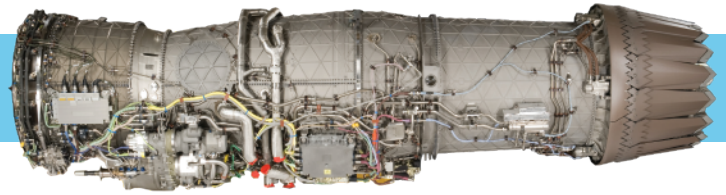


**PRATT & WHITNEY F135 ENGINE FAST FACTS | 2024**

# F135

## The World's Most Advanced Fighter Engine



### CAPABILITY



**40K+ LBS**  
of thrust



**5<sup>th</sup> 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

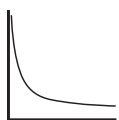


Japan MRO&U facility achieved  
**INITIAL DEPOT  
CAPABILITY** adding to  
existing Australia, Netherlands &  
Norway regional depot capability



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

### AFFORDABILITY



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

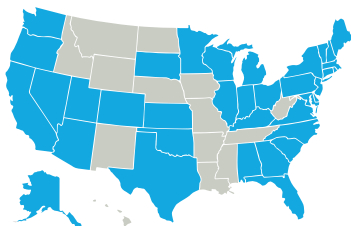


Component Improvement  
Program investments are  
projected to yield **~\$16  
BILLION** in lifecycle cost  
savings



**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

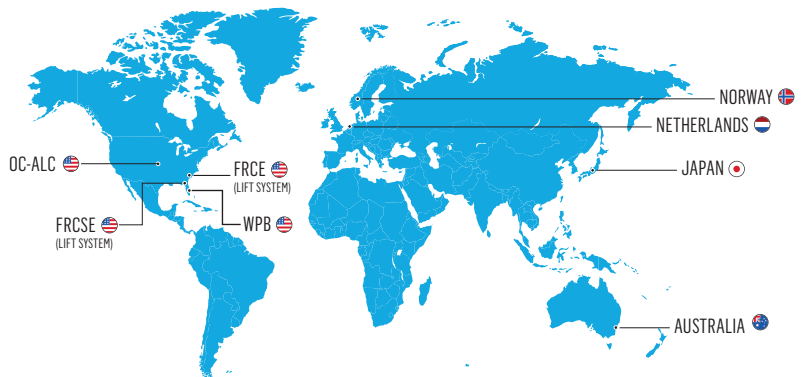
The F135 program  
sustains more than  
**57,000** domestic  
RTX jobs

**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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**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 APRIL 2)



**990+**  
 aircraft in service



**811,000+**  
 flight hours



**44**  
 bases worldwide  
 (includes ship activations)



**12**  
 services have declared IOC

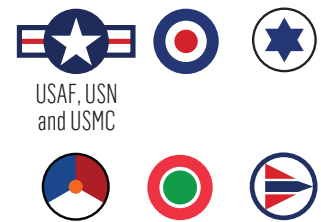
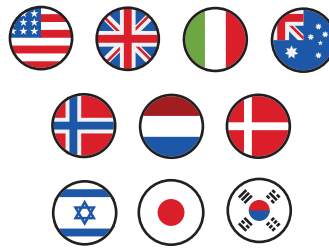
### F-35/F135 IN ACTION

**14**  
 services flying

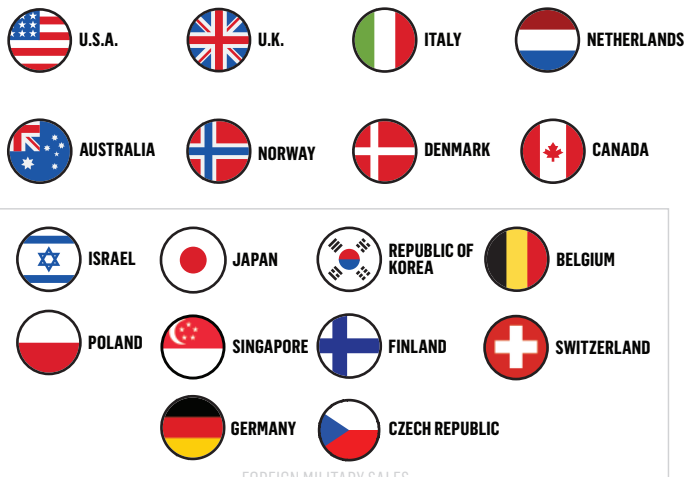
**486,000+**  
 sorties

**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