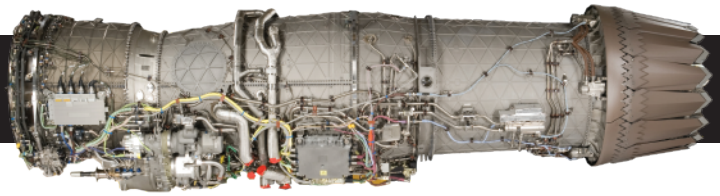
PRATT & WHITNEY F135 ENGINE FAST FACTS | 2025

F135 The World's Most Advanced Fighter Engine



CAPABILITY

40K+ LBS of thrust

5th GENERATION stealth technologies

PRECISE & RESPONSIVE integrated engine control system

50% INCREASE in thermal management capacity over 4th generation engines

AVAILABILITY

1,300+ engines delivered in total

Current production configuration is **DOUBLE** the spec for mean flight hours between removals

Safety rate more than **AN ORDER OF MAGNITUDE BETTER** than previous generations of fighter engines

CONTINUOUSLY EXCEEDS full mission capability rate requirements of 94%

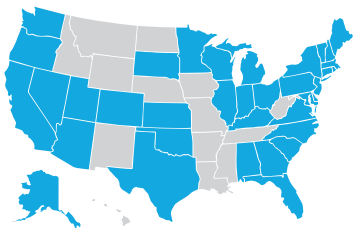
AFFORDABILITY

Reduced average cost of an F135 by **MORE THAN 50%** to date

Component Improvement Program investments are projected to yield **~$21 BILLION** in lifecycle cost savings

TARGETING ~50% COST REDUCTION on 1st scheduled maintenance visit, which is projected to **SAVE $14+ BILLION** over the life of the program

ECONOMIC IMPACT & INVESTMENT



SUPPLIER LOCATIONS

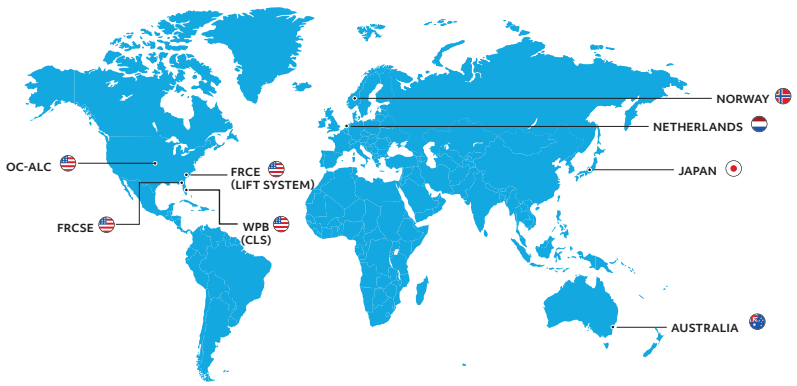
The F135 program sustains more than **57,000** domestic RTX jobs

255 SUPPLIERS provide parts for the F135

Contributed **$2.2B+** to the U.S. economy in 2023

$500+ MILLION invested in capital, process improvements & cost reduction initiatives

F135 GLOBAL MRO&U NETWORK



MAINTENANCE, REPAIR, OVERHAUL & UPGRADE (MRO&U) CONTRACTOR LOGISTICS SUPPORT (CLS)

Pratt & Whitney
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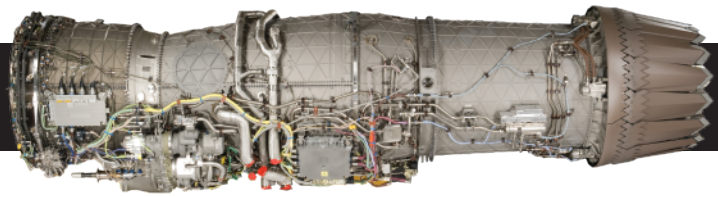

PROGRAM AT A GLANCE (AS OF FEBRUARY 2025)

1,110+ aircraft in service

Approaching **1M** flight hours

48 bases worldwide (includes ship activations)

13 services have declared IOC

USAF, USN and USMC · RAF and RN · Air Force and Navy

F-35/F135 IN ACTION

16 services flying

596,400+ sorties

10 nations operating on home soil

8 services have conducted operational missions

USAF, USN and USMC

F-35A — F135-PW-100 — Conventional Takeoff and Landing (CTOL)

F-35B — F135-PW-600 — Short Takeoff/Vertical Landing (STOVL)

F-35C — F135-PW-100 — Carrier Variant (CV)

F-35 PROGRAM PARTICIPANTS

U.S.A. · U.K. · ITALY · NETHERLANDS · AUSTRALIA · NORWAY · DENMARK · CANADA

ISRAEL · JAPAN · REPUBLIC OF KOREA · BELGIUM · POLAND · SINGAPORE · FINLAND · SWITZERLAND · GERMANY · CZECH REPUBLIC · GREECE · ROMANIA

FOREIGN MILITARY SALES

F135 ENGINE SPECS

	F135-PW-100 Conventional Takeoff and Landing (CTOL) Carrier Variant (CV)	F135-PW-600 Short Takeoff/Vertical Landing (STOVL)
Maximum Thrust Class	43,000 lbs	41,000 lbs
Intermediate Thrust Class	28,000 lbs	27,000 lbs
Short Takeoff Thrust Class	——	40,740 lbs
Hover Thrust Class	——	40,650 lbs
Length	220 in	369 in
Inlet Diameter	43 in	Main engine: 43 in Lift fan: 51 in
Maximum Diameter	46 in	Main engine: 46 in Lift fan: 53 in

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Updated: February 24, 2025
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