

# ***STAVATTI™***

# ***SM-74***



***Stavatti Regional Airliner (SRA)***

STAVATTI AEROSPACE • 530 Airport Road, South St. Paul, MN 55075 USA • TEL: (651) 238-5369 • FAX: (651) 905-0504 • <http://www.stavatti.com>

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# SM-74 Twin Engine Turboprop Regional Airliner

CERTIFICATION STANDARD: FAR 25 Normal & Utility (Anticipated 2014)

# PERFORMANCE & SPECIFICATIONS

## POWERPLANT

Number	Twin Engine
Manufacturer	Motor Sich/ZMDB Progresss
Model	D-27 Turboprop
Max Power	2 x 14,500 SHP @ 1,000 RPM
Prop	Hamilton Standard 8-Blade Scimitar
Prop Diameter	17 ft 6 in

## EXTERNAL DIMENSIONS & AREAS

Length	132 ft 6 in
Span	148 ft 0 in
Height	39 ft 9 in
Reference Wing Area	2,470 sq ft
Wing Aspect Ratio	8.87

## INTERNAL DIMENSIONS & VOLUMES

Cabin Max Length	74 ft 0 in
Cabin Max Width	15 ft 6 in
Cabin Max Height	8 ft 0 in
Cabin Useful Floor Area	895 sq ft
Cabin Volume	6,688 cu ft

## ACCOMMODATION

Flight Crew	2
Flight Attendants	2
Passengers, First Class Configuration	114
Passengers, Coach Class Configuration	150
Cabin Baggage Capacity	443 cu ft
Cargo Hold Volume	1,375 cu ft
Total Baggage/Cargo Capacity	1,818 cu ft

## WEIGHTS & CAPACITIES

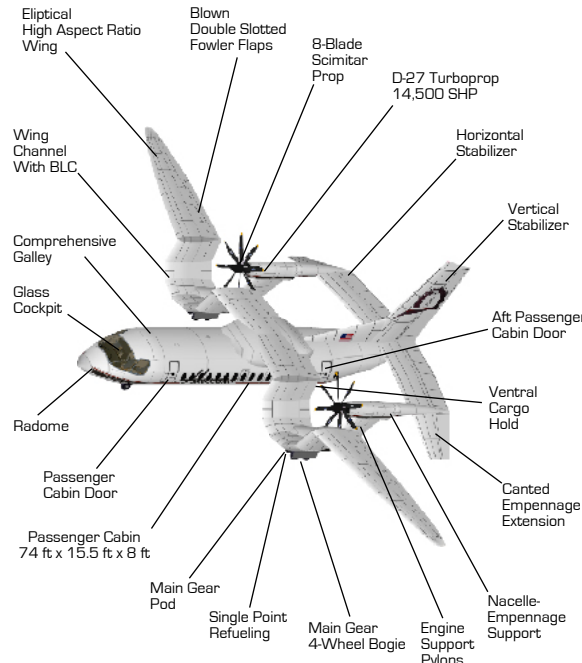
Dry Empty Weight	105,121 lbs
Aircraft Operating Weight	107,641 lbs
Standard Internal Fuel	30,902 lbs
Maximum Payload	38,530 lbs
Maximum Take-Off Weight (MTOW)	176,651 lbs

## LOADINGS

Wing Loading (lbs/sq ft)	71.52
Power Loading (lbs/SHP)	6.09
Design Load Factor-MTOW	+4.5/-2.0

## PERFORMANCE

Max Level Speed @ SL	395 KTAS
Max Level Speed @ 15,000 ft	405 KTAS
Max Level Speed @ 25,000 ft	395 KTAS
Econo Cruise Speed @ 15,000 ft	345 KTAS
Best Loiter Speed @ 5,000 ft	200 KTAS
Stall Speed Flapped @ SL-MTOW	80 KTAS
Approach Speed Flapped @ SL-MTOW	95 KTAS
Stall Speed Clean @ SL-MTOW	130 KTAS
Max Climb Rate @ SL-MTOW	3,900 ft/min
Service Ceiling Exceeds	36,000 ft
Max Cruise Speed Range @ 15,000 ft	1,350 nm
Econo Cruise Speed Range @ 15,000 ft	2,035 nm
Max Endurance	7.1 Hours
Takeoff Distance-MTOW	1,000 ft
Landing Distance-MTOW	1,100 ft



SM-74 CABIN CROSS SECTION

