGE: FLANGES ½" to 36" (10mm to 900mm)

| Standards | Types |
|---|---|
| ASME/ANSI B16.5 Pressure Class | Welding Neck Flange, Slipon Flange, Blind Flange, High Hub Blind Flange, Socket Weld Flange, Lap Joint Flange, Threaded Flange, Ring Type Joint Flange 150, 300, 400, 600, 900, 1500, 2500 |
| ASME/ANSI B16.47 Pressure Class | Welding Neck Flange, Blind Flange (series A & B) 75, 150, 300, 400, 600, 900 |
| ASME/ANSI B16.36 Pressure Class | (Orifice Flanges) Welding Neck Flange, Slipon Flange, Threaded Flange 300, 400, 600, 900, 1500, 2500 |
| JIS B2220/B2291 Pressure Class | Welding Neck Flange, Slipon Hub Flange, Slipon Plate Flange, Shut off Flange, Square Flange 5k, 10k, 16k, 20k, 30k |
| BS 4504 Pressure Class | Welding Neck Flange (111/134), Hubbed Slipon Flange (112), Hubbed, Threaded Flange (113), Lapped Pipe End Flange(133), Plate Flange (101), Loose Plate Flange (102), Loose Plate with Weld Neck Flange (104), Blank Flange (105) PN 2.5 To PN 40 |
| BS 10 Table | Welding Neck Flange, Plate Slip-on Flange, Screwed Boss Flange, Slip-On Boss Flange, Blind Flange D,E,F,H |
| DIN Flanges Pressure Class | DIN 2527, DIN 2566, DIN 2573, DIN 2576, DIN 2641, DIN 2642, DIN 2655, DIN 2656, DIN 2627, DIN 2628, DIN 2629, DIN 2631, DIN 2632, DIN 2633, DIN 2634, DIN 2635, DIN 2636, DIN 2637, DIN 2638, DIN 2673 PN6 TO PN 320 |
| Pr EN 1092-1 Flanges Pressure Class | Plate Flange (01), Loose Plate Flange (02,04), Blind Flange (05) Welding Neck Flange (11) Hubbed Slip On Flange (12), Screwed Flange (13), Integral Flange (21) PN2.5 To PN100 |
| ASME/ANSI B16.9/ MSS SP-4 Type | Stub End A, B, C |



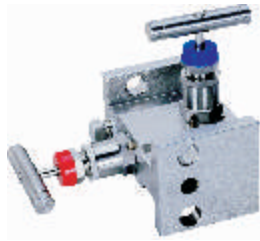
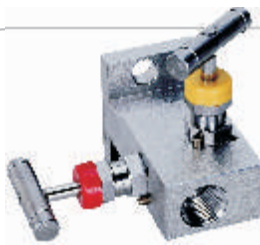
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Instrumentation Forgings

Valves : Globe Valves, Double Block & Bleed Valves, Monoflanges, Ball Valves, Compression Fittings

Manifolds : 2,3 & 5 Way Valves 'T' & 'H' type Manifolds

Materials : F316L, F304L, F316TI, F321, A105 & Nickel Alloys



Thermowell Forgings

Single piece forged thermowell body to avoid complicated welding process

Size : 1", 1 1/2" and as per customer drawings

Materials : Stainless, Duplex, Alloy & Carbon Steel

Forged Rings

Size : Upto 600 mm

Weight : Upto 800 kgs

Material : Stainless, Duplex, Alloy & Carbon Steel





**EACH TIME
A CHALLENGE
HELPS GAIN
COURAGE
AND
CONFIDENCE
TO CREATE AN IMPACT WITH
FULL STRENGTH**

CNC Machined Components

Forged & Bar Cut

Items : Stub Ends, Collars, Plugs, Threaded Nuts, Valve Parts, Nipples, Connections etc:
 Size : As per customer Drawings
 Tolerances : Upto 15 Micrones
 Surface Finish : Upto Rz1
 Material : Stainless, Duplex, Alloy & Carbon Steel

Valve Components

Size : As per customer Drawing
 Weight : Upto 66 Kgs Close Die single piece
 Items : Double Flanged Bodies, Venturies, Kegels
 Material : Carbon, Stainless, Duplex & Alloy Steel.





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