Backgrounder

The Boeing Company
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F-15K Slam Eagle for the Republic of Korea (ROK)

The F-15K Slam Eagle is a combat-proven multirole fighter with unmatched capabilities in speed, range, payload and persistence.

The F-15K is an advanced variant of the combat-proven F-15E. Equipped with the latest technological upgrades, it is more capable, survivable, and maintainable than its predecessor. The F-15K enables the Republic of Korea (ROK) to change its focus from the short range defense of the past half-century to a broader regional view that considers the omnidirectional threats it will face in the 21st century. The F-15K service life is planned through 2040 and beyond, with technology insertions and upgrades throughout the lifecycle.

- Maximum gross takeoff weight of 81,000 pounds (36,740 kg) with a payload capability of 29,100 pounds (13,222 kg)
- Maximum combat radius without refueling: more than 1,000 nautical miles (1,800 kg)
- Minimum altitude and maximum speed of terrain-following flight: 600 knots at 100 feet (30.48m)
- Power:
  - F-15 Next Fighter I Program: two General Electric F110-GE-129 (29,000 lb (131 kN) thrust class) engines
  - F-15 Next Fighter II Program: two Pratt & Whitney F-100-PW-229 (29,000 lb (131kN) thrust class) engines
- A mix of air-to-air weaponry: 20mm cannon; AIM-120, AIM-9 and AIM-7
- A mix of air-to-ground ordnance, including precision-guided munitions (JDAM, SLAM-ER and Harpoon).
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True Synergy
A state-of-the-art cockpit and advanced avionics combined with the Joint Helmet Mounted Cueing System (JHMCS) results in increased situational awareness and enhanced air-to-air and self-defense capabilities.

- The F-15K's AN/APG-63(V)1 radar incorporates all air-to-air and air-to-ground modes of the APG-70 and adds ground moving target track, sea surface search and track.

- The newest generation Forward Looking Infrared (FLIR) system enhances target detection and tracking.
- Link 16 Fighter Data Link connects the F-15K to the networked battlefield.
- Improved self-protection capability through the ALQ-135M.
- The Infra-Red Search and Track (IRST) system provides enhanced passive detection and tracking of airborne targets.
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Unmatched Combat Radius
The F-15K operates with a combat radius/endurance of nearly 1,800 kilometers (more than 1,000 nm) – more than 200 kilometers greater than any competitor's aircraft.

Unmatched Speed
With a top speed of Mach 2.5, the F-15K offers unmatched climbing and closing speeds.

Unmatched Maximum Payload
The F-15K carries a greater variety of weapons and a larger payload – more than 13,403 kilograms (29,500 pounds) – to ensure a true multirole capability.

Computer and Targeting Systems
The F-15K includes an advanced computer, displays, and protection and targeting systems:

- Avionics suite: Honeywell advanced display core processor (ADCP)
- Cockpit-display technologies: seven-color liquid-crystal displays, two upfront control panels (flat-panel), JHMCS, and a wide-field-of-view head-up display
- Onboard protection systems: BAE Systems ALR-56C(V)1 early warning receiver and Northrop Grumman ALQ-135M jammer and the ALE-47(V)1 Countermeasures set
- Third-generation targeting and navigation systems: FLIR and IRST.

In April 2002, the ROK awarded Boeing a contract for 40 F-15K aircraft, all of which were delivered to ROK Air Force ahead of schedule and on cost. The ROK awarded Boeing a second contract for 21 F-15K aircraft in April 2008 under its Next Fighter II (NF II) requirement. All 21 F-15K aircraft under the Next Fighter II requirement were delivered on schedule and on cost. The final F-15K was delivered April 2, 2012 .

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