# STAVATTI SM-81T STILETTO



ADV/NCED
PILOT TR/INER



# Performance & Specifications

FLYAWAY COST: \$23 Million Typical Flyaway

**AVAILABILITY: TBD** 

40.05

3,673 km

397 m

675 m

678 m

1,020 m

# **TYPE**

Advanced Pilot Trainer (APT), Supersonic Trainer (ST) and Light Fighter (LF)

# **ACCOMMODATION**

Flight Crew of Two Seated in Tandem on Martin Baker MK16E or MK 18 Zero-Zero Ejection Seats

### **POWERPLANT**

One (1) Honeywell F125X Afterburning Turbofan delivering 5,561 kgf st with Afterburner and 3,686 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 fatique 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 3,291 kg of external stores

### **DIMENSIONS**

147

Wingspan Length Overall Height Overall	7.32 m 12.70 m 2.74 m	Wing Area Wheelbase Wheeltrack	16.35 sq m 4.78 m 3.25 m
WEIGHTS & CAPACITIES		LOADINGS	
Empty Weight Max Internal Fuel Max Warload Mid-Mission Weight (MMW) Max Take-Off Weight (MTOW)	3,949 kg 1,816 kg 3,291 kg 5,334 kg 9,532 kg	Wing Loading @ MMW (kg/sq m) Thrust-to-Weight @ MMW Wing Loading @ MTOW (kg/sq m) Thrust-to-Weight @ MTOW Positive Load Limit @ MTOW	326 1.04 583 0.58 9.0
PERFORMANCE			
Max Level Speed @ SL Max Level Speed @ FL400 Max Cruise Speed @ SL Max Cruise Speed @ FL350 Typical Cruise Speed @ SL	1.03 Mach 1.30 Mach 0.90 Mach 0.90 Mach 0.80 Mach	Max Climb Rate @ SL; MTOW Max Climb Rate @ SL; MMW Dash Range @ 1.00 Mach Dash Range @ 1.30 Mach Cruise Range @ 0.85 Mach	109 m/sec 208 m/sec 724 km 367 km 2,371 km
Typical Cruise Speed @ FL350	0.80 Mach	Air Superiority Radius, Internal Fuel	652 km

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337 km/hr Ferry Range with External Tanks

306 km/hr Takeoff, Ground Roll @ SL-TTW

194 km/hr Landing, Ground Roll @ SL-TLW

224 km/hr Takeoff over 50 ft @ SL-TTW

16,764 m Landing over 50 ft @ SL-TLW







Takeoff Speed; MTOW @ SL

Approach Speed; Landing Weight @ SL

Stall Speed; Landing Weight @ SL

Stall Speed; MTOW @ SL

Service Ceiling Exceeds