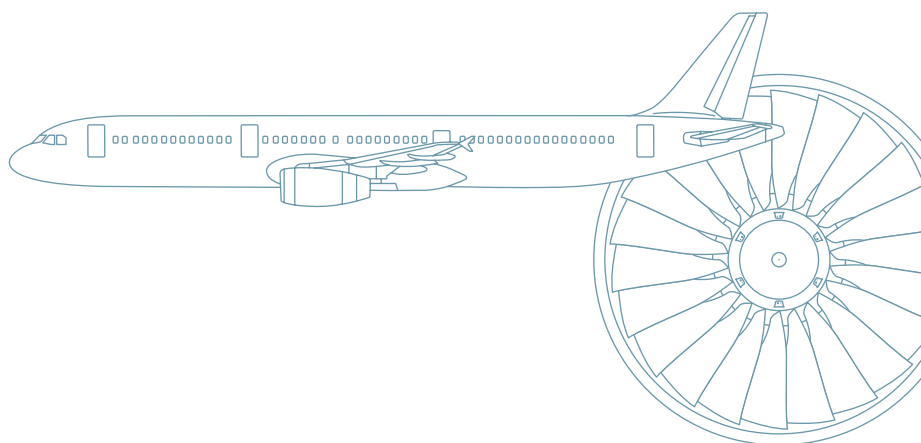




V2500 turbofan engine

The innovative power



V2500 – technology features

The V2500 is an advanced turbofan engine for short- and medium-range aircraft. With a thrust between 22,000 and 33,000 lbf, the engine family was designed to power Airbus Industrie's A319, A320 and A321 aircraft as well as Boeing's MD-90.

MTU Aero Engines, Pratt & Whitney, Rolls-Royce and JAEC Japanese Aero Engines are partners in this engine program. The aim of their cooperative effort is to build one of the best engines in the world making use of the top technologies of each company. The International Aero Engines AG consortium (IAE), which was founded in March 1983, coordinates the activities in the areas of production, assembly, marketing and sales as well as product support. MTU Aero Engines, Germany's leading engine manufacturer is responsible for the development and production of the five-stage low-pressure turbine. MTU also carries out engine testing.

MTU's low-pressure turbine is a significant contribution towards the superiority of the V2500, particularly in terms of environmental compatibility. It distinguishes itself by its excellent efficiency and long life, both at extremely low maintenance costs. Characteristics such as these once again prove MTU's world-class competence in engine production.

Key features of the low-pressure turbine:

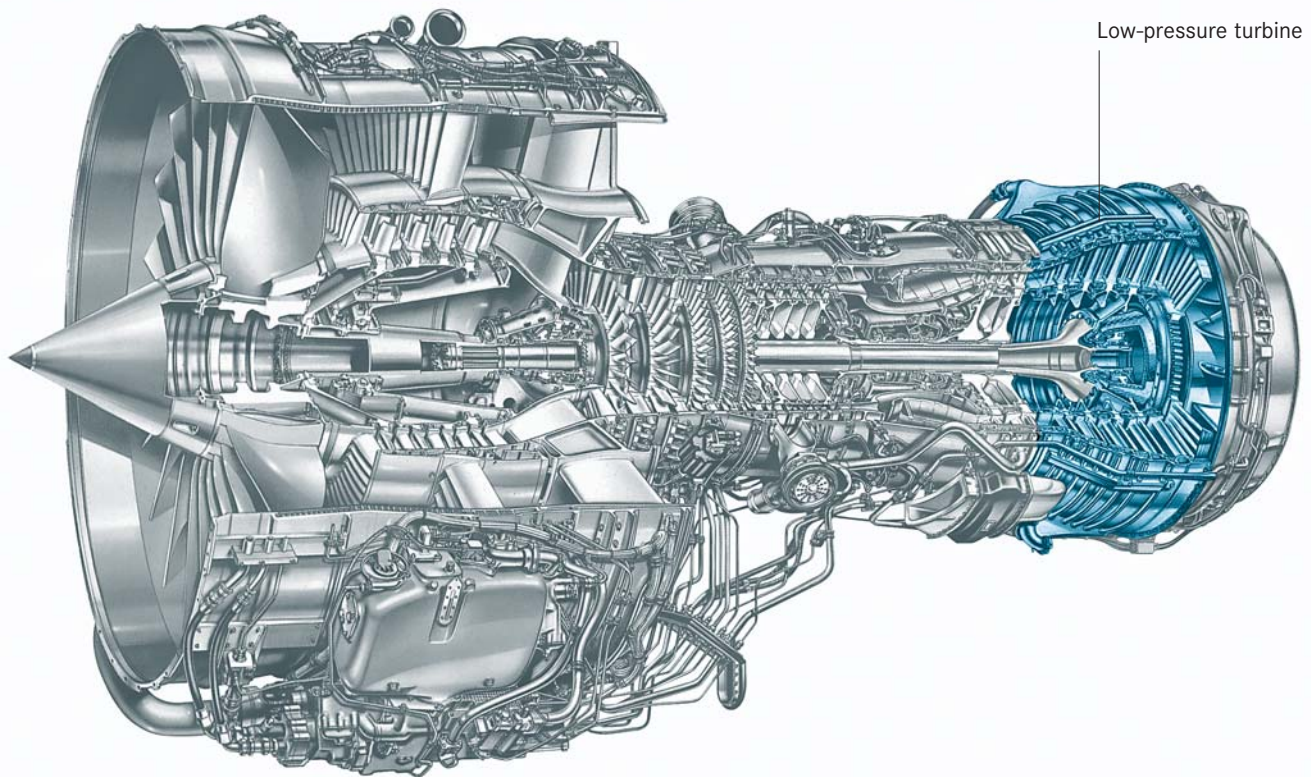
- Stages: 5
- Weight: 344.5 kg

Cruise at 35,000 ft, Mach = 0.8:

- Efficiency: 92.5 %
- Expansion ratio: 4.3

Hot-day take-off, 33,000 lbf rating:

- Power output: 29,700 kW
- Gas flow rate: 73.5 kg/s
- Inlet temperature: 932 °C



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V2500 engine specifications

	V2522-A5	V2524-A5	V2527-A5	V2530-A5	V2533-A5
Application	A319-100	A319-100	A320-200	A321-100	A321-200
EIS	October 97	June 97	December 93	March 94	April 97
Take-off thrust (lbf)	22,000	24,000	27,000	31,400	33,000
Fan diameter (in)	63.5	63.5	63.5	63.5	63.5
Air flow rate (lbs/s)	770	781	811	858	872
Bypass ratio	4.9	4.9	4.8	4.6	4.5
Cruise sfc (lbs/hr/lbf)	0.543	0.543	0.543	0.543	0.543