

F100-PW-229

Engine Enhancement Package

The Engine of Choice for Today's F-15 and F-16



A Proud Tradition of Dependable Performance

The F100 engine family has been in production 40+ years and selected by the U.S. Air Force (USAF), Navy, Air National Guard and 22 allied nations to power their F-15 Eagle and the F-16 Fighting Falcon fighters. F100 engines power all of USAF F-15s and more than half of F-16s worldwide. The F100 record of dependability, performance and safety has set a worldwide standard for fighter engine excellence. The F100-PW-229, the newest model of the F100, is the high-thrust evolution of the renowned F100-PW-220.

Full Production and Operational Maturity

In production since 1989, the F100-PW-229 continues to benefit from our product improvement focus and experience. Today more than 1,200 F100-PW-229s provide reliable thrust, supporting a wide range of customer missions in diverse operational environments around the globe. Its modular maintenance concept, coupled with a state-of-the-art Digital Electronic Engine Control (DEEC) system with enhanced, real-time engine monitoring and fault isolation capability, promotes the highest levels of operational readiness.

Redefining Full Life

The F100-PW-229 Engine Enhancement Package (EEP) – the newest member of Pratt & Whitney’s F100 engine family – achieves the objective of increasing engine depot maintenance interval from 4,300 to 6,000 total accumulated cycles (TACs), effectively extending the typical depot interval from 7 to 10 years and provides a 30 percent life-cycle cost reduction over the life of the engine.

Infusion of Advanced Technologies

The F100-PW-229 EEP has been designed to capitalize on a broad range of technological innovations proven on the F119 turbofan engine for the F-22 Raptor and the F135 propulsion system for the F-35 Lightning II.

Improving F-15 and F-16 Longevity, Performance and Affordability

The EEP configuration is especially important to the end user in increasing the depot maintenance interval and reducing operating cost of F-15 and F-16 fleets. The EEP configuration is the standard in all new production F100-PW-229 engines. The modular design of this product allows for easy installation to retrofit all existing pre-EEP F100-PW-229 engine assets.

Product Facts

F100-PW-229 Program Milestones

December 1989	1 st production delivery
September 1990	Successful field service evaluation
April 1992	1 st operational introduction
March 2007	EEP configuration defined
November 2009	1 st F100-PW-229 EEP configuration engine delivery
September 2010	6,000 TAC Accelerated Mission Test completed

Characteristics

Thrust	29,160 pounds (129.7 kN)
Weight (specification maximum)	3,826 pounds (1,735 kg)
Length	191 inches (4.85 m)
Inlet diameter	34.8 inches (0.88 m)
Maximum diameter	46.5 inches (1.18 m)
Bypass ratio	0.36
Overall pressure ratio	32 to 1
Thrust to weight	7.6

Military Applications

F-15E, F-16C/D



Pratt & Whitney

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