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OUR PRODUCTS

Centrax creates a series of high-efficiency gas turbine-powered generator packages to suit a wide range of industries and power applications.

Every package uses reliable, high-performance Siemens core engines – and with power outputs ranging from 3 MW to 15 MW, our products can be scaled to match our customers' specific energy needs.

Our gas turbine technology delivers a number of essential advantages. It offers a fast power response, performs well at peak demand and copes capably with flexible demand.

These features make our packages ideal in standby and grid stability applications. What's more, gas turbines work flexibly with a range of gas sources – so you can use natural, landfill, flare and other process gases that might otherwise be wasted.

Whether you need power for district heating, oil or gas, a hospital or an energy-intensive industry, Centrax can engineer a generator package tailored to your specifications. Our standards-compliant range of energy products, combined with our global reach and exceptional comprehensive customer care, make Centrax a smart choice for power generation.



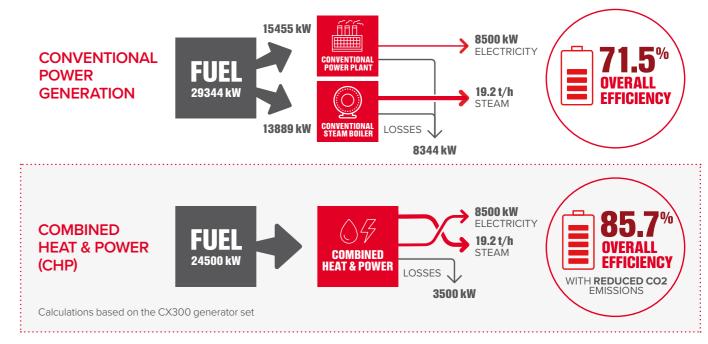
WE ARE CE COMPLIANT IN ACCORDANCE WITH THE FOLLOWING DIRECTIVES:

Low Voltage Equipment (LVD) – 2014/35/EU • Electromagnetic Compatibility (EMC) – 2014/30/EU Machinery - 2006/42/EC • Potentially Explosive Atmospheres (ATEX) – 2014/34/EU Pressurised Equipment (PED) - 2014/68/EU

COMBINED HEAT & POWER (CHP)

This popular application of our gas turbine packages offers a highly efficient way to meet your energy demands.

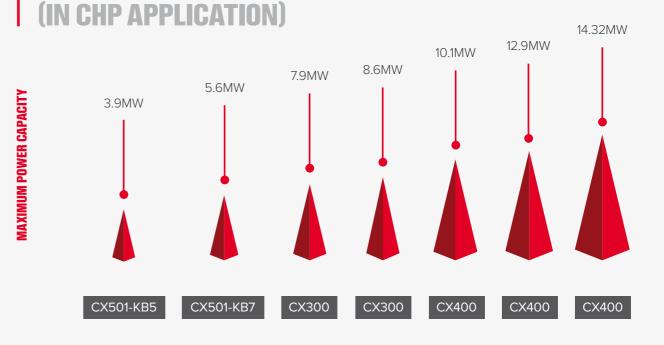
Unlike conventional power generation, CHP not only provides electricity but also makes use of the waste heat that is produced. This heat energy can be harnessed to create the steam, hot water and hot air needed in your manufacturing processes or district heating scheme. This clever technique, when designed and installed with Centrax's ingenuity, delivers a highly efficient, fuel-saving system for your industry or energy project.



All figures are approximate and graphical representations for illustrative purposes only.

16.5% Primary Energy Savings (PES) = 9928 tonnes CO₂ reduction per year with the CX300.

OUR GENERATOR PACKAGES AT A GLANCE



GENERATOR PACKAGE MODEL

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PACKAGE FEATURES

- ✓ Power generation in the range of 3.9 to 5.6 MW
- ✓ Aeroderivative Siemens 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
- ✓ CHP, 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



PACKAGE SPECIFICATIONS

	Power	Efficiency	Heat Rate	Exhaust Flow	Exhaust Gas Temp
CX501-KB5	3,947 kW	29.10%	12,391 kJ/kWh	15.8 kg/s	555 °C
CX501-KB7	5,670 kW	32.4%	11,130 kJ/kWh	21.3 kg/s	521°C

Notes: Liquid fuel is also an option.

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

OUR PRODUCTS CX501

Our CX501 generator packages combine high levels of operational flexibility with low weights for their power output, making them ideal for a range of settings. Incorporating high-performance Siemens engines, they deliver versatile and efficient energy solutions.

THE CX501 IN ACTION

♀ BASF chemical plant, Italy

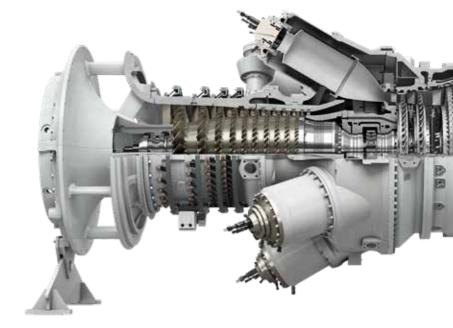
One of the world's largest chemical companies, BASF, commissioned Centrax to build a CX501-KB5 DLE generator package for its plant in Pontecchio Marconi, Italy. This CHP project was designed to harness the KB5's 3.9 MW capacity to power and supply steam for the site's chemical processes, while also selling electricity to the grid. Thanks to BASF's size and engineering expertise, they were able to take responsibility for the technical and commercial demands of the installation. But with the site only 45 minutes away from Centrax's Italian service depot, we're perfectly placed to provide fast support to BASF whenever they need it.





PACKAGE FEATURES

- ✓ Outputs in the range of 7.9-8.6 MW and is industry-leading for engine power and electrical efficiency in this bracket
- ✓ The package incorporates the Siemens 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



PACKAGE SPECIFICATIONS

	Power	Efficiency	Heat Rate	Exhaust Flow	Exhaust Gas Temp
CX300 (7.9 MW)	7,900 kW	31.10%	11,578 kJ/kWh	30.2 kg/s	536 °C
CX300 (8.6 MW)	8,600 kW	34.20%	10,526 kJ/kWh	30.3 kg/s	504 °C

Note: Liquid fuel is also an option

OUR PRODUCTS CX300

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

THE CX300 IN ACTION

Ahlstrom Munksjö, Saint-Séverin, Charente, France

This project served a dual purpose – powering a production plant specialising in vegetable parchment for the food industry for international company Ahlstrom Munksjö, Saint-Séverin, while also supplying electricity to the national grid. The 8.6 MW capacity CX300 we installed is a CHP solution that generates power for French utility company ENGIE Cofely, while the waste heat is harnessed in Ahlstrom Munksjö's paper manufacturing processes. This neatly combines micro-level power with a contribution to national energy efficiency. Centrax has become a trusted supplier to ENGIE Cofely, this project adding to over 30 units we have already installed for the company's various end users across France.





PACKAGE FEATURES

- ✓ A range of engine variants available, from 10-15MW, to closely match customers' energy requirements.
- ✓ The package incorporates the Siemens SGT-400 core engine
- ✓ Very high efficiency (nominal 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



PACKAGE SPECIFICATIONS

	Power	Efficiency	Heat Rate	Exhaust Flow	Exhaust Gas Temp
CX400 (10.1 MW)	10,100 kW	34.5 %	10,428 kJ/kWh	33.4 kg/s	519 °C
CX400 (12.9 MW)	12,900 kW	34.8%	10,355 kJ/kWh	39.4 kg/s	555 ℃
CX400 (14.32 MW)	14,320 kW	35.4%	10,178 kJ/kWh	44.0 kg/s	540 °C

Note: Liquid fuel is also an option

OUR PRODUCTS CX400

The Centrax CX400 is our 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.

THE CX400 IN ACTION

♀ District heating, Versailles, France

Utilities company ENGIE commissioned Centrax to replace the gas turbine in its existing district heating facility serving the French city of Versailles. The project demanded a high-efficiency power output and a rapid installation. We succeeded on both counts, achieving 99% overall CHP efficiency and completing in time for the winter heating season. The CX400 package supplies Versailles with 40% of its hot water demand and sends electricity to the grid. What's more, our successful delivery of this energy project led to ENGIE rating our service as 'exceptional'.





SERVICE & MAINTENANCE

Excellent service is at the heart of Centrax. We understand that in industry, losing power simply isn't an option. That's why we offer a no-risk guarantee for our customers.

Our gas turbines are built to be tough and reliable, and our ongoing servicing and maintenance programmes keeps them in optimal condition. But if a problem should arise, we take responsibility for putting it right swiftly and effectively.

With remote diagnostic technology, we are able to identify the cause of many technical issues immediately from our offices. This system allows us to monitor trends and respond to problems with speed and precision. But we also have the resources to deploy staff to provide a hands-on solution whenever it's needed. Our agile and highly responsive service team are ready to react to any challenges that come your way.

A LONG-TERM ENERGY PARTNER

With Centrax, you don't just get efficient power solutions. You also get a partner to provide ongoing support and guidance in the long-term. We work together with the shared goal of keeping your generator reliable and profitable into the future.

There's no-one better placed to understand our specialist energy equipment than our dedicated engineering experts. So with our excellent service and maintenance packages, you can feel confident that your energy package is in safe hands. Centrax takes care of your power needs, leaving you free to focus on looking after your core business.



INTERNATIONAL SUPPORT NETWORK

Centrax has invested in a comprehensive service system across Europe, ensuring we can extend our exceptional standard of service wherever on the continent our customers might be. Our service depots can be found in France, Spain, Italy, Russia, the Netherlands, Tunisia, Germany and the UK. Each employs native-speaking engineers, plus stocks of back-up engines and spare parts – and these can be mobilised quickly to resolve technical faults at customers' sites. That ensures minimal disruption to operations, whatever the location.

LEARN MORE

For further enquiries regarding the maintenance and on-going support of our products, please contact us:



STAYING POWER

Smurfit Kappa Roermond Papier, The Netherlands



The meeting of Centrax and Dutch paper packaging producer Smurfit Kappa Roermond Papier took place in 1981.

But our installation of four Centrax 501 gas turbines to power the Roermond-based company's paper mill was only the start of the relationship. Delivering the Centrax commitment to ongoing service, we have installed more units and progressively improved elements of Smurfit Kappa Roermond Papier's power packages as technology has developed. This has been possible thanks to the proximity of our Dutch service base at Zoeterwoude. Over 30 years and a million operational hours later, our partnership with Smurfit Kappa Roermond Papier holds strong — a testament to the trust we have earned at Centrax through our ethos of excellent customer care and continuous improvement.

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