

# F135

## Power for F-35B Short Takeoff and Vertical Landing (STOVL)

### Dependable Fifth-Generation Power from Land or Sea

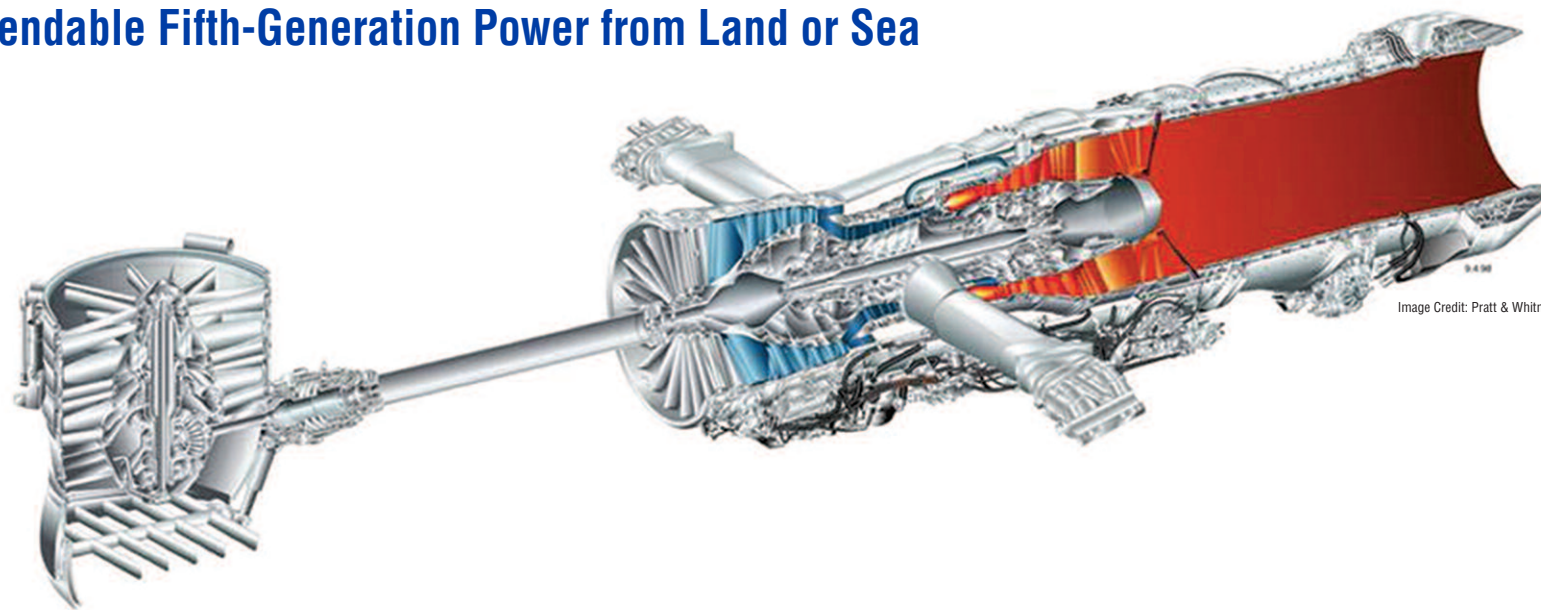


Image Credit: Pratt & Whitney

## Product Facts

### Engine Characteristics

Maximum thrust class	41,000 pounds (182.4 kN)
Intermediate thrust class	27,000 pounds (120.1 kN)
Short takeoff thrust class	40,740 pounds (181.2 kN)
Hover thrust class	40,650 pounds (180.8 kN)
Main engine	18,680 pounds (83.1 kN)
Lift fan	18,680 pounds (83.1 kN)
Roll post	3,290 pounds (14.6 kN)
Length	369 inches (9.37 m)
Main engine:	
Inlet diameter	43 inches (1.09 m)
Max diameter	46 inches (1.17 m)
Lift fan:	
Inlet diameter	51 inches (1.30 m)
Max diameter	53 inches (1.34 m)

### Features

- Single-engine reliability and affordability derived from proven fifth-generation fighter technologies, design, production and sustainment.
- Advanced health monitoring and network logistics support designed to reduce sustainment costs, increase mission readiness and enable weapon system availability.
- World's most powerful fighter engine enables unequalled stealth combat capabilities and effectiveness.
- LiftSystem is comprised of the Rolls-Royce LiftFan®, Driveshaft, 3 Bearing and Roll Posts.
- Bleed air provides thrust-to-roll post actuators for roll control.



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Photo Credit: Lockheed Martin

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