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Powered by NI-322-30F



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Performance & Specifications

FLYAWAY COST: CONTACT STAVATTI AVAILABILITY: TBD

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 MK 18 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 fatique 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

Wingspan	24 ft 0 in	Wing Area	176 sq ft
Length Overall	41 ft 8 in	Wheelbase	15 ft 8 in
Height Overall	9 ft 0 in	Wheeltrack	10 ft 8 in

LOADINGS

WEIGHTS & CAPACITIES

Empty Weight		Wing Loading @ MMW (lbs/sq ft)	63.8
Max Internal Fuel	3,800 lbs	Thrust-to-Weight @ MMW	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

PERFORMANCE

Max Level Speed @ SL Max Level Speed @ FL350 Max Cruise Speed @ SL 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	1.23 Mach 1.60 Mach 0.90 Mach 0.90 Mach 0.80 Mach 177 Ktas 161 Ktas 124 Ktas 104 Ktas	Max Climb Rate @ SL; MTOW 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	18,998 ft/min 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
Stall Speed; Landing Weight @ SL Service Ceiling Exceeds	104 Ktas 57,000 ft	Landing, Ground Roll @ SL-TLW Landing, BFL @ SL-TLW	1,391 ft 2,128 ft
Service Celling Exceeds	57,000 11	Landing, BFL @ SL-1LW	2,12011







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