

PRATT & WHITNEY F135 ENGINE FAST FACTS | Q3 2020

F135

The World's Most Advanced **Fighter Engine**



UNMATCHED CAPABILITY FOR THE WARFIGHTER



40K+LBS OF THRUST



5TH GENERATION STEALTH TECHNOLOGIES



13x SAFER THAN 4TH GENERATION FIGHTER ENGINES



>94% PROPULSION MISSION CAPABILITY RATE

PRODUCTION



650+ engines delivered in total



Reduced average cost of an F135 **BY 50%**

to date



OVER \$500M

invested in capital and process improvements to enable increase in output



THREE PRODUCTION & TEST FACILITIES

Middletown, CT West Palm Beach, FL Mizuho, Japan (IHI)

SUSTAINMENT



10x MORE RELIABLE in service than 4TH generation fighter engines



MORE THAN A 250% IMPROVEMENT

in unscheduled engine removals over 4TH generation fighter engines



50% REDUCTION IN COST per flight hour

MODERNIZATION

Growth in aircraft capability must be matched with propulsion growth. Fortunately, the F135 has ample design margin to permit agile upgrades. Our Enhanced Engine Program approach enables us to insert next-generation adaptive technologies into current platforms as they become available.







(Power & Thermal Management System)

ECONOMIC IMPACT



SUPPLIER LOCATIONS

The F135 program supports 37.000+ JOBS

in the U.S.

More than

220 SUPPLIERS IN 35 U.S.STATES

provide parts for the F135



60 SUPPLIERS IN 12 COUNTRIES

provide parts for the F135

The F135 program provides

\$41B IN INDUSTRIAL PARTICIPATION

for international partner nations

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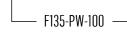


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F135

The World's Most Advanced **Fighter Engine**





F135-PW-600

Conventional Takeoff and Landing (CTOL) Carrier Variant (CV)

Short Takeoff/Vertical Landing (STOVL)

PROGRAM AT A GLANCE (AS OF JULY 1)



535+ aircraft delivered



290,000+ flight hours



24 bases worldwide (includes ship activations)







8 services have declared IOC

PROGRAM OF RECORD

























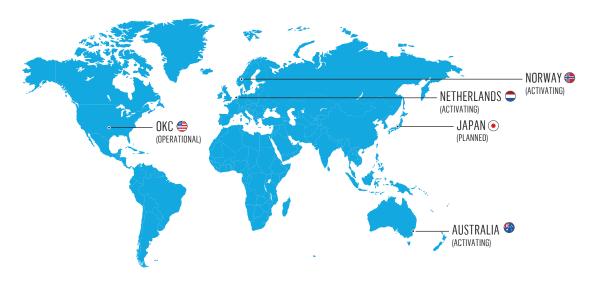




F135 ENGINE SPECS

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	43in	Main engine: 43 in Lift fan: 51 in
Maximum Diameter	46 in	Main engine: 46 in Lift fan: 53 in

F135 GLOBAL MRO&U NETWORK



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