

# STAVATTI™ SM-28T



## TURBOFAN MACHETE

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## Performance & Specifications

FLYAWAY COST: \$20 Million

AVAILABILITY: TBD

### TYPE

Two Seat Close Air Support (CAS), Anti-Armor/Maritime Strike (AA/MS) and Advanced Trainer Aircraft (AT)

### ACCOMMODATION

Flight Crew of Two Seated in Tandem on Martin Baker MK16E or MK18 Zero-Zero Ejection Seats

### POWERPLANT

One (1) General Electric Aircraft Engines Non-Afterburning F414 Derivative Turbofan Delivering 14,756 lb st.

### 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 600 rds; Eight Underwing Stores Pylons with 14-in Suspension for a Maximum External Warload of 12,000 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                | 16,400 lbs |
| Maximum Internal Fuel (IF)  | 6,000 lbs  |
| Max External Load/Warload   | 12,000 lbs |
| Typical Combat Weight (TCW) | 26,800 lbs |
| Max Take-Off Weight (MTOW)  | 36,000 lbs |

### LOADINGS

|                                 |       |
|---------------------------------|-------|
| Wing Loading @ TCW (lbs/sq ft)  | 75.7  |
| Thrust-to-Weight @ TCW          | 0.55  |
| Wing Loading @ MTOW (lbs/sq ft) | 101.7 |
| Thrust-to-Weight @ MTOW         | 0.41  |
| Positive Load Limit @ MTOW      | 7.5   |

### PERFORMANCE

|                                  |               |                                     |           |
|----------------------------------|---------------|-------------------------------------|-----------|
| Max Level Speed @ SL             | 0.90 Mach     | Max Range, 0.90 M/FL 150, IF        | 487 nm    |
| Max Level Speed @ 15,000 ft      | 0.90 Mach     | Max Range, 0.90 M/FL 350, IF        | 1,067 nm  |
| Max Level Speed @ 35,000 ft      | 0.90 Mach     | Cruise Range, 0.85 M/FL 150, IF     | 662 nm    |
| Max Cruise Speed @ 15,000 ft     | 0.85 Mach     | Cruise Range, 0.85 M/FL 350, IF     | 1,394 nm  |
| Max Cruise Speed @ 35,000 ft     | 0.85 Mach     | Cruise Range, 0.80 M/FL 150, IF     | 760 nm    |
| Typical Cruise @ 25,000 ft       | 0.80 Mach     | Cruise Range, 0.80 M/FL 350, IF     | 1,537 nm  |
| Typical Cruise @ 35,000 ft       | 0.80 Mach     | Ferry Range with 2 x 150 USG Tanks  | 3,830 nm  |
| Typical Approach Speed @ SL      | 94 KTAS       | Takeoff Ground Roll, Takeoff Weight | 1,765 ft  |
| Typical Landing Stall Speed @ SL | 79 KTAS       | Landing Ground Roll, Landing Weight | 2,063 ft  |
| Max Initial Rate-of Climb @ SL   | 17,000 ft/min | Service Ceiling Exceeds             | 55,000 ft |

