



# GP7000 turbofan engine

The innovative power



# GP7000 – technology features

The GP7000 is a 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 engine is part of the MTU Maintenance portfolio.

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:

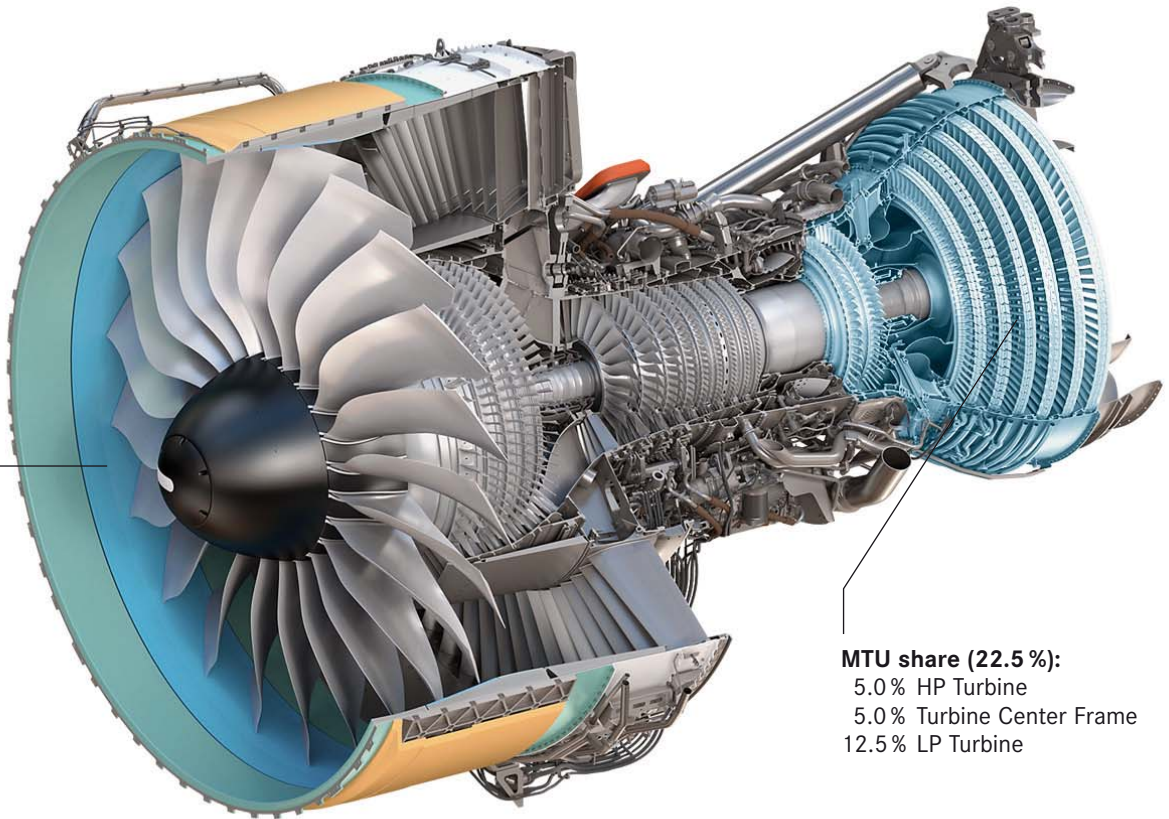
- Certified at 340 kN of thrust
- Built on GE90 and PW4000 mature reliability and leading-edge technology
- Superior fuel efficiency
- World-class emissions and low noise
- Thrust growth capability up to 363 kN

## Engine models:

- GP7270
- GP7277
- GP7272

## Planes powered by GP7200:

- Airbus A380-800



### 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	



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