



Industrial Engineering

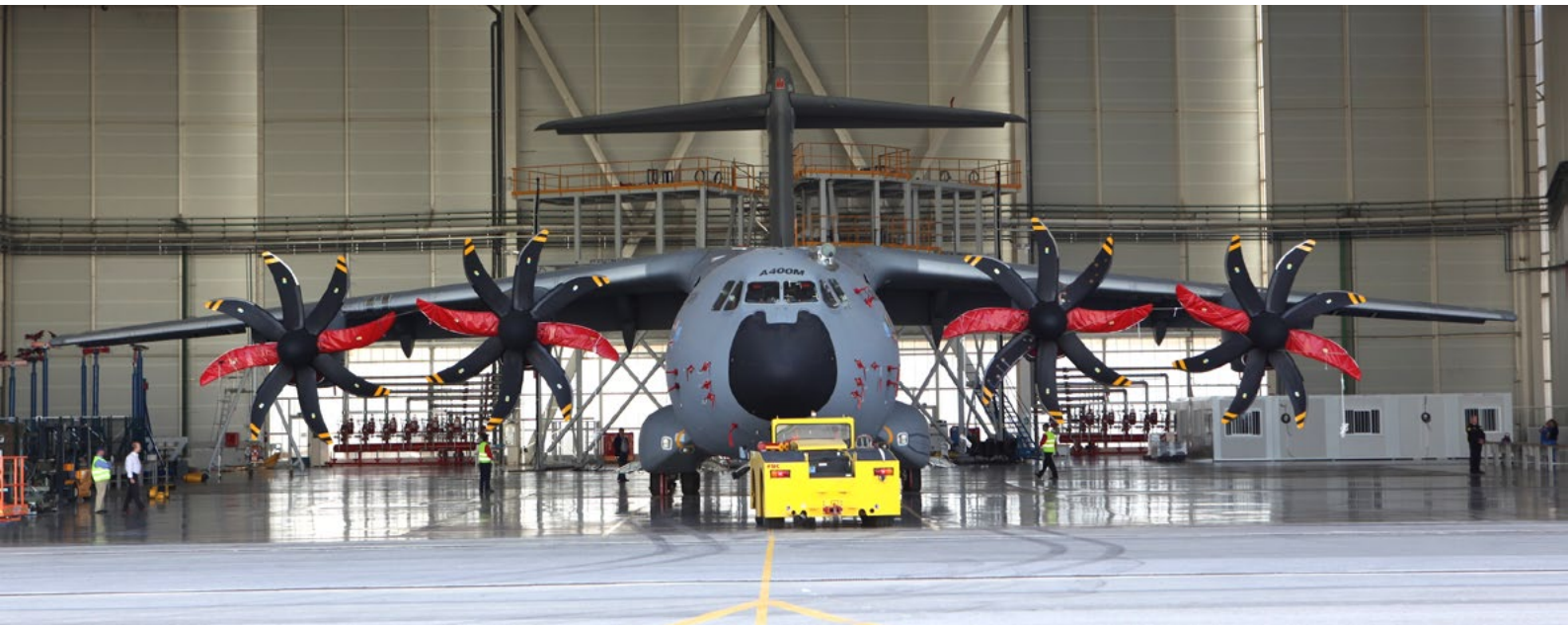
Test bench for TP-400 engines Moron de la Frontera Air Base Seville (Spain)

Turboprop Industry-Spanish Air Force: Overseeing works and health and safety coordination
Infrastructures (2005)



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The work carried out by AERTEC Solutions in this project consisted of overseeing the works and health and safety coordination for the TP-400 engine test bench.

The TP-400 is the new 11,000 CV engine (8,200kW) for the Airbus A400M military transport aircraft. It is equipped with a twin-spool gas generator, with a third coaxial shaft connecting the low pressure power turbine to the 5.3 m-diameter eight bladed composite propeller, via an offset reduction gearbox.

The gas generator's configuration is as follows: five-stage intermediate pressure (IP) compressor, driven by a single stage IP turbine; contra-rotating six-stage high pressure (HP) compressor driven by a single-stage air-cooled HP turbine. The power turbine has three stages.

The building is within the Moron de la Frontera Air Base and located adjacent to a consolidated development, and it is equipped with all kinds of services, sanitation, supplies and electricity.

Technical data

- Developed surface area measuring:
8,973.55m²
- Built-up surface area measuring:
206.22m²

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