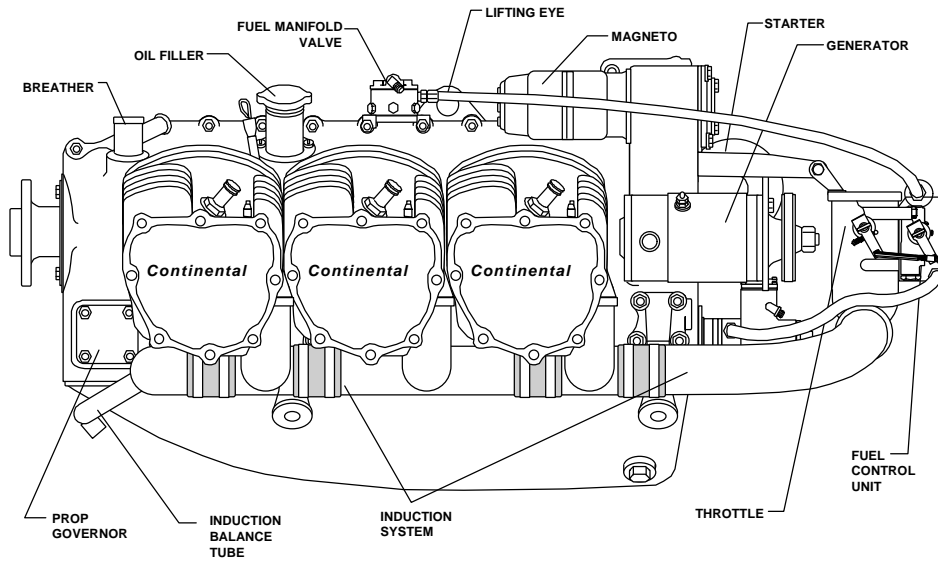


IO-470-L

Type Certificate 3E1



The IO-470-L model is a six cylinder fuel injected engine that produces 260 brake horsepower and has a crankshaft speed of 2625 RPM. The engine has horizontally opposed air cooled cylinders. The engine cylinders have an overhead inclined valve design. The cylinders have updraft intake inlets and downdraft exhaust outlets mounted on the bottom of the cylinder head.

The IO-470-L engine has a 471 cubic inch displacement achieved by using a cylinder design with a 5.00 inch diameter bore and a 4.00 inch stroke. The dry weight of the engine is 411.28 lbs. without accessories. The average weight of the engine with installed accessories is approximately 465 lbs.

OVERALL ENGINE DIMENSIONS INCHES	
HEIGHT	19.75
WIDTH	33.56
LENGTH	43.17

ENGINE SPECIFICATIONSIO-470-L

Cylinders

Arrangement Horizontally Opposed
 Number of Cylinders 6
 Compression Ratio 8.6:1
 Firing Order 1-6-3-2-5-4
 Bore (Inches) 5.00
 Stroke (Inches) 4.00
 Piston Displacement (cu. in.) 471

Brake Horsepower

Rated Maximum Continuous Operation 260 BHP @ 2625 RPM
 Recommended Cruise 195 BHP @ 2450 RPM

OPERATING LIMITS

Crankshaft Speed - RPM

Rated Maximum Continuous Operation 2625
 Recommended Idle 600

Manifold Pressure Limit (In. Hg.) Absolute Full Throttle

Fuel Control System TCM Fuel Injection

Fuel 100/100LL

Oil

TEMPERATURE	AVIATION GRADE	SAE GRADE	MULTI-VISCOSITY
BELOW 40	65	30	10W-30 / 15W-50 / 20W-50
ABOVE 40	100	50	15W-50 / 20W-50 / 20W-60

Oil Pressure

Idle, Minimum, psi 10
 Normal Operation, psi 30-60

Oil Sump Capacity (U.S. Quarts) 12

Max. Oil Consumption (Lb./BHP/Hr. Max.)006 X % Power
 100

Oil Temperature Limits

Minimum for Take-Off 75° F
 Maximum Allowable 225° F

Cylinder Head Temperature

Recommended Max. at Cruise 380° F
 Limit 460° F

Ignition Timing (Compression Stroke, Breaker Opens)

Right Magneto, Degrees BTC 20°
 Left Magneto, Degrees BTC 20°

Spark Plug

TCM 634675
 Champion RHB32E



CONTINENTAL MOTORS