

MFG. OF ALL TYPES

Of Casting And Forging Parts.



VASUDEV TECHNO SYSTEM

Sister Company



PM TECHNO FORGE(INDIA) LLP

- “The choice of a partner is the single most important decision most people will ever make about their businesses. The essential elements of a successful partnership are: a good fit between the partners’ personalities, similar values, the ability to be a team player, compatible goals and clear expectations, and mutual trust and respect.”

About Us

Ours is an engineering group, engaged in investment casting since 2015. Having been catering to a host of domestic as well as international markets, we have the luxury and the advantage of highly qualified and experienced manpower, totally dedicated to high precision and perfection. We have all the modern facilities to augment our production and to keep pace with the times. We are well equipped to meet international standards. Here, we are together with joined hands, committed to contribute our bit in the development of the nation and march well ahead in the industry.

ISO Certified Industry



Design and Development

- Development of components as per customer's sample drawing and specification
- We have in house capabilities to design products and manufacturing process.
- CAD & CAM softwares are used for designing and machining .
- in consultation with the customer, we can redesign the products to improve the quality of products at a reasonable price.

Infrastructure

Total land area of industry

56000 sq.ft.

Forging Process Details

Forging, a metal shaping technique using compressive, localized forces, has been a staple metal fabrication technique since the time of the ancient Mesopotamians. Since its origins in the fertile crescent, forging has experienced significant changes, resulting in a more efficient, faster and more durable process. This is because today, forging is most commonly performed with the use of forging presses or hammering tools that are powered by electricity, hydraulics or compressed air.

Forging Parts

- Flanges
- Auto parts
- Valve Parts
- Connecting Road
- Bearings
- Gears
- Crank Shaft, etc.....



Forging Machine Capacity



MACHINE CAPACITY

0.100 Kg To 150 Kg

HAMMER DETAILS

2.5 Tone Hammer

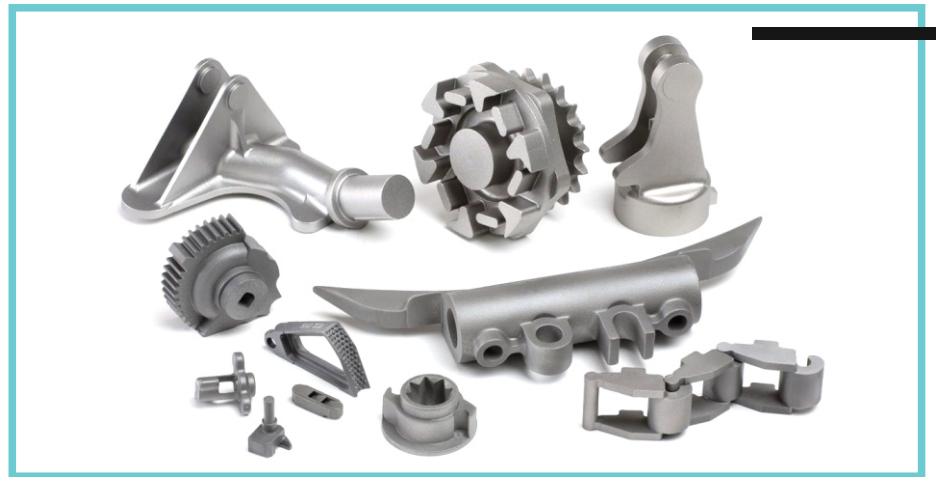
4.0 Tone Hammer

Casting Process Details

Casting, manufacturing is a process in which liquefied material, such as molten metal, is poured into the cavity of a specially designed mold and allowed to harden. After solidification, the workpiece is removed from the mold to undergo various finishing treatments or for use as a final product. Casting methods are typically used to create intricate solid and hollow shapes, and cast products are found in a wide range of applications, including automotive components, aerospace parts, etc

Casting Parts

- Valve Parts
- Pipe parts
- Auto Parts
- Body Parts
- Joint Parts
- Gears Parts
- Knuckle Joint, etc.....



Casting Job Capacity



JOB WEIGHT

0.010 Kg to 150 Kg Per Pcs.

JOB DIE

750 × 750 × 750 mm Max

Dimensional Tolerances

These tolerances apply as general. Closer tolerances can be achieved depend upon part geometry and application of component.

Process Of Measuring Instruments

Instruments are used to measure and control the condition of process streams as they pass through a Plant. Instruments are used to measure and control process variables such as: Temperature; Flow; Level; Pressure; Quality.

Dimensional Measuring Instruments

- 0-150mm Digital Vernier Baker
- 0-300mm Digital Vernier Baker
- 0-600mm Vernier Baker
- 0-25mm Micro Meter
- 25-50mm Micro Meter
- 0-300mm Height Gauge
- Bore gauge
- 0-300mm Depth Gauge
- Inside Outside Caliper
- Inside Outside radius Gauge
- Combination Set
- Surface Plate
- AIR Gauge
- Slip Gauge



Testing Instruments And Facility

MECHANICAL TESTING

- Universal Testing machine 20 KN capacity with electronic extensor metre
- Impact Testing Impact Testing Machine up to 300 J Test temp range -Ambient to -196 C.
- Hardness Testing Brinell & Rockwell Hardness Tester.
- Inter Granular Corrosion Test: Unit for IGCT practice A B E C & F (Done in NABL)
- Microscope: Microstructures Examination (Done in NABL Lab if customer required)

NON-DESTRUCTIVE TESTING

- Dye (Liquid) Penetrate Test
- Magnetic Particle Testing
- Radiography Testing (Done in NABL Lab if customer required)
- Ultrasonic Testing (Done in NABL Lab if customer required)



Spectro Machine



Machining Process Details

During the manufacturing of a part, a variety of machining operations and processes are needed to remove excess material. These operations are usually mechanical and involve cutting tools, abrasive wheels, and discs, etc. Machining operations may be performed on stock mill shapes such as bars and flats or they may be executed upon parts made by previous manufacturing methods such as casting or welding.

Machining Shop Details

CNC MACHINE - 14 Pcs.

The term CNC stands for 'computer numerical control', and the CNC machining definition is that it is a subtractive manufacturing process which typically employs computerized controls and machine tools to remove layers of material from a stock piece



WORK CAPACITY IN MACHINE

- CNC Machine capacity - Diameter \varnothing = 5 mm to 600 mm
- CNC Length Capacity = 300 mm to 1000 mm
- CNC Weight Capacity = 150 Kg. Max.

VMC MACHINE ROTARY TABLE - 5 Pcs.

A VMC is a machine with a CNC (Computer Numerical Control) controller. As mentioned, the cutting head in this milling machine is vertical and is a particular type of milling machine where the spindle runs in a vertical axis known as the "z" axis. They are typically enclosed and most often used for cutting metal.



WORK CAPACITY IN MACHINE

- CVM 1060 = 1200 x 600 x 600
- Rotary table = 250 \varnothing capacity - 400 mm OD Machining.
- VMC weight capacity = 1000 Kg.

Type of Product

- All types of industrial valve products like
 - Ball valve parts
 - Butterfly valve parts
 - Check valve parts
 - Gate valve parts
 - Globe valve parts
 - Plug valve parts
- All type of pump products like Casing, Impeller, Cover etc.
- General Engineering parts
- Dairy parts
- Fitting parts
- Lifting parts
- Auto parts
- Orthopaedic implant parts

Materials Manufacturing at VTS

CARBON STEEL	
ATSM	DIN
A216-WCB	1.0619
A216-WCC	
A352-LCC	1.1138
A352-LCB	

LOW ALLOY STEEL	
ATSM	DIN
A217-WC1	1.5419
A217-WC4	
A217-WC5	
A217-WC6	1.7356
A217-WC9	1.7379
A217-WC11	
A217-C5	1.7363
A217-C12	
A217-C12A	

COBALT BASED ALLOYS	
ATSM	DIN
STELLITE 3	
STELLITE 3	
STELLITE 3	
STELLITE 3	
STELLITE 3	
Triballoy T 400	

AUSTENITIC STAINLESS STEEL	
ATSM	DIN
A351 - CF8	1.4308
A351 - CF8M	1.4408
A351 - CF3	1.4306
A351 - CF3M	1.4404/1.4409
A351 - CF8C	1.4827
A351 - CF10	1.4808
A351 - CF20	1.4843
A351 - CF20	
A351 - CF7M	1.4500
A351 - CF8M	1.4431
A351 - CF8M	

NICKLE BASED SUPER ALLOY	
ATSM	DIN
A494 - M-35-1	2.4365
A494 - M-35-2	
A494 - M-30 C	
A494 - N-12MV	
A494 - N-7M	
A494 - CY40	2.4816
A494 - CW12MV	2.4686
A494 - CW6M	
A494 - CW2M	2.4610
A494 - CW6MC	2.4856
A494 - CX2MW	2.4602
A494 - Cu5MCuC	2.4858
A560 - 50Cr50Ni	
A560 - 50Cr50Ni-Nb	2.4813
A560 - 60Cr40Ni	




MARTENSITIC STEELS	
ATSM	DIN
A743 - CA15	1.4008
A743 - CA40	1.4028
A743 - CA-6NM	1.4313

SUPER DUPLEX STAINLESS STEEL	
ATSM	DIN
A890 - GR1B	
A890 - GR1C	
A890 - GR2A	
A890 - GR3A	
A890 - GR4A	
A890 - GR5A	
A890 - GR6A	
A890 - GR6A	

HEAT RESISTING STEEL	
ATSM	DIN
A297 - HF	1.4825
A297 - HH	1.4837
A297 - HI	1.4846
A297 - HK	1.4846
A297 - HD	1.4823

AUSTENITIC FERRITE DUPLEX STEEL	
ATSM	DIN
A351 - CF3MN	1.4435
A351 - CG6MMnN	1.3964
A351 - CK3MCuN	1.1138



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