



**SHIVAY
ENTERPRISE**

**CNC MACHINING SERVICE AND LASER
CUTTING SERVICE PROVIDER**

ABOUT US

We are leading machining service provider of CNC VMC VTL & HMC. Our quality products are consumed in more than 5 countries, at competitive price. We are doing manufacturing as per customer requirements with wide range of product.

Shivay Enterprise was established as a sole proprietary unit in the year 2012 and started manufacturing & supplying valve assembly parts, pump parts, agree products parts, precision engineering components. we are also manufactured for general machine tools, textile parts, auto parts, flanges, investment casting parts, forge parts, special parts as per customer's requirement. In the span of 8 years, it has expanded the manufacturing base with additional and sophisticated CNC machine tools and the latest inspection instruments. From the beginning, The turnover growth rate of the unit is increasing every year, is the result of team work of highly motivated, dedicated and quality conscious personnel. We are seeking an opportunity to discuss potential collaboration with your business to bring value and growth to your business and create differential experience for end consumer with high quality products.

Shivay Enterprise has been built on engineering excellence crafted through unstinted dedication to quality, innovation and a constant objective to serve the global market. The company aims to meet customer's quality benchmarks at an outstanding value.

Currently, we offer a one stop shop for turned parts and machined parts to our global customers. We achieve greater engineering excellence with our global quality benchmarks.

WHY Shivay Enterprise?

- ▶ International quality products as per customer demand
- ▶ Maintains full lot traceability through the job card system.
- ▶ Prompt customer response with minimal tool development lead time.
- ▶ In-house tool-room facility.
- ▶ Quality product & customer satisfaction.

MACHINING CAPABILITY

Shivay Enterprise manufacturing capabilities encompass the entire gamut of precision engineering products. The synthesis of best-of-the breed machinery, technically qualified professionals and a quality driven management policy transforms the most complex engineering drawing into a high quality product.

The Machine shop layout has been designed to suit the line concept for mass production as well as batch production. Shivay Enterprise offers an array of CNC Turning Centers, CNC Vertical Machining Centers with 5th Axis facilities along with the latest control systems for production jobs.

Machining Capacity

- ▶ Machining of Ferrous & Non Ferrous Materials like Carbon, Stainless & Mild Steel, Aluminium alloys & Copper alloys.
- ▶ Machining jobs with batch sizes 5 nos. to 50000 nos.
- ▶ Core competencies in bar stock turning of any material.
- ▶ Machining of Hardened Steel up-to 50 HRC.
- ▶ Machining of Shafts (Turning, Keyway, Grinding & Burning etc.)
- ▶ Machining of Forging made of Mild, Carbon, Stainless steel, Aluminium & Copper alloys.
- ▶ Machining of Investment Casting, Sand Casting as well as Shell Moulding casting.
- ▶ Grinding external & internal up-to precision levels of 7 μm .



2 Machines of

CNC Turning Center DX 200

by Jyoti CNC Automation Ltd.

Max Turning Dia : 300 mm

Max Turn Length : 500 mm

Max Bar Dia : 52 mm / turret station : 08 nos

2 Machines of

CNC Turning Center DX 250

by Jyoti CNC Automation Ltd.

Max Turning Dia : 470 mm

Max Turn Length : 1000 mm

Max Bar Dia : 52 mm / turret station : 08 nos





2 Machines of

CNC Turning Center DX 150

by Global CNC Automation

Max Turning Dia : 200 mm

Max Turn Length : 400 mm

Max Bar Dia : 45 mm / turret station : 08 nos

3 Machines of

Vertical Machining Center VMC 850

by Jyoti CNC Automation Ltd.

Travel - X : 800 mm

Travel - Y : 600 mm

Travel - Z : 600 mm

No of tools capacity : 20





1 Machines of

Vertical Machining Center VMC - 1500

by Global CNC Automation

Travel - X : 1500 mm

Travel - Y : 1000 mm

Travel - Z : 1000 mm

No of tools capacity : 20

2 Machine of

Gear Shaper

By Drummond Maxicut

Max Stroke M1 - 80 mm, M2 - 120mm

Max Inner M1 - 200mm, M2 - 250mm

Max Outer M1 - 400mm, M2 - 400 mm

Max Job length M1 - 120mm, M2 - 120 mm





1 Machine of

CNC Centreless Grinding HLC-100-CNC

By HI-Life Machine Tools Ltd

No. of CNC Controlled Axis : 1

Min - Max Grining Dia : 0.7 - 100 mm

Max Job length in infeed grinding : 95 mm

Max Job length in thru feed grinding
without support : 220 mm

1 Machine of

Vertical Turning Center (VTL)

By PNP Tech Pvt. Ltd.

No. of CNC Controlled Axis : 2

Max Turning Dia : 1600 mm

Max Turn Length : 800 mm

Max Bar Dia : 125 mm / turret station : 08 nos





1 Machine of

Vertical Turning Center (VTL)

By Yantrang CNC Automation Pvt. Ltd.

No. of CNC Controlled Axis : 2

Max Turning Dia : 1600 mm

Max Turn Length : 1100 mm

Max Bar Dia : 125 mm / Atc station : 08 nos

1 Machine of

Horizontal Boring Machine (HMC)

By JUARISTI Boring & Milling Machines

No. of CNC Controlled Axis : 5

Travel - X : 3000 mm

Travel - Y : 1500 mm

Travel - Z : 1500 mm

Travel - B : 360°

No of tools capacity : 40 (BT50)





2 Machines of

CNC Turning Center DX 250

by Macpower CNC Machines Limited

Max Turning Dia : 470 mm

Max Turn Length : 1000 mm

Max Bar Dia : 52 mm / turret station : 08 nos

1 Machine of

Vertical Machining Center VMC 544

by Macpower CNC Machines Limited

Travel - X : 500 mm

Travel - Y : 400 mm

Travel - Z : 400 mm

No of tools capacity : 20



PROCESSED RAW MATERIALS & TREATMENTS

Bar Stock

- Round up-to Dia 350mm
- Hexagonal up-to 110mm

Forgings

- Open Die-up-to 180 Kgs
- Closed Die-up-to 80 Kgs
- Ring Rolling - upto 150 Kgs & Diameter 1000mm

Castings

Process Investment castings, Sand, Shell Molded.

with **Sub. Assembly & Assembly**

Mostly used Material Grades

Low & Medium carbon steel (AISI 1018, 1020, 1040, 1045 etc.) Alloy steel (AISI 4140, 4340, 8620, 1541, 8620, 20MnCr5 etc.) Stainless steel (AISI 304, 303, 316, 400 Series & 17-4 Ph etc.) Non Ferrous Metal (Alluminium, Brass, Alluminium Bronze & Gun metal, etc.)

Raw Material Certification

PED 97/23/EC and AD2000 or equivalent certifications from the source, wherever applicable. We work not only to Produce but to give value to time.

Top Engineers & handles diversified processed Raw material

- Any type of Casting (Investment casting, Sand casting and/or shell molding casting etc.) in material like Mild, Carbon, Stainless & Non ferrous metals like Alluminium & Copper alloys.
- Any type of Forging (Closed die forging, Open Die forging, Ring rolled parts, Press forging etc.) in material like Mild, Carbon, Stainless & Non ferrous metals like Alluminium & Copper alloys.
- Pressure die casting made of Alluminium and copper alloys.
- Plastic & Rubber Molded parts.

Available Treatments

- Through Hardening
- Induction Hardening
- Case Hardening
- Hardening & Tempering
- Solution Annealing
- Salt Bath Annealing

Surface Treatments

- Sand Blasting
- Hardening & Tempering
- Shot Blasting
- Silver Plating
- Pickling
- Gold Plating
- Electro Polishing
- Cadmium Plating
- Nickel Plating
- Anodizing
- Zinc Plating
- Hard Anodizing
- Chrome Plating
- Phosphating
- Hard Chrome Plating
- Buffing

Plastic Molded Parts

- PBT polybutylene terephthalate
- PVC polyvinyl chloride
- POM polyacetal
- PA polyamide
- PP polypropylene
- PC polycarbonate
- PPS polyphenylene sulfide
- LDPE low-density polyethylene
- PTFE polytetrafluoroethylene
- HDPE high-density polyethylene

Rubber Molded Parts

- Polychloroprene (Neoprene)
- NBR nitrile rubber
- Silicone (Silicon)
- SBR styrene butadiene diene rubber
- Fluoroelastomer (Viton)
- EPDM ethylene-propylene terpolymer rubber

Castings

- Ferrous Materials
- Non Ferrous Materials

Forgings

- Ferrous Materials

Special Process

- Stainless Steel Welding
- Surface Grinding
- Welding
- Centreless Grinding
- Brazing
- Tool Grinding
- Engraving
- Broaching
- Laser Marking
- Thread Rolling

QUALITY TESTING & INSPECTION

Being as an ISO 9001 : 2008 accredited organization, We achieve high quality standards through in-house measuring systems with a well equipped Standards Room that include:

Highly skilled technicians with a ZEST for quality backed by cutting edge technology form the bedrock of Top Engineers quality driven design and manufacturing enterprise.

Measuring Equipments - In House

- › Vernier Callipers - Up to 900 mm
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- › Digital height gauge upto 600mm
- › Micrometer - Upto to 400 mm
- › Bore Dial Gauge - 450 mm
- › Slip Gauge Box '0' Grade 2 Boxes Consisting Of 122 Pcs
- › Lever & Plunger Type Dial Indicators With Stand 10 mm
- › Pressure Gauges
- › Thread Plug Gauges For Metric, UN, NPT, BSP, ACME, BSF, BSW Series
- › Thread Ring Gauges For Metric, UN, NPT, BSP, ACME, BSF, BSW Series
- › Plug Gauges
- › Snap Gauges
- › Surface Plate
- › Bench Center

Facilities - Out sourced

Product Testing

- › Product Type Testing
- › Salt Spray Tests
- › IP 66 Tests
- › Vibration Testing
- › Endurance Tests
- › Static Load Tests
- › Radial Load Tests
- › Axial Load Tests

Raw Material Testing

- › Chemical Composition
- › Physical Properties
- › Ultrasound Testing
- › Microstructure Analysis
- › Magnetic Particle Inspection
- › Charpy Impact Test

Testing Equipments

- › Air Pressure Testing Upto 31 Kg/sq.cm.
- › Hydraulic Pressure Testing Upto 900 Kg/sq.cm.
- › Hardness Testing Machine
- › Shore Hardness Measuring Equipment
- › Coating Thickness Measuring Equipment
- › Profile Projector 30 mm
- › Surface Roughness Tester
- › Elcometer
- › Gloss Value measurement equipment

Calibration Services

- › Measuring Equipment Calibration
- › Electrical Test Equipment Calibration
- › Mechanical Test Equipment Calibration
- › Pressure Gauges Calibration

PRODUCT DEVELOPMENT

We can offer APQP, PPAP, FMEA, MSA as per customer requirement.

Top Engineers is equipped with modern equipment for product development & tool design. The most upto date Software are used to complement the equipment.

Its AQAP Process has led to the development of a wide range of innovative products catering to the diverse needs of the clients.

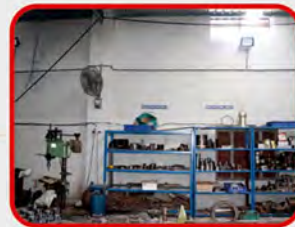
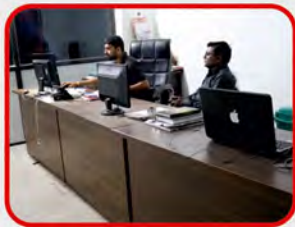
The group offers design change and process solutions fully utilizing the potential of local cost advantages and is able to provide best cost solutions.

PRODUCT DESIGN AND IMPLEMENTATION PROCESS

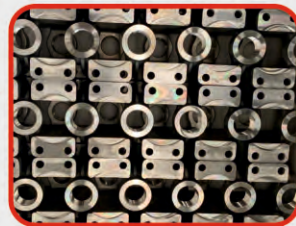
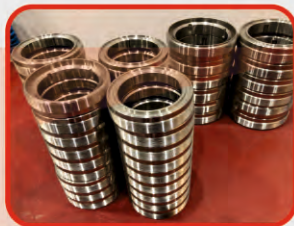
Ability to build up manufacturing process fixtures & special tools in house with strong back up of designing. New product design and development time is minimum as proactive approach of well experienced engineers.



OUR WORKSHOP & OFFICE AREA



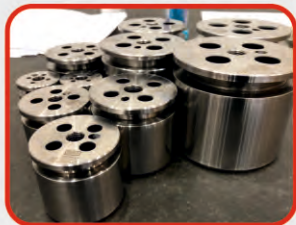
PRODUCT GALLERY



PRODUCT GALLERY



PRODUCT GALLERY



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