

STAVATTI[®] SM-920



SINGLE AISLE AIRLINER

SM-920 Commercial Airliner

Performance & Specifications

BASE FLYWAY COST: CONTACT STAVATTI

AVAILABILITY: TBD

TYPE

Next Generation Twin Engine Medium Range Single Aisle Narrowbody Commercial Airliner

FLIGHT CREW

Flight Crew: 2 Flight Attendants: 3 to 6

PASSENGER CONFIGURATIONS

204 Passengers in an All-Economy Class Arrangement with 32 in Seat Pitch
 187 Passengers in a Business/Economy Two Class Arrangement (20/156 Passengers)
 180 Passengers in a First/Economy Two Class Arrangement (12/156 Passengers)
 162 Passengers in a Premium-Economy Class Arrangement with 38 in Seat Pitch

POWERPLANTS

Two (2) NeoThrust E750-AFT-360 Turbofans Delivering 36,000 lbs st; Total Aircraft sl st of 72,000 lbs

STRUCTURE

Semi-monocoque aluminum lithium foam metal sandwich construction throughout with three titanium sine-wave spars in the cantilever wings and empennage. Titanium metal ceramics (cermets) used in high temperature regions.

EXTERIOR DIMENSIONS

Wingspan	124 ft 0 in
Length	150 ft 0 in
Height	43 ft 4 in
Wing Area	1,500 sq ft

INTERIOR DIMENSIONS

Cabin Length	118 ft 5 in
Cabin Width-Max	13 ft 8 in
Cabin Height-Max	7 ft 6 in
Cabin Floor Area	1,519 sq ft

WEIGHTS & CAPACITIES

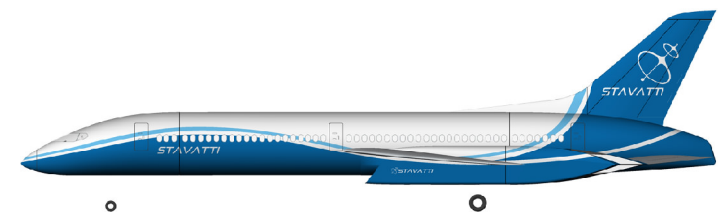
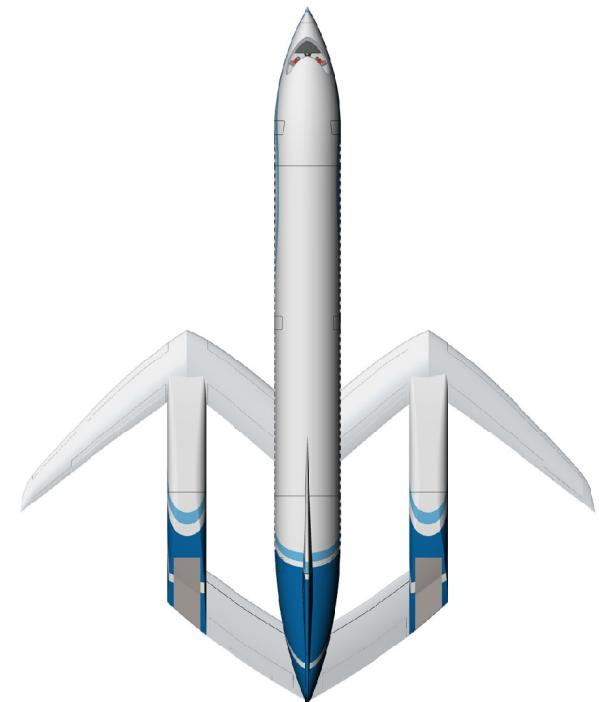
Empty Weight	97,000 lbs
Max Internal Fuel	48,000 lbs
Payload with Max Fuel	43,000 lbs
Useful Load	93,000 lbs
Max Take-Off Weight (MTOW)	190,000 lbs

LOADINGS

Wing Loading @ MTOW (lbs/sq ft)	127
Thrust-to-Weight @ MTOW (lbs/st)	0.38
Limit Load Factor @ MTOW	2.50
Ultimate Load Factor @ MTOW	3.75

PERFORMANCE*

Max Level Speed @ 35,000 ft	0.95 Mach	Stall Speed; Landing Configuration	105 KTAS
Typical Cruise Speed @ 35,000 ft	0.85 Mach	Max Initial Rate-of Climb @ SL	11,233 ft/min
Max Level Speed @ 40,000 ft	0.95 Mach	Range @ 0.85 Mach/35,000 ft	4,137 nm
Max Cruise Speed @ 40,000 ft	0.85 Mach	Range @ 0.90 Mach/40,000 ft	3,448 nm
Max Level Speed @ 45,000 ft	0.90 Mach	Range @ 0.90 Mach/45,000 ft	3,613 nm
Typical Cruise Speed @ 45,000 ft	0.87 Mach	Service Ceiling	45,000 ft
Takeoff Speed @ MTOW, SL	157 KTAS	Take-Off Distance over 50 ft Obstacle	5,379 ft
Approach Speed; Landing Weight	121 KTAS	Landing Distance over 50 ft Obstacle	2,198 ft



*Performance at MTOW with ISA Conditions unless specified. Ranges are with 45 min IFR reserves.