STAVATTI SM-315 STILETTO



ADVANCED LIGHT FIGHNER

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SM-31S STILETT

Performance & Specifications

FLYAWAY COST: \$20 Million Typical Flyaway

AVAILABILITY: TBD

TYPE

Light Fighter (LF), Air Defense Fighter (ADF) and Armed Reconnaissance (AR) Aircraft

ACCOMMODATION

Flight Crew of One Seated on a Martin Baker MK16E or MK18 Zero-Zero Ejection Seat

POWERPLANT

One (1) Motor Sich AI-322-30F Derivative Afterburning Turbofan delivering 11,023 lbs st with Afterburner and 6,613 lbs st at Military Power. The powerplant is fitted with variable geometry, thrust vectoring and reversing 2D nozzle.

STRUCTURE

Semi-monocoque aluminum lithium and aluminum honeycomb sandwich construction throughout. Titanium used in high fatigue areas and high temperature regions. Extensive use of Laser and Friction Stir Welding in all assemblies.

ARMAMENT

Fixed: One fuselage mounted M61A2 20mm gatling cannon with 500 rds Expendable: Internal Weapons Bay and six external wing hardpoints for up to 7,100 lbs of external stores

DIMENSIONS

Wingspan	24 ft 0 in	Wing Area	176 sq ft
Length Overall	41 ft 8 in	Wheelbase	15 ft 8 in
Height Overall	9 ft 0 in	Wheeltrack	10 ft 8 in

WEIGHTS & CAPACITIES

Empty Weight	8,500 lbs	Wing Loading @ MMW (lbs/sq ft)	63.8
Max Internal Fuel	3,800 lbs	Thrust-to-Weight @ MMW	0.98
Max Payload	7,700 lbs	Wing Loading @ MTOW (lbs/sq ft)	113.6
Mid-Mission Weight (MMW)	11,236 lbs	Thrust-to-Weight @ MTOW	0.55
Max Take-Off Weight (MTOW)	20,000 lbs	Positive Load Limit @ MTOW	9.0

PERFORMANCE

Max Level Speed @ SL Max Level Speed @ FL350 Max Cruise Speed @ SL Max Cruise Speed @ FL350 Typical Cruise Speed @ SL Typical Cruise Speed @ FL350 Takeoff Speed; MTOW @ SL Stall Speed; MTOW @ SL Approach Speed; Landing Weight @ SL	1.23 Mach 1.60 Mach 0.90 Mach 0.90 Mach 0.80 Mach 0.80 Mach 177 Ktas 161 Ktas 124 Ktas	Max Climb Rate @ SL; MTOW Max Climb Rate @ SL; MMW Dash Range @ 1.60 Mach Dash Radius @ 1.60 Mach Cruise Range @ 0.90 Mach Cruise Radius @ 0.90 Mach Ferry Range with External Tanks Takeoff, Ground Roll @ SL-TTW Takeoff, BFL @ SL-TTW	18,998 ft/min 34,623 ft/min 205 nm 95 nm 1,491 nm 2,307 nm 1,425 ft 2,125 ft
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