

TSE

Quality
Engineering
Solutions

توربو ستار الخدمات الفنية ش.ذ.م.م.
TurboStar Technical Services L.L.C.

Introduction

Hydrodynamic Bearings

Turbostar specializes in manufacture and repairs of hydrodynamic bearings for rotating machinery. Our capabilities include both centrifugally and statically cast Babbitt bearings. Our proprietary methods allow us to achieve a 100% bond and porosity free bearings. All bearings are checked dimensionally to verify both bore and housing fits.

Our products include a complete line of journal / sleeve bearings, tilting pad journal bearings, equalizing and non-equalizing tilting pad thrust bearings, flat and tapered-land thrust plates for light and heavy industrial equipment for oil & gas, power plants, and marine sectors. The parts are produced with high quality precision, and absolute dedication to our customer's specifications and requirements.

Our technical team is exceptionally skilled with over 15 years of experience in the industry. Turbostar has the capability to re-engineer products using samples or base data.



With a climate controlled facility located in the UAE, Turbostar operates working with service companies and end users in oil and gas, petrochemical and power generation industries. Our facilities include a specialist Design and Engineering department, extensive CNC Machine Shop, dedicated Service and Repair Cell and a state of the art Training Facility.

Specialized On-site Engineering & Fabrication Services

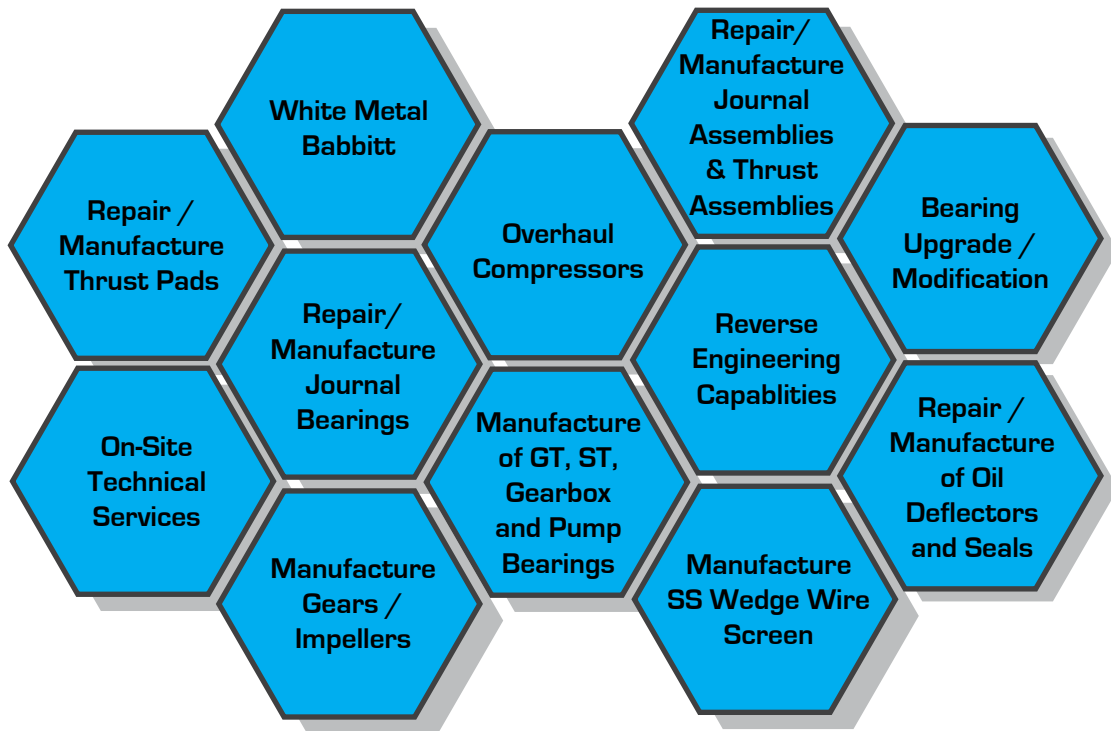
Turbostar engineering provides services in the field of fabrication, erection, testing and commissioning of all kinds of turbine, generator, ESP., boiler, HRSG, structural pipe line, etc. In the area of power plants, steel plants and Hydro carbon unit in middle east and Asia Pacific Region. TSE Uniquely combines the expertise of field tradesmen and professional engineers to offer the most comprehensive service.

- Erection, Testing & Commissioning of Steam Turbine & Its Auxiliaries up to 800MW
- Erection, Testing & Commissioning of Gas Turbine & Its Auxiliaries up to Frame 9
- Erection, Testing & Commissioning of Boiler ,ESP, Structure, Rotating & Its Auxiliaries
- Erection, Testing & Commissioning of Power Cycle Piping including P91
- Overhauling of Boiler, Mills, Fans etc
- Annual Maintenance service for Pressure parts, Mills, APH etc
- Erection and Overhauling of HRSG
- Fabrication and Erection of Main stack and bypass stack



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Products and Services.



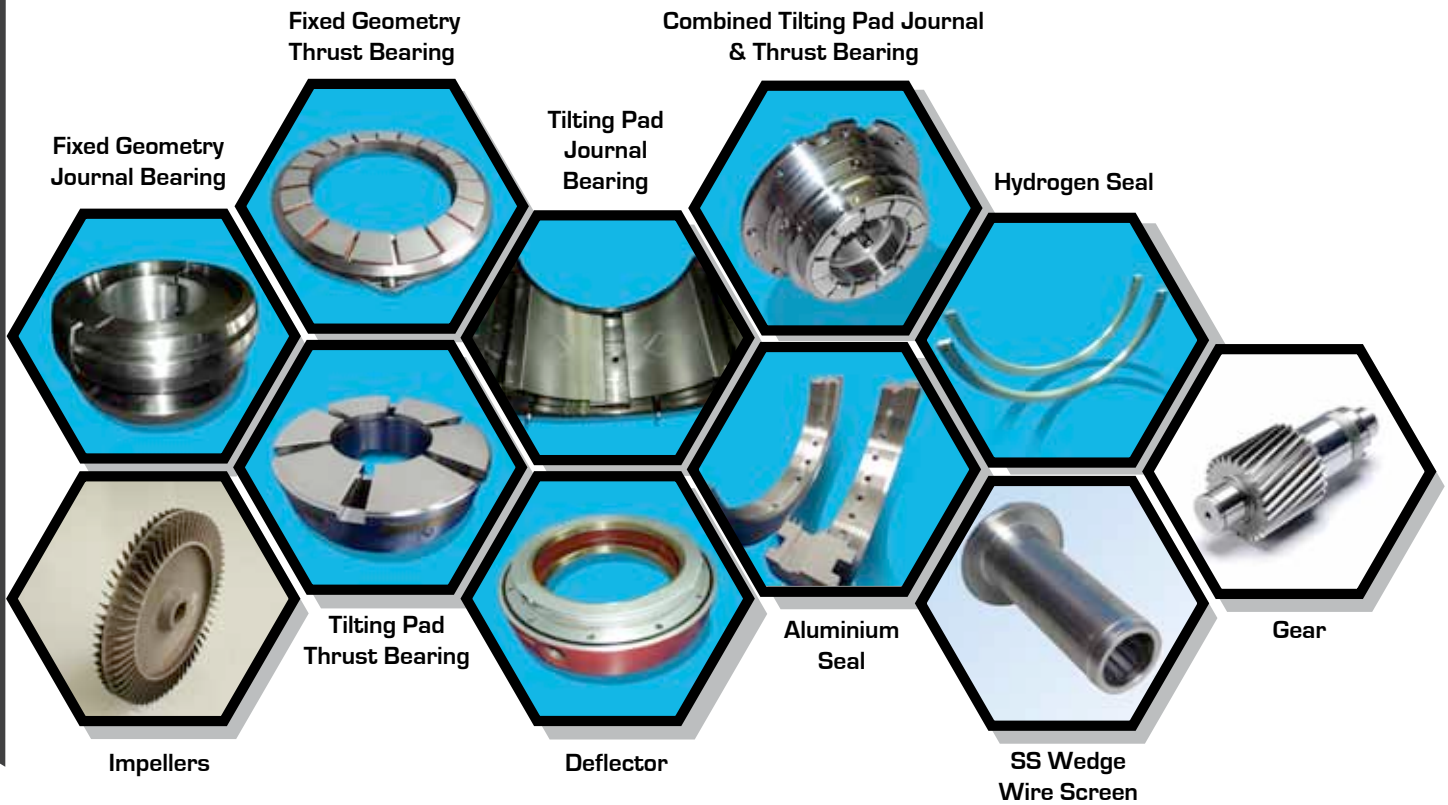
Machine Types

- Gas Turbines
- Steam Turbines
- Turbochargers
- Compressors
- Gear Boxes
- Electric Motors
- Generators
- Pumps
- Diesel engines
- Fans



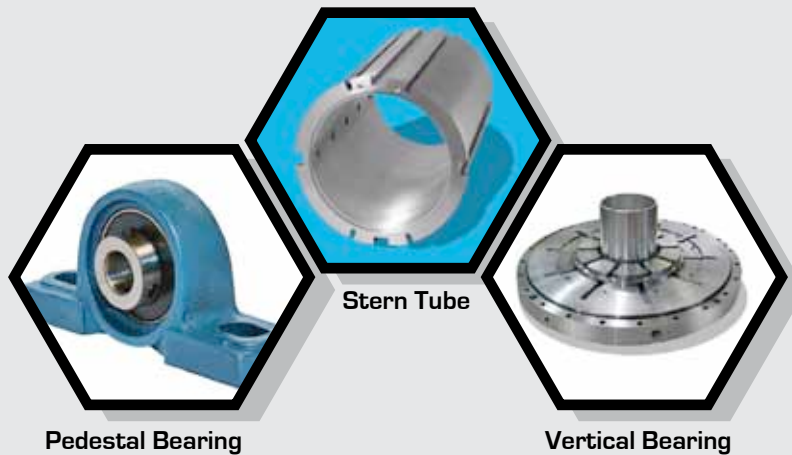
Product Range

- Fixed Geometry Journal Bearings
- Fixed Geometry Thrust Bearings
- Tilting Pad Thrust Bearings
- Tilting Pad Journal Bearings
- Combined Tilting Pad Journal & Thrust Bearings
- Crossheads
- Oil Deflectors
- Aluminium Seals
- Hydrogen Seals
- Gears
- Impellers
- SS Wedge Wire Screen & Filter
- Wiper Seal



Bearing Range Also Includes

- Vertical bearings for vertical pumps
- Stern tubes/ pedestal bearings for marine application
- Repairs and manufacture of different designs of thrust assembly bearings



Bearings and On-site Technical Service Support

Expertise

- ◇ Centrifugal Spin Casting Technology
- ◇ Virgin White Metal
- ◇ Warranty
- ◇ Quality Assurance; ISO Certified
- ◇ State of the Art Manufacturing and Repair Unit in Dubai
- ◇ Over 15 years experience in White Metallurgy, Oil and Gas, Power, Petrochemical and Process Industries
- ◇ Qualified and Experienced Engineers
- ◇ Working Knowledge On Power Plant & Process Plant.
- ◇ Adequate Skilled Manpower
- ◇ NDT Engineers and Technicians.
- ◇ Field Quality Assurance.
- ◇ International Safety Standards

Areas of Application

- Oil & Gas
(Uptream/Midstream/Downstream)
- Gas Power Plants
- Hydroelectric Power Plants
- Thermoelectric Power Plants
- Nuclear Power Plants
- Alluminium Smelting Plants
- Refineries
- Petrochemical Plants
- Cement Plants
- Mills
- Mining Industry



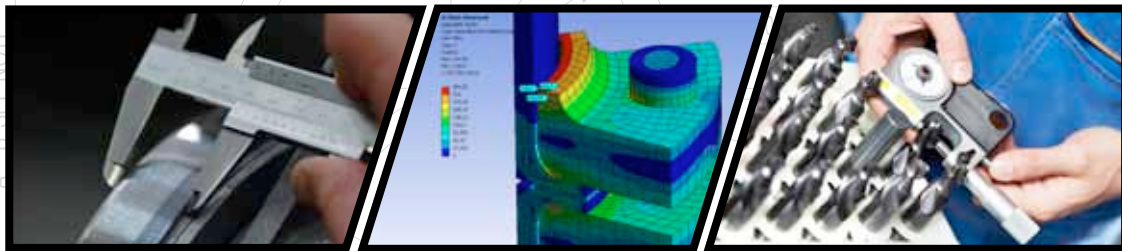
Emergency Service

Turbostar has the capability to efficiently handle unexpected outages of our customers, providing quick turnarounds of the highest quality.

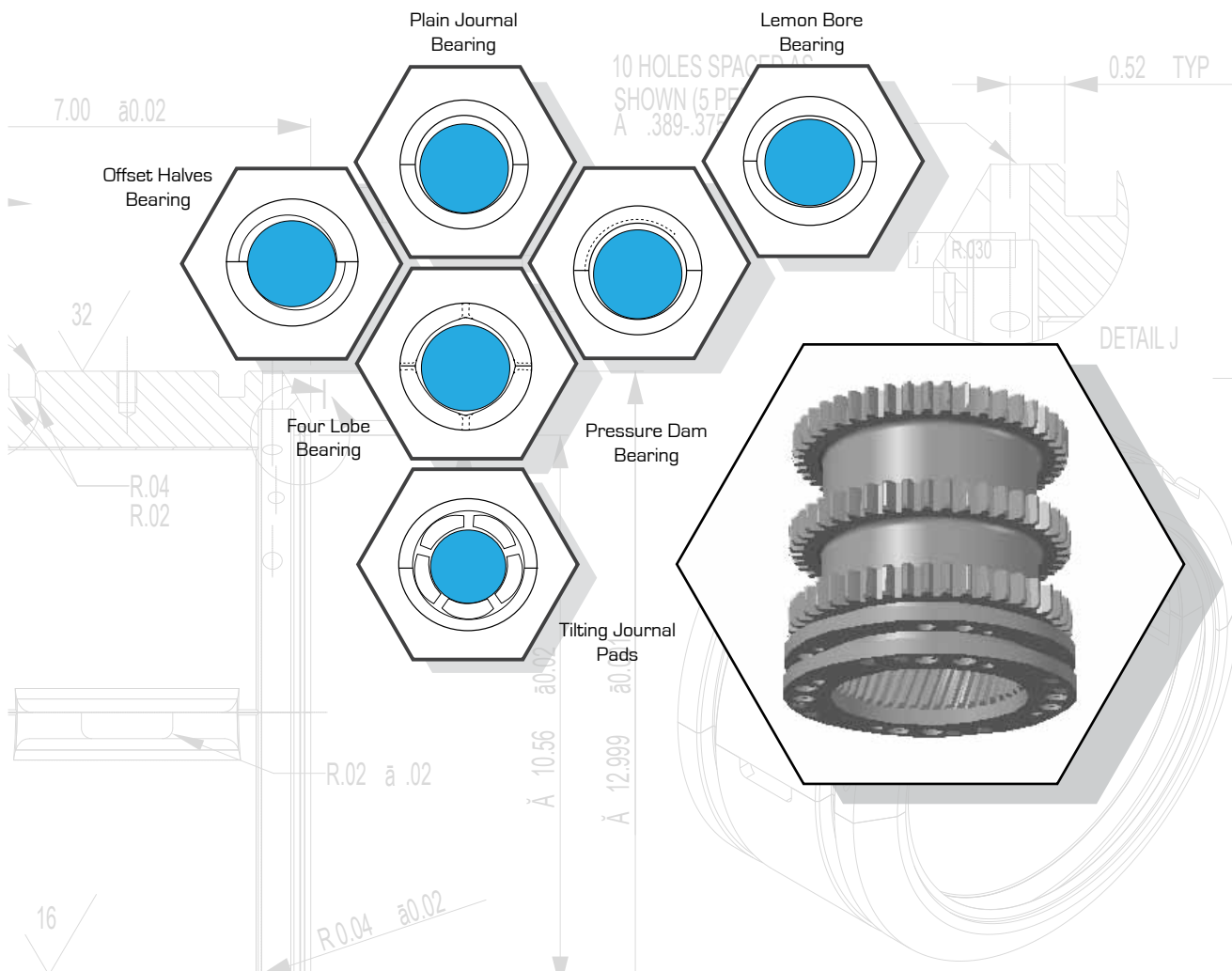
Engineering & Technical Support

SHEET:1/2

- Centrifugal Spin Casting Technology
- Reverse Engineering / Re-Engineering
- Bearing Failure Analysis
- On Site NDT Inspection
- 24 x 7 Engineering Support
- Emergency Turn Around



Bearing Designs



Quality Assurance

To meet today's stringent quality control and associated certification requirements all the bearings must pass inspection. All functional dimensions are recorded, and material certificates are issued where required. Intensive NDT checks like dimensional, Dye penetrant and ultra-sonic inspection ensures that the product delivered is of the best quality.

All quality control procedures are reported on individual certificates as per the ISO norms, and if required bearings can be marked with the relevant 'Own Customer Identification Codes'.



All the parts are repaired to OEM standards which includes:

- Incoming inspection
- Removal of existing white metal
- Surface preparation
- White metal by centrifugal casting
- Proof Machining
- Staged inspection
- Machining
- Fitting
- Final inspection
- Packing
- Dispatch



Incoming and final reports include

- Dimensional check
- Ultrasonic test
- Dye penetrant
- Material analysis of white metal



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