STAVATTI™

SM-28S

TURBOFAN MACHETE

STAVATTI AEROSPACE • PO Box 211258 Eagan, MN 55121 USA • TEL: (651) 238-5369 • email: machete@stavatti.com • http://www.stavatti.com

SM-28S TURBOFAN MACHETE

Performance & Specifications

FLYAWAY COST: $20 Million Basic Equipped **AVAILABILITY: TBD**

TYPE

Single Seat Close Air Support (CAS), Anti-Armor (AA) and Maritime Strike (MS) All Weather Attack Aircraft

ACCOMMODATION

Single Pilot Seated on a Martin Baker MKUS.16L Zero-Zero Ejection Seat

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 1,000 rds; Eight Underwing Stores Pylons with 14-in Suspension for a Maximum External Warload of 12,000 lbs.

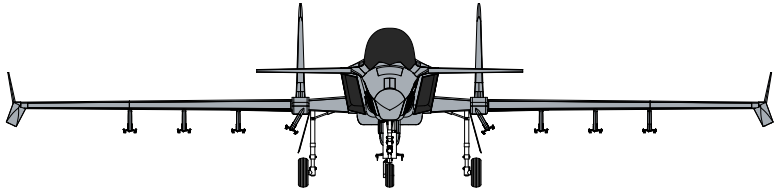
DIMENSIONS

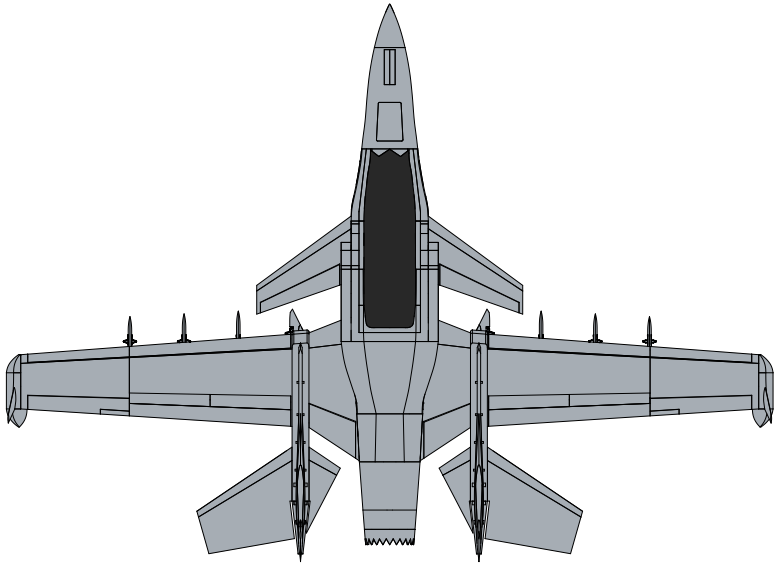
Wingspan	53 ft 0 in	Wing Area	354 sq ft
Length Overall	38 ft 6 in	Wheelbase	16 ft 2 in
Height Overall	12 ft 11 in	Wheeltrack	12 ft 1 in

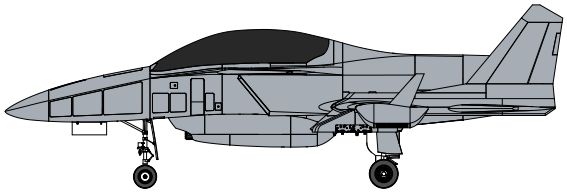
WEIGHTS & CAPACITIES		**LOADINGS**	
Empty Weight	16,000 lbs	Wing Loading @ TCW (lbs/sq ft)	75.7
Maximum Internal Fuel (IF)	6,000 lbs	Thrust-to-Weight @ TCW	0.55
Max External Load/Warload	12,000 lbs	Wing Loading @ MTOW (lbs/sq ft)	101.7
Typical Combat Weight (TCW)	26,800 lbs	Thrust-to-Weight @ MTOW	0.41
Max Take-Off Weight (MTOW)	36,000 lbs	Positive Load Limit @ MTOW	7.5

PERFORMANCE

Max Level Speed @ SL	0.90 Mach	Range, 0.90 M/FL 450, Internal Fuel	1,157 nm
Max Level Speed @ 15,000 ft	0.90 Mach	Radius, 0.90 M/FL 450, Internal Fuel	562 nm
Max Level Speed @ 35,000 ft	0.90 Mach	Range, 0.85 M/FL 450, Internal Fuel	1,362 nm
Max Cruise Speed @ 15,000 ft	0.85 Mach	Radius, 0.85 M/FL 450, Internal Fuel	662 nm
Max Cruise Speed @ 35,000 ft	0.85 Mach	Range, 0.80 M/FL 450, Internal Fuel	1,393 nm
Typical Cruise @ 25,000 ft	0.80 Mach	Radius, 0.80 M/FL 450, Internal Fuel	677 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







COPYRIGHT © 2017 STAVATTI AEROSPACE LTD