

STAVATTI *SM-940*



WIDEBODY AIRLINER

SM-940

Widebody Commercial Airliner

Performance & Specifications

BASE FLYWAY COST: \$300 Million

AVAILABILITY: Contact Stavatti

TYPE

Next Generation Twin Engine Widebody Commercial Airliner

FLIGHT CREW

Flight Crew: 2 Flight Attendants: 10 to 15

PASSENGER & PAYLOAD CONFIGURATIONS

430 Passengers in an All-Economy Class Arrangement with 32 in Seat Pitch
366 Passengers in a First/Business/Economy Three Class Arrangement (24/72/270 Passengers)
38 Standard LD-2 Containers in Lower Cargo Deck

POWERPLANTS

Two (2) Rolls Royce Trent XWB-97 Turbofans Delivering 97,000 lbs st; Total Aircraft sl st of 194,000 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 212 ft 0 in
Length 212 ft 0 in
Height 59 ft 5 in
Wing Area 3,780 sq ft

INTERIOR DIMENSIONS

Cabin Length 167 ft 0 in
Cabin Width-Max 19 ft 2 in
Cabin Height-Max 7 ft 6 in
Cabin Floor Area 3,098 sq ft

WEIGHTS & CAPACITIES

Empty Weight 264,000 lbs
Max Internal Fuel 250,000 lbs
Payload with Max Fuel 100,000 lbs
Useful Load 350,000 lbs
Max Take-Off Weight (MTOW) 620,000 lbs

LOADINGS

Wing Loading @ MTOW (lbs/sq ft) 164
Thrust-to-Weight @ MTOW (lbs/st) 0.31
Limit Load Factor @ MTOW 2.50
Ultimate Load Factor@ MTOW 3.75

PERFORMANCE*

Max Level Speed @ FL400	0.97 Mach	Max Initial Rate-of Climb @ SL	9,840 ft/min
Max Cruise Speed @ FL400	0.95 Mach	Service Ceiling	50,000 ft
Design Cruise Speed @ FL400	0.85 Mach	Range @ 0.85 Mach/FL400	8,570 nm
Max Level Speed @ FL350	0.95 Mach	Range @ 0.90 Mach/FL400	7,343 nm
Max Cruise Speed @ FL350	0.90 Mach	Range @ 0.95 Mach/FL400	6,048 nm
Design Cruise Speed @ FL350	0.85 Mach	Range @ 0.97 Mach/FL400	5,760 nm
Takeoff Speed; MTOW, SL	176 KTAS	Ferry Range @ 0.85 Mach/FL400	9,627 nm
Approach Speed; TLW, SL	123 KTAS	Take-Off Distance over 50 ft Obstacle	7,288 ft
Stall Speed; TLW, SL	107 KTAS	Landing Distance over 50 ft Obstacle	2,212 ft

