

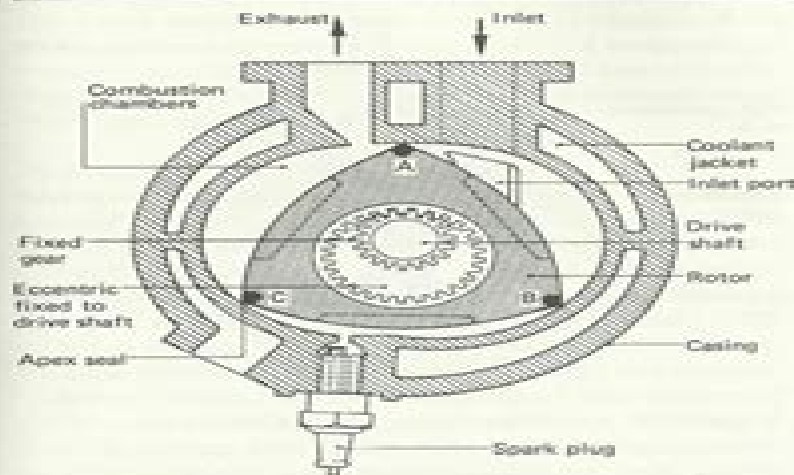


Figure 87 Spark ignition rotary engine

expansion of the gases forces the rotor to turn clockwise and rotate the driveshaft.

Exhaust As the rotor continues to turn under the pressure of the expanding gases the apex of the rotor communicates with the exhaust port shown at position CA and the gases leave the combustion chamber under their own pressure. Further rotation of the rotor reduces the volume of the combustion chambers and the gases are forced out through the exhaust port. The cycle of operation recommences as the inlet port is uncovered by the rotor.

An overlap period, comparable with that in a valved engine, is achieved by designing the inlet and exhaust ports close together so that the flank of the rotor spans both ports. The simultaneous sequence of operations is carried out in each chamber in turn resulting in three power impulses on the driveshaft for each one complete turn of the rotor.

The engine has two cooling systems. Liquid cooling is used in the casing, and this functions in a similar manner to the system used in a conventional engine. The difficulty of cooling the

inner part of the rotor and the gears is overcome by using oil which also lubricates the gears and bearings.

Rotary CI engine

A two-bank, two-stage rotary CI engine known as the 2-R6 has been developed by Rolls-Royce Ltd. It employs a low-pressure compressor/exhaust stage and a high-pressure combustion stage. The air enters the engine at the inlet port of the low-pressure stage and is compressed at this stage before passing through the transfer passage to the high-pressure stage, where it is further compressed to a higher ratio, after which combustion occurs. This arrangement is considered to be the best means of raising the compression ratio sufficient for diesel operation and maintaining a low surface-to-volume ratio in the chamber. The exhaust gases are transferred from the high-pressure stage through the exhaust transfer passage to the low-pressure stage where they are discharged from the engine through the exhaust port.

Some other details of this engine are its displacement which is 6500 cm³, height 835 mm, width 726 mm, length 718 mm and its estimated weight 450 kg. Its maximum power is 261 kW (350 bhp) at 4500 rev/min.

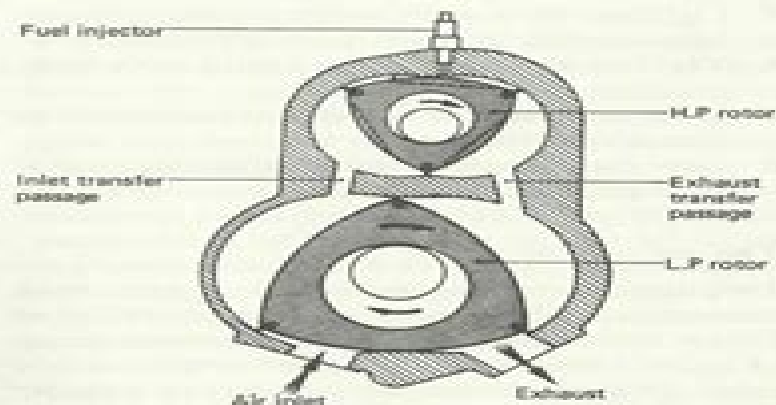


Figure 88 A two-stage rotary CI engine

All About Special Engines

Jianjun Gao



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