



# **CENTRAX**

## GAS TURBINES

Centrax creates a series of high-efficiency power generation packages, using Siemens Energy gas turbine technology.

Centrax has been powering industry since 1946. Its gas turbine generator packages provide stable and reliable energy installations to suit a wide range of industries and power applications.

**Centrax Gas Turbines**, based in the South West of England, is an independent company which serves a diverse international market – delivering complete power generation solutions, from design and engineering to assembly and maintenance. Centrax is committed to providing exceptional customer care with a personal touch. A global company, with a broad customer base throughout the world it employs approximately 250 people.

Centrax Gas Turbines specialises in the manufacture and service of gas turbine powered generator sets ranging from 3 MW to 15 MW that use core engines from Siemens Energy. The generator sets are used mainly for combined heat and power but also in base load, simple cycle and standby applications. Building complete factory-packaged gas turbine-powered electrical generator sets installation in a wide range of industries including oil and gas.

### Products

#### CX300

This package is the class leader in engine power and efficiency in the 7-9MW range of gas turbines. Featuring our most efficient Siemens Energy core engine, the CX300 is highly flexible, making it an excellent choice for an array of power generation applications.



#### Package features:

- ◆ Outputs in the range of 7.9-8.5 MW and is industry leading for engine power and electrical efficiency in this bracket
- ◆ The package incorporates the Siemens Energy SGT-300 core engine
- ◆ Suitable for multiple applications, including simple cycle, base load, standby power and peak demand power plants
- ◆ Offers cogeneration option for industrial plants with high heat load and for district heating schemes
- ◆ Low gas pressure requirements
- ◆ Factory-tested package designed for quick, cost-efficient installation and commissioning

	CX300 (7.9 MW)	CX300(8.5MW)
Power	7.9MW	8.6MW
Efficiency	30.9%	34.7%
Heat Rate	11,643kJ/kWh	10,374kJ/kWh
Exhaust Flow	30.2kg/s	30.1kg/s
Exhaust Gas Temp	536°C	498°C

**Notes:** Based on ISO conditions. Liquid fuel is also an option

# Centrax



## CX400

The CX400 is Centrax' most powerful generator set. It tops its class for engine power and electrical efficiency in the 10-15 MW gas turbine range. Featuring flexibility and excellent emissions performance, the CX400 is the ideal solution for a variety of energy-demanding applications.

### Package features:

- ◆ A range of engine variants available, from 10 – 15 MW, to closely match the customers energy requirements
- ◆ The package incorporates the Siemens Energy SGT-400 core engine
- ◆ Very high efficiency (normal 35%) combined with a compact industrial design
- ◆ Suited to simple-cycle, base load, standby power and peak demand power plants
- ◆ Allows cogeneration for industrial plants with high heat load and for district heating schemes with overall potential plant efficiencies of over 80%
- ◆ Minimal customer interfaces
- ◆ Factory-tested package before despatch, enabling faster installation

	CX400 (10.5MW)	CX400(12.9MW)	CX400(14.4MW)
Power	10.1MW	13.4MW	14.5MW
Efficiency	34.5%	35.8%	36.0%
Heat Rate	10,428kJ/kWh	10,069kJ/kWh	9,989kJ/kWh
Exhaust Flow	33.4kg/s	40.5kg/s	44.5kg/s
Exhaust Gas Temp	519°C	543°C	529°C

Notes: Based on ISO conditions. Liquid fuel is also an option

## CXA05

A generator package that combines high levels of operational flexibility with low weights for their power output, making them ideal for a range of settings. Incorporating high-performance Siemens Energy engines, they deliver versatile and efficient energy solutions.

### Package features:

- ◆ Power generation in the range of 3.9-5.3 MW
- ◆ Aeroderivative Siemens Energy turbine 501-K engine
- ◆ Compact design and high power-to-weight ratio-generator set load of only 40 tonnes means lower foundation costs than for non-aeroderivative gas turbines
- ◆ CHIP, flexible and standby power applications
- ◆ Can run on a wide range of fuel gases, including natural and landfill
- ◆ Able to operate in extreme climates, withstanding temperatures from -60°C to +55°C
- ◆ Fully integrated controls, motor control centre and batteries – allowing for a fast installation and minimal site area
- ◆ Package fully tested prior to dispatch, reducing the commissioning period and usage of site utilities

	CXA05-KB5	CXA05-KB7HE
Power	3.9MW	5.7MW
Efficiency	28.7%	32.6%
Heat Rate	12,557kJ/kWh	11,052kJ/kWh
Exhaust Flow	15.7kg/s	21.3kg/s
Exhaust Gas Temp	555°C	511°C

Notes: Based on ISO conditions. Liquid fuel is also an option.

Steam and water injection gas turbines are also available for enhanced power and emissions control.

## Compliance with European Directives

All Centrax generator packages sold for service in Europe carry the CE mark indicating compliance with relevant directives at point of sale. Each package is issued with a declaration of conformity.

- ◆ Machinery - 2006/42/EEC
- ◆ Pressurised Equipment (PED) - 2014/68/EU

Centrax Limited is approved to ISO 9001:2008 - the international standard of quality assurance and ISO 14001 - the international standard for environmental management.



**Dawcul is an authorised distributor for Centrax across Eastern Europe.**  
**For more information please contact your local regional representative.**



Your partner in energy since 1977