

520

AVGAS ENGINE SERIES



Continental® introduced the first 520 series engine to the world in the Beechcraft® Bonanza and the Cessna® Centurion in 1964. The 520 series includes 520 in³ models in either naturally aspirated or turbocharged configurations. With the right combination of thrust and efficiency, our 520-series engines have powered some of the most successful aircraft in general aviation history and continues to deliver reliability and value to its owners.

THE 520 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.

CERTIFIED FUELS:
100/100LL AvGas

DISPLACEMENT:
8514 cm³
520 in³

POWER:
186 to 280 kW
250 to 375 HP

MAXIMUM RATED RPM:
2600 to 3400 r/min
2600 to 3400 rpm

BORE:
133.35 mm
5.25 in

STROKE:
101.6 mm
4.00 in

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

HEIGHT:
477 to 1030.22 mm
18.78 to 40.56 in

WIDTH:
845.57 to 1079.5 mm
33.29 to 42.5 in

LENGTH:
933.2 to 1616.2 mm
36.74 to 63.63 in

DRY WEIGHT:
184.2 to 259.4 kg
406.1 to 571.9 lbs

TIME BETWEEN OVERHAUL (TBO):
1400 to 2200 hours

520 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-520-A	6	213 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	208.9 kg	100/100LL	8.5:1	1900 hours or 12 years	E5CE
		285 HP @ 2700	5.25 × 4.00 in	520 in ³	460.5 lbs				
IO-520-BB	6	213 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	209.9 kg	100/100LL	8.5:1	1900 hours or 12 years	E5CE
		285 HP @ 2700	5.25 × 4.00 in	520 in ³	462.7 lbs				
IO-520-CB, F	6	213 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	206 kg	100/100LL	8.5:1	1900 hours or 12 years	E5CE
		285 HP @ 2700	5.25 × 4.00 in	520 in ³	454 lbs				
IO-520-D	6	213 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	207.5 kg	100/100LL	8.5:1	1900 hours or 12 years	E5CE
		285 HP @ 2700	5.25 × 4.00 in	520 in ³	457.4 lbs				
IO-520-E	6	213 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	212 kg	100/100LL	8.5:1	1900 hours or 12 years	E5CE
		285 HP @ 2700	5.25 × 4.00 in	520 in ³	467.3 lbs				
IO-520-J, L	6	213 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	207 kg	100/100LL	8.5:1	1900 hours or 12 years	E5CE
		285 HP @ 2700	5.25 × 4.00 in	520 in ³	457 lbs				
IO-520-MB	6	213 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	205.4 kg	100/100LL	8.5:1	1900 hours or 12 years	E5CE
		285 HP @ 2700	5.25 × 4.00 in	520 in ³	452.8 lbs				
L/TSIO-520-AE	6	186 kW @ 2400	133.35 × 101.6 mm	8514 cm ³	184 kg	100/100LL	8.5:1	2200 hours or 12 years	E8CE
		250 HP @ 2400	5.25 × 4.00 in	520 in ³	406 lbs				
TSIO-520-AF	6	213 kW @ 2600	133.35 × 101.6 mm	8514 cm ³	243.8 kg	100/100LL	7.5:1	1800 hours or 12 years	E8CE
		285 HP @ 2600	5.25 × 4.00 in	520 in ³	537.6 lbs				
TSIO-520-BB	6	213 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	213.8 kg	100/100LL	7.5:1	1600 hours or 12 years	E8CE
		285 HP @ 2700	5.25 × 4.00 in	520 in ³	471.3 lbs				
TSIO-520-BE	6	231 kW @ 2600	133.35 × 101.6 mm	8514 cm ³	251.8 kg	100/100LL	7.5:1	2200 hours or 12 years	E8CE
		310 HP @ 2600	5.25 × 4.00 in	520 in ³	555.1 lbs				
TSIO-520-C	6	198 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	217.3 kg	100/100LL	7.5:1	1600 hours or 12 years	E8CE
		265 HP @ 2700	5.25 × 4.00 in	520 in ³	479 lbs				
TSIO-520-CE	6	242 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	238 kg	100/100LL	7.5:1	1800 hours or 12 years	E8CE
		325 HP @ 2700	5.25 × 4.00 in	520 in ³	524.8 lbs				
TSIO-520-E	6	224 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	215.6 kg	100/100LL	7.5:1	1400 hours or 12 years	E8CE
		300 HP @ 2700	5.25 × 4.00 in	520 in ³	475.4 lbs				
TSIO-520-EB	6	224 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	214.9 kg	100/100LL	7.5:1	1600 hours or 12 years	E8CE
		300 HP @ 2700	5.25 × 4.00 in	520 in ³	473.9 lbs				
TSIO-520-G	6	213 kW @ 2600	133.35 × 101.6 mm	8514 cm ³	204.9 kg	100/100LL	7.5:1	1600 hours or 12 years	E8CE
		285 HP @ 2600	5.25 × 4.00 in	520 in ³	451.7 lbs				
TSIO-520-H	6	198 kW @ 2700	133.4 × 101.6 mm	8514 cm ³	207.5 kg	100/100LL	7.5:1	1600 hours or 12 years	E8CE
		265 HP @ 2700	5.25 × 4.00 in	520 in ³	457.6 lbs				
TSIO-520-M, P, R	6	213 kW @ 2600	133.35 × 101.6 mm	8514 cm ³	209.2 kg	100/100LL	7.5:1	1600 hours or 12 years	E8CE
		285 HP @ 2600	5.25 × 4.00 in	520 in ³	461.1 lbs				
TSIO-520-NB	6	231 kW @ 2700	133.4 × 101.6 mm	8514 cm ³	223 kg	100/100LL	7.5:1	1800 hours or 12 years	E8CE
		310 HP @ 2700	5.25 × 4.00 in	520 in ³	491.6 lbs				
TSIO-520-T	6	231 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	226 kg	100/100LL	7.5:1	1600 hours or 12 years	E8CE
		310 HP @ 2700	5.25 × 4.00 in	520 in ³	498.2 lbs				
TSIO-520-UB	6	224 kW @ 2700	133.4 × 101.6 mm	8514 cm ³	236.3 kg	100/100LL	7.5:1	1800 hours or 12 years	E8CE
		300 HP @ 2700	5.25 × 4.00 in	520 in ³	521.6 lbs				
TSIO-520-VB	6	242 kW @ 2700	133.35 × 101.6 mm	8514 cm ³	220.7 kg	100/100LL	7.5:1	1800 hours or 12 years	E8CE
		325 HP @ 2700	5.25 × 4.00 in	520 in ³	486.6 lbs				
TSIO-520-WB	6	242 kW @ 2700	133.4 × 101.6 mm	8514 cm ³	253.7 kg	100/100LL	7.5:1	1800 hours or 12 years	E8CE
		325 HP @ 2700	5.25 × 4.00 in	520 in ³	559.2 lbs				
GTSIO-520-H	6	280 kW @ 3400	133.35 × 101.6 mm	8514 cm ³	247.5 kg	100/100LL	7.5:1	1600 hours or 12 years	E7CE
		375 HP @ 3400	5.25 × 4.00 in	520 in ³	545.7 lbs				
GTSIO-520-L	6	280 kW @ 3350	133.35 × 101.6 mm	8514 cm ³	259.4 kg	100/100LL	7.5:1	1600 hours or 12 years	E7CE
		375 HP @ 3350	5.25 × 4.00 in	520 in ³	571.9 lbs				
GTSIO-520-M	6	280 kW @ 3350	133.35 × 101.6 mm	8514 cm ³	255.3 kg	100/100LL	7.5:1	1600 hours or 12 years	E7CE
		375 HP @ 3350	5.25 × 4.00 in	520 in ³	562.9 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.