



PMT MACHINES LIMITED

About us

PMT Machines Limited is one of the largest machine tool manufacturing company in India, successfully operating for more than 50 years. PMT was started in 1961 as Traub India a subsidiary of Traub Germany. The manufacturing unit was acquired by PMTML in 1979.

The company later absorbed technologies from various German and Swiss machine tool companies like Voumard, Fortuna, Mikrosa, Pittler to manufacture world class Turning and Grinding machines in India. PMT has state-of-the-art manufacturing facilities located at Pimpri, Pune spread over a sprawling area of 47,346 sq. meters. In 2007, PMT acquired Elb India at Halol to manufacture high precision Surface Grinding Machines in India.



PMT MACHINES TODAY

Core Business : Manufacturing

❖ CNC Machines

- CNC Internal Grinding
- CNC Cylindrical Grinding
- Surface Grinding
- CNC Turning
- Automatic Lathes
- VTL (Heavy Duty)

❖ Heavy Engineering (Services)

- Component Manufacturing & Assembly
(Fabrication, Machining, Metalizing & Painting.)
- Rebuilding

Corporate office at Pune, Pimpri

- **Land area** : 47,346 Sq. Mtrs.
- **Fully integrated ERP system**
- **Manpower** : 500 Nos.

Heavy Engineering Division

Established in 2004

- **ISO 9001: 2015 certified**

Caters to the wind energy, Railway, Turbines (Steam & Hydro), Pumps, Gear Box, Machine tools & Others. [L] [SEP]

- heavy equipment and infrastructure sectors
- In house Design & process engineering
- capability for diverse manufacturing

• **Integrated manufacturing system :**

- Plate cutting & bending [L] [SEP]
- Steel fabrication, [L] [SEP]
- CNC machining [L] [SEP]
- Grit blasting [L] [SEP]
- Metalizing and Painting

Certificate of ISO & API



**American
Petroleum
Institute**



2018-151 | Digital

Certificate of Authority to use the Official API Monogram

License Number: 5CT-2106

ORIGINAL

The American Petroleum Institute hereby grants to

PMT MACHINES LTD.
Behind PCMC Building
Mumbai-Pune Road
Pimpri, Pune, Maharashtra
India

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API-5CT** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram shall be used in conjunction with this certificate number: **5CT-2106**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: Manufacturer of Casing or Tubing Pup Joints - J55, PSL 2, - K55, PSL 2, - L80(1), PSL 2, - N80(Q), PSL 2, - P110, PSL 2

QMS Exclusions: Design and Development; Servicing

Effective Date: SEPTEMBER 30, 2020
Expiration Date: SEPTEMBER 30, 2023

To verify the authenticity of this license, go to www.api.org/compositelist.

Vice President of Global Industry Services



CERTIFICATE

Management system as per
ISO 9001 : 2015

In accordance with TÜV NORD CERT procedures, it is hereby certified that

PMT MACHINES LIMITED
Survey No. 152/AB, 153/2,
Mumbai - Pune Road, Behind PCMC Building,
Pimpri, Pune - 411 018, Maharashtra,
India



applies a management system in line with the above standard for the following scope

Design, Manufacture of Single Spindle Automats, CNC Turning Machines, Internal Grinders, CNC Cylindrical & Internal Grinders, Manufacture of Components out of Casting / Forging / Bars / Pipes for Automotive, Oil & Gas and Other Engineering Industry.

Certificate Registration No. 44 100 19392497
Audit Report No. 2.9-9302/2019

Valid until 21.07.2022

Certification Body
at TÜV NORD CERT GmbH

Issue 22.07.2019
Place : Mumbai

This certification was conducted in accordance with the TÜV NORD CERT auditing and certification procedures & shall be valid subject to regular Surveillance Audits.

TÜV NORD CERT GmbH

Langemarckstrasse 20

45141 Essen

www.tuv-nord-cert.com

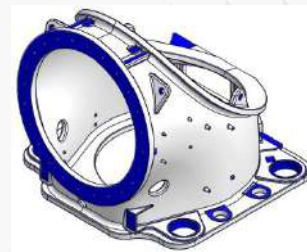
TÜV India Pvt. Ltd., 801, Raheja Plaza - 1, L.B.S. Marg,

Ghatkopar (W), Mumbai - 400 086, India

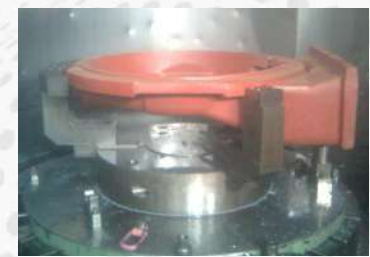
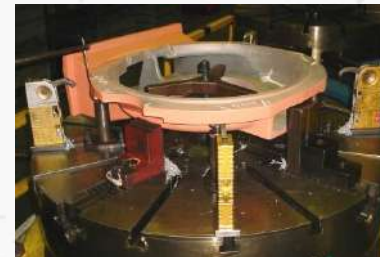
www.tuv-india.com



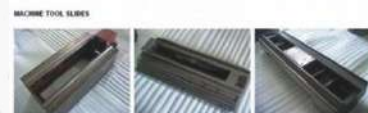
Product Range : Wind Turbine Steel Parts



Product Range : Railway



Product Range Gear Box & Other



Product Range : Steam Turbines



Product Range : Hydro Turbines



Oil & GAS



COMPONENT MANUFACTURING

Component Manufacturing Division catering to the following Industries :

- Railway
- Windmill
- Turbines (Steam & Hydro)
- Pumps
- Gears Box
- Machine Tools
- Oil & Gas parts
- Others

Quality

- The company has a most modern quality control facility to support precision component manufacturing setup. Consistent Product Quality is achieved through the ISO 9001:2015 and API 5CT quality systems, well established and acknowledged by TUV Cert. Germany on a regular basis. This quality stamp has given PMT a tremendous advantage in marketing its products worldwide
- ISO 9001 : 2015 certified
- Certificate of Authority to use the Official API Monogram
- Highly qualified, experienced and specifically trained designers for jigs, fixtures and other tooling
- Fully certified welders in accordance with DIN & ASME Standards for all SMAW, GTAW, FCAW, SAW welding processes

Testing Capability

- **NDT – Non Destructive Testing**
- **ASNT Level 2 Certified Managers**
- **Third party consultant available for level 3**
- **MPI - Magnetic Particle Imaging**
- **DP – Die Penetrate**
- **UT – Ultrasonic Testing**
- **Metallurgy Testing Lab (Outsource)**
- **All mechanical testing as per ASTM STD.**
- **Profile projector**
- **CMM**
- **Hydro Test**
- **Laser Calibration machine**
- **Drift test**

Infrastructure

Machining facility		
Qty.	Make	Specification
4	DMU-Line (5-Axis Machining Center)	UP to X-1800, Y-2000, Z-1100
4	Juristic, CNC Horizontal Boring Machine	X-12000, Y-4000, Z-1200 Weight Carr. Up to 30T.
2	HASS CNC Horizontal Machining Centre	X-1600, Y-1000, Z- 800
1	Gemini GHT5 G4-1000 X4m	Swig Dia. 1000 X 4 m Lg.
3	PMT Machines CNC Vertical Turning Machine	up to Dia. 3000 swing
5	CNC 5 Axis Plano Milling Machine : ZAYER : KP 5000AR	X- 5000mm. , Y – 3689 mm. , Z-1098 mm.
12	PMT Machines CNC Horizontal Turning Machine	Swing Dia. -2250 x 8 M m Lg. Weigh Carr. Up to 25T
Inspection Facility		
Qty.	Make	Specification
1	Zeiss Prismo Navigator 14 S-ACC-CNC Coordinate Measuring Machine	X Axis = 1600 mm Y Axis = 2400 mm Z – Axis = 1300 mm Length measuring uncertainty as per ISP 10360-2
2	Trimos	700 Hight
Shot Blasting & Painting Facility		
Qty.	Make	Specification
2	MEC P1000 Model - Blasting Booth	Size 7.0 Mt X 6 Mt X 4.5
2	Bullows Paint Equipment Pvt Ltd - Paint Booth	7 Mt X 6 Mt X 4.5 Mt

Infrastructure

PMT Machines Ltd Having Associate Near by company Premises , Vender Name Limson Fabrication

Setups & Capacity is as follows:-

- MANUAL WELDING
- MIG WELDING
- SUBMERGED ARC WELDING
- ROLLING MACHINE
- LESER CUTTING MACHINE
- WELDING FIXTURE
- Manual profile cutting machine
- Pug Cutting Machine4-
- CNC With Plasma & oxy flame cutting automatic Height control with DRO (Length 10000mm, Width 3000mm, with cutting thickness M S Up to 300mm & SS up to 30mm)(Make MESSUER China make 2 No's & Pro Arc
- Optical Profile Cutting Machine Capacity 300 mm. Thk. X 1500mm Width-x length 4000mm- 3 Nos.300 mm. Thk. X 2000mm Width-x length 6000mm-2 Nos.
- TESTING LAB.

Our Specialties

Fabrication	Machining	Blasting , Painting
Nesting software is used to minimize raw material wastage	3 Vertical Turning Lathe machines (3000 mtr Dia. x 2000 mm hgt)	International standard blasting & painting facilities providing one stop solutions for all kind of painting activity
Welding- 5 Qualified Welders in various process 5 Nos Welding Process Engineers	4 CNC Horizontal Boring Machines (12000mm x 4000 mm. x 1200 mm.) (Independent Table) 2Nos. 3000 x 2500 mm , CNC Indexing head	2 Modern Blasting painting booths Size 7.0 Mt X 6 Mt X 4.5
Heavy thickness plate welding (Qualified upto 125 mm thick plate welding) Welding positions - 1G, 2G, 3G & 1F	Boring - ID up to 1200 mm, OD upto 1600mm	Automatic media recovery system for metallic shot
Specialized a) MMAW - Manual Metal Arc Welding b) FCAW - Flux Cored Arc Welding c) GTAW - Gas Tungsten Arc Welding d) MAG - Metal Active Gas Welding e) SAW - Submerged Arc Welding f) Breezing	Accuracy - Tolerance CTR : +/- 10 microns/mtr Full length : +/- 30 microns Ovality : 20 microns Surface Roughness : Ra 0.8	Automated force drying system for painting
Precision welding positioners, fixtures own developed for higher productivity	12 CNC Turning Lathes a) Capacity - Dia 2500mm x 7000mm length b) Accuracy run out of 10 microns c) OD dia turning tolerance P7 accuracy	BRY AIR Painting – dehumidifier
Maps, Process flow Diagram, displayed work instruction for process control	In-house design, development & manufacturing of special purpose machines for higher productivit	Semi Auto Airless painting
Edge preparation, Pre heating, Controlled welding parameters- Current, Voltage, Gas flow, Speed etc.	Cutting Tools - Latest cutting tools CBN Inserts, Carbide drills used	C3 & C5 level of corrosion protection
Testing - 1. Ultrasonic testing (UT) 2. Magnetic Particle testing (MP) 3. Dye penetrant testing (DP) 4. Radiographic testing (RT)	Developed - Special long length Anti vibration boring bar for vibrations free cutting , achieved dia 120 x 2500 mm L With all parameters 30 micron accuracy	Sa 2.5 Level shot blasting
Trained & qualified LEVEL II Technicians for NDT	In house facility for design & manufacturing of jigs and fixtures	3 - Coat painting (Primer - Intermediate –Top Coat) Metalizing & epoxy paint scheme of international
	U' Drill - through coolant attached Dia 60	All machined area covered with rust preventive

KEY CUSTOMERS



Manufacturing Facilities

**We have an excellent manufacturing facility, which includes
Precision Machine Tools**

- 5 Axes Machining Center
- Machining Centers both Horizontal and Vertical
- Precision Internal, Cylindrical, Surface Grinding Machines
- CNC Lathes
- Milling Machines
- Gear Hobbing and Gear Grinding Machines
- Heat Treatment facility
- Painting facility
- Phosphate facility
- Cutting machine
- Hydro testing facility up to 15,000 PSI

Manufacturing facilities- Horizontal Machine Line



HASS



JUARISTI TS5



HASS



H-400

JUARISTI MDR



JUARISTI MX7



MAZAK H15

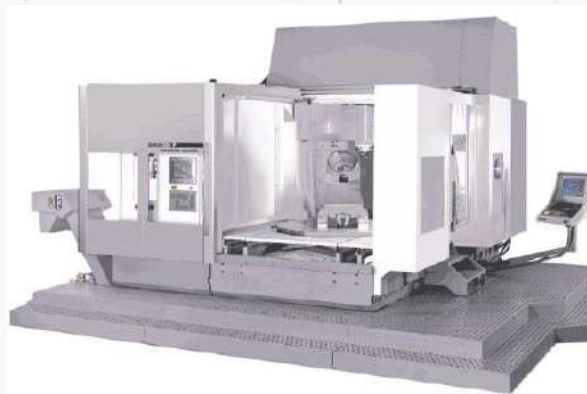


Manufacturing facilities- 5 Axis Machining Centers

DMC125U



DMU200P



DMU 100P



VERTICAL MACHINING LINE

BFW CHAKRA



HASS



BFW DHURVA



BFW AGNI



Manufacturing facilities- Turning & Jig Boring Machine

GEMINIE



SUPER CUT-25



SUPER CUT-14



SUPER CUT-12



SUPER CUT-10



SUPER CUT-06



SUPER CUT-05



GEAR HOBBLING



GEAR GRINDING



DIXI



SIP-HAUSER



Manufacturing facilities- VTL, Plano Millers & Grinding Centers



5-Axis Plano Millers



Manufacturing Facilities- Blasting & Painting



Paint Shop

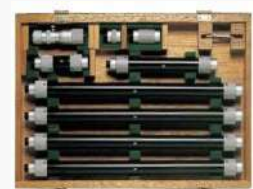
Size : 7 Mt X 6 Mt X 4.5 Mt :
with Down Draft type -2 Nos.

SHOT BLASTING

Shot Blasting System Both
Size : - 7.0 Mt X 6 Mt X 4.5 Mt MEC P1000
Model -2 Nos.



Inspection Instruments



**TRIMOS HEIGHT
GAUGE**

**TESA HEIGHT
GAUGE**



**SURFACE PLATE
(2000 X 1000MM)**



ZEISS-MAKE CMM



Welding Facility

MIG/MAG Welding Machine



Manual Welding Machine



Welding Facility

**High-performance Plasma
Cutting & Manual
Machine**



Welding Facility

Rolling & Bending Machine



Quality Assurance System

Our Qualified Production and Quality team are dedicated to manufacturing excellence and adherence to stringent specifications. Each manufacturing operation is conducted under watchful eyes, our qualified Quality team.

We are able to adhere to all customer specifications and Code Requirement

Work activities performed by PMT's In-House Manufacturing facility are strictly conducted in accordance with the requirements of the ASME Section IX, and other recognised standards, as required.

Certification

ISO 9001:2015 TUV

NDE Techniques

Dye Penetrate | Radiography
Ultra Sonic | PMI
Hydrostatic and Pneumatic

International Codes followed

ASME Section VIII, Division -I, Design
ASME Section II Part A/B/C/D – Material
ASME Section V-NDE
ASME Section IX For Welding DIN, IS, BIS

In-House Testing Facilities

Radiography Room
Instrumentation Calibration
PMI Testing
Hydrostatic and Pneumatic

ASNT Qualified Quality Control Team

Welding Level II Inspectors

DP Level II Inspector

Radiography Laval II Inspectors

Visual Testing Level II Inspector.



Manufacturing Critical Major parts – Rotors

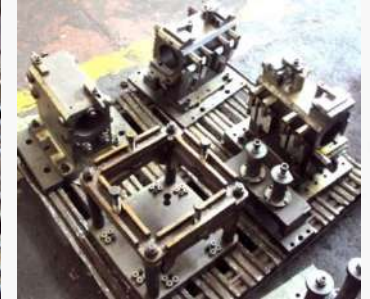
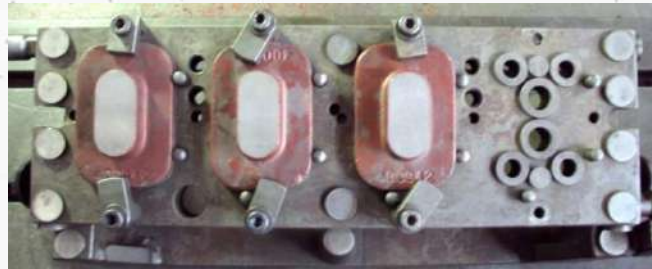


CASTINGS



Precision Jigs & Fixture— Design and manufacturing

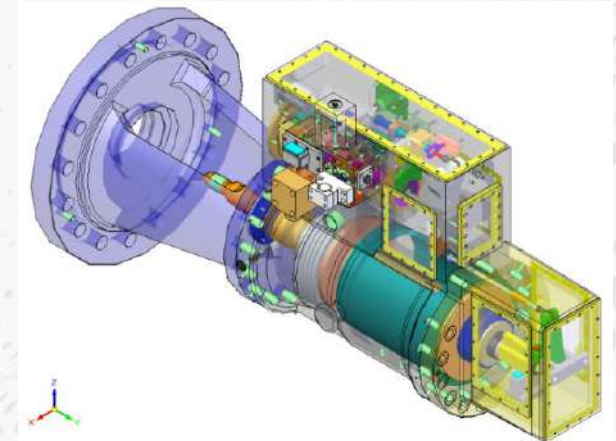
COMPONENTS FIXTURES



COMPONENTS DEDICATED FIXTURES



Precision Mechanical Assemblies-Servo Motor



Precision Mechanical Assemblies-Winch Assembly



Hydro Turbine Shaft (Turning/Machining)-(Size $\text{\O}2250 \times 6000\text{mm.}$)



Hydro Turbine Pelton Runner Machining (Ø4200x1200mm. High (Wt. 30 Ton)



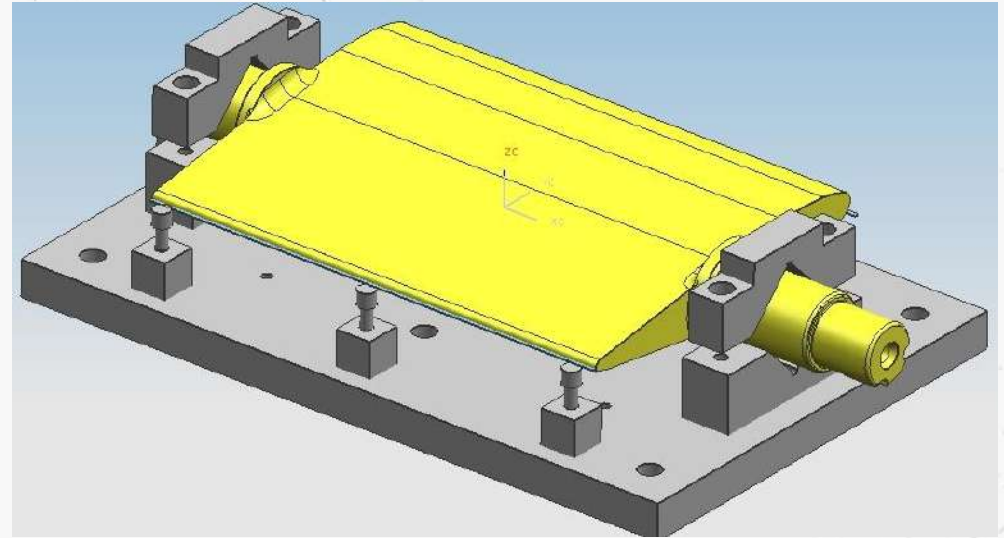
Hydro Turbine Pelten Runner Machining.



Hydro Turbine Blade Machining.



Hydro Turbine Guide Vainer Machining



Machining of Parting Planes for Hydraulic Steam Turbines

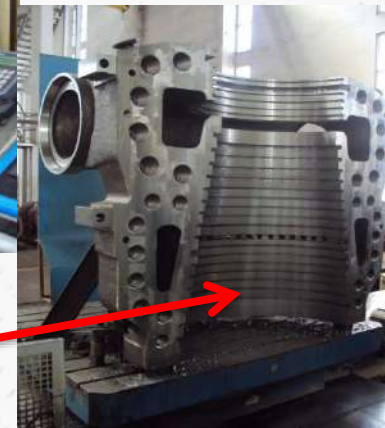


STEP
BORING
ATTACH
MENT

FACING, DRILLING, V
ERTICAL SPOT
FACING



INTERNAL GROOVING
OF TURBINE CASING



Machining of Parting Planes for Hydraulic Steam Turbines



LONG
ANGULAR
DRILLING



Face milling & Blue Matching Operation



**FACE
MILLING**



**BLUE
MACHING**

Dedicated Turning Lines

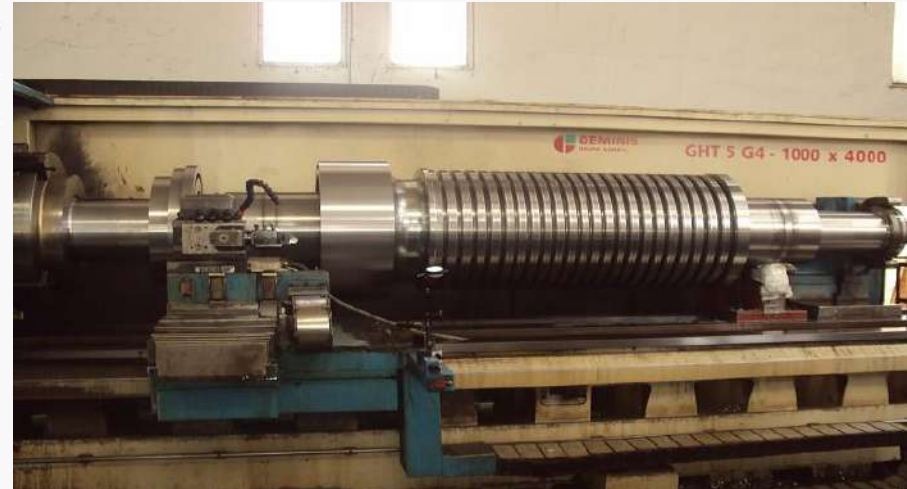


Steam Turbine Shafts

30MW

SWING OVER DIA Ø2200mm & LG-6300mm

250MW



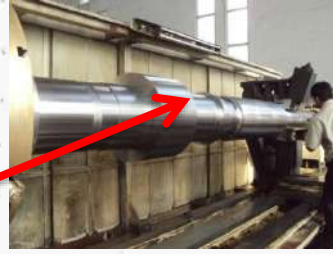
500MW



Steam Turbine Exciter Shafts



Turning with steady rest attachment



Grooving



VALVE COVER



Grooves marking

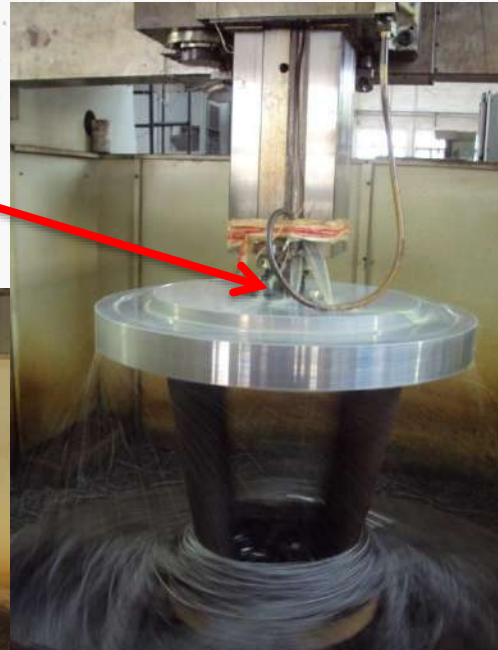


Finish Job



Various Components on VTL M/c.

**YOKE
STRAINER**



**OIL
SEAL**



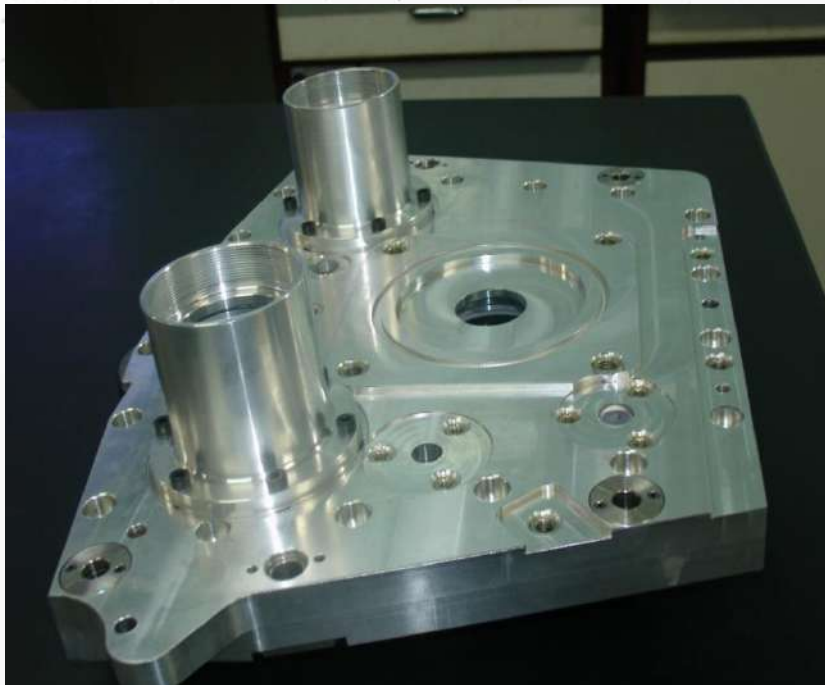
Turbine Casing Assembly



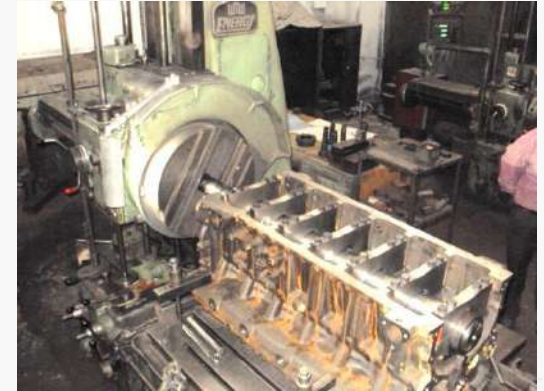
BHEL Turbine Shaft



Medical Housing – Machining



Crankcase Machining



Welding Components



Welding & Machining Components





Thank you...



PMT MACHINES LIMITED

Head office & Works: P.O. Box No. 1102, Behind PCMC Building, Mumbai Pune Road Pimpri
Pune - 411018, Maharashtra India .

Tel: +91-99600 55233, +91 - 86000 02655 | Email: rd@pmtmachines.com | marketing@pmtmachines.com