



57/1/// MULTI-ROLE FIGHTER



Performance & Specifications

FLYAWAY COST: \$50 Million Typical Flyaway

AVAILABILITY: TBD

580 sq ft

TYPE

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

ACCOMMODATION

Single Pilot Seated on a Martin Baker MK18 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 Stavatti NeoThrust E1400-NT-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 or DEW Expendable: Two internal weapon bays and four external wing hardpoints for carriage of up to 20,000 lbs of stores

64 ft 0 in Wing Area

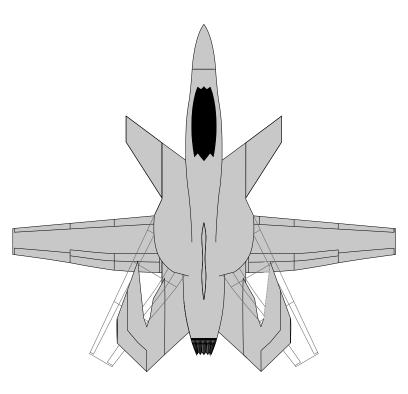
DIMENSIONS

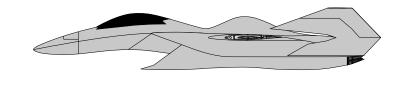
Wingspan

Length Overall Height Overall	58 ft 0 in 13 ft 6 in	Minimum LE Wing Sweep Maximum LE Wing Sweep	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

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Max Level Speed @ FL350	2.60 Mach	Service Ceiling	75,000 ft
Max Level Speed @ FL500	2.80 Mach	Supercruise Range	1,577 nm
Supercruise Speed @ SL	1.20 Mach	Supercruise Radius	662 nm
Supercruise Speed @ FL350	1.80 Mach	0.85 Mach Range	2,324 nm
Typical Cruise Speed @ SL	0.85 Mach	0.85 Mach Radius	976 nm
Typical Cruise Speed @ FL350	0.85 Mach	0.85 Mach Ferry Range	3,400 nm
Takeoff Speed; MTOW	162 KTAS	Takeoff Ground Roll, Takeoff Weight	1,399 ft
Stall Speed; MTOW	147 KTAS	Takeoff Over 50 ft, Takeoff Weight	1,822 ft
Approach Speed; Landing Config	116 KTAS	Landing Ground Roll, Landing Weight	1,278 ft
Stall Speed; Landing Config	97 KTAS	Landing Over 50 ft, Landing Weight	1,417 ft







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