



GO BEYOND

PRATT & WHITNEY

GTF

GEARED TURBOFAN

COMMERCIAL ENGINES

FAMILY

A UNITED TECHNOLOGIES COMPANY

PW1000G

POWERING THE NEXT GENERATION OF COMMERCIAL AIRCRAFT

PRATT & WHITNEY
GTF
GEARED TURBOFAN

ENGINE	AIRCRAFT	FAN DIAMETER	ARCHITECTURE	BYPASS RATIO	POUNDS OF THRUST
PW1200G POWERING THE MITSUBISHI REGIONAL JET		56"	1-G-2-8-2-3	9:1	15K - 17K
PW1700G POWERING THE EMBRAER E-JETS E175-E2		56"	1-G-2-8-2-3	9:1	14K - 17K
PW1900G POWERING THE EMBRAER E-JETS E190-E2 & E195-E2		73"	1-G-3-8-2-3	12.5:1	19K - 23K
PW1500G POWERING THE AIRBUS A220		73"	1-G-3-8-2-3	12.5:1	19K - 25K
PW1400G-JM POWERING THE IRKUT MC-21		81"	1-G-3-8-2-3	12.5:1	28K - 31K
PW1100G-JM POWERING THE AIRBUS A320NEO FAMILY		81"	1-G-3-8-2-3	12.5:1	24K - 33K

LPT STAGES
HPT STAGES
HPC STAGES
LPC STAGES
FDS
FAN

**DOUBLE
DIGIT**

REDUCTION IN
FUEL CONSUMPTION

UP TO

75%

REDUCTION IN
NOISE FOOTPRINT

UP TO

50%

REDUCTION IN
NO_x EMISSIONS

THE PRATT & WHITNEY GTF™ ENGINE

The Pratt & Whitney Geared Turbofan engine family is the next generation of commercial jet engines - delivering outstanding performance with a simple architecture and unmatched runway for growth. The Fan Drive Gear System enables the fan to spin three times slower than the low pressure compressor and turbine, enabling an industry highest 12.5:1 bypass ratio while dramatically reducing overall stage and part count. Running the fan and the turbines at optimal speeds allows our expert engineers to unlock improvements in each part of the engine. The results are simple - double digit reductions in fuel efficiency, noise and emissions - all at entry to service. Helping to launch five new aircraft, the GTF engine has delivered on each of its performance promises in service around the world. Recognized across the industry as the architecture of the future, the GTF engine has altered the landscape in aviation history, **and it's just getting started.**

CONTACT US

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