General Specifications

Taurus™ 60 Gas Turbine
• Industrial, Two Shaft
• Axial Compressor
  – 12 Stage
  – Variable Inlet Guide Vanes
  – Pressure Ratio: 12.2:1
  – Inlet Airflow:
    21.3 kg/sec (47.0 lb/sec)
  – Vertically Split Case
• Combustion Chamber
  – Annular Type
  – Conventional or Lean-Premixed, Dry, Low Emission (SoLoNOX™)
  – 12 Fuel Injectors
  – Torch Ignitor System
• Gas Producer Turbine
  – 2 Stage, Reaction
  – Max. Speed: 15,000 rpm
• Power Turbine
  – 2 Stage, Reaction
  – Max. Speed: 14,300 rpm
• Bearings
  – Journal: Tilting Pad
  – Thrust, Active: Tilting Pad
  – Thrust, Inactive: Fixed Tapered Land
• Coatings
  – Compressor: Inorganic Aluminum
  – Turbine Nozzles and Blades: Precious Metal Diffusion Aluminide
• Vibration Transducer Type
  – Velocity
  – Proximity Probes

Key Package Features

• Driver Skid with Drip Pans
• 316L Stainless Steel Piping ≤ 4"
• Compression-Type Tube Fittings
• Electrical System Options
  – NEC Class I, Group D, Div. 1
  – CENELEC Zone 1
• Turbotronic™ Microprocessor Control System
  – Freestanding Control Console
  – Color Video Display
  – Vibration Monitoring
• Control Options
  – 120-VDC Control Battery/Charger System
  – Gas Turbine and Package Temperature Monitoring
  – Serial Link Supervisory Interface
  – Turbine Performance Map
  – Driven Equipment Performance Map
  – Historical Displays
  – Printer/Logger
  – Process Controls
  – Compressor Anti-Surge Control
  – Field Programming
• Start Systems
  – Pneumatic
  – Direct Drive AC
• Fuel System: Natural Gas
• Integrated Lube Oil System
• Lube Oil System Options
  – Oil Cooler
  – Oil Heater
  – Tank Vent Separator
  – Flame Trap
• Axial Compressor Cleaning System
  – On-Crank
  – On-Crank/On-Line
• Stationary Cleaning Tank
• Portable Cleaning Tank
• Gearbox (if applicable)
  – Speed increasers
  – Speed Decreasers
• Air Inlet and Exhaust System Options
• Enclosure and Associated Options
• Factory Testing of Turbine and Package
• Documentation
  – Drawings
  – Quality Control Data Book
  – Inspection and Test Plan
  – Test Reports
  – Operation and Maintenance Instruction Manual
**Performance**

- **Output Power**: 5740 kW (7700 hp)
- **Heat Rate**: 11,265 kJ/kW-hr (7965 Btu/hp-hr)
- **Exhaust Flow**: 77,880 kg/hr (171,690 lb/hr)
- **Exhaust Temp.**: 510°C (950°F)

**Nominal Rating – ISO**
- At 15°C (59°F), sea level
- No inlet/exhaust losses
- Relative humidity 60%
- Natural gas fuel with LHV = 35 MJ/m³ (940 Btu/scf)
- Optimum power turbine speed
- AC-driven accessories
- Engine efficiency: 32%

**Package Dimensions***

- **Length**: 6.0 m (19' 9'')
- **Width**: 2.5 m (8' 1'')
- **Height**: 2.7 m (8' 11'')
- **Typical Weight**: 15,420 kg (34,000 lb)

*Driver package only, dry weight, unenclosed height

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**Oil & Gas Applications**

**TAURUS 60**
Gas Turbine Mechanical-Drive Package

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**FOR MORE INFORMATION**

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