STAVATTI" SM-BIT STILETTO



NDV/NCED PILOT TRAINER

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SM-31T STILETTO

Performance & Specifications

FLYAWAY COST: \$23 Million Typical Flyaway

AVAILABILITY: TBD

2,218 ft

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 MK18 Zero-Zero Ejection Seats

POWERPLANT

One (1) Honeywell F125X Derivative Afterburning Turbofan delivering 12,250 lbs st with Afterburner and 8,120 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 Length Overall Height Overall	24 ft 0 in 41 ft 8 in 9 ft 0 in	Wing Area Wheelbase Wheeltrack	176 sq ft 15 ft 8 in 10 ft 8 in
WEIGHTS & CAPACITIES		LOADINGS	
Empty Weight Max Internal Fuel Max Payload Mid-Mission Weight (MMW) Max Take-Off Weight (MTOW)	8,700 lbs 3,800 lbs 8,000 lbs 11,500 lbs 20,500 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	65.3 1.07 116.5 0.60 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 1.72 Mach 0.90 Mach 0.90 Mach 0.80 Mach 177 Ktas 150 Ktas 127 Ktas	Max Climb Rate @ SL; MTOW Max Climb Rate @ SL; MMW Dash Range @ 1.65 Mach Dash Radius @ 1.65 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	21,717 ft/min 39,554 ft/min 220 nm 103 nm 1,327 nm 452 nm 1,982 nm 1,370 ft 2,045 ft
Stall Speed; Landing Weight @ SL	106 Ktas	Landing, Ground Roll @ SL-TLW	1,490 ft

50,000 ft Landing, BFL @ SL-TLW







Service Ceiling Exceeds