

F135

MILITARY ENGINES

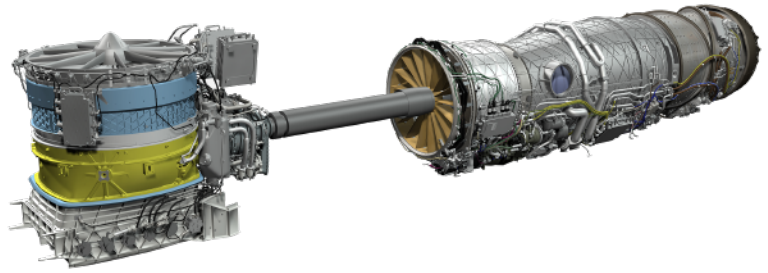
F135-PW-600



The World's Most
Advanced Fighter Engine

F135

MILITARY ENGINES



F135-PW-600

The World's Most Advanced Fighter Engine

Powering the F-35B Lightning II

The combat-proven F135 – which powers all three variants of the F-35 Lightning II – is the most advanced fighter engine in the world, providing the warfighter with a critical technological advantage over adversaries at an unparalleled value to the taxpayer. With more than 40,000 lbs. of thrust, unmatched low-observable signature, world-class thermal management, and innovative engine control system, the 5th Generation F135 is a critical enabler of the F-35 weapons system and of operations conducted in advanced threat environments.

Not only is the F135 the most powerful and most advanced fighter engine ever produced, it's also the most dependable – demonstrating a step change in reliability over 4th generation fighter engines with its advanced damage tolerant design and fully integrated prognostic health monitoring.

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 AND DEPENDABILITY FOR THE WARFIGHTER



40K+ LBS
of thrust



PRECISE & RESPONSIVE
integrated engine
control system



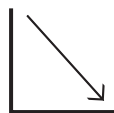
50% INCREASE
in thermal management
capacity over 4th
generation engines



5TH GENERATION
stealth technologies



15X SAFER
than 4th generation engines



89% REDUCTION
in unscheduled engine
removals over 4th
generation engines

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