

**STAVATTI™**

# **SM-73 RIGEL**



***Maritime Multi-mission Aircraft/  
Anti-Submarine Warfare (MMA/ASW)***

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# SM-73 Maritime Multi-mission Aircraft/Anti-Submarine Warfare (MMA/ASW)

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

# PERFORMANCE & SPECIFICATIONS

## POWERPLANT

Number	Twin Engine
Manufacturer	Motor Sich/ZMDB Progress
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

## ASW SENSORS, AVIONICS & ECM/EW

- Raytheon AN/ASQ-208 digital MAD
- Cubic AN/ARS-5 with Integrated SRS Sonobuoy
- Hazeltine AN/ARR-78(V) Communications Link
- Raytheon AN/APS-137(V) ISAR
- AN/UYS-2 Proteus
- BAE Systems/Tracor AN/ALE-47 dispensers

## ACCOMMODATION

Flight Crew	4
Operations Personnel	6
Total Accommodation	10

## ARMAMENT

Max Weapons Load	25,000 lbs
Internal Weapons Bay Length	20 ft 0 in
Internal Weapons Bay Width	10 ft 0 in
Internal Weapons Bay Height	10 ft 0 in
Number of External Hardpoints	8
Ventral Sonobuoy Launch Tubes	64

## WEIGHTS & CAPACITIES

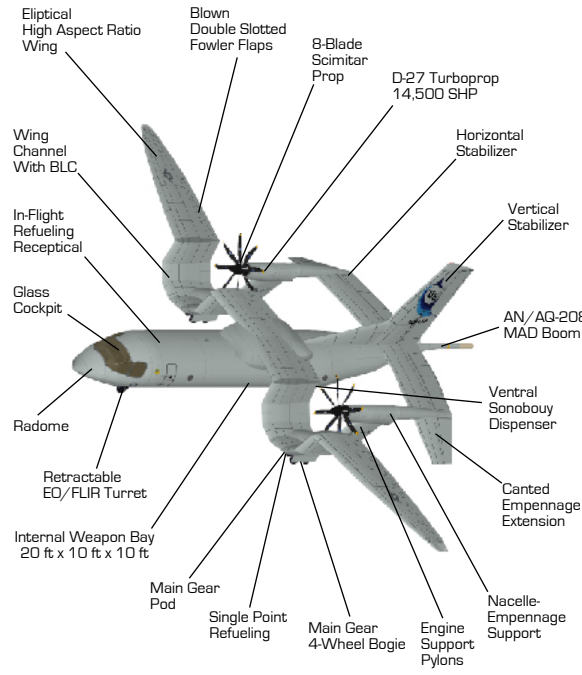
Dry Empty Weight	114,268 lbs
Aircraft Operating Weight	117,508 lbs
Standard Internal Fuel	70,000 lbs
Maximum Warload	25,000 lbs
Maximum Take-Off Weight (MTOW)	212,508 lbs

## LOADINGS

Wing Loading (lbs/sq ft)	86.0
Power Loading (lbs/SHP)	7.33
Design Load Factor-MTOW	+4.5/-2.0

## PERFORMANCE

Max Level Speed @ SL	390 KTAS
Max Level Speed @ 15,000 ft	400 KTAS
Econo Cruise Speed @ 15,000 ft	343 KTAS
Patrol Speed @ 5,000 ft	200 KTAS
Stall Speed Flapped @ SL-MTOW	80 KTAS
Stall Speed Clean @ SL-MTOW	130 KTAS
Max Climb Rate @ SL-MTOW	3,000 ft/min
Service Ceiling Exceeds	30,000 ft
Max Endurance, Internal Fuel	16.25 Hours
Max Cruise Range, Internal Fuel	4,600 nm
Ferry Range, External Fuel-MTOW	6,250 nm
Takeoff Distance-MTOW	1,100 ft
Landing Distance-MTOW	1,180 ft



SM-73 WEAPON BAY CROSS SECTION

