

STAVATTI[®] SM-28NT



TURBOFAN MACHETE

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Performance & Specifications

FLYAWAY COST: \$25 Million

AVAILABILITY: TBD

TYPE

Two Seat Close Air Support (CAS), Anti-Armor/Maritime Strike (AA/MS) and Advanced Trainer Aircraft (AT)

ACCOMMODATION

Flight Crew of Two Seated in Tandem on Martin Baker MK16E or 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

One Ventral Centerline Mounted General Dynamics Four Barrel GAU-13/A 30mm Gatling Cannon with 600 rds; Eight Underwing Stores Pylons with 14-in Suspension for a Maximum External 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	16,400 lbs
Maximum Internal Fuel (IF)	6,000 lbs
Max External Load/Warload	12,000 lbs
Typical Combat Weight (TCW)	26,800 lbs
Max Take-Off Weight (MTOW)	36,000 lbs

LOADINGS

Wing Loading @ TCW (lbs/sq ft)	75.7
Thrust-to-Weight @ TCW	0.55
Wing Loading @ MTOW (lbs/sq ft)	101.7
Thrust-to-Weight @ MTOW	0.41
Positive Load Limit @ MTOW	7.5

PERFORMANCE

Max Level Speed @ SL	0.90 Mach	Max Range, 0.90 M/FL 150, IF	487 nm
Max Level Speed @ 15,000 ft	0.90 Mach	Max Range, 0.90 M/FL 350, IF	1,067 nm
Max Level Speed @ 35,000 ft	0.90 Mach	Cruise Range, 0.85 M/FL 150, IF	662 nm
Max Cruise Speed @ 15,000 ft	0.85 Mach	Cruise Range, 0.85 M/FL 350, IF	1,394 nm
Max Cruise Speed @ 35,000 ft	0.85 Mach	Cruise Range, 0.80 M/FL 150, IF	760 nm
Typical Cruise @ 25,000 ft	0.80 Mach	Cruise Range, 0.80 M/FL 350, IF	1,537 nm
Typical Cruise @ 35,000 ft	0.80 Mach	Ferry Range with Max External Fuel	3,830 nm
Typical Approach Speed @ SL	94 KTAS	Takeoff Ground Roll, Takeoff Weight	1,765 ft
Typical Landing Stall Speed @ SL	79 KTAS	Landing Ground Roll, Landing Weight	2,063 ft
Max Initial Rate-of Climb @ SL	17,000 ft/min	Service Ceiling Exceeds	55,000 ft

