**Allison 501-KB7**

**Features**

- 5 MW Power class
- 32.7% Thermal efficiency
- Addition of single stage compressor boost module
- Core engine commonality with 501-K family
- 30% increased exhaust flow
- Standard effusion cooled combustion liners
- DLE combustion system available
- Natural gas, liquid and dual fuel configurations
- Mid-BTU gas options
- Easily maintained modular design
- Competitive operating costs
- Single shaft cold end drive

**Description**

The Allison 501-KB7 is the highest horsepower version (simple cycle) of the 501-K series of engines. A single stage boost compressor, improved vane cooling, higher strength turbine blades and many other enhancements have been incorporated for improved performance, durability and operating cost.

The aero-derivative design of the 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.

Rolls-Royce 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 our customers with a global network of support. These power projects are backed by this comprehensive service worldwide.
**Fact sheet**

### Industrial Gas Turbine Engine Specification*

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<td>Exhaust flow, kg/sect</td>
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<td>Exhaust temp, deg °C</td>
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<td>529</td>
<td>513</td>
<td>571</td>
<td>514</td>
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<td>deg. °F</td>
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<td>Output speed, (rpm)</td>
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</table>

* Nominal engine performance, ISO, no losses, gaseous fuel 20,400 Btu/lb
** Steam injection; 2.72 Kg/sec @ 462°C (66.4 lbs/sec @ 900°F)

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### Allison 501-KB7
Gas fuel - No losses - 14,600 (rpm)

[Graphs showing engine power vs. AMB Temp and exhaust flow vs. AMB Temp]

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