

STAVATTI[®] SM-27S



TURBOPROP MACHETE

SM-27S TURBOPROP MACHETE

Performance & Specifications

FLYAWAY COST: \$20 Million Basic Equipped

AVAILABILITY: TBD

TYPE

Single Seat Close Air Support (CAS), Attack and COunter-INSurgency (COIN) Aircraft

ACCOMMODATION

Single Pilot Seated on a Martin Baker MKUS.16L or MK18 Zero-Zero Ejection Seat

POWERPLANT

One (1) Pratt & Whitney Canada PW150 Derivative Turboprop derated to a maximum rating of 4,000 shp driving a 10 ft diameter, Contra-Rotating 8/6 Blade Scimitar Propeller.

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 8,000 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)	5,000 lbs
Max External Load/Warload	8,000 lbs
Typical Combat Weight (TCW)	25,300 lbs
Max Take-Off Weight (MTOW)	30,000 lbs

LOADINGS

Wing Loading @ TCW (lbs/sq ft)	71.4
Power Loading @ TCW (lbs/shp)	6.3
Wing Loading @ MTOW (lbs/sq ft)	84.2
Power Loading @ MTOW (lbs/shp)	7.5
Positive Load Limit @ MTOW	7.5

PERFORMANCE

Max Level Speed @ SL	350 KTAS	Max Climb Rate @ SL	4,275 ft/min
Max Level Speed @ FL150	407 KTAS	Service Ceiling	45,000 ft
Max Cruise Speed @ FL150	366 KTAS	Max Cruise Range @ FL150-IF	2,089 nm
Max Cruise Speed @ FL300	339 KTAS	Max Cruise Range @ FL300-IF	2,534 nm
Typical Cruise Speed @ FL150	329 KTAS	Typical Combat Radius @ FL150-IF	783 nm
Typical Cruise Speed @ FL250	307 KTAS	Typical Combat Radius @ FL250-IF	870 nm
Loiter Speed @ SL	166 KTAS	Ferry Range-External Tanks	3,803 nm
Typical Landing Stall Speed @ SL	76 KTAS	Endurance @ SL-Internal Fuel	>13 Hrs
Typical Approach Speed @ SL	84 KTAS	Takeoff over 50 ft, Takeoff Weight	1,995 ft
Typical Takeoff Speed @ SL	114 KTAS	Landing over 50 ft, Landing Weight	480 ft

