

PRATT & WHITNEY F135 ENGINE FAST FACTS | Q3 2021

F135

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



UNMATCHED CAPABILITY FOR THE WARFIGHTER



40K+LBS of thrust



5th GENERATION stealth

technologies



PRECISE & RESPONSIVE

integrated engine control system



50% INCREASE

in thermal management capacity over 4th generation engines

PRODUCTION



825+ engines delivered in total



Reduced average cost of an F135 by **MORE THAN**

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



Mean flight hours between removal

MORE THAN 2X the program objective



93% REDUCTION

in unscheduled engine removals over 4th generation engines



13X SAFER

than 4th generation



TARGETING 50% REDUCTION

in cost per flight hour

MODERNIZATION

Growth in aircraft capability must be matched with propulsion modernization to ensure the full mission capability of the F-35 weapon system, now and in the future. Designed with the knowledge that operational environments evolve and threats advance, the F135 has ample design margin for agile, low-cost upgrades – known as Enhanced Engine Packages (EEP). EEP is the only cost-effective, capable, and proven variant-common solution that can enable full Block 4 capability and significantly reduce sustainment costs.







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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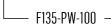


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F135

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





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

F135-PW-600

Short Takeoff/Vertical Landing (STOVL)

PROGRAM AT A GLANCE (AS OF JULY 1)



690+ aircraft delivered



430,000+ flight hours



29 bases worldwide (includes ship activations)









services have declared IOC

PROGRAM OF RECORD



















BELGIUM

34 F-35As







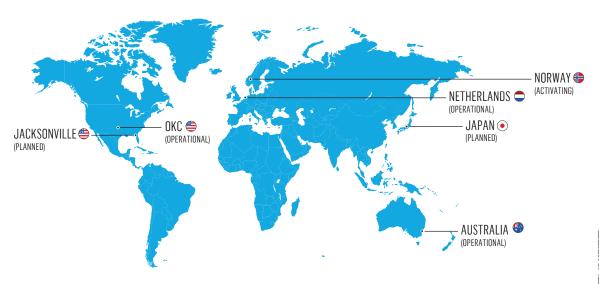




F135 ENGINE SPECS

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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