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PRATT & WHITNEY

# F135

MILITARY ENGINES

# F135-PW-600



The World's Most  
Advanced Fighter Engine

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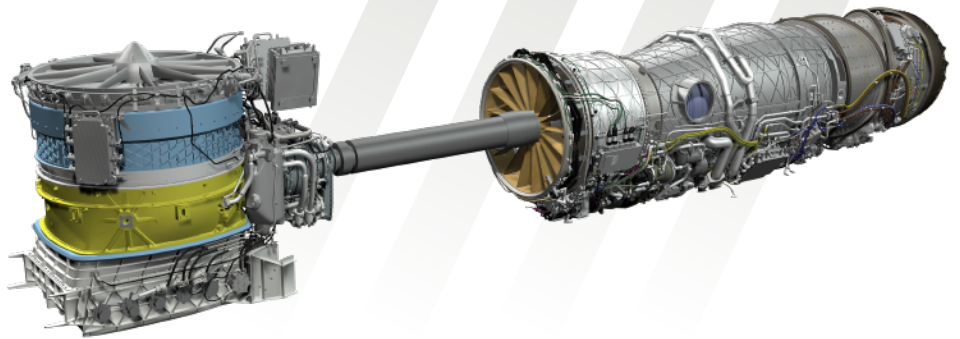
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IMAGE: PHOT DANIEL SHERBERO

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MILITARY ENGINES



# F135-PW-600

## The World's Most Advanced Fighter Engine

Powering the F-35B Lightning II

The F135 is the world's most advanced fighter engine, powering all three variants of the F-35 Lightning II fighter aircraft. The combat-proven F135 delivers more than 40,000 pounds of thrust and unmatched advances in safety, design, performance and reliability. Evolved from the proven F119 engine that powers the F-22 Raptor and building upon decades of combat propulsion experience, the F135 features 5th Generation power and stealth capabilities as well as advanced prognostics and health management systems -- all of which provide the warfighter with a technological advantage.

The F135 propulsion system for the F-35B includes the Rolls-Royce-produced LiftSystem, which provides short take-off and vertical landing capability (STOVL) to the U.S. Marine Corps and several international customers. The F135 STOVL variant features an adaptive control system that allows the aircraft to transition between hover and conventional flight at the push of a button.

### 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

### F135 ENGINE SPECIFICATIONS

#### F135 ENGINE SPECS

#### F135 -PW-600

Short Takeoff/Vertical  
Landing (STOVL)



Maximum Thrust Class	41,000 lbs
Intermediate Thrust Class	27,000 lbs
Short Takeoff Thrust Class	40,740 lbs
Hover Thrust Class	40,650 lbs
Length	369 in
Inlet Diameter	Main Engine: 43 in Lift fan: 51 in
Maximum Diameter	Main Engine: 46 in Lift fan: 53 in