

# F-35 vs. Su-57

## Lockheed Martin F-35A

**Service Since:** 2015

**Role:** Unspecialized Single Engine Light Fighter

**Payload:** Four Air to Air Missiles

**Max. Engagement Range:** 105km (AIM-120C)

**Max. Altitude:** 15.3km

**Max. Speed:** Mach 1.6

**Maneuverability:** Medium-Low

**Range:** 2,200km

**Maintenance:** Very High

**Sensors:** Frontal AESA Radar, IRST



Built as Low Cost Light Fighter to Replace F-16 Fighting Falcon

Lighter Less Specialised Counterpart to F-22 Raptor Air Superiority Fighter

F-35 "was never designed to be the next dog fighting machine... it had an air-to-air capability, but it was not intended to be an air-superiority fighter. That was the F-22." - Gen. Mark Walsh

"If I do not keep that F-22 fleet viable, the F-35 fleet frankly will be irrelevant. The F-35 is not built as an air superiority platform. It needs the F-22." - Air Combat Command chief General Mike Hostage

"The F-35 development program has been plagued by frequent delays and mounting cost overruns. The design compromises that have to be made to accommodate its goal of serving as a joint strike fighter that will be acquired by the U.S. Air Force, Navy and the Marines have limited its performance capabilities. In the meantime, anti-stealth technology is being developed and may yet neutralize what is being advertised as the aircraft's major advantage before delivery or within its operational lifetime. Russia and Indian are developing a more advanced aircraft, the Sukhoi T-50 (Su-57)" - Moshe Arens, Three Time Israeli Defense Minister, Foreign Minister, and Aeronautical Engineer



## Sukhoi Su-57

**Service Since:** 2018 (Not Fully Operational)

**Role:** Twin Engine Heavy Air Superiority Fighter

**Payload:** Ten Air to Air Missiles

**Max. Engagement Range:** 193km (K-77)  
400km (R-37M)

**Max. Altitude:** 20km

**Max. Speed:** Mach 2.25

**Maneuverability:** Very High

**Range:** 3,500km

**Maintenance:** High

**Sensors:** Frontal and Cheek AESA Radars, IRST



Built to Contend Air Superiority Against U.S. F-22 Raptor

Heavy Platform Specialised in Air to Air Combat. Can Also Engage Naval and Ground Targets With Cruise Missiles at Speeds of Up To Mach 3.6

Incorporates Similar Three Dimensional Thrust Vectoring System to Su-35, Allowing for Supermanoeuvrability and Significantly Enhanced Survivability

IRST (infra red search and track system) Allows Fighter to Operate Offensively With No Radar Signature for Maximum Survivability

Considerably Higher Altitude, Speed, Range, Payload, and Engagement Range than F-35 Indicates a Considerable Advantage in Air to Air Combat As Well As Superior Performance in a Strike Role

Faster and Cheaper Maintenance Means More Time in the Air and a Higher Sortie Rate. Durable and Can Deploy from Makeshift Runways

K-77 Air to Air Missile Uses Active Phased Array Antenna for Unprecedented Accuracy Even at Extreme Ranges



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