

STAVATTI™

**SM-27T**

**TURBOPROP  
MACHETE**



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# SM-27T TURBOPROP MACHETE

## Performance & Specifications

FLYAWAY COST: \$16 Million

AVAILABILITY: TBD

### TYPE

Two Seat Tandem Close Air Support (CAS), Attack, Counter-Insurgency (COIN) and Lead-In Trainer (LIT) Aircraft

### ACCOMMODATION

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

### 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

Cantilever 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 External Warload of 8,000 lbs with full internal fuel.

### 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                | 15,400 lbs | Wing Loading @ TCW (lbs/sq ft)  | 67.0 |
| Maximum Internal Fuel       | 5,000 lbs  | Power Loading @ TCW (lbs/shp)   | 5.9  |
| Max External Load/Warload   | 8,000 lbs  | Wing Loading @ MTOW (lbs/sq ft) | 84.7 |
| Typical Combat Weight (TCW) | 23,732 lbs | Power Loading @ MTOW (lbs/shp)  | 7.5  |
| Max Take-Off Weight (MTOW)  | 30,000 lbs | 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       |

