

BR725

Setting new standards for ultra-long-range business jets

intelligent innovation



BR725

In a class of its own

The BR725 redefines the top-end of the market for the most powerful business jet powerplants. It builds on the design of the highly successful BR710 and incorporates the latest Rolls-Royce technology.

The BR725 offers increased thrust, reduced fuel burn, lower emissions and noise levels and reduced maintenance requirements. With its outstanding performance levels it sets new standards for the ultra-long-range business jet market.

No other manufacturer has more experience in the corporate engine market and the BR725 continues the Rolls-Royce tradition of providing engines optimised for business jet applications.

- The newest and most powerful engine for ultra-long-range and high-speed business jets
- Provides 15,000 – 17,000lbs of thrust for more payload, increased range and improved performance
- Environmentally friendly with reduced emissions, setting new standards for even cleaner and quieter operations
- Longer life and greatly reduced maintenance requirements
- Developed by Rolls-Royce - the leading supplier in business jet engines
- Based on the successful BR700 family with over seven million hours of operation

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The BR725 will be certificated in 2009 and is scheduled to enter into service in 2012 on the G650, the first member of Gulfstream's new flagship family of high-speed, ultra-long-range business jets.

Incorporation of latest technology leads to improved performance and environmental friendliness. The new 50-inch diameter swept fan is based on world-class Rolls-Royce Trent fan design. The ten-stage compressor incorporates the latest aerodynamic improvements and five stages of blisks for improved performance and optimised weight. Based on the proven BR715 design the combustor provides significantly lower emissions. The two-stage shrouded high-pressure turbine uses advanced aerodynamic design and the latest materials for high efficiency, enhanced performance retention and long life. The three-stage low-pressure turbine and exhaust mixer provide increased performance at lower noise levels. An all composite nacelle and a new thrust reverser allow for higher flow and increased reverse thrust.

Environmentally friendly with reduced emissions, the BR725 will set the standard in environmental performance for years to come.

Lower maintenance and life cycle costs through significantly increased maintenance intervals and the elimination of a mid-life inspection.

Designed and manufactured by Rolls-Royce, the BR725 is supported by the industry-leading global Rolls-Royce support network and CorporateCare® engine management service.



SLS, flat rated to ISA 30°C/86°F

Thrust 15,000 - 17,000lb

Fan diameter 50in

Bypass ratio 4.4

Length 202in

Stages Fan, 10 HPC, 2 HPT, 3 LPT

Certification* 2009

EIS* 2012

*planned