

STAVATTI™ SM-275



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 |

