

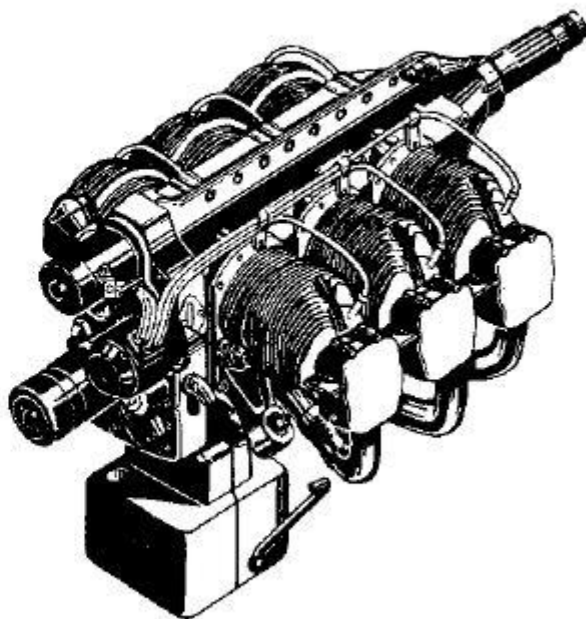
Cessna 210 Manual Set + Engine 1960 - 69

cylinder. If the engine is designed to operate with the cylinders below the crankshaft, it is called an inverted engine.

The in-line engine has a small frontal area and is better adapted to streamlining. When mounted with the cylinders in an inverted position, it offers the added advantages of a shorter landing gear and greater pilot visibility. The in-line engine has a higher weight-to-horsepower ratio than most other engines. With increase in engine size, the air cooled, in-line type offers additional handicaps to proper cooling; therefore, this type of engine is, to a large degree, confined to low- and medium-horsepower engines used in light aircraft.

Opposed or O-type Engines

The opposed-type engine, shown in figure 1-3, has two banks of cylinders directly opposite each other with a crankshaft in the center. The pistons of both cylinder banks are connected to the single crankshaft. Although the engine can be either liquid cooled or air cooled, the air-cooled version is used predominantly in aviation. It can be mounted with the cylinders in either a vertical or horizontal position.



displacement in cubic inches, for example

Radial Engines

The radial engine consists of a row, or cylinders arranged radially about a central case (see figure 1-4). This type of engine has proven to be very rugged and dependable. The number of cylinders composing a row may be three, five, seven, or nine. Some radial engines have two rows of seven or nine cylinders arranged radially about the crankcase. One type of radial engine has two rows of cylinders with seven cylinders in each row.

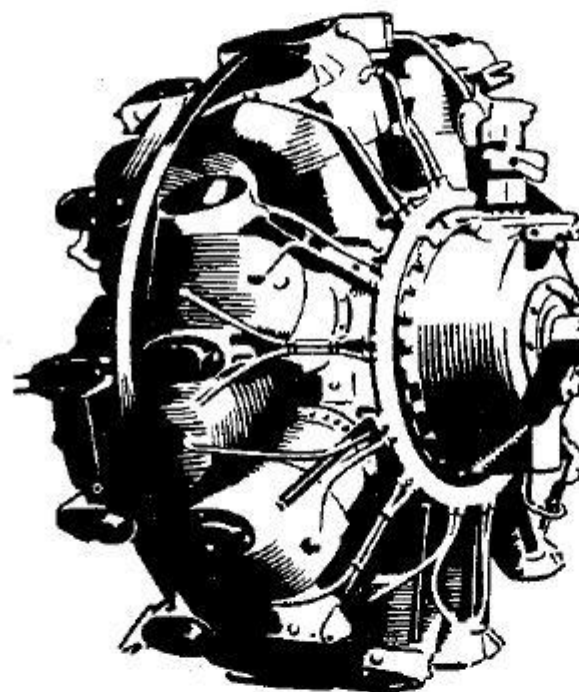


FIGURE 1-4. Radial engine.

The power output from the different radial engines varies from 100 to 3,800 horsepower.

RECIPROCATING ENGINE DESIGN AND CONSTRUCTION

The basic parts of a reciprocating engine are the crankcase, cylinders, pistons, connecting rods, valves, valve-operating mechanism, and crankshaft.

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