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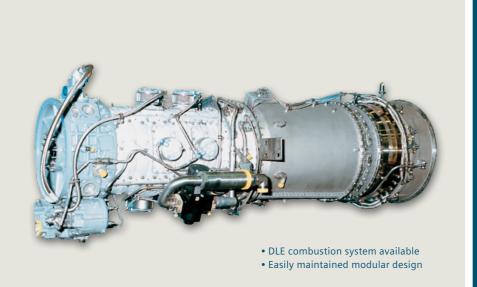
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The information in this document contains general descriptions of the technical options available, which may not apply in all cases. The required technical options should therefore be specified in the contract.



Industrial 501-KB5S

An aero-derivative of the highly successful T-56 engine



Industrial 501-KB5S is an aero-derivative of the highly successful T-56 engine

30.6%
Simple Cycle Efficiency (shaft)





Industrial 501-KB5S

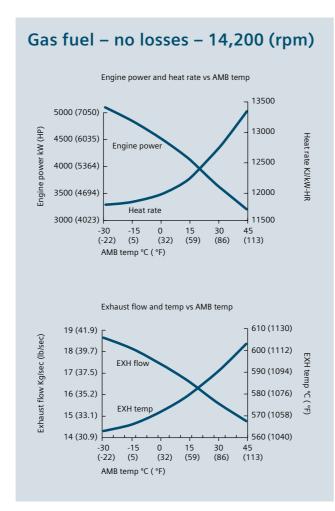
The current engine design is the evolutionary result of continuous improvements since the first release in 1963. This continued product enhancement concept has improved the reliability, performance, power, and efficiency of the Industrial 501-K to better serve the needs of our customers. The aero-derivative design of the Industrial 501-K series engine provides a lightweight, modular product that helps lower operating costs through improved fuel consumption, extended hot section life and ease of maintenance.

Siemens knows there is more to customer satisfaction than manufacturing a quality gas turbine engine.

Beginning with the finest designs, the most advanced manufacturing techniques and rigid verification testing, our team continues to serve or customers with a global network of support. These power products are backed by this comprehensive service worldwide.

The Industrial 501-KB5S has millions of hours of service in thousands of installations worldwide.





Product that helps lower operating costs

Siemens acquired the Rolls-Royce aero-derivative gas turbine and compressor business effective December 1, 2014. References to Siemens and products are intended to refer to such business as acquired and incorporated into Siemens as from such effective date.

- Competitive operating cost
- 4 MW power class
- Single shaft cold end drive
- Mid-BTU gas options

- Standard effusion cooled combustion liners
- Core engine commonality with Industrial 501-K family
- Natural gas, liquid and dual fuel configurations

Industrial gas turbine engine specification*

Description	Industrial 501-KB5S	Industrial 501-KH**	Industrial 501-KB7S	Industrial 501-KC5	Industrial 501-KC7
Primary application	Genset	Genset	Genset	Mech drive	Mech drive
Fuel type (rated)	Gas	Gas	Gas	Gas	Gas
Shaft power, kW	4101	6750	5519	4101	5369
hp	5500	9050	7401	5500	7200
Heat rate, kJ/kW-hr	11780	8530	10865	12016	11223
Btu/hp-hr	8325	6028	7680	8495	7934
Typical steam tons/hr production, ***	10.9	N/A	12.0	N/A	N/A
Exhaust flow, kg/sec	15.4	18.4	21.3	15.5	20.8
lb/sec	33.9	40.6	47.0	34.2	45.8
Exhaust temp, deg°C	559	529	494	571	514
deg°F	1040	982	921	1060	957
Output speed, rpm	14200	14600	14600	13600	13600

^{*} Nominal engine shaft performance, ISO, No losses, gaseous fuel 20,400 BTU/lb

^{**} Steam injection: 2.72 Kg/sec @ 482°C (6.0 lb/sec @ 900°F)

^{***} Actual steam production is dependent on boiler conditions and steam quality