# STAVATTI. SIM-315 STILETTO

Powered by E450-NT-160

ADVANCED LIGHT FIGHTER



# 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 16,000 lbs st with Afterburner and 13,763 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 gatting cannon with 500 rds or Directed Energy Weapon (DEW) Expendable: Internal Weapons Bay and six external wing hardpoints for up to 7,600 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

**LOADINGS** 

#### WEIGHTS & CAPACITIES

Empty Weight	8,600 lbs	Wing Loading @ MMW (lbs/sq ft)	66.9
Max Internal Fuel	4,000 lbs	Thrust-to-Weight @ MMW	1.36
Max Warload	7,600 lbs	Wing Loading @ MTOW (lbs/sq ft)	119.3
Mid-Mission Weight (MMW)	11,772 lbs	Thrust-to-Weight @ MTOW	0.76
Max Take-Off Weight (MTOW)	21,000 lbs	Positive Load Limit @ MTOW	9.0

# **PERFORMANCE**

Max Level Speed @ SL	1.25 Mach	Max Climb Rate @ SL; MTOW	59,693 ft/min
Max Level Speed @ FL350	2.42 Mach	Max Climb Rate @ SL; MMW	92,769 ft/min
Max Cruise Speed @ SL	0.90 Mach	Dash Range @ 2.60 Mach	252 nm
Max Cruise Speed @ FL350	0.90 Mach	Dash Radius @ 2.00 Mach	424 nm
Typical Cruise Speed @ SL	0.80 Mach	Cruise Range @ 0.85 Mach	1,301 nm
Typical Cruise Speed @ FL350	0.80 Mach	Air Superiority Radius, Internal Fuel	371 nm
Takeoff Speed; MTOW @ SL	163 Ktas	Ferry Range with External Tanks	2,054 nm
Stall Speed; MTOW @ SL	148 Ktas	Takeoff, Ground Roll @ SL-TTW	986 ft
Approach Speed; Landing Weight @ SL	118 Ktas	Takeoff over 50 ft @ SL-TTW	1,902 ft
Stall Speed; Landing Weight @ SL	102 Ktas	Landing, Ground Roll @ SL-TLW	2,660 ft
Service Ceiling Exceeds	60,000 ft	Landing over 50 ft @ SL-TLW	3,835 ft







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