



## TURBOMACHINERY SERVICES



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**Maintenance, Repair & Overhaul  
Services of Turbomachinery**

# TURBOMACHINERY SERVICES



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## Introduction

PT Torishima Guna Engineering (TGE) is a Joint Venture Company between Torishima Pump Japan and PT Guna Elektro.

TGE is a national company providing Industrial Pumps, Mechanical Electrical Contracting, Turbomachinery Services, Operation & Maintenance Services.

TGE Turbomachinery Services (TMS) is the newest Division of TGE, which provides Rotating Equipment Services with several OEM partners. TGE offers alternative solutions with cost effectiveness and excellent quality.



## OUR WORKSHOP



TGE TMS Central Workshop is strategically located in the MM 2100 Industrial Estate in Cibitung, West Java.

### Workshop Detail

NO	DESCRIPTION	SPECIFICATION
1.	Land Area	15,000 m <sup>2</sup>
2.	Workshop Space	2,160 m <sup>2</sup> (30m x 72m)
3.	Workshop	height 15 m
4.	Office Space	864 m <sup>2</sup>
5.	Overhead Crane Capacity	40 T / 5 T
6.	Electricity	1 MW

### Machinery (Main)

NO	DESCRIPTION	SPECIFICATION
1.	Balancing Machine	Capacity 50 T
2.	Balancing Machine	Capacity 3 T
3.	Line Boring Machine	for Multistage Casing Bore Machining
4.	Small Lathe Machine	Milling Machine
5.	TIG Welding Machine Equipment	Coacting and Blasting
6.	Equipped by Fuji Electric	
	- Horizontal Lathe Machine (Big)	Swing Over Bed 4.500 mm x 12.000 mm
	- Horizontal Lathe Machine (Small)	Swing Over Bed 1.200 mm x 2.000 mm
	- Vertical Lathe Machine	Table Dia. 4.500 mm x 1.250 mm

## OUR CAPABILITIES

We following services :

### 1. TURBOMACHINERY FIELD SERVICES

- Turbine Mechanical Works
- Generator Mechanical Works
- Other Works : Valve, Pump, Strainer, etc

### 2. TURBOMACHINERY WORKSHOP SERVICES

- Turbine Overhauls from Supervision up to Total Project Management.
- Turbine Blading including removal of blades, blade refurbishment, fitting and erosion shields, lacing wire and fitting of new blades and shrouding.
- Machining for rectification and refurbishment works.
- Vibration & noise analysis and its rectification with in-house specialist.
- Alignment works and its solution / rectification.
- Components and parts repair and manufacturing.

### 3. ELECTRICAL & INSTRUMENTATION INSPECTION

- Generator Electrical Inspection
- Transformer Works
- Generator Protection
- Medium Voltage Switchgear
- Low Voltage Switchgear
- Insulated Phase Bus
- Low Voltage MCC
- Grounding Measurement
- Battery Charger

## OUR SERVICES

PT Torishima Guna Engineering Turbomachinery Services as rotating equipment services center can provide wide range of rotating equipment services such as :

- Remanufacturing
- Repair & Refurbishment
- Overhaul and Reconditioning of Steam and Gas Turbines
- Compressors
- Generators
- Expanders
- Pumps
- Valves

PT Torishima Guna Engineering Turbomachinery Services currently have expertise and certified engineers for following areas :

### Refurbishment / Recondition

Power Generation, Oil & Gas, Petrochemical, Palm Oil, Sugar, Pulp & Paper	- Steam Turbines	
	- Gas Turbines	
	- Pumps	
	- Compressors	
	- Other Rotating Equipments	

### Welding Repair

Power Generation, Oil & Gas, Petrochemical, Palm Oil, Sugar, Pulp & Paper	- Re-Babbit Sleeve Bearing	
	- Rebuild Pump Impeller & Casing	
	- Steam Turbines Rotor & Stator	
	- Hot Gas of Gas Turbine Parts	

### Machining / Manufacturing

Power Generation, Oil & Gas, Petrochemical, Palm Oil, Sugar, Pulp & Paper	<ul style="list-style-type: none"> <li>• <b>Centrifugal Pumps Parts</b>  <i>all rotating and stationary parts including impeller, casing, sleeve bearing, shaft, wear part, etc</i></li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>Turbine Parts</b>  <i>all rotating and stationary parts including disc, blade, shaft, sleeve bearing, labyrinth, etc.</i></li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>Compressor Parts</b>  <i>all rotating and stationary parts including impeller, casing, sleeve bearing, shaft, etc.</i></li> </ul>	



Our turbine plant expertise is based on decades of experience on steam & gas turbine, generator maintenance and overhauls as well as modernisation of turbine control and protection systems.

