SM-275 TURBOPROP MACHETE

FLYAWAY COST: $15 Million Basic Equipped

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

ACCOMMODATION
Single Pilot Seated on a Martin Baker MKUS.16L 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
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 Maximum External Warload of 8,000 lbs.

DIMENSIONS
- Wingspan: 53 ft 0 in
- Length Overall: 38 ft 6 in
- Height Overall: 12 ft 11 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

PERFORMANCE
- Max Level Speed @ SL: 350 KTAS
- Max Level Speed @ FL150: 407 KTAS
- Max Cruise Speed @ FL150: 366 KTAS
- Max Cruise Speed @ FL300: 339 KTAS
- Typical Cruise Speed @ FL150: 329 KTAS
- Typical Cruise Speed @ FL250: 307 KTAS
- Løiter Speed @ SL: 166 KTAS
- Typical Landing Stall Speed @ SL: 76 KTAS
- Typical Approach Speed @ SL: 84 KTAS
- Typical Takeoff Speed @ SL: 114 KTAS

LOADINGS
- Wing Area: 354 sq ft
- Wheelbase: 16 ft 2 in
- Wheeltrack: 12 ft 1 in
- Max Loading @ TCW (lbs/sq ft): 71.4
- Power Loading @ TCW (lbs/shp): 6.3
- Max Loading @ MTOW (lbs/sq ft): 84.2
- Power Loading @ MTOW (lbs/shp): 7.5
- Positive Load Limit @ MTOW: 7.5
- Max Climb Rate @ SL: 4,275 ft/min
- Service Ceiling: 45,000 ft
- Max Cruise Range @ FL150: 2,089 nm
- Max Cruise Range @ FL300: 2,534 nm
- Typical Cruise Range @ FL150: 783 nm
- Typical Cruise Range @ FL250: 870 nm
- Ferry Range-External Tanks: 3,803 nm
- Endurance @ SL: >13 Hrs
- Endurance @ SL-Internal Fuel: 1,995 ft
- Takeoff Weight: 1,995 ft
- Landing Weight: 480 ft

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