

on the size, shape and arrangement of the scavenge and exhaust ports. Fresh gas streams are fed through several ports into the combustion chamber where they swirl, thus effecting a complete filling of the chamber with mixture and a complete exhaustion of the burnt gases.

*(d) Two-stroke Compression-ignition Engines (Diesel Engines)*

The two-stroke Diesel engine has also been used in the industry constructing tractors in the last few years. It is distinguished from the two-stroke petrol engine by a cam-controlled exhaust valve. Normally a two-stroke Diesel engine is composed of three to seven cylinders and has a swept volume of 1.5 litres per cylinder on an average.

Since these engines have excellent starting properties even at low temperatures, the method of direct solid injection is preferably used (see page 86). The pressure of injection is between 175 and 230 atmospheres gauge pressure.