



IDS Business Support,
Communications and
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Precision Engagement & Mobility Systems Global Strike Systems

F-15E Strike Eagle Backgrounder

Description & Purpose:

Boeing produces the F-15E Strike Eagle, the world's leading long-range, multi-role fighter, at its St. Louis facility, where each of the more than 1,500 F-15s have been built.



Customer(s):

The government of Singapore awarded Boeing a contract in December 2005 to produce 12 F-15SG aircraft for the country's next-generation replacement fighter jet, and an option for eight additional aircraft at a future date. In October 2005, the Republic of Korea began receiving the first of 40 aircraft for its air force. The Singapore and Korean orders extend the F-15 production line into 2009 and provide an opportunity for new and existing customers to purchase additional aircraft.

During the past three decades, Boeing has produced more than 1,500 F-15s. The U.S. Air Force plans to fly the F-15E at least through 2030. Technology insertions and system upgrades are planned throughout that period to maintain its superiority. The U.S. Air Force and Air National Guard operate five F-15 models: The E and its A, B, C and D predecessors. F-15s are used by the U.S. Air Force in the Global War on Terror and in support of Operation Iraqi Freedom.

In addition to the United States, Korea and Singapore, F-15 customers also include Japan, Saudi Arabia and Israel.

General Characteristics:

Length:	63.8 ft (19.45 m)
Height:	18.5 ft (5.65 m)
Wing Span:	42.8 ft (13.05 m)
Propulsion:	Two P&W F100 turbofan engines in 29,000 lb (13,154 kg) thrust class with afterburning
Weight:	45,000 lb (20,411 kg) class 81,000 lb (36,700 kg) max gross takeoff
Speed:	Mach 2.5 class

Armament:

F-15A/B/C/D Mix of air-to-air weaponry includes: 20mm cannon, AIM-120 (AMRAAM) missiles, AIM-9 (Sidewinder) missiles, AIM-7 (Sparrow) missiles

F-15E Air-to-ground ordnance includes precision guided munitions, and a variety of missiles and bombs. Air-to-air weaponry includes cannon, four medium- and four short-range missiles.

The F-15 has two Pratt & Whitney F100-P&W-229 engines, each generating 29,000 pounds of thrust. The aircraft can reach speeds exceeding twice the speed of sound. It can carry up to 23,000 pounds of payload, including air-to-ground weapons such as the Joint Direct Attack Munition (JDAM) and AGM-130, and air-to-air weapons such as the Advanced Medium Range Air-to-Air Missile (AMRAAM) and Sidewinder.

The Hughes APG-70 radar provides high-resolution ground-mapping data that enable F-15E crews to identify targets at great distances, which significantly increases situational awareness and survivability. The Lockheed Martin Low Altitude Navigation and Targeting Infrared for Night system allows the plane to be flown at high speed and low altitude at night and in bad weather to strike targets with pinpoint precision.

Background:

The F-15 family of aircraft has a perfect air-combat record of more than 100 victories and zero defeats. F-15s downed four MiG-29 fighters during the Balkan conflict and 33 of the 35 fixed-wing aircraft Iraq lost in air combat during Operation Desert Storm. During the Balkan conflict, the F-15E was the only fighter able to attack ground targets around the clock, in all weather conditions.

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