

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

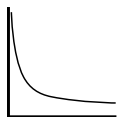


Japan MRO&U facility achieved
**INITIAL DEPOT
CAPABILITY** adding to
existing Australia, Netherlands &
Norway regional depot capability



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

AFFORDABILITY



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

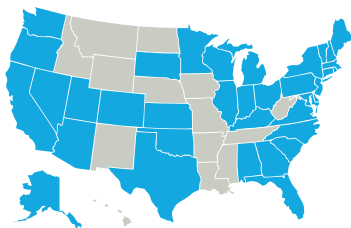


Component Improvement
Program investments are
projected to yield **~\$16
BILLION** in lifecycle cost
savings



**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

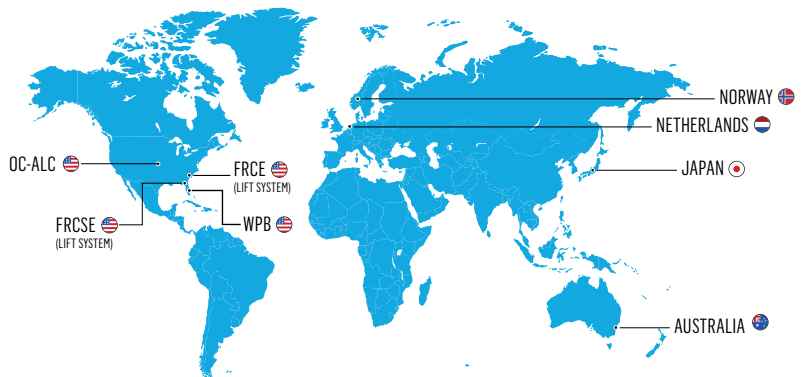
The F135 program
sustains more than
57,000 domestic
RTX jobs

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)

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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 MAY 7)



990+
aircraft in service



842,000+
flight hours



44
bases worldwide
(includes ship activations)



12
services have declared IOC

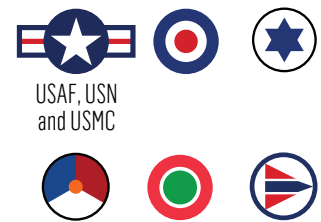
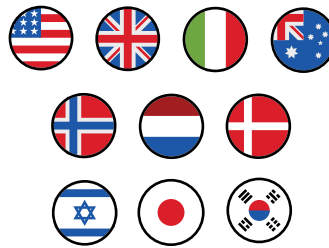
F-35/F135 IN ACTION

14
services flying

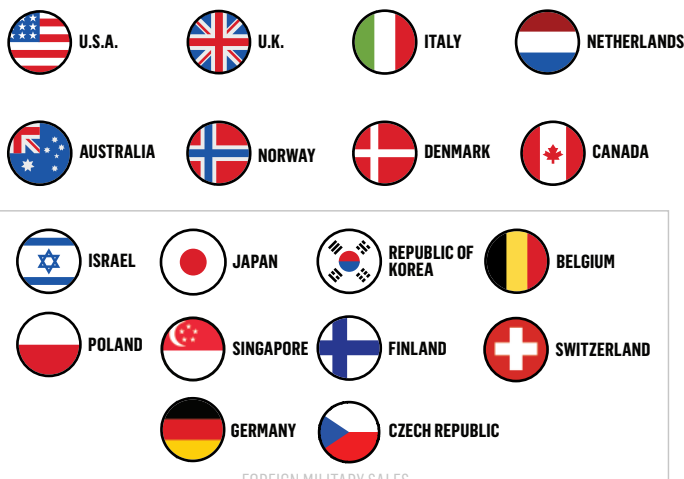
505,000+
sorties

10
nations operating on home soil

8
services have conducted operational missions



F-35 PROGRAM PARTICIPANTS



FOREIGN MILITARY SALES

F135 ENGINE SPECS

F135 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