

# STAVATTI<sup>®</sup> SM-315 STILETTO

*Powered by*  
E450-NT-160



## ADVANCED LIGHT FIGHTER

# SM-315 STILETTO

## Performance & Specifications

TYPICAL FLYAWAY COST: \$23 Million

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 MK 18 Zero-Zero Ejection Seat

### POWERPLANT

One (1) NeoThrust E450-NT-160 Afterburning Turbofan delivering 7,263 kgf st with Afterburner and 6,242 kgf 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 3,450 kg of external stores

### DIMENSIONS

Wingspan	7.32 m	Wing Area	16.35 sq m
Length Overall	12.70 m	Wheelbase	4.78 m
Height Overall	2.74 m	Wheeltrack	3.25 m

### WEIGHTS & CAPACITIES

Empty Weight	3,904 kg
Max Internal Fuel	1,816 kg
Max Warload	3,450 kg
Mid-Mission Weight (MMW)	5,344 kg
Max Take-Off Weight (MTOW)	9,532 kg

### LOADINGS

Wing Loading @ MMW (kg/sq m)	327
Thrust-to-Weight @ MMW	1.36
Wing Loading @ MTOW (kg/sq m)	583
Thrust-to-Weight @ MTOW	0.76
Positive Load Limit @ MTOW	9.0

### PERFORMANCE

Max Level Speed @ SL	1.23 Mach	Max Climb Rate @ SL; MTOW	303 m/sec
Max Level Speed @ FL350	2.19 Mach	Max Climb Rate @ SL; MMW	471 m/sec
Max Cruise Speed @ SL	0.90 Mach	Dash Range @ 2.60 Mach	467 km
Max Cruise Speed @ FL350	0.90 Mach	Dash Radius @ 2.00 Mach	785 km
Typical Cruise Speed @ SL	0.80 Mach	Cruise Range @ 0.85 Mach	2,409 km
Typical Cruise Speed @ FL350	0.80 Mach	Air Superiority Radius, Internal Fuel	687 km
Takeoff Speed; MTOW @ SL	302 km/hr	Ferry Range with External Tanks	3,804 km
Stall Speed; MTOW @ SL	274 km/hr	Takeoff, Ground Roll @ SL-TTW	301 m
Approach Speed; Landing Weight @ SL	219 km/hr	Takeoff over 50 ft @ SL-TTW	580 m
Stall Speed; Landing Weight @ SL	189 km/hr	Landing, Ground Roll @ SL-TLW	811 m
Service Ceiling Exceeds	18,288 m	Landing over 50 ft @ SL-TLW	1,169 m

