SM-315 STILETTO Powered by F125XX ADVANCED LIGHT FIGHTER



Performance & Specifications

TYPICAL FLYAWAY COST: \$23 Million

AVAILABILITY: TBD

176 sq ft

15 ft 8 in

10 ft 8 in

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 MK 18 Zero-Zero Ejection Seat

POWERPLANT

One (1) Honeywell F125XX Afterburning Turbofan delivering 16,000 lbs st with Afterburner and 11,500 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 7,000 lbs of external stores

DIMENSIONS

Length Overall

Height Overall

Wingspan

WEIGHTS & CAPACITIES		LOADINGS	
Empty Weight Max Internal Fuel Max Payload Mid-Mission Weight (MMW) Max Take-Off Weight (MTOW)	7,600 lbs 11,336 lbs	Wing Loading @ MMW (lbs/sq ft) Thrust-to-Weight @ MMW Wing Loading @ MTOW (lbs/sq ft) Thrust-to-Weight @ MTOW Positive Load Limit @ MTOW	64.4 1.41 113.6 0.80 9.0

24 ft 0 in Wing Area

41 ft 8 in Wheelbase

9 ft 0 in Wheeltrack

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 Stall Speed; Landing Weight @ SL Stall Speed; Cailing Exceeds	104 Ktas		32,359 ft/min 57,839 ft/min 137 nm 60 nm 1,246 nm 341 nm 1,939 nm 955 ft 1,625 ft 1,529 ft 2,264 ft
---	--	----------	--	---







Release: March 2023

Copyright © 2023 Stavatti Aerospace Ltd.