

A large Trent XWB jet engine is shown in a factory setting. The engine is mounted on a green fork lift. The engine's core is visible, showing the compressor and turbine sections. The engine is surrounded by various pipes, hoses, and electrical connections. The background shows a clean, industrial environment with a blue floor and some equipment.

POWER TRANSMISSION

TRENT XWB

COMBINING SIMPLE MANUFACTURE,
ROBUSTNESS AND PERFORMANCE

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Hispano-Suiza is responsible for the design, manufacture, testing and support of the Rolls-Royce Trent XWB power transmission, which includes several subsystems: internal gearbox (IGB), step-aside gearbox (SAGB), accessory gearbox (AGB), transfer gearbox (TGB), accessory driveshaft (ADS) and oil reservoir.



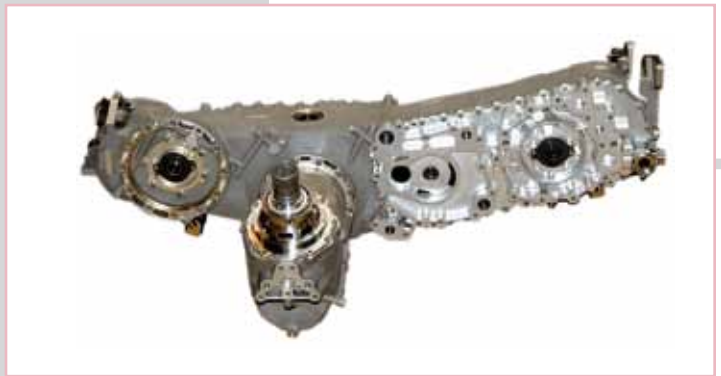
Chosen by Rolls-Royce in 2008, Hispano-Suiza designs, develops, produces and supports the power transmission for the Trent XWB.

A WORLD LEADER IN POWER TRANSMISSIONS

Hispano-Suiza is a world leader in power transmissions for mainline commercial jets (over 100 seats). Since being founded, Hispano-Suiza has built up technical expertise that is recognized worldwide. Today, this expertise ranges from accessory gearboxes for business aircraft, to complete power transmission systems for large turbofans, as well as transmissions for helicopters, fighters and military transports.

COMBINING QUALITY AND PERFORMANCE FOR THE CUSTOMER'S BENEFIT

Hispano-Suiza offers power transmissions that combine reduced operating costs and impressive reliability, based on its ability to develop high-quality equipment and manage a robust supply chain.



Comprising gears and shafts, the AGB taps part of the jet engine's mechanical power and transmits it to engine and aircraft systems, including the fuel pump, the engine's lubrication system, starter, hydraulic pumps, and engine and aircraft electrical generators.

KEY CHARACTERISTICS AND TECHNOLOGY CHALLENGES

- > Trent XWB power rating: 75,000 to 97,000 lb of thrust
- > Simplified foundry design
- > Dynamic seals
- > Design to cost and weight principles
- > Reduced maintenance costs
- > Extended lifetime
- > High reliability

PROGRAM HIGHLIGHTS

- > Engine certification, including Hispano-Suiza equipment: February 7, 2013
- > A350 first flight: mid-2013
- > A350 entry into service: second half of 2014