



PRATT & WHITNEY GTF ENGINES ACHIEVE MILESTONE FUEL AND EMISSIONS SAVINGS

News / Manufacturer



Pratt & Whitney is kicking off the New Year with two major milestones for GTF engines. Since entry into service, the industry's only geared propulsion system has saved 1 billion gallons (nearly 4 billion liters) of fuel and 10 million metric tons of carbon emissions. During this time, we've continued to advance the engine for current and future aircraft. In the past year alone, we've improved on the GTF engine's best-in-class fuel efficiency and CO2 emissions for the A320neo family. PW successfully tested the more powerful GTF Advantage engine on 100% sustainable aviation fuel, started engine certification testing and worked with Airbus to begin developmentflight testing on an A320neo aircraft.

PW also announced plans to enhance our distinctive geared fan architecture with hybrid-electric systems and water-enhanced turbine technology through the SWITCH collaboration with Airbus, MTU Aero Engines, Collins Aerospace and GKN Aerospace. This exciting program, coupled with recent FAA CLEEN III and NASA HyTEC awards, demonstrates our commitment to sustainable

propulsion.

Rick Deurloo, president of Commercial Engines at Pratt & Whitney commented: “We're the only engine company with a geared fan in commercial service. With the GTF Advantage engine and these key technology development programs, our revolutionary architecture is at the heart of sustainable propulsion today and into the future.”

**GO BEYOND**

PRATT & WHITNEY GTF™ ENGINE FAST FACTS 1Q23

10,000+ ORDERS & COMMITMENTS

90+ CUSTOMERS

3 PLATFORMS

OPERATION

1,400+ AIRCRAFT

60+ OPERATORS

700M+ PASSENGERS

PERFORMANCE

18M+ ENGINE FLIGHT HOURS

4M+ FLIGHTS

EVERY 20 SEC.
A GTF ENGINE TAKES OFF

BENEFITS

1B+ GALLONS OF FUEL SAVED

10M+ METRIC TONS OF CO₂ AVOIDED

UP TO 75% SMALLER NOISE FOOTPRINT

LATEST NEWS

Pratt & Whitney GTF™ Engines Power First Korean Air A321neo Aircraft [\[read more\]](#)

Royal Jordanian Selects Pratt & Whitney GTF™ Engines to Power Up to 30 Aircraft [\[read more\]](#)

Pratt & Whitney to Help Shenzhen Airlines Grow with Six GTF-powered A321neo Aircraft [\[read more\]](#)

Frontier Airlines Introduces First A321neo with GTF Engines [\[read more\]](#)

Pratt & Whitney GTF Advantage™ Flight Testing Starts on Airbus A320neo Aircraft [\[read more\]](#)

EXPERIENCE THE GTF



Watch the video at [pwgtf.com/gallery](https://www.pwgtf.com/gallery)

Meet the family at [pwgtf.com/family](https://www.pwgtf.com/family)

PRATT & WHITNEY
GTF

www.pwgtf.com     

In 2022, we announced more than 1,100 GTF engine orders and commitments, while more than 1,400 aircraft have now been delivered to 64 operators. To support the growing fleet, we also announced the expansion of the GTF MRO (maintenance, repair and overhaul) network to include Air France Industries KLM Engineering & Maintenance, Iberia Maintenance and SR Technics.

“GTF engines continue to deliver lower operational costs for our customers; new routes and revenue potential for airlines, airports and communities; and big savings in noise and emissions for passengers and our planet,” said Deurloo.

The Pratt & Whitney GTF™ engine is the only geared propulsion system delivering industry-

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leading sustainability benefits and dependable, world-class operating costs. GTF-powered aircraft reduce fuel consumption and CO2 emissions by 16% to 20%, NOx emissions by up to 50% and noise footprint by up to 75%.



GO BEYOND

PRATT & WHITNEY GTF™ ENGINE FAST FACTS 1Q23

MEET THE FAMILY

PW1100G-JM POWERING THE AIRBUS A320NEO FAMILY		81" FAN DIAMETER	12:1 BYPASS RATIO	24K - 33K POUNDS OF THRUST
PW1500G POWERING THE AIRBUS A320XLR		73" FAN DIAMETER	12:1 BYPASS RATIO	19K - 25K POUNDS OF THRUST
PW1900G POWERING THE EMBRAER E175-E2 & E195-E2		73" FAN DIAMETER	12:1 BYPASS RATIO	19K - 23K POUNDS OF THRUST

GTF MRO NETWORK

PRATT & WHITNEY COLUMBUS ENGINE CENTER GEORGIA, USA
PRATT & WHITNEY WEST PALM BEACH FLORIDA, USA
PRATT & WHITNEY EAGLE SERVICES ASIA SINGAPORE
IHI CORPORATION MIZUHO, JAPAN
MTU MAINTENANCE HANNOVER LANGENHAGEN, GERMANY
MTU MAINTENANCE ZHUHAI ZHUHAI, CHINA
EME AERO JASIONKA, POLAND
LUFTHANSA TECHNIK HAMBURG, GERMANY
LUFTHANSA TECHNIK ALZEY, GERMANY
DELTA TECHOPS GEORGIA, USA
MITSUBISHI HEAVY INDUSTRIES AERO ENGINES, LTD KOMAKI, AICHI, JAPAN (COMING SOON)
KAWASAKI HEAVY INDUSTRIES AKASHI, HYOGO, JAPAN (COMING SOON)
DGMA ALVERCA, PORTUGAL (COMING SOON)
AMECO BEIJING BEIJING, CHINA (COMING SOON)
CHINA AIRLINES TAIPEI, TAIWAN (COMING SOON)
KOREAN AIR SEOUL, SOUTH KOREA (COMING SOON)
SR TECHNICS ZURICH, SWITZERLAND (COMING SOON)
IBERIA MAINTENANCE MADRID, SPAIN (COMING SOON)
AIR FRANCE INDUSTRIES KLM ENGINEERING & MAINTENANCE PARIS, FRANCE (COMING SOON)

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