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
- Driven Equipment Skid
  - Compressor
  - Compressor Auxiliary Systems
- 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
  - Compressor 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
- Oil System Options
  - Oil Cooler
  - Oil Heater
  - Tank Vent Separator
  - Flame Trap
- Axial Compressor Cleaning Systems
  - On-Crank
  - On-Crank/On-Line
  - Stationary Cleaning Tank
- Gearbox (if applicable)
  - Speed Increaser
  - Speed Decreaser
- 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

Oil & Gas Applications

TAURUS 60 Gas Turbine Compressor Set
Performance

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/nm3 (940 Btu/scf)
Optimum power turbine speed
Without driven accessories
Engine efficiency: 32%

Available Power

<table>
<thead>
<tr>
<th>Temperature (°C)</th>
<th>Output Power (kW)</th>
<th>Heat Rate (MJ/kW-hr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>-30.0</td>
<td>45.0</td>
<td>12.5</td>
</tr>
<tr>
<td>-15.0</td>
<td>6.600 (8850)</td>
<td>12.0 (8480)</td>
</tr>
<tr>
<td>0.0</td>
<td>4,950 (6640)</td>
<td>11.5 (8130)</td>
</tr>
<tr>
<td>15.0</td>
<td>4,400 (5900)</td>
<td>11.0 (7780)</td>
</tr>
<tr>
<td>30.0</td>
<td>4,050 (5550)</td>
<td>10.5 (7420)</td>
</tr>
</tbody>
</table>

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)

*Turbine package only, dry weight, unenclosed height