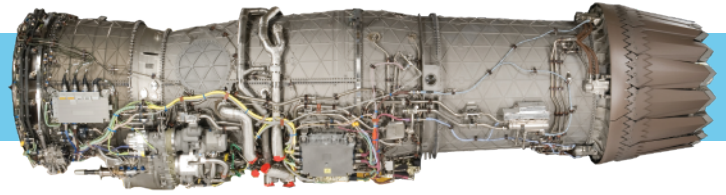


PRATT & WHITNEY F135 ENGINE FAST FACTS | 2024

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



1,200+
engines
delivered
in total



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



Japan MRO&U facility
achieved **INITIAL
DEPOT CAPABILITY**
adding to existing
Australia, Netherlands
& Norway regional
depot capability



More than **3X**
the depot
output since
2020

AFFORDABILITY



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

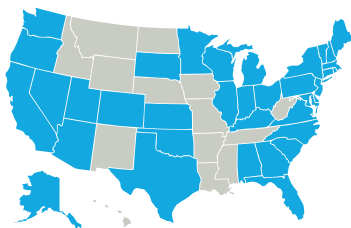


Component
Improvement
Program investments
are projected to yield
~\$21 BILLION in
lifecycle cost savings



**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

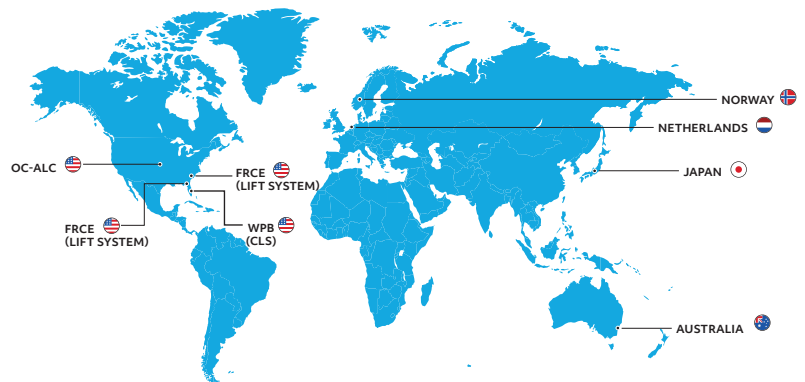
255 SUPPLIERS
provide parts for the
F135

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
An RTX Business

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PRATT & WHITNEY F135 ENGINE FAST FACTS | 2024

F135 The World's Most Advanced Fighter Engine



F135-PW-100
Conventional Takeoff and Landing (CTOL)

F135-PW-600
Short Takeoff/Vertical Landing (STOVL)

F135-PW-100
Carrier Variant (CV)

PROGRAM AT A GLANCE (AS OF NOVEMBER 2024)



1,060+
aircraft in service



940,000+
flight hours



45
bases worldwide
(includes ship activations)

13

services have declared IOC



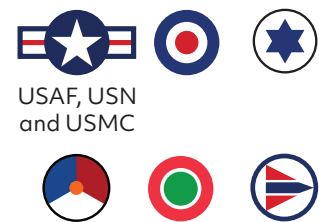
F-35/F135 IN ACTION

14
services flying

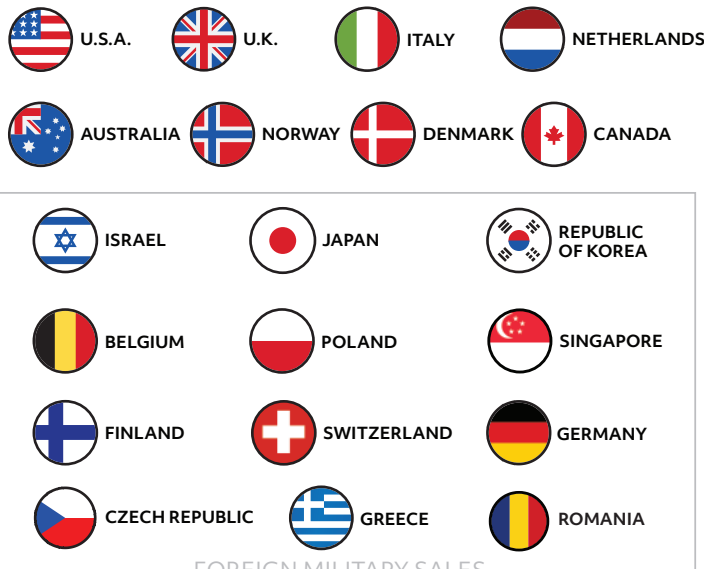
569,000+
sorties

10
nations operating on home soil

8
services have conducted operational missions



F-35 PROGRAM PARTICIPANTS



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 |



Updated: November 27, 2024

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