

# RAZOR

AIR DOMINANCE FIGHTER

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Performance & Specifications

FLYAWAY COST: \$85 Million AVAILABILITY: TBD

## **TYPE**

Air Dominance Fighter, Interceptor and All-Weather Strike Fighter/Fighter Bomber

## **ACCOMMODATION**

Single Pilot Seated on a MK18 or ACES 5 Zero-Zero Ejection Seat or Proprietary Ejection Seat

#### **POWERPLANT**

Two 52,400 lbs static thrust NeoThrust E1400-SE-520 variable cycle afterburning turbofans with MHD Energy Bypass /or/ Two 50,000 lbs static thrust class GEAE ACE variable cycle afterburning turbofans

#### 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 Engine Driven Gas Dynamic Directed Energy Laser Weapon Expendable: Two internal weapon bays and four external wing hardpoints for carriage of up to 25,000 lbs of stores

#### **DIMENSIONS**

Wingspan	54 ft 6 in	Wing Area	1,132 sq ft
Length Overall	78 ft 6 in	Wheelbase	28 ft 4 in
Height Overall	13 ft 8 in	Wheeltrack	16 ft 9 in

#### WEIGHTS & CAPACITIES LOADINGS

Empty Weight Max Internal Fuel Max Warload Typical Combat Weight (TCW)	30,000 lbs 25,000 lbs	Wing Loading @ TCW (lbs/sq ft) Thrust-to-Weight @ TCW Wing Loading @ MTOW (lbs/sq ft) Thrust-to-Weight @ MTOW	57.4 1.60 88.3 1.04
Max Take-Off Weight (MTOW)	,	Positive Load Limit @ MTOW	1.04 7.5
wax rake-On weight (wirow)	100,000 105	Positive Load Littil @ IVITOVV	7.5

# **PERFORMANCE**

Max Level Speed @ SL Max Level Speed @ FL300 Exceeds Max Level Speed @ FL600 Exceeds Max Level Speed @ FL900 Exceeds Supercruise Speed @ FL650 Exceeds Typical Cruise Speed @ FL400 ft Typical Takeoff Speed @ SL Typical Approach Speed @ SL Typical Landing Stall Speed @ SL	1.30 Mach 2.45 Mach 3.85 Mach 4.00 Mach 3.70 Mach 0.90 Mach 151 KTAS 115 KTAS	Tactical Radius, Hi-Lo-Hi Ferry Range-External Tanks Takeoff over 50 ft, Takeoff Weight	49,500 ft/min 75,000 ft/min 350 nm 970 nm 1,635 nm 2,065 nm 1,300 nm 5,000 nm
Service Ceiling Exceeds	100,000 ft	Landing over 50 ft, Landing Weight	1,437 ft 1,985 ft





