MT – Mid-Sized Turbine

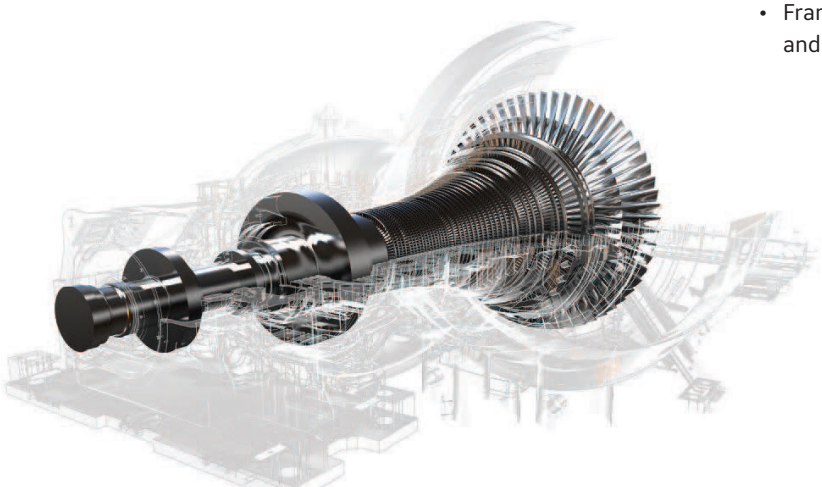
Superior Performance and Reliable package

The MT steam turbine offered by GE Oil & Gas is a robust, mid-sized turbine that provides superior efficiency for power generation applications. Its proven, integrated modular concept with simplified foundation design is a cost-effective solution, flexibly designed to meet to your requirements.

The MT unit's design combines a long proven concept with the latest advances in blade profiles and steam path design. It is available in reheat and non-reheat configurations. Axial and downward exhaust options facilitate an integration into almost any plant configuration.

Technical Specifications

Rated power output	50 – 170 MW, 50/60 Hz
Inlet pressure	Up to 175 bar
Inlet temperature	Up to 565° C
Turbine speed	3,000/3,600 rpm
Exhaust Area	Up to 9.5 m^2 (50 Hz), Up to 8.5 m^2 (60 Hz)
Number of bleeds	Up to 7
Internally controlled extraction pressure	
HP extraction	Up to 50 bar
LP extraction	Up to 8 bar
Casing	
Single casing	Double shell HP, single shell IP/LP section
Double casing	HP turbine module with flangeless inner casing IP/LP turbine module with double shell IP and single shell LP section
Rotor	Welded or one-piece forging
Generator	2 pole, GE or third-party vendor
Controller	GE or third party vendor



Key Features & Benefits

Efficient

- Fully customized steam path using latest 3D airfoil designs.
- Full range of top efficiency rear stages yield optimal performance at any cold end conditions.

Flexible

- Various sizes of control stage or scroll type inlets along with up to 2 additional steam admissions accommodate a wide range of steam cycle options.
- MT is available in reheat or non-reheat configurations with condensing or backpressure exhaust and optional HP and LP steam extractions for industrial applications.

Robust

- Outstanding reliability and availability proven in over 25 years of service in Utility, IPP, and industrial applications.
- The highly integrated, modular design provides customization and enhanced reliability.

Cost-Effective

- Axial exhaust design enables low level installation for reduced civil cost.
- Simplified power plant foundations reduce construction time.
- Frame mounted package provides cost-effective transport and simplified installation.

Scope of Offering

Base Scope

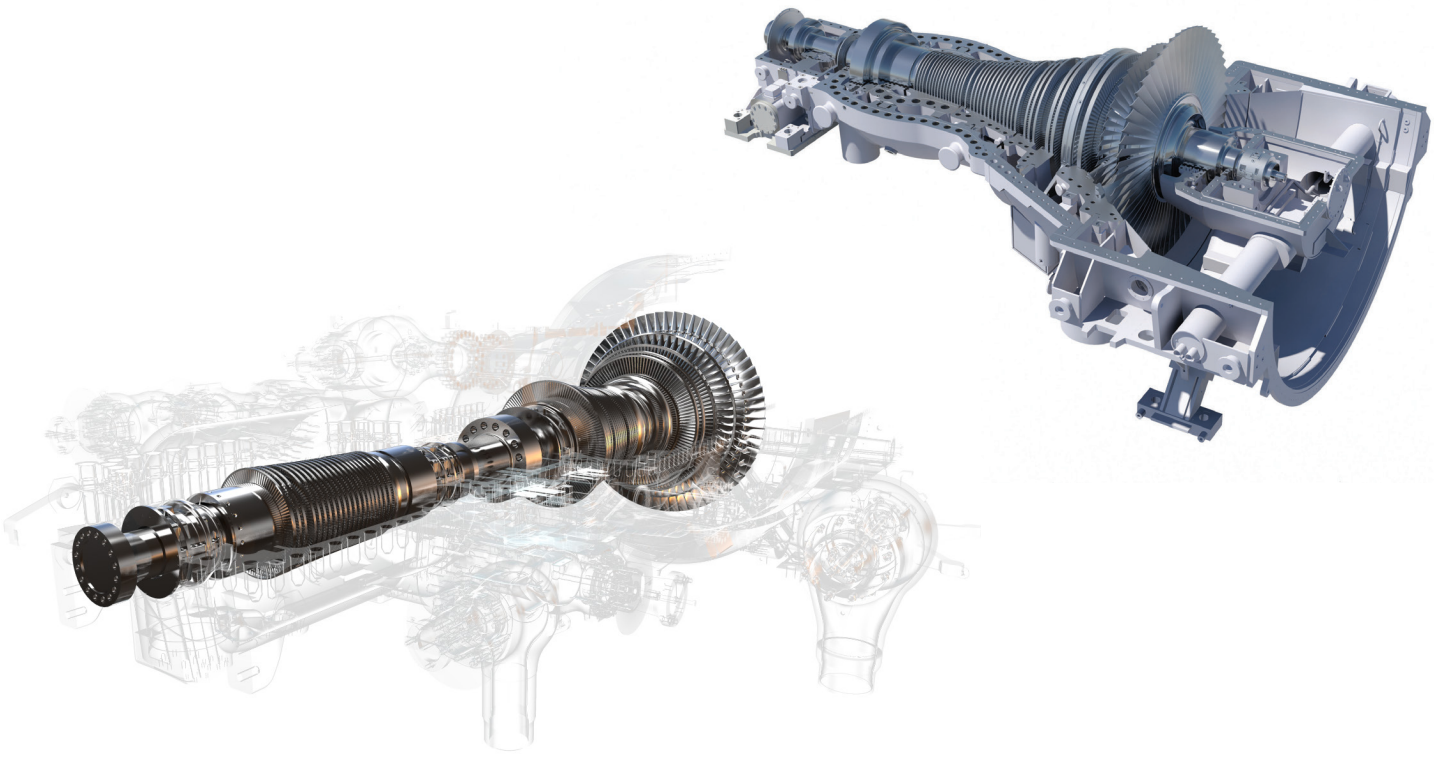
Equipment	Service
Steam turbine	• Project management, engineering, documentation, QA/QC services • Technical field advisory and commissioning advisory services • Site configurable controller supports on-site optimization
Generator	
Turbine control and protection system	
Admission/extraction control valves	
Lube and control oil system	
Gland sealing system (piping, gland steam-condenser)	

Extended Scope

Equipment	Service
Noise hood	• Onsite delivery of all materials and equipment • Documentation for plant permitting • Capital spare parts • ENG, PM+ on-site services for installation and commission of extended scope
Water-cooled condenser	
Feed water pre-heaters	
Condensate pumps	
Steam bypass system	
Interconnecting piping	

MT Steam Turbine Applications

Renewable Energy	Conventional Power Generation	Captive and Industrial
• Biomass	• Combined cycle plant	• Pulp and paper
• Concentrated Solar Power	• Fossil boiler plant	• Metals and mining
• Waste to Energy	• Combined heat & power (CHP)	• Chemicals
		• Sugar and ethanol
		• Cement



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