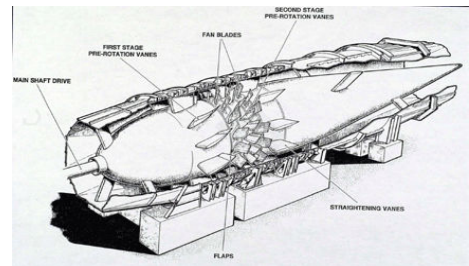


Wind Tunnel Upgrade



Customer: Aircraft Research Association
Location: Bedford UK
Year of Completion: 2005

ARA was formed in 1952 as an independent, non-profit making organisation by 14 UK Aircraft and aero engine companies. Today ARA operates on a commercial basis and carries out work for military and civil aviation companies throughout the world.

Part of its test facility includes a large transonic wind tunnel capable of testing up to a mach number of 1.4.

DavyMarkham were awarded a contract to carry out a detailed design study with the objective of increasing the top level Mach number to 1.7

The scope of the study included: -

- A new 27MW main direct drive motor to replace the existing 20,000hp motor
- Modifications to the Model test section
- Replacement of the existing wooden main fan blades with new composite fan blades
- Addition of a second cooler
- New FOD (foreign object damage) screen

Total	Engineering	Capability
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Last updated: 15.07.2010

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