

STAVATTI™
SM-27T



Turboprop Machete

SM-27T Machete Turboprop

Performance & Specifications

FLYAWAY COST: \$12 Million to \$17 Million

AVAILABILITY: Anticipated 2013

TYPE

Two Seat Tandem Counter-Insurgency (COIN), Forward Air Control (FAC) and Advanced Trainer (AT)

ACCOMMODATION

Flight Crew of Two Seated on Tandem Martin Baker MKUS.16L Zero-Zero Ejection Seats

ARMAMENT

One Ventral Centerline Mounted General Dynamics Four Barrel GAU-13/A 30mm Gatling Cannon with 470 rds;
Eight Underwing Stores Pylons with 14-in Suspension For Maximum External Load of 6,500 lbs.

DIMENSIONS

Wingspan	50 ft 0 in	Wheelbase	14 ft 11 in
Length Overall	38 ft 0 in	Wheeltrack	10 ft 9 in
Height Overall	12 ft 9 in		
Wing Area	280 sq ft		

POWERPLANT

One (1) Pratt & Whitney Canada PW127G Turboprop rated at 2,920 shp driving a 10 ft diameter Contra-Rotating 8/6 Blade Scimitar Propeller.

WEIGHTS & CAPACITIES

Empty Weight	11,802 lbs
Maximum Internal Fuel	5,000 lbs
Max External Load/Warload	6,500 lbs
Clean Take-Off Weight (CTOW)	18,143 lbs
Typical Combat Weight (TCW)	19,393 lbs
Max Take-Off Weight (MTOW)	24,643 lbs

LOADINGS

Wing Loading @ TCW (lbs/sq ft)	69.3
Power Loading @ TCW (lbs/shp)	6.64
Wing Loading @ MTOW (lbs/sq ft)	88.1
Power Loading @ MTOW (lbs/shp)	8.44
Positive Load Limit @ MTOW	7.50
Negative Load Limit @ MTOW	3.75

PERFORMANCE

Max Level Speed @ SL	331 KTAS	Tactical Radius-Internal Fuel	750 nm
Max Level Speed @ 35,000 ft	360 KTAS	Ferry Range-External Tanks	3,700 nm
Max Cruise Speed @ 25,000 ft	330 KTAS	Max Cruise Range-Internal Fuel	1,400 nm
Max Cruise Speed @ 35,000 ft	330 KTAS	Max Cruise Range-External Tanks	2,800 nm
Typical Cruise Speed @ 25,000 ft	270 KTAS	Typical Cruise Range-Internal Fuel	1,600 nm
Typical Cruise Speed @ 35,000 ft	270 KTAS	Typical Cruise Range-External Tanks	3,100 nm
Loiter Speed @ SL	180 KTAS	Loiter Endurance @ SL-Internal Fuel	7.5 Hrs
Approach Speed, Landing Config.	102 KTAS	Service Ceiling	35,000 ft
Stall Speed, Landing Config.	93 KTAS	Take-Off Distance over 50 ft Obstacle	2,620 ft
Max Initial Rate-of Climb @ SL	4,100 ft/min	Landing Distance over 50 ft Obstacle	1,132 ft

