

F-35 Lightning II



25mm gun system

General Dynamics Armament and Technical Products has been awarded a system development and demonstration contract by Lockheed Martin Aeronautics Company to design, produce and integrate the gun systems for the F-35 Lightning II stealth fighter. GDATP is developing the GAU-22/A for the internal and external gun systems based on a derivative of its GAU-12/U 25mm Gatling gun. An internally mounted gun system will arm the F-35A Conventional Takeoff and Landing aircraft variant and a removable or "missionized" externally mounted gun system will arm the F-35B Short Takeoff and Vertical Landing and F-35C Carrier-Based aircraft variants.

Internal Gun System

The F-35A gun system will include the GAU-22/A derivative gun, a linear linkless ammunition feed system, a gun system control unit and a 4,000-pounds-per-square-inch hydraulic drive assembly.

External Gun System

The missionized gun system designed for the F-35B and F-35C will be hard-mounted to the centerline station of the aircraft. This gun system will include the CTOL-common GAU-22/A derivative gun, a gun system control unit and drive assembly, and a helical linear linkless ammunition feed system contained in a conformal pod.

Specifications

Gun type	Four-barrel, 25mm, externally powered Gatling gun
Weight (without ammunition)	
Internal system	416 pounds (189 kg)
External system	735 pounds (334 kg)
Rate of fire	3,000 shots per minute
Dispersion	5 milliradians diameter, 80 percent circle
Muzzle velocity	
(TP, HEI ammunition)	3,560 feet (1,085m) per second
(API ammunition)	3,400 feet (1,036m) per second
Average recoil force	4,000 pounds (17.8 kN)
Drive system	Hydraulic
Feed system	Conventional linear linkless (CTOL), helical linear linkless (STOVL, CV)

GENERAL DYNAMICS

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