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Performance & **Specifications** 

FLYAWAY COST: \$50 Million Typical Flyaway

**AVAILABILITY: TBD** 

# **TYPE**

Multi-Role Fighter and All-Weather Strike Fighter/Air Superiority Fighter

# **ACCOMMODATION**

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

### **POWERPLANT**

Option 1: One 50,000 lbs static thrust class P&W or GEAE ADVENT variable cycle afterburning turbofan /or/ Option 2: One 52,500 lbs static thrust NeoThrust/Motor Sich E1400-SE-520 variable cycle afterburning turbofan

### STRUCTURE

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

# **ARMAMENT**

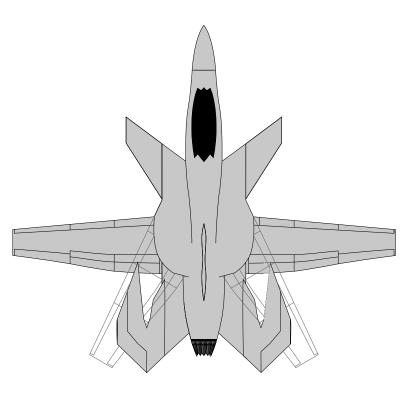
Fixed: One nose mounted General Dynamics six barrel M61A2 20mm gatling cannon with 1,000 rds Expendable: Two internal weapon bays and four external wing hardpoints for carriage of up to 20,000 lbs of stores

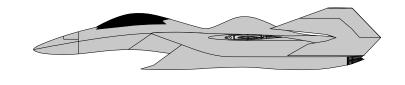
### **DIMENSIONS**

Wingspan Length Overall Height Overall	64 ft 0 in 58 ft 0 in 13 ft 6 in	Wing Area Minimum LE Wing Sweep Maximum LE Wing Sweep	580 sq ft 5° 70°
WEIGHTS & CAPACITIES		LOADINGS	
Empty Weight Max Internal Fuel Max Warload Mid Mission Weight (MMW) Max Take-Off Weight (MTOW)	24,000 lbs 20,000 lbs 20,000 lbs 37,000 lbs 65,000 lbs	Wing Loading @ MMW (lbs/sq ft) Thrust-to-Weight @ MMW Wing Loading @ MTOW (lbs/sq ft) Thrust-to-Weight @ MTOW Positive Load Limit @ MMW	63.8 1.41 112.1 0.80 12.5
PERFORMANCE			
Max Level Speed @ SL	1.25 Mach	Max Climb Rate @ SL	65,000 ft/min

Max Level Speed @ SL1.25 MacMax Level Speed @ FL3502.60 MacMax Level Speed @ FL5002.80 MacSupercruise Speed @ SL1.20 MacSupercruise Speed @ FL3501.80 MacTypical Cruise Speed @ SL0.85 MacTypical Cruise Speed @ FL3500.85 MacTakeoff Speed; MTOW162 KTAStall Speed; MTOW147 KTAApproach Speed; Landing Config116 KTAStall Speed; Landing Config97 KTA	h         Service Ceiling         75,000 ft           h         Supercruise Range         1,577 nm           h         Supercruise Radius         662 nm           h         0.85 Mach Range         2,324 nm           h         0.85 Mach Radius         976 nm           h         0.85 Mach Ferry Range         3,400 nm           S         Takeoff Ground Roll, Takeoff Weight         1,399 ft           S         Takeoff Over 50 ft, Takeoff Weight         1,822 ft           Landing Ground Roll, Landing Weight         1,278 ft
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