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AVAILABILITY: TBD

55,000 ft

Performance & **Specifications**

FLYAWAY COST: \$25 Million Typical Flyaway

TYPE

Single Seat Air Defense Fighter (ADF) and Strike Fighter (SF)

ACCOMMODATION

Single Pilot Seated on a Martin Baker MK16E Zero-Zero Ejection Seat

POWERPLANT

One (1) General Electric Aircraft Engines F414 Enhanced Afterburning Turbofan delivering 26,600 lbs st with Afterburner and 16,232 lbs st at Military Power. The powerplant may be fitted with a thrust vectoring nozzle.

STRUCTURE

Semi-monocoque aluminum and titanium foam metal sandwich construction throughout with multiple sine-wave spars in the cantilever wings and empennage. Titanium metal ceramics (cermets) used in high temperature regions.

ARMAMENT

Fixed: One Nose mounted General Dynamics six barrel M61A2 20mm gatling cannon with 1,000 rds Expendable: Eight external wing hardpoints for carriage of up to 12,000 lbs of external stores

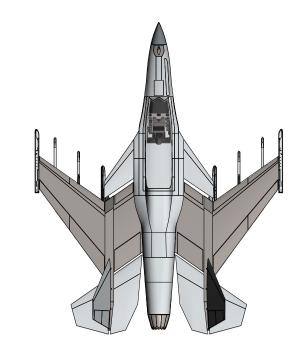
DIMENSIONS

33 ft 4 in 42 ft 0 in 12 ft 4 in	Wing Area Wheelbase Wheeltrack	308 sq ft 16 ft 6 in 12 ft 0 in
	LOADINGS	
16,000 lbs 7,000 lbs 12,000 lbs 23,700 lbs 36,000 lbs	Wing Loading @ TCW (lbs/sq ft) Thrust-to-Weight @ TCW Wing Loading @ MTOW (lbs/sq ft) Thrust-to-Weight @ MTOW Positive Load Limit @ MTOW	76.9 1.12 116.9 0.74 9.0
1.23 Mach 1.60 Mach 2.27 Mach 1.00 Mach 1.00 Mach 0.85 Mach 0.85 Mach 133 KTAS	Max Speed Range-Clean, Internal Fuel Max Speed Radius-Clean, Internal Fuel Supercruise Range-Clean, Internal Fuel Supercruise Radius-Clean, Internal Fuel 0.85 Mach Range-Loaded, Internal Fuel 0.85 Mach Radius-Loaded, Internal Fuel 0.85 Mach Ferry Range-2 x 330 USG Tanks Takeoff Ground Roll, Takeoff Weight Landing Ground Roll. Landing Weight	230 nm 103 nm 945 nm 462 nm 1,420 nm 694 nm 2,051 nm 1,575 ft 1,989 ft
	16,000 lbs 7,000 lbs 7,000 lbs 12,000 lbs 23,700 lbs 36,000 lbs 1.23 Mach 1.60 Mach 2.27 Mach 1.00 Mach 0.85 Mach 0.85 Mach	42 ft 0 in 12 ft 4 in Wheelbase Wheeltrack LOADINGS 16,000 lbs

Service Ceiling Exceeds

47.700 ft/min







Max Initial Rate-of Climb @ SL