

STAVATTI[®] SM-28NT UJTS



TURBOFAN MACHETE

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Performance & Specifications

FLYAWAY COST: \$23 Million

AVAILABILITY: TBD

TYPE

Two Seat Advanced Trainer Aircraft (AT) and Undergraduate Jet Training System (UJTS)

ACCOMMODATION

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

POWERPLANT

One (1) General Electric Aircraft Engines Non-Afterburning F414 Derivative Turbofan Delivering 14,756 lb st.

STRUCTURE

Cantelever three spar semi-monocoque titanium foam metal sandwich wing, canard and empennage with modular four element semi-monocoque titanium and aluminum foam metal sandwich fuselage.

ARMAMENT

Internal Fixed Armament: None

External Armament: Eight Underwing Stores Pylons with 14-in Suspension for a Maximum Warload of 12,000 lbs.

DIMENSIONS

Wingspan	53 ft 0 in	Wing Area	354 sq ft
Length Overall	38 ft 6 in	Wheelbase	16 ft 2 in
Height Overall	12 ft 11 in	Wheeltrack	12 ft 1 in

WEIGHTS & CAPACITIES

Empty Weight	15,000 lbs
Maximum Internal Fuel (IF)	6,000 lbs
Max External Load/Warload	12,000 lbs
Typical Combat Weight (TCW)	24,451 lbs
Max Take-Off Weight (MTOW)	33,650 lbs

LOADINGS

Wing Loading @ TCW (lbs/sq ft)	69.0
Thrust-to-Weight @ TCW	0.60
Wing Loading @ MTOW (lbs/sq ft)	95.0
Thrust-to-Weight @ MTOW	0.44
Positive Load Limit @ MTOW	7.5

PERFORMANCE

Max Level Speed @ SL	0.90 Mach	Max Range, 0.90 M/FL 150, IF	498 nm
Max Level Speed @ 15,000 ft	0.90 Mach	Max Range, 0.90 M/FL 350, IF	1,108 nm
Max Level Speed @ 35,000 ft	0.90 Mach	Cruise Range, 0.85 M/FL 150, IF	680 nm
Max Cruise Speed @ 15,000 ft	0.85 Mach	Cruise Range, 0.85 M/FL 350, IF	1,461 nm
Max Cruise Speed @ 35,000 ft	0.85 Mach	Cruise Range, 0.80 M/FL 150, IF	781 nm
Typical Cruise @ 25,000 ft	0.80 Mach	Cruise Range, 0.80 M/FL 350, IF	1,624 nm
Typical Cruise @ 35,000 ft	0.80 Mach	Ferry Range with 2 x 150 USG Tanks	2,610 nm
Typical Approach Speed @ SL	88 KTAS	Takeoff Ground Roll, Takeoff Weight	1,475 ft
Typical Landing Stall Speed @ SL	74 KTAS	Landing Ground Roll, Landing Weight	1,806 ft
Max Initial Rate-of Climb @ SL	18,842 ft/min	Service Ceiling Exceeds	55,000 ft

