

F-35 Joint Strike Fighter Statistics

	F-35A (CTOL)	F-35B (STOVL)	F-35C (CV)
Profile	Stealth	Stealth	Stealth
Height (m)	4.6	4.6	4.7
Length (m)	15.7	15.6	15.7
Span (m)	10.7	10.7	13.1
Wing Area (sq.m.)	42.7	42.7	58.3
Weight Empty (kg)	~12020	~13600	~13600
Maximum Weight (kg)	27215 kg class	27215 kg class	27215 kg class
Internal fuel (kg)	~8165	~5897	~8618
Speed	Mach 1.6+ (~1930 kph)	Mach 1.6+ (~1930 kph)	Mach 1.6+ (~1930 kph)
Range (km) Internal fuel	~2222	~1667	~2593
Engine	One P&W F135 or GE F136	One P&W F135 or GE F136	One P&W F135 or GE F136
Engine Thrust (kN) -dry	111	111	111
Engine Thrust (kN) -with after burner	178	178	178
Vertical Thrust* (kN) (STOVL)	n/a	176.6	n/a
Internal Weapons	2 air-to-air missiles, 2 precision air-to-surface	2 air-to-air missiles, 2 precision air-to-surface	2 air-to-air missiles, 2 precision air-to-surface
External Weapons	Variety, 6804 kg on 4 hardpoints, 2 under-wing missiles	Variety, 6804 kg on 4 hardpoints, 2 under-wing missiles	Variety, 6804 kg on 4 hardpoints, 2 under-wing missiles
Cannon (mm)	25	25 missionized, in stealth pod	25 missionized, in stealth pod
Payload vs. Legacy**	1.4 X	2 X	1.3 X
Range vs. Legacy**	2.5 X	1.8 X	2 X

* After burner is not used in STOVL mode. Shaft-driven lift fan augments engine's lifting force.

** Legacy CTOL = F-16
Legacy STOVL = AV-8B Harrier
Legacy CV = F/A-18

CTOL = Conventional Takeoff and Landing
STOVL = Short Takeoff/Vertical Landing
CV = Carrier Version