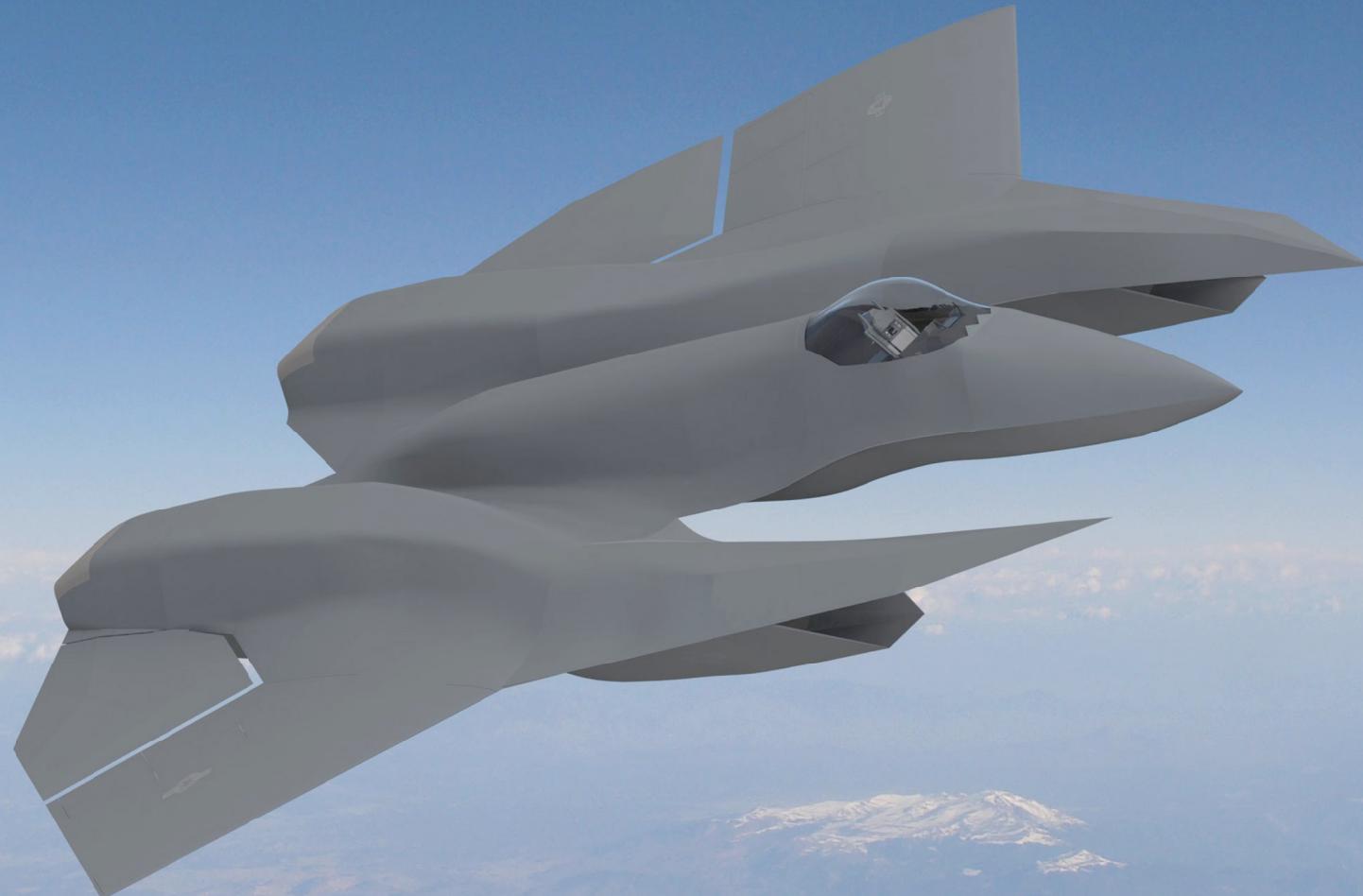


STAVATTI™
SM-39



RAZOR
AIR DOMINANCE FIGHTER

SM-39 RAZOR

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 Martin Baker MK16E Zero-Zero Ejection Seat or Proprietary Encapsulated 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 4 in	Wing Area	904 sq ft
Length Overall	76 ft 6 in	Wheelbase	25 ft 0 in
Height Overall	13 ft 8 in	Wheeltrack	16 ft 9 in

WEIGHTS & CAPACITIES

		LOADINGS	
Empty Weight	46,000 lbs	Wing Loading @ TCW (lbs/sq ft)	71.9
Max Internal Fuel	30,000 lbs	Thrust-to-Weight @ TCW	1.61
Max Warload	25,000 lbs	Wing Loading @ MTOW (lbs/sq ft)	110.6
Typical Combat Weight (TCW)	65,000 lbs	Thrust-to-Weight @ MTOW	1.04
Max Take-Off Weight (MTOW)	100,000 lbs	Positive Load Limit @ MTOW	7.5

PERFORMANCE

Max Level Speed @ SL	1.30 Mach	Max SL Climb Rate @ MTOW	49,500 ft/min
Max Level Speed @ FL300 Exceeds	2.45 Mach	Max SL Climb Rate @ TCW	75,000 ft/min
Max Level Speed @ FL600 Exceeds	3.85 Mach	Max Speed Range @ FL300	350 nm
Max Level Speed @ FL900 Exceeds	4.45 Mach	Max Speed Range @ FL600	970 nm
Supercruise Speed @ FL650 Exceeds	3.70 Mach	Max Speed Range @ FL900	1,635 nm
Typical Cruise Speed @ FL400 ft	0.90 Mach	Supercruise Range @ FL600	2,065 nm
Typical Takeoff Speed @ SL	151 KTAS	Tactical Radius, Hi-Lo-Hi	1,300 nm
Typical Approach Speed @ SL	108 KTAS	Ferry Range-External Tanks	5,000 nm
Typical Landing Stall Speed @ SL	98 KTAS	Takeoff over 50 ft, Takeoff Weight	1,598 ft
Service Ceiling	100,000 ft	Landing over 50 ft, Landing Weight	2,550 ft

