



Performance & Specifications

FLYAWAY COST: \$20 Million Typical Flyaway

AVAILABILITY: TBD

TYPE

Collaborative Combat Aircraft (CCA), Unpiloted Combat Aircraft (UCA), Loyal Wingman (LW) and Target Drone (TG)

ACCOMMODATION

Securely Remotely Piloted or Unpiloted Autonomous Aircraft benefiting from Stavatti Synthetic Intelligence

POWERPLANT

One (1) NeoThrust E450-NT-125 Afterburning Turbofan delivering 12,500 lbs st with Afterburner and 10,590 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 7,250 lbs of external stores

DIMENSIONS

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

WEIGHTS & CAPACITIES

Empty Weight	8,700 lbs	Wing Loading @ MMW (lbs/sq ft)	68.8
Max Internal Fuel	4,000 lbs	Thrust-to-Weight @ MMW	1.06
Max Payload	8,000 lbs	Wing Loading @ MTOW (lbs/sq ft)	119.3
Mid-Mission Weight (MMW)	11,750 lbs	Thrust-to-Weight @ MTOW	0.59
Max Take-Off Weight (MTOW)	21,000 lbs	Positive Load Limit @ MTOW	9.0

PERFORMANCE

Takeoff Speed; MTOW @ SL 182 Ktas Stall Speed; MTOW @ SL 165 Ktas Approach Speed; Landing Weight @ SL 121 Ktas Stall Speed; Landing Weight @ SL 105 Ktas Stall Speed; Landing Weight @ SL 105 Ktas Stall Speed; Landing Weight @ SL 105 Ktas	Stall Speed; MTOW @ SL Approach Speed; Landing Weight @ SL Stall Speed; Landing Weight @ SL	165 Ktas 121 Ktas 105 Ktas	Takeoff, Ground Roll @ SL-TTW Takeoff, BFL @ SL-TTW Landing, Ground Roll @ SL-TLW	21,544 ft/min 40,918 ft/min 391 nm 198 nm 1,280 nm 352 nm 1,983 nm 1,301 ft 2,216 ft 2,224 ft 3,347 ft
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