SM-47 T-X
SUPER MACHETE

FLYAWAY COST: $20 Million Typical Flyaway

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

ACCOMMODATION
Flight Crew of Two Seated on Martin Baker MK16E 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
Length Overall 42 ft 0 in
Height Overall 12 ft 4 in

WEIGHTS & CAPACITIES
Empty Weight 14,900 lbs
Max Internal Fuel 6,000 lbs
Max Warload 0 lbs
Mid Mission Weight (MMW) 18,500 lbs
Max Take-Off Weight (MTOW) 21,500 lbs

LOADINGS
Wing Loading @ MMW (lbs/sq ft) 60.0
Wing Loading @ MTOW (lbs/sq ft) 69.8
Thrust-to-Weight @ MMW 1.44
Thrust-to-Weight @ MTOW 1.24
Positive Load Limit @ MMW 15.0

PERFORMANCE
Max Level Speed @ SL 1.23 Mach
Max Level Speed @ 15,000 ft 1.60 Mach
Max Level Speed @ 35,000 ft 2.27 Mach
Max Supercruise @ 15,000 ft 2.40 Mach
Max Supercruise @ 35,000 ft 1.00 Mach
Typical Cruise @ 25,000 ft 0.85 Mach
Typical Cruise @ 35,000 ft 0.85 Mach
Typical Approach Speed @ SL 127 KTAS
Typical Landing Stall Speed @ SL 106 KTAS
Max Initial Rate of Climb @ SL 47,700 ft/min
Max Level Speed Range, Internal Fuel 189 nm
Max Speed Radius, Internal Fuel 85 nm
Super cruise Range, Internal Fuel 864 nm
Super cruise Radius, Internal Fuel 420 nm
0.85 Mach Cruise Range, Internal Fuel 1,359 nm
0.85 Mach Cruise Radius, Internal Fuel 661 nm
0.85 Mach Ferry Range, 2 x 330 Tanks 1,907 nm
Takeoff Ground Roll, Takeoff Weight 962 ft
Landing Ground Roll, Landing Weight 1,829 ft
Landing Ceiling Exceeds 55,000 ft