

STAVATTI[®] SM-36



STALMA

MULTI-ROLE FIGHTER

SM-36 STALMA

FLYAWAY COST: \$50 Million Typical Flyaway

AVAILABILITY: TBD

Performance & Specifications

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

DIMENSIONS

Wingspan	64 ft 0 in	Wing Area	580 sq ft
Length Overall	58 ft 0 in	Minimum LE Wing Sweep	5°
Height Overall	13 ft 6 in	Maximum LE Wing Sweep	70°

WEIGHTS & CAPACITIES

Empty Weight	24,000 lbs	Wing Loading @ MMW (lbs/sq ft)	63.8
Max Internal Fuel	20,000 lbs	Thrust-to-Weight @ MMW	1.41
Max Warload	20,000 lbs	Wing Loading @ MTOW (lbs/sq ft)	112.1
Mid Mission Weight (MMW)	37,000 lbs	Thrust-to-Weight @ MTOW	0.80
Max Take-Off Weight (MTOW)	65,000 lbs	Positive Load Limit @ MMW	12.5

PERFORMANCE

Max Level Speed @ SL	1.25 Mach	Max Climb Rate @ SL	75,000 ft/min
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

