



520

AVGAS

ENGINE SERIES

Continental® introduced the first 520 series engine to the world in the Beechcraft® Bonanza and the Cessna® Centurion. 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 they continue to deliver reliability and value to their owners.

POWER:

186 to 280 kW
(250 to 375 HP)

MAX RATED RPM:

2400 to 3400 rpm

BORE × STROKE:

133.35mm × 101.6mm
(5.25 in × 4.00 in)

DISPLACEMENT:

8514 cm³
(520 in³)

COMPRESSION RATIO:

7.5:1 or 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 281.0 kg
(406.1 to 619.4 lbs)

CERTIFIED FUELS:

100/100LL Avgas

TIME BETWEEN OVERHAUL (TBO):

1400 to 2200 hrs or 12 yrs

520 AVGAS SERIES DETAILS

MODEL	# CYL	RATED POWER ¹	BORE × STROKE	DISPLACEMENT	WEIGHT ²	FUEL GRADES	COMP. RATIO	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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	184.2 kg	100/100LL	8.5:1	2200 hrs or 12 yrs	E8CE
		250 HP @ 2400	5.25 × 4.00 in	520 in ³	406.1 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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	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 hrs or 12 yrs	E7CE
		375 HP @ 3350	5.25 × 4.00 in	520 in ³	562.9 lbs				
GTSIO-520-S	6	280 kW @ 3350	133.35 × 101.6 mm	8514 cm ³	281.0 kg	100/100LL	7.5:1	1600 hrs or 12 yrs	E7CE
		375 HP @ 3350	5.25 × 4.00 in	520 in ³	619.4 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 dry weight including all accessories.