STAVATTI" SM-31 STILETTO T-X



ADVANCED PILOT TRAINER



Performance & Specifications

TYPICAL FLYAWAY COST: \$14 Million AVAILABILITY: 2024

TYPE

Advanced Pilot Trainer (APT/T-X) and Supersonic Trainer (ST)

ACCOMMODATION

Flight Crew of Two Seated in Tandem on Martin Baker MK16E or MK18 Zero-Zero Ejection Seats

POWERPLANT

One (1) Honeywell F125-GA-100 Derivative Afterburning Turbofan delivering 9,850 lbs st with Afterburner and 6,230 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: None

Expendable: None; Has provisions for up to six external wing hardpoints for up to 1,100 lbs of external stores

24 ft 0 in

41 ft 8 in

DIMENSIONS

Length Overall

Wingspan

Height Overall	9 ft 0 in	Wheeltrack	10 ft 8 in
WEIGHTS & CAPACITIES		LOADINGS	
Empty Weight Max Internal Fuel	7,100 lbs 3,800 lbs	Wing Loading @ MMW (lbs/sq ft) Thrust-to-Weight @ MMW	54.5 1.03
Max Payload	1,700 lbs	Wing Loading @ MTOW (lbs/sq ft)	71.0
Mid-Mission Weight (MMW)	9,600 lbs	Thrust-to-Weight @ MTOW	0.79
Max Take-Off Weight (MTOW)	12,500 lbs	Positive Load Limit @ MTOW	9.0

Wing Area Wheelbase

PERFORMANCE

1.00 Mach 1.43 Mach 0.90 Mach 0.90 Mach 0.80 Mach 0.80 Mach 140 Ktas 127 Ktas 114 Ktas 95 Ktas	Max Climb Rate @ SL; MTOW Max Climb Rate @ SL; MMW Dash Range @ 1.43 Mach Dash Radius @ 1.43 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 Landing, Ground Roll @ SL-TLW	25,885 ft/min 34,078 ft/min 220 nm 103 nm 1,665 nm 651 nm 2,441 nm 1,267 ft 1,991 ft 1,203 ft
95 Ktas 60,000 ft	Landing, Ground Roll @ SL-TLW Landing, BFL @ SL-TLW	1,203 ft 1,973 ft
	1.43 Mach 0.90 Mach 0.90 Mach 0.80 Mach 140 Ktas 127 Ktas 114 Ktas 95 Ktas	1.43 Mach 0.90 Mach 0.90 Mach 0.80 Mach 140 Ktas 127 Ktas 114 Ktas 95 Ktas Max Climb Rate @ SL; MMW Dash Range @ 1.43 Mach Cruise Range @ 0.90 Mach Cruise Radius @ 0.90 Mach Ferry Range with External Tanks Takeoff, Ground Roll @ SL-TTW Landing, Ground Roll @ SL-TLW







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176 sq ft

15 ft 8 in