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ADVANCED TRAINER

STAVATTI AEROSPACE • 9400 Porter Road, Niagara Falls, NY 14304 USA • TEL: (651) 238-5369 • email: machete@stavatti.com • http://www.stavatti.com

SM-47 T-X SUPER MACHETE

Performance & Specifications

FLYAWAY COST: \$25 Million Typical Flyaway

AVAILABILITY: TBD

TYPE

Advanced Pilot Trainer (APT/T-X) and Supersonic Trainer (ST)

ACCOMMODATION

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

POWERPLANT

One (1) General Electric Aircraft Engines F414 Enhanced Afterburning Turbofan delivering 26,600 lbs st with Afterburner and 16,232 lbs st at Military Power. The powerplant may be fitted with a thrust vectoring nozzle.

STRUCTURE

Semi-monocoque aluminum and titanium foam metal sandwich construction throughout with multiple sine-wave spars in the cantilever wings and empennage. Titanium metal ceramics (cermets) used in high temperature regions.

ARMAMENT

Fixed: None; Has provisions for one nose mounted M61A2 20mm gatling cannon with 1,000 rds Expendable: None; Has provisions for up to Eight external wing hardpoints for up to 12,000 lbs of external stores

DIMENSIONS

| Wingspan | 33 ft 4 in | Wing Area | 308 sq ft |
|----------------------|------------|------------|------------|
| Length Overall | 42 ft 0 in | Wheelbase | 16 ft 6 in |
| Height Overall | 12 ft 4 in | Wheeltrack | 12 ft 0 in |
| WEIGHTS & CAPACITIES | | LOADINGS | |

WEIGHTS & CAPACITIES

| Empty Weight | 14,900 lbs | Wing Loading @ MMW (lbs/sq ft) | 60.0 |
|----------------------------|------------|---------------------------------|------|
| Max Internal Fuel | 6,000 lbs | Thrust-to-Weight @ MMW | 1.44 |
| Max Warload | 0 lbs | Wing Loading @ MTOW (lbs/sq ft) | 69.8 |
| Mid Mission Weight (MMW) | 18,500 lbs | Thrust-to-Weight @ MTOW | 1.24 |
| Max Take-Off Weight (MTOW) | 21,500 lbs | Positive Load Limit @ MTOW | 15.0 |

PERFORMANCE

| Max Level Speed @ SL | 1.23 Mach | Max Speed Range, Internal Fuel | 189 nm |
|----------------------------------|---------------|--|-----------|
| Max Level Speed @ 15,000 ft | 1.60 Mach | Max Speed Radius, Internal Fuel | 85 nm |
| Max Level Speed @ 35,000 ft | 2.27 Mach | Supercruise Range, Internal Fuel | 864 nm |
| Max Supercruise @ 15,000 ft | 1.00 Mach | Supercruise Radius, Internal Fuel | 420 nm |
| Max Supercruise @ 35,000 ft | 1.00 Mach | 0.85 Mach Cruise Range, Internal Fuel | 1,359 nm |
| Typical Cruise @ 25,000 ft | 0.85 Mach | 0.85 Mach Cruise Radius, Internal Fuel | 661 nm |
| Typical Cruise @ 35,000 ft | 0.85 Mach | 0.85 Mach Ferry Range, 2 x 330 Tanks | 1,907 nm |
| Typical Approach Speed @ SL | 127 KTAS | Takeoff Ground Roll, Takeoff Weight | 962 ft |
| Typical Landing Stall Speed @ SL | 106 KTAS | Landing Ground Roll, Landing Weight | 1,829 ft |
| Max Initial Rate-of Climb @ SL | 47,700 ft/min | Service Ceiling Exceeds | 55,000 ft |



