

Technical Performance

Gas Turbine Range

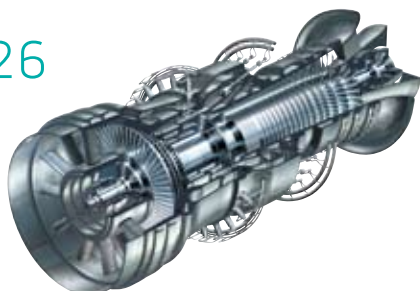
The ideal solution for all applications

Full range for simple and combined cycle power plants. Alstom gas turbines meet today's and future market needs.

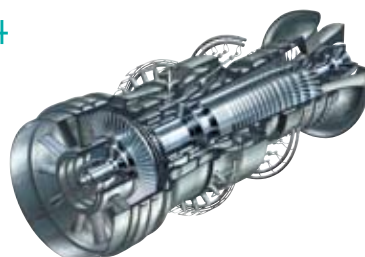
Alstom's gas turbines offer **outstanding performance, operating and fuel flexibility as well as availability**. Alstom's gas turbines are the ideal solution for all applications (simple cycle, combined cycle and cogeneration) and operating profiles.

- Superior value from high technology
- Today's products already feature tomorrow's requirements
- Evolutionary product development for highly reliable products

GT26



GT24



Key benefits

Advanced class gas turbine technology with superior part load efficiency and operational flexibility. Superior fuel flexibility for operating on the widest range of natural gas compositions.

GT26 - performance in combined cycle

Fuel	Natural Gas	
Frequency	Hz	50
Gross electrical output	MW	296.4
Gross electrical efficiency	%	39,6
Gross heat rate	kJ/kWh	9,091
Turbine speed	rpm	3,000
Compressor pressure ratio		33.3:1
Exhaust gas flow	kg/s	644
Exhaust gas temperature	°C	621
NOx emissions (at 15% O2 dry)	vppm	<<25

GT24 - performance in combined cycle

Fuel	Natural Gas	
Frequency	Hz	60
Gross electrical output	MW	193,8
Gross electrical efficiency	%	38,1
Gross heat rate	kJ/kWh	9,449
Turbine speed	rpm	3,600
Compressor pressure ratio		33.2:1
Exhaust gas flow	kg/s	447
Exhaust gas temperature	°C	616
NOx emissions (at 15% O2 dry)	vppm	<<25

General Notes:

1. Gas turbine gross electric output and heat rate at the generator terminals, including gearbox (where applicable) and generator losses but excluding duct and auxiliary losses.
2. Gas turbine performance calculated with 100% methane, ISO conditions. GT24/GT26 performance includes contribution of Once-Through-Cooler (OTC) to Water/Steam cycle.

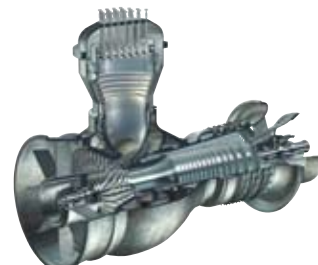
GT13E2



Key benefits

Conventional class gas turbine technology with superior performance and a unique flexible operation concept. Superior fuel flexibility for operating over the widest range of natural gas compositions.

GT11N2



Key benefits

Proven technology designed for operation under harshest conditions. Ideal for power production in steel plants, where Blast Furnace Gas can be burnt directly, without need for enrichment.

GT13E2 - performance in simple cycle

Fuel	Natural Gas	
Frequency	Hz	50
Gross electrical output	MW	184,5
Gross electrical efficiency	%	37,8
Gross heat rate	kJ/kWh	9,524
Turbine speed	rpm	3,000
Compressor pressure ratio		16.9:1
Exhaust gas flow	kg/s	565
Exhaust gas temperature	°C	505
NOx emissions (at 15% O2 dry)	vppm	<25

GT13E2 Note:
 Burners for medium calorific gases (MBTU) also available

GT11N2 (EV combustor) - performance in simple cycle

Fuel	Natural Gas	
Frequency	Hz	50
Gross electrical output	MW	113,6
Gross electrical efficiency	%	33,3
Gross heat rate	kJ/kWh	10,811
Turbine speed	rpm	3,610
Compressor pressure ratio		16.0:1
Exhaust gas flow	kg/s	400
Exhaust gas temperature	°C	525
NOx emissions (at 15% O2 dry)	vppm	<25

Fuel	Natural Gas	
Frequency	Hz	60
Gross electrical output	MW	115,4
Gross electrical efficiency	%	33,9
Gross heat rate	kJ/kWh	10,619
Turbine speed	rpm	3,600
Compressor pressure ratio		15.9:1
Exhaust gas flow	kg/s	400
Exhaust gas temperature	°C	526
NOx emissions (at 15% O2 dry)	vppm	<25

GT11N2 Note:
 Combustor for low calorific gases (LBTU) burns blast furnace gas with heating values as low as 2,200 kJ/kg without enrichment with higher calorific gases.

For more information
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