



# SGT-300

## Industrial gas turbine

The SGT-300 industrial gas turbine has a rugged industrial design that enables high efficiency, reliability, and excellent emissions performance in a broad spectrum of applications for both power generation and mechanical drive.

The gas turbine is a proven unit for all electrical power generation and cogeneration applications.

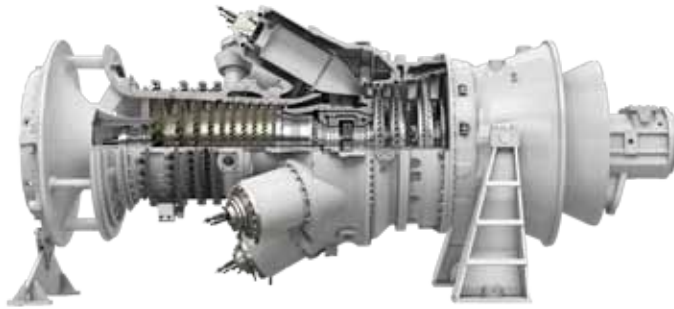
It operates on a wide range of gaseous and liquid fuels. The compact arrangement, on-site or off-site maintainability, and inherent reliability of the SGT-300 make it an ideal gas turbine for the demanding oil and gas industry.

### References

Over 140 units have been sold, with more than 4.5 million equivalent operating hours.



The SGT-300 twin-shaft version is used for mechanical drive



Twin-shaft design – evolutionary design focused on reliability



SGT-300 gas turbine package design

**Power generation: 7.9 MW(e)**  
**Mechanical drive: 8.2 MW**

- Low maintenance requirements
- Low emissions
- Single-shaft version for power generation, twin-shaft version for mechanical drive applications

	Simple cycle power generation	Mechanical drive applications
Power output	7.9 MW(e)	8.2 MW
Fuel	Natural gas, liquid fuel, dual fuel; other fuels on request; automatic changeover from primary to secondary fuel at any load	
Frequency	50/60 Hz	
Gross efficiency	30.6%	34.6%
Heat rate	11,773 kJ/kWh	10,400 kJ/kWh
Turbine speed	14,010 rpm	11,500 rpm
Pressure ratio	13.7 : 1	13.3 : 1
Exhaust gas flow	30.2 kg/s	29.0 kg/s
Exhaust temperature	542 °C (1,008 °F)	498 °C (924 °F)
NO <sub>x</sub> emissions	≤ 15 ppmvd at 15% O <sub>2</sub> on fuel gas (with DLE)	≤ 15 ppmvd at 15% O <sub>2</sub> on fuel gas (with DLE)

	Physical dimensions	
	Power generation package	Mechanical drive package
Approx. weight	59,000 kg (130,073 lb)	32,000 kg (70,548 lb)
Length	11.8 m (38.55 ft)	6.9 m (22.64 ft)
Width	2.9 m (9.35 ft)	2.9 m (9.35 ft)
Height	3.5 m (11.48 ft)	3.9 m (12.76 ft)

Note: Dimensions exclude inlet filter housing and exhaust stack. For power generation, AC generator is included. For mechanical drive, driven equipment is excluded.