

The world's most efficient large aero engine

The Trent XWB is setting new standards of efficiency, life cycle costs and environmental impact through hours of engine and flight testing. These attributes have made it the fastest-selling widebody engine ever.



AIRBUS



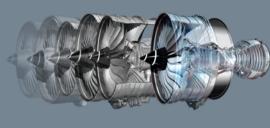


have been sold worldwide in 30 countries, across every continent.

More than 1,600 Trent XWB engines

This market success cements the strong relationship that Rolls-Royce and Airbus have nurtured since the Trent 700 entered into service on the A330, 20 years ago.

The Sixth member of the highly successful Trent family



A single HP Turbine blade generates

800 horsepower, equal to that generated by a Formula 1 racing car



68 turbine blades

The Trent XWB has







The highly innovative design of the Trent XWB combustor incorporates advanced ceramic coatings. This allows a mixture of air and fuel to be heated to burn at

temperatures exceeding

2,000° K twice the temperature of molten rock





ten per cent

reduction in fuel consumption, saving our customers around US\$2.9 million

per year per aircraft in fuel costs alone.



2. Advanced compressor aerodynamics

cent through blisk technology.

delivering module weight-savings of 15 per

3. Optimised bearing load management system reducing sealing air requirements to deliver improved performance. 4. 2 Stage IP Turbine delivers improved

reduction in fuel burn.

efficiency, greater thrust capability and

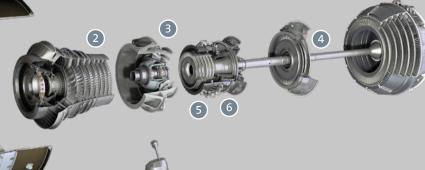
engine weight and simplifying engine maintenance.

5. Intelligent management of internal air

systems reducing the core engine demand

6. Single skin combustion casing reducing

for cooling air and decreasing fuel burn.





Low Pressure Turbine: 6 stages

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VCOM 16775 March 2018

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