

STAVATTI™
SM-47T



Advanced Pilot Trainer

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Performance & Specifications

FLYAWAY COST: \$23 Million to \$30 Million

AVAILABILITY: Anticipated 2014-2016

TYPE

Two Seat Advanced Pilot Trainer (APT) and Lightweight Multirole Fighter/Lead-In Fighter

ACCOMMODATION

Flight Crew of Two Seated on Tandem Martin Baker MK.16E Zero-Zero Ejection Seats

ARMAMENT

One Nose Mounted General Dynamics Six Barrel M61A2 20mm Gatling Cannon with 500 rds;
Nine Wing Stores Pylons with 14-in Suspension For Maximum External Load of 11,000 lbs.

DIMENSIONS

Wingspan	36 ft 0 in
Length Overall	40 ft 0 in
Height Overall	12 ft 9 in
Wing Area	310 sq ft

POWERPLANT

One (1) General Electric Aircraft Engines F414 EPE Afterburning Turbofan Delivering 26,600 lb st with Afterburner and 14,756 lb st at Maximum Military Power. The powerplant may be fitted with a thrust vectoring nozzle.

WEIGHTS & CAPACITIES

Empty Weight	15,178 lbs
Maximum Internal Fuel	7,250 lbs
Max External Load/Warload	11,000 lbs
Clean Take-Off Weight (CTOW)	23,586 lbs
Typical Combat Weight (TCW)	25,961 lbs
Max Take-Off Weight (MTOW)	34,586 lbs

LOADINGS

Wing Loading @ TCW (lbs/sq ft)	83.0
Thrust-to-Weight Ratio @ TCW	1.02
Wing Loading @ MTOW (lbs/sq ft)	111.6
Thrust-to-Weight Ratio @ MTOW	0.77
Positive Load Limit @ TCW	10.0
Negative Load Limit @ TCW	-5.0

PERFORMANCE

Max Level Speed @ SL	1.23 Mach	Tactical Radius-Internal Fuel	760 nm
Max Level Speed @ 35,000 ft	1.93 Mach	Tactical Radius-2 x150 USG Tanks	975 nm
Max Supercruise @ 35,000 ft	1.40 Mach	Max Level Speed Range-Internal Fuel	210 nm
Typical Cruise Speed @ 35,000 ft	0.85 Mach	Supercruise Range-Internal Fuel	670 nm
Max Level Speed @ 25,000 ft	1.82 Mach	Typical Cruise Range-Internal Fuel	1,520 nm
Max Supercruise @ 25,000 ft	1.40 Mach	Typical Cruise Range-2 x150 USG Tanks	2,200 nm
Typical Cruise Speed @ 25,000 ft	0.85 Mach	Ferry Range-2 x 330 USG Tanks	2,700 nm
Approach Speed, Landing Config.	130 KTAS	Service Ceiling Exceeds	60,000 ft
Stall Speed, Landing Config.	118 KTAS	Take-Off Distance over 50 ft Obstacle	1,170 ft
Max Initial Rate-of Climb @ SL	55,000 ft/min	Landing Distance over 50 ft Obstacle	1,860 ft

