

Trent 900

Leading the way on the Airbus A380

As the fourth generation in the Trent family, the Trent 900 will feature the same successful three-shaft architecture as its Trent predecessors and its detailed design will reflect 20 million hours of Trent engine service experience.

The Trent 900 is the launch engine on the A380 and will enter into service in 2007 with Singapore Airlines and is proving an excellent engine. The engine was certificated to plan in October 2004, leading to the Trent 900 powered first flight of the A380 in April 2005. Over the past year the four Trent 900 powered flight test aircraft have carried out extensive testing as well as several highly successful tours and displays at all major air shows.

Testing has included a cold weather campaign in Northern Canada and high altitude performance tests in Colombia, together with hot weather testing in the United Arab Emirates.

The Trent 900 offers the lowest risk route to low fuel burn, high reliability and low operating costs. Delivering high economic efficiency to A380 operators. The Trent 900 takes demonstrated Trent maintainability advantage to the next stage and is the only A380 engine transportable whole in a Boeing 747F.

The Trent 900 is the lightest and most environmentally friendly engine on the A380. It is the quietest and cleanest engine option and betters all current and proposed legislation in the environmental fields of noise and emissions. Trent 900 certification tests have shown it to have the world's lowest large turbofan emissions per lb of thrust.

China Southern recently became the seventh airline to opt for the Trent-powered A380, joining Singapore Airlines, Lufthansa, Qantas, Virgin Atlantic, Malaysia Airlines and Etihad Airways. This further strengthens the engine's market share with the Trent 900, now chosen by seven out of the 12 operators to have made an engine selection. The Trent 900 is the engine of choice on the A380.

Engine Specification

SL 0.25M, flat-rated to 30°C/86°F

Thrust 70,000-76,500lb (Certificated up to 80,000lb)

Bypass ratio 8.7-8.5

Inlet mass flow 2655-2745lb/sec

Fan diameter 116in

Length 179in

Weight 14,190lb

Stages Fan, 8 IPC, 6 HPC, 1 HPT, 1 IPT, 5 LPT

Certification 29th October 2004

EIS 2007

