

550

AVGAS ENGINE SERIES

The 550 series includes 550 in³ models in either naturally aspirated or turbocharged configurations. With the right combination of thrust and efficiency, our 550-series engines are powering some of the most successful and high performing aircraft in general aviation history like the Cirrus[®] SR22T and Beechcraft[®] Baron/Bonanza, and Mooney[®]. With a powerful range of 280 to 350 HP at 2500 to 2700 RPM, you'll be glad you fly a 550.



THE 550 SERIES IS A FAMILY OF AIR COOLED, NATURALLY ASPIRATED, HORIZONTALLY OPPOSED, 6-CYLINDER, GASOLINE, FUEL INJECTED, SPARK IGNITION, FOUR-STROKE, DIRECT DRIVE, RIGHT (CW) ROTATING, AIRCRAFT ENGINE WITH MANUAL ENGINE CONTROLS FOR FIXED WING AIRCRAFT. THE TURBO SERIES IS TURBOCHARGED FOR FIXED WING AIRCRAFT.

CERTIFIED FUELS:
100/100LL & 94UL
AvGas (TSIO-550-K only)

DISPLACEMENT:
9046 cm³
552 in³

POWER:
209 to 261 kW
280 to 350 HP

MAXIMUM RATED RPM:
2500 to 2700 r/min
2500 to 2700 rpm

BORE:
133.35 mm
5.25 in

STROKE:
107.95 mm
4.25 in

COMPRESSION (COMP.) RATIO:
7.5:1
8.5:1

HEIGHT:
501.7 to 933.2 mm
19.75 to 36.74 in

WIDTH:
852.4 to 1076.7 mm
33.56 to 42.39 in

LENGTH:
933.2 to 1215.6 mm
36.74 to 47.86 in

TYPICAL WEIGHT:
207 to 317 kg
456 to 699 lbs

TIME BETWEEN OVERHAUL (TBO):
1800 - 2200 hours

TURBO MODEL AVAILABILITY:
Yes

550 AVGAS SERIES DETAILS



MODEL	# CYL	RATED POWER ¹	BORE × STROKE	DISPLACEMENT	DRY WEIGHT ²	CERTIFIED FUEL GRADE	COMP. RATIO	TIME BETWEEN OVERHAUL (TBO)	FAA TCDS
IO-550-A	6	224 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	206.8 kg	100/ 100LL	8.5:1	1900 hours or 12 years	E3SO
		300 HP @ 2700	5.25 x 4.25 in	552 in ³	455.9 lbs				
IO-550-B	6	224 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	219.8 kg	100/100LL	8.5:1	1900 hours or 12 years	E3SO
		300 HP @ 2700	5.25 x 4.25 in	552 in ³	484.5 lbs				
IO-550-C	6	224 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	224 kg	100/100LL	8.5:1	1900 hours or 12 years	E3SO
		300 HP @ 2700	5.25 x 4.25 in	552 in ³	493.9 lbs				
IO-550-D	6	224 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	209.4 kg	100/100LL	8.5:1	1900 hours or 12 years	E3SO
		300 HP @ 2700	5.25 x 4.25 in	552 in ³	461.7 lbs				
IO-550-E	6	224 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	213.6 kg	100/100LL	8.5:1	1900 hours or 12 years	E3SO
		300 HP @ 2700	5.25 x 4.25 in	552 in ³	470.9 lbs				
IO-550-G	6	209 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	231 kg	100/100LL	8.5:1	2200 hours or 12 years	E3SO
		280 HP @ 2700	5.25 x 4.25 in	552 in ³	509.2 lbs				
IO-550-F, L	6	224 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	211.8 kg	100/100LL	8.5:1	1900 hours or 12 years	E3SO
		300 HP @ 2700	5.25 x 4.25 in	552 in ³	466.9 lbs				
IO-550-N, P, R	6	231 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	222.7 kg	100/100LL	8.5:1	2200 hours or 12 years	E3SO
		310 HP @ 2700	5.25 x 4.25 in	552 in ³	490.9 lbs				

TURBO 550 AVGAS SERIES DETAILS

MODEL	# CYL	RATED POWER ¹	BORE × STROKE	DISPLACEMENT	DRY WEIGHT ²	CERTIFIED FUEL GRADE	COMP. RATIO	TIME BETWEEN OVERHAUL (TBO)	FAA TCDS
TSIO-550-B	6	261 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	317 kg	100/ 100LL	7.5:1	1800 hours or 12 years	E5SO
		350 HP @ 2700	5.25 x 4.25 in	552 in ³	669 lbs				
TSIO-550-C	6	231 kW @ 2600	133.35 x 107.95 mm	9046 cm ³	301.8 kg	100/100LL	7.5:1	2200 hours or 12 years	E5SO
		310 HP @ 2600	5.25 x 4.25 in	552 in ³	665.4 lbs				
TSIO-550-E	6	261 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	307 kg	100/100LL	7.5:1	1800 hours or 12 years	E5SO
		350 HP @ 2700	5.25 x 4.25 in	552 in ³	676.9 lbs				
TSIO-550-G	6	231 kW @ 2700	133.35 x 107.95 mm	9046 cm ³	251.3 kg	100/100LL	7.5:1	2200 hours or 12 years	E5SO
		310 HP @ 2700	5.25 x 4.25 in	552 in ³	554 lbs				
TSIO-550-K	6	235 kW @ 2500	133.35 x 107.95 mm	9046 cm ³	285 kg	100/100LL UL94	7.5:1	2200 hours or 12 years	E5SO
		315 HP @ 2500	5.25 x 4.25 in	552 in ³	628.4 lbs				
TSIO-550-N	6	235 kW @ 2500	133.35 x 107.95 mm	9046 cm ³	278.3 kg	100/100LL	7.5:1	2200 hours or 12 years	E5SO
		315 HP @ 2500	5.25 x 4.25 in	552 in ³	613.7 lbs				

1. Engine rated power at sea level standard day inlet conditions (29.92 in Hg, 59°F, 0 water vapor) with maximum allowable cylinder head and oil temperatures with full rich (maximum) fuel flow.

2. Typical engine weight including all accessories.