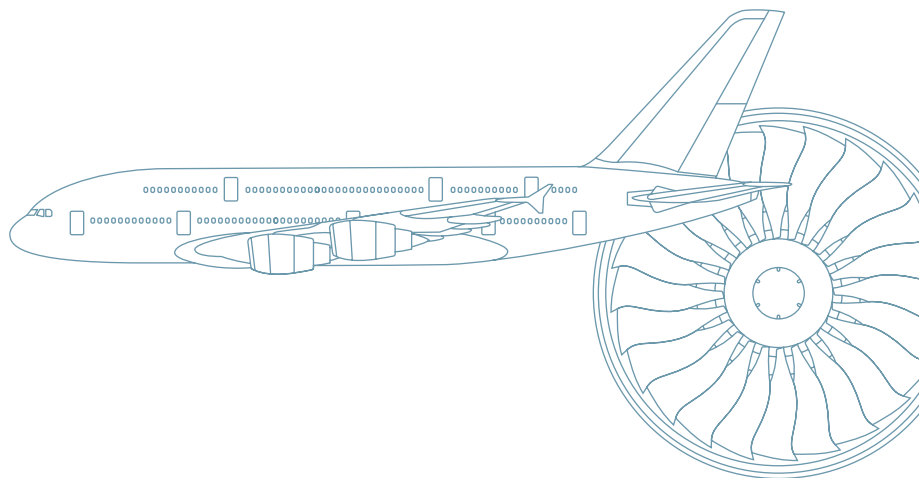




GP7000 turbofan engine

The innovative power



GP7000 – technology features

The GP7000 is a new engine family for long distance, widebody aircraft and has been developed for the Airbus A380, an all-new 550 seat aircraft with a 8,150 nautical mile range. The GP7000 has a thrust range of 311–340 kN and a fan diameter of 2.96 m.

MTU Aero Engines is Germany's largest aero engine manufacturer. MTU is a partner of General Electric and Pratt & Whitney, who in 1996 established the Engine Alliance for this GP7000 engine program. MTU is responsible for the development and manufacture of the turbine center frame and the low-pressure turbine as well as for the production of high-pressure turbine parts.

The GP7000 is derived from two of the most successful widebody engine programs in aviation history—the GE90 and PW4000 families. Incorporating state-of-the-art technologies the GP7000 offers unprecedented performance, reliability, environmental levels and customer value.

Key features:

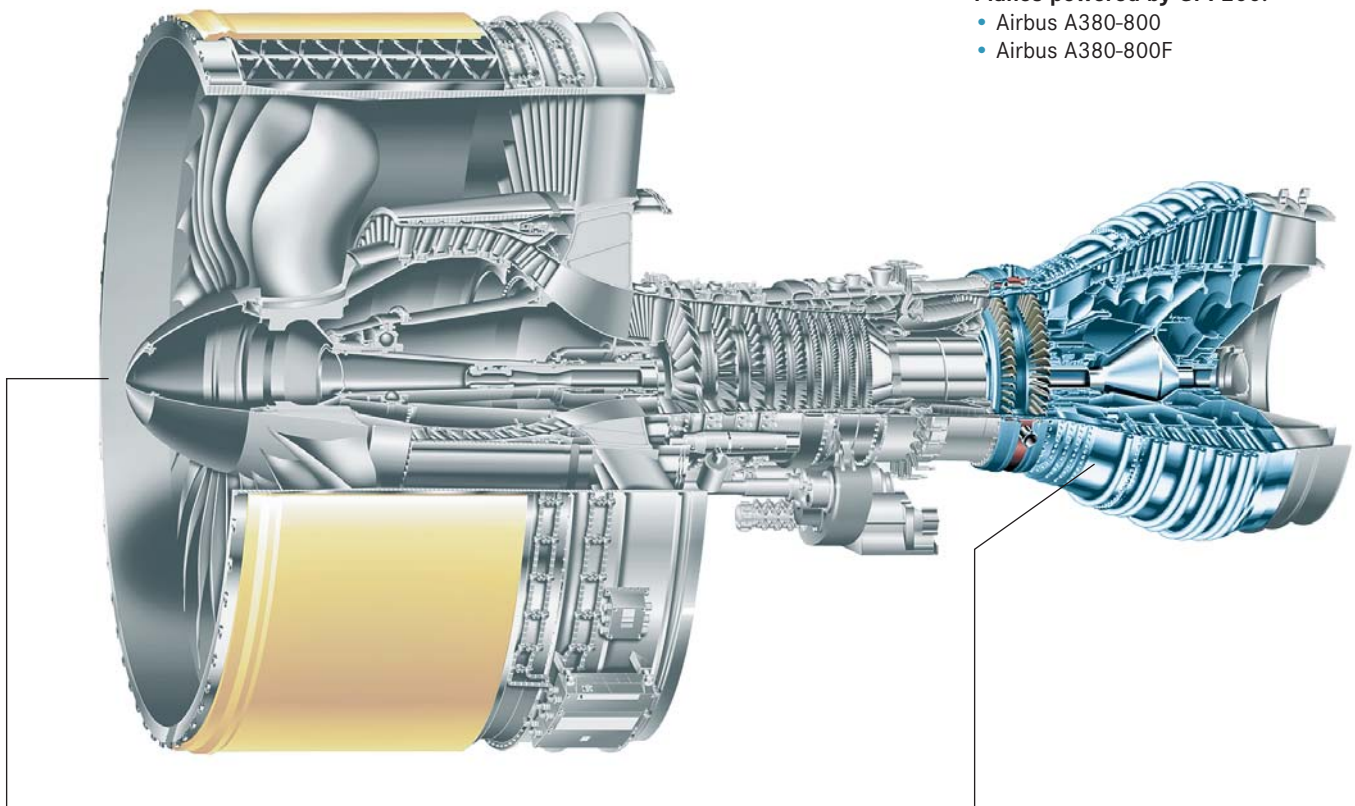
- Certified at 340 kN of thrust
- Built on GE90 and PW4000 mature reliability and leading-edge technology
- Superior fuel efficiency
- World-class emissions and low noise
- Thrust growth capability up to 374 kN

Engine models:

- GP7270
- GP7277

Planes powered by GP7200:

- Airbus A380-800
- Airbus A380-800F



Program shares:

- 30.0% P&W
- 30.0% GE
- 22.5% MTU
- 10.0% Snecma
- 7.5% Techspace Aero

MTU share (22.5%):

- 5.0% HP Turbine
- 5.0% Turbine Center Frame
- 12.5% LP Turbine

GP7270 engine specifications

Take-off thrust	(SLS, ISA) flat rated to 86 F/30°C	311 kN/70,000 lbf
Cruise thrust	35,000 ft/10,668 m/0.85 Mn/ISA	56 kN/12,633 lbf
Noise	25.6 dB margin to Stage 3	
Emissions	NOx	HC CO
Emissions (g/kN)	51.6	5.4 44.9
OPR (max. climb)	43.9	
BPR (cruise)	8.7	
Thrust setting parameter	N1	
Length	4,750 mm/187 in	
Diameter	3,160 mm/124 in	
Fan diameter	2,960 mm/116 in	
Weight	13,400 lbs	
EIS	August 2008	



MTU Aero Engines GmbH
Dachauer Straße 665
80995 Munich • Germany
Tel. +49 89 1489-0
Fax +49 89 1489-5500
www.mtu.de