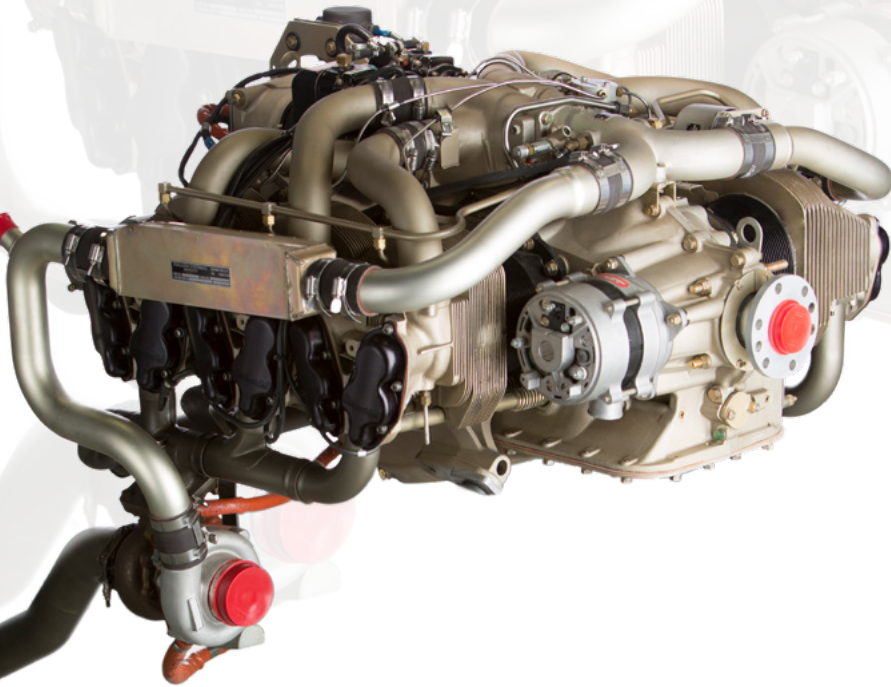


550

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 320 kg
456 to 706 lbs

TIME BETWEEN OVERHAUL (TBO):
1900 - 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 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 | 1900 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.