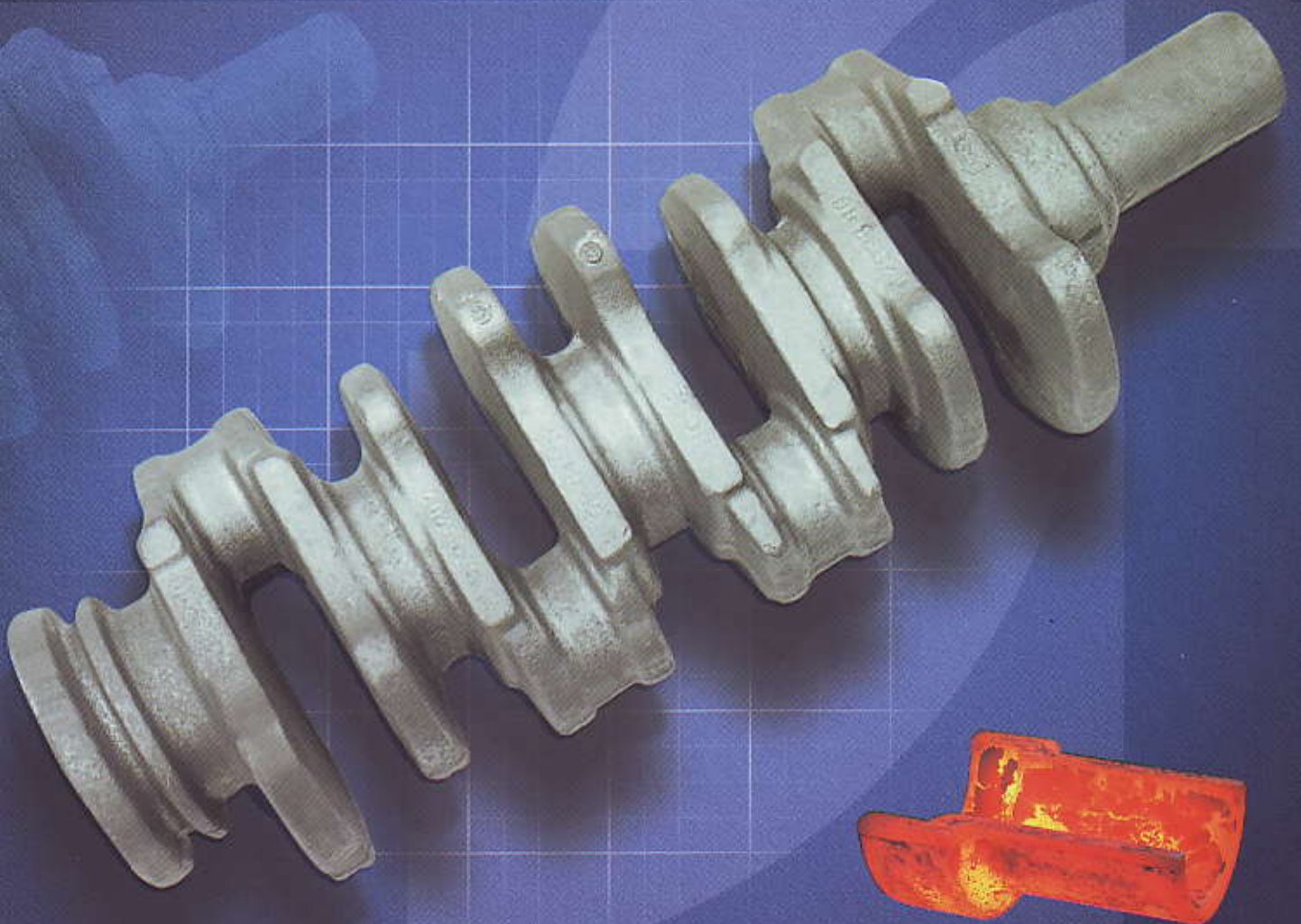


CLOSE DIE STEEL FORGINGS



FORGE & FORGE PVT. LTD.



Brief Details of company



INDIA

THE LOCATION :

The company is situated at Rajkot in the state of Gujarat in India, The city is well connected with the rest of the world by road, rail and air. The nearest sea port is Kandla about 200 km. by road. The nearest International Airports are Mumbai about 45 minutes flight and Ahmedabad about 4 hours drive.

THE COMPANY :

Established in 1974 to produce impression die forgings of Steel using pneumatic drop Hammers. Now certified with ISO-9001-2000 the company has achieved 3 decades of experience in design, development and engineering. We have forged not only the metals but also the relations with our customers, who very loyally and steadfastly contact us for their forging needs. Sound management system together with owner's personal supervision has gained the company a distinct reputation for professionalism and high ethical standards in business. A lush green expanse spread over an area of 34200 Sq. meters and a built up area of 6400 sq. meters.

THE LEADER :

C.E.O of the company **Mr. Navin patel** armed with little more than dreams, a degree in Law and a Master of Commerce, joined the company at its inception. His dedication and direction has built the reputation and image of Forge & Forge with foremost recognition in the industry. The Company has withstood the inevitable economic swings and the depressions.



Administrative office within the plant



FORGE & FORGE PVT. LTD.

Designing, Dies, Tooling & Raw Materials

DESIGNING, DIES & TOOLING :

In-house die shop and state-of-the-art designing facility through computers meet with the best modelling of component and tooling development. Dies are manufactured using HAAS & DMG Machining Centers with UNIGRAPHIC CAD CAM application.

RAW MATERIALS :

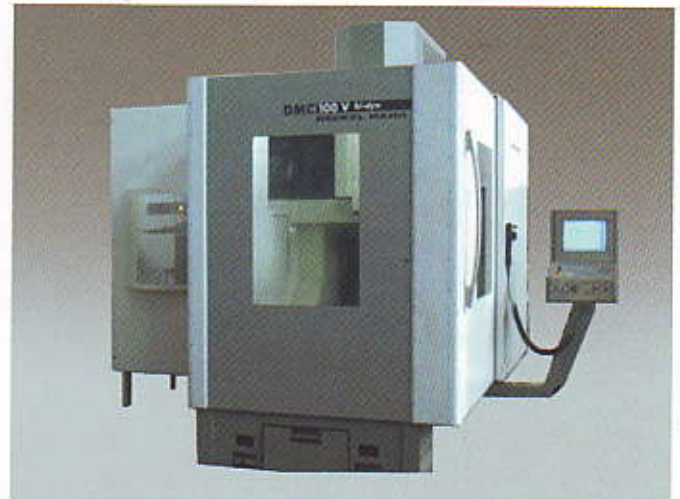
Procured from reputed and approved Steel Mills in form of Cast & Rolled Billets, Blooms, Rounds etc. in different sizes and grades to meet with the requirements of the final products. On receipt of raw materials at factory, inward process itself performs stringent quality checks. Different materials marked with specific colour codes, are stored separately to enable easy identification and traceability

MATERIAL CUTTING :

Cutting is carried out by German Billet Shearing and Band Saw machines, depending upon type of materials.



Unigraphic CAD-CAM for designing & Die manufacturing



DMG 100V Hi Dyn VMC



Materials stacked with identifying Colour Codes



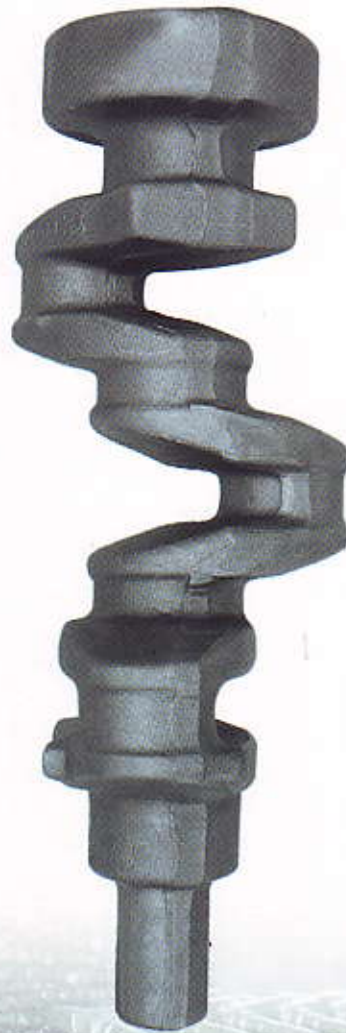
FORGE & FORGE PVT. LTD.

Products

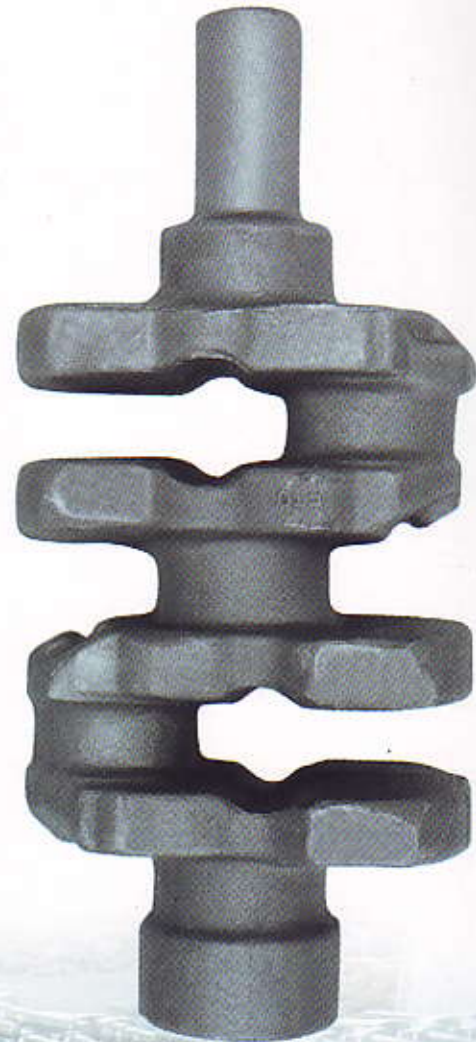
PRODUCTS :

A wide and diverse range of closed die steel forged and machined components such as, Forged Crankshafts in multi throws, Forged Links, ANSI Flanges, Gear Blanks, Stub Ends, Stub Axles, Side Cutter, Yokes, Tooth and range of tailor made steel forgings weighing up to 60 Kg. per piece.

The company has over the years satisfied all types of customers of Automotive Ancillaries, Engine Manufacturers, Ordnance Factory, and Indian Railways, etc. Orders of different magnitudes, shapes and sizes are met within requisite time frame and stringent standards.



3 Throw C/shaft Forging (27.5 Kg.)



2 Throw C/shaft Forging (33 Kg.)





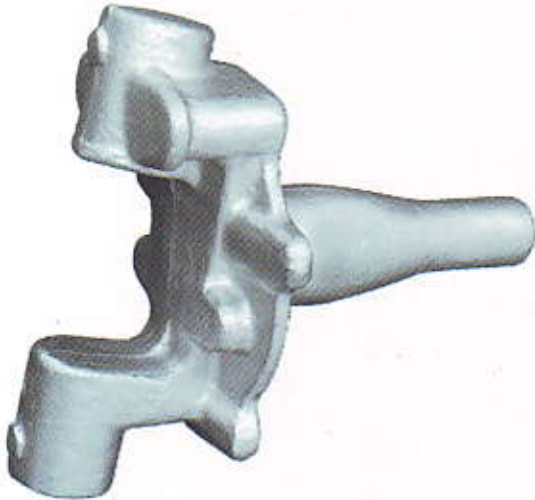
Products

WORKS CAPACITY :

We have a flexible production capacity in terms of quantity & volume, and are equipped to manufacture custom made forgings, having unit weight between 1Kg to 60 kg. An annual net production of about 12000 ton is achieved on range of Pneumatic Forging Hammers from 2 to 10 ton.



Leg Forging (61 Kg.)



Hub Forging (24.2 Kg.)



Lever Forging (14.7 Kg.)



Stub Axle Forging (12.5 Kg.)



Side Cutter Forging (4.6 Kg.)

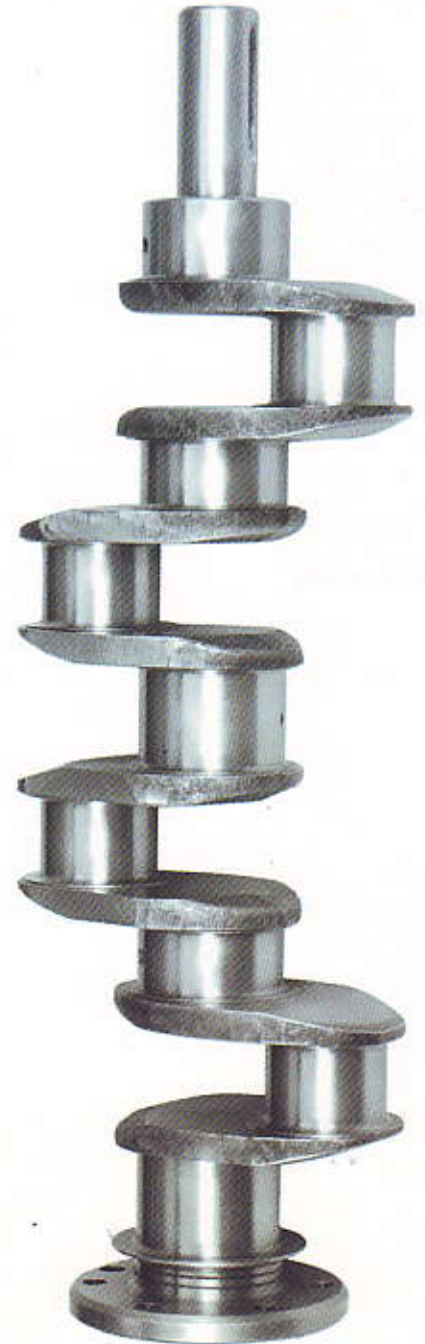


FORGE & FORGE PVT. LTD.

Products

MACHINING OF FORGING :

The Company is situated at a place where in its vicinity about 200 ancillaries having CNC turning facilities are engaged solely in doing the machining job - work of components. We out source a few post forging processes such as : machining, drilling, threading, tapping, grinding, etc. from approved vendors. These components are inspected prior to despatch at factory's quality control facility.



Forging components duly machined.



FORGE & FORGE PVT. LTD.

Post Forging Facility & Quality Assurance

POST FORGING FACILITY :

In-house Heat Treatment with Continuous Pusher type furnace for Hardening, Tempering and Isothermal annealing (capacity 18 Ton per day). Depending upon the specific requirements, controlled and recorded heat treatment is carried out. Facilities are also available for Hardness Testing, Shot Blasting and Crack Detection of forged components.

QUALITY ASSURANCE :

The quality and traceability checks are set up within the process to maintain complete control of each order. The checks begin with receipt of raw materials and continue during the cycle of forging process which include :

- Physical and chemical examination of the raw steel in the laboratories
- Maintenance of records of all quality checks done at various stages during the process.
- Marking of heat no's and colour codes for precise adherence of material traceability and identification.
- Checking of hot forgings for defects at frequent intervals.
- Random checks of components for dimensional accuracy and metallurgical soundness
- Testing for correct hardness range.
- Minute examination of critical components on crack detection machines.



Continuous Pusher type Hardening, Tempering and isothermal annealing Furnace.



Physical Testing Lab.



Dimensional Inspection.



Magna-flux Crack Detection Machine.



Range of Forging Hammers from 2 ton to 10 ton to provide an output of wide variety of forged components to suit most areas of applications.



FORGE & FORGE PVT. LTD.

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