SINVATION SILETTO



/DV/NCED PILOT TR/INER



Performance & Specifications

FLYAWAY COST: \$17 Million Typical Flyaway

AVAILABILITY: TBD

176 sq ft

15 ft 8 in

TYPE

Advanced Pilot Trainer (APT), Supersonic Trainer (ST) and Light Fighter (LF)

ACCOMMODATION

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

POWERPLANT

One (1) Motor Sich AI-322-30F Derivative Afterburning Turbofan delivering 11,023 lbs st with Afterburner and 6,613 lbs st at Military Power. The powerplant is fitted with variable geometry, thrust vectoring and reversing 2D nozzle.

STRUCTURE

Semi-monocoque aluminum lithium and aluminum honeycomb sandwich construction throughout. Titanium used in high fatigue areas and high temperature regions. Extensive use of Laser and Friction Stir Welding in all assemblies.

ARMAMENT

Fixed: One fuselage mounted M61A2 20mm gatling cannon with 500 rds Expendable: Internal Weapons Bay and six external wing hardpoints for up to 7,100 lbs of external stores

DIMENSIONS

Length Overall

Wingspan

Height Overall	9 ft 0 in	Wheeltrack	10 ft 8 in
WEIGHTS & CAPACITIES		LOADINGS	
Empty Weight Max Internal Fuel	8,500 lbs 3,800 lbs	Wing Loading @ MMW (lbs/sq ft) Thrust-to-Weight @ MMW	63.8 0.98
Max Payload	7,700 lbs	Wing Loading @ MTOW (lbs/sq ft)	113.6
Mid-Mission Weight (MMW)	11,236 lbs	Thrust-to-Weight @ MTOW	0.55
Max Take-Off Weight (MTOW)	20,000 lbs	Positive Load Limit @ MTOW	9.0

41 ft 8 in Wheelbase

Wing Area

PERFORMANCE

Service Ceiling Exceeds 57,000 ft Landing, BFL @ SL-TLW 2,128 ft	Max Cruise Speed @ FL350 Typical Cruise Speed @ SL Typical Cruise Speed @ FL350 Takeoff Speed; MTOW @ SL Stall Speed; MTOW @ SL Approach Speed; Landing Weight @ SL Stall Speed; Landing Weight @ SL	0.90 Mach 0.90 Mach 0.80 Mach 0.80 Mach 177 Ktas 161 Ktas 124 Ktas 104 Ktas	Max Climb Rate @ SL; MMW Dash Range @ 1.60 Mach Dash Radius @ 1.60 Mach Cruise Range @ 0.90 Mach Cruise Radius @ 0.90 Mach Ferry Range with External Tanks Takeoff, Ground Roll @ SL-TTW Takeoff, BFL @ SL-TTW Landing, Ground Roll @ SL-TLW	34,623 ft/min 205 nm 95 nm 1,491 nm 546 nm 2,307 nm 1,425 ft 2,125 ft 1,391 ft
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