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**
  - 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**
  - Turbine-Driven Accessories
- **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 Inokers
  - 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

Available Power

Output Power: 5740 kW (7700 hp)
Heat Rate: 11,250 kJ/kW-hr (7950 Btu/hp-hr)
Exhaust Flow: 77,980 kg/hr (171,910 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
Without 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