#### **BUSINESS FOCUS**

#### **ROTATING EQUIPMENT**

#### SERVICES

- Gas Turbine
- Centrifugal Compressor
- Single & Multi Stage Pump
- Steam Turbine
- Turbo Charger
- Rotary Pump
- Vertical Turbine Pump
- Reciprocating Pump

#### TRAINING

- Balancing
- Compressor
- Gas Turbine
- Pump
- Steam Turbine
- Vibration
- Maintenance

#### HEAVY DUTY GAS TURBINE COMPONENTS

#### REPAIR

- Gas Turbine Blades
- Gas Turbine Vanes
- Transition Pieces
- Openhoration Doctor
- Combustion Baskets
- Shroud BlocksRing Seaments
- Compressor Blades
- Compressor Stators
- Compressor Diaphragms
- Lock Plates
- Transition Clamp Shells
- Fuel Nozzles

#### **MANUFACTURING**

Steam Turbine

## MAINTENANCE, REPAIR & OVERHAUL INDUSTRIAL ROTATING EQUIPMENT

#### **INDUSTRIAL GAS TURBINE**

- Allison 501 K
- Kongsberg KG-2
- Rolls Royce Avon & RB 211
- Solar Saturn
- Solar Centaur
- Solar Taurus
- Various Industrial Turbine
- Kawasaki

#### **HEAVY DUTY GAS TURBINE, SUCH AS**

- Mitsubishi MH701D
- Westinghouse Electric
- GE : Frame 5,6,7 and 9,
- ALSTOM (ABB 13E1, 13E2)
- Siemens V94.2, W191, W251, W501D

#### **HEAVY DUTY INDUSTRIAL COATING**

- SermeTel® 725 coating system for gas turbine compressor rotor & stator
- SermeTel<sup>®</sup> 530 OS coating system for gas turbine compressor working on site
- SermeTel® 5380 DP coating system for gas turbine compressor rotor & stator
- Sermalon® coating system for centrifugal compressor

#### **CERTIFICATION/APPROVAL**

• Solar Turbine - Caterpillar - USA • KAN (Komite Akreditasi Nasional) - Calibration Laboratory, Indonesia • ISO 9001:2008 of DNV (Det Norske Veritas), Netherlands









Head Office / Workshop:
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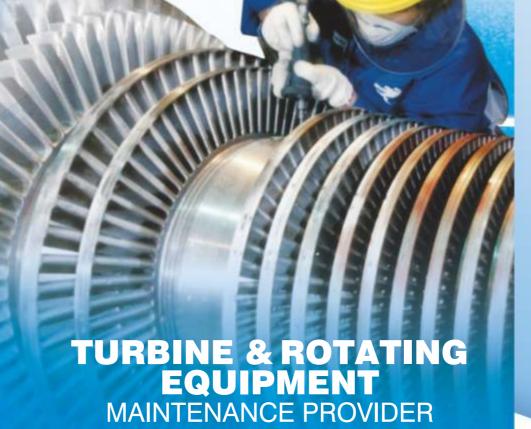
#### Attn. Taryadi

VP & GM Industrial Turbine Services
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Fax. : (62 22) 603 1851, 603 7747
E-mail : taryadi@umcntp.co.id

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Solar Turbines

A Caterpillar Company

UMC-Industrial Turbine Services Division (UMC NTP) is a well established, highly sophisticated, pioneering and leading company on Rotating Equipment repair and overhaul facility in Indonesia.

Founded in 1986 as a division of PT IPTN sustained investment, UMC developed into a well trained and dedicated work force serving customers from within Asia and the United States

Certification has been received from Air Worthiness Agencies such as DAAO of Indonesia, FAA-USA and EASA - EU in addition, UMC-NTP is an approved and authorized by the world's leading gas turbine engine and other rotating equipment.

NTP is organized to provide Total Quality Management (TQM) and complies with ISO 9001:2008.

The test cell complex includes two 6000 SHP dynamometer cells, a jet cell capable of testing engines up to 100,000 LB thrust, and a Solar Turbine test cell.

Also, NTP had experienced into manufacturing component and aircraft engines after reaching an agreement with the original engine manufacturer.

Our aim is to continually enhance our capabilities to meet the challenge of supporting customers on a world wide scale.



# INDUSTRIAL CUSTOMERS

- OIL AND GAS SECTOR
   ELECTRIC POWER PLANT
- CHEMICAL & FERTILIZER
- AGRO INDUSTRY
- GENERAL INDUSTRIES



### **SPECIAL PROGRAM**



#### **HUMAN RESOURCES TRAINING**

We, at NTP, consider out people as our most valuable assets. Therefore we intentionally establish our sophisticated facilities to fully support our efforts to enhance our people's skills and performance. We organize regular training programs that cover skill and knowledge improvements. These training programs are formally acknowledged by a number of the world's best rotating equipment manufacturers.

We also grant scholarship programs called "The Industrial Apprentice Training".
Successful candidates who passed the selection will undergo intensive learning, with all costs and expenses fully covered by NTP.

#### FIELD SERVICES

Rotating equipment constitutes the critical component in all industrial fields. NTP of which business focuses in the rotating equipment repair has formed a task force to perform the field service.

#### **BASIC PROCESSES**

- Engine Controls/Accessories Repair & OverhaulEngine/Module Stripping & Rebuilding
- Engine Testing
- Rotor Balancing

#### INSPECTION

- Bearing Analyzer
- Boroscope
- Coordinate Measuring Machine
- Eddy Current
- Electrical Runout
- Fluorescent Penetran
- Magnetic Particle
- Over Speed Trip Device
- Radiography
- Visual & Precise Dimension

#### **HEAT TREATMENT**

- Hydrogen Furnance
- Local Age
- Vacuum Furnace

#### SURFACE TREATMENT

- Painting
- Wire Spray (Sprababbit, sprabronze, stainless steel)Termo Spray (Ni Graphite, Ni Al)

- Plasma Spray (chromium carbide, tungsten carbide, cobalt, polyester)
  Electro Plating (copper, nickel, hard chrome, silver, tin, cadmium, black oxide)
- Selectron Plating
- Shot Peening

#### **MACHINING**

- Boring
- Electrical Discharge Machine
- Grinding
- Lathe Milling

#### Chemical

- Mechanical
- Dabber Ultrasonic
  - MIG
  - TIG

Brazing

