



Specifications & Performance Data for the SUPER 700 AEROSTAR and SUPERSTAR 700

CRUISING SPEEDS*	(ktas / kph)
Full power	285 / 527
75% power	261 / 483
65% power	245 / 453
55% power	225 / 416

**All Speeds are at Mid-Cruise Weight*

ENGINE

Manufacturer	Lycoming
Model	TIO-540-U2A, IO-540- S1A5(MM)*, or IO-540- AA1A5(MM)*
Rating (hp @ rpm)	350 @ 2500
Number of Cylinders	6
Recommended TBO (hrs.)	1800

**Machen Modified Engine Used on Superstar 700*

PROPELLERS

Manufacturer	Hartzell
Number of Blades	3
Type	Constant Speed, Full Feathering
Diameter (in. /cm.)	72/183

WEIGHTS

	(lb / kg)
Max. Takeoff Weight Optional 702	6850 / 3114
Max. Takeoff Weight 700	6315 / 2864
Max. Landing Weight 702P	6508 / 2722
Max. Landing Weight 700	6000 / 2722
Average Empty Weight*	4650 / 2112
Average Useful Load 702P	2200 / 1000
Average Useful Load 700	1665 / 757

**Includes Unusable Fuel, Full Oil, and Full Operating Fluids*

EXTERIOR DIMENSIONS

	(ft / m)
Wing Span	36.7 / 11.2
Wing Span with blended Winglets	37.6 / 11.5
Length	34.8 / 10.6
Height	13.2 / 4.1
Wheel Tread	10.2 / 3.1
Wheel Base	11.7 / 3.6

CABIN DIMENSIONS

	(in / cm)
Length	141.5 / 359
Width	45.5 / 115
Height	46.5 / 118
Headroom (Seat to Ceiling)	
Front Seat	35.0 / 88

Middle Seats	33.5 / 85
Rear Seat	33.5 / 85
Baggage Door	22 x 24 / 55 x 60
Cabin Door	28 x 45 / 71 x 114

BAGGAGE

Volume (cubic ft / m)	30 / .85
Capacity (lb / kg)	240 / 108.9
Vol. w/Aux. Fuel (cubic ft / m)	20 / .57

FUEL & OIL CAPACITY

Usable Fuel w/Std Tanks (gal/l)	165.5 / 626.5
Usable Fuel w/Aux. Fuel (gal/l)	210.5 / 796.7
Oil (qt/l)	12 / 11.4

RATE OF CLIMB*

	(fpm / mpm)
Two Engine	1875 / 572
Single Engine	383 / 117

**At Sea Level and Gross Weight*

STALL SPEEDS

	(ktcs / kph)
Flaps Down Full 45°	73 / 136
Flaps Up	81 / 151

CRUISE RANGE*

	(nm / km)
75% power	958 / 1775
65% power	1000 / 1852
55% power	1100 / 2038

**For 210.5 Gallons Usable (796.7 Liters). Includes Allowance for Fuel Used During Start, Taxi, Takeoff, Climb, Descent, and a 45 Minute Reserve at Economy Fuel Mixture*

TAKEOFF DISTANCE*

	(ft / m)
Ground Run	1950 / 595
Total Distance over 50 ft Obstacle	3080 / 940

**Sea Level, Zero Wind, Standard Temperature, Gross Weight*

SERVICE CEILING*

	(ft / m)
Two Engines (100 fpm)	30,000+ /
Single Engine (50 fpm)	9,000+ 16,000 / 4,877

**6000 lb, Standard Temperature*

PRESSURIZATION

Standard	4.25
Optional	5.50

LANDING DISTANCE*

	(ft / m)
Ground Roll	1440 / 439
Total Distance over 50 ft. Obstacle	2140 / 652

ALL PERFORMANCE NUMBERS ARE FOR COMPARISON-ALWAYS CONSULT FLIGHT MANUAL FOR SPECIFIC AIRCRAFT MODEL

**Sea Level, Zero Wind, Standard Temperature*