



Rolls-Royce

Trent 900

Optimised for the Airbus A380 Family



TRENT900

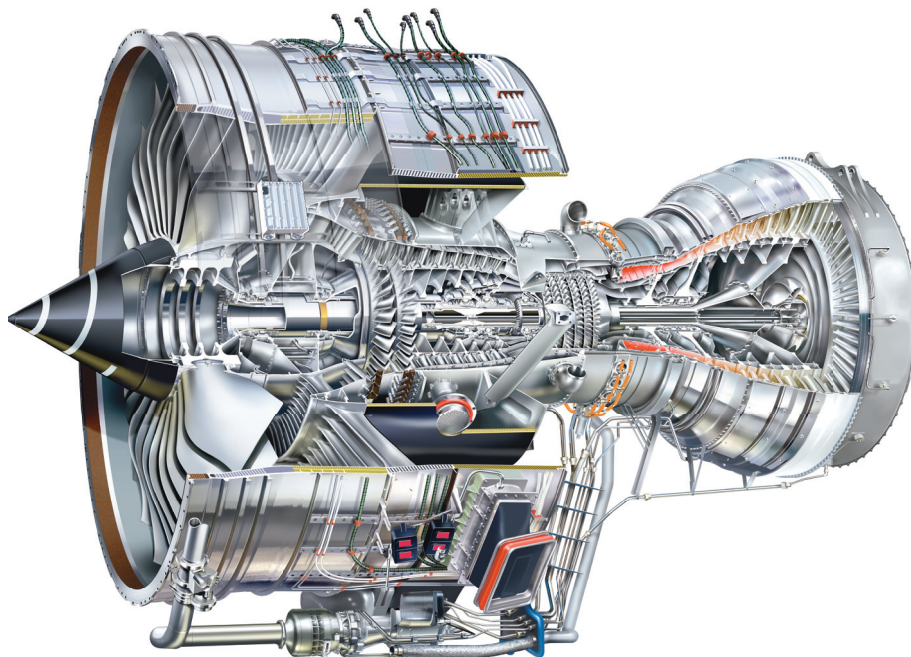
Trent 900

Optimised for the Airbus A380 Family

The Trent 900 is the best engine for the Airbus A380, delivering the lowest lifetime fuel burn and excellent environmental attributes.

The design benefits from over 40 million hours of Trent® family experience. It is the engine of choice for the A380, having secured two thirds of operators.

- one per cent fuel burn improvement committed
- Lowest lifetime fuel burn
- Lowest cumulative emissions and lowest NOx
- Only A380 engine transportable whole in 747F
- Supported by global Rolls-Royce infrastructure



SLS, flat rated to ISA +15°C Thrust 70,000 - 76,500lb (certificated to 80,000lb) Bypass ratio 8.5 - 8.7 Inlet mass flow 2655 - 2745lb/sec

lowest fuel burn

The Trent family's three-shaft architecture ensures that the Trent 900 provides the lowest lifetime fuel burn on the A380. The Trent 900 design delivers excellent performance retention, typically one per cent better than two-shaft alternative designs.

Continuous improvement demonstrated. Having met its tough EIS performance target, the Trent 900 already has a committed one per cent performance improvement package which was delivered in 2012. As a member of the Trent family, the Trent 900 will continue to benefit from technology flowed down from later variants, and a further improvement of up to 0.8 per cent is already committed.

The Trent 900 is the most environmentally friendly engine on the A380. Careful attention to whole engine design ensures that the Trent 900 beats stringent noise legislation. The tiled combustor reduces emissions, guaranteeing the Trent 900 adheres to all current and proposed environmental legislation.

Higher efficiency is achieved through advanced 3D compressor and turbine aerodynamics and contra-rotation of the high-pressure shaft. This delivers lower fuel consumption and reduced weight, helping to make the Trent 900 the lightest powerplant available for the A380.

Engine performance meets or exceeds all targets. The engine has a baseline take-off thrust of 70,000lb and is certified up to 80,000lb from the same bill of material. It is the only engine certified to 72,000lb on the A380.

Easy maintenance. The Trent 900 is the only A380 engine that is transportable whole in standard freighter aircraft such as the Boeing 747F. An advanced, predictive maintenance system - QUICK - which is used to reduce maintenance disruption and further improve time on wing, has been introduced with the Trent 900. The engine of choice for the A380 also benefits from Trent family characteristics such as fan-case-mounted accessories and longer time on wing.



lowest fuel burn



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