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efficiency, easy actuating and possibility of immediate load after actuating. Its disadvantage is production of pollutants emitted during the burning of carbon-based fuels and significant noise production. The weight of piston combustion engine is in regard to its performance relatively low, therefore it is broadly used as a drive unit in road vehicles. The publication is concerned only with this category of combustion engines.

Piston combustion engines may be divided according to various aspects, such as design, working-cycle or application. Combustion engines can be divided also according to another aspect and that could be the type of fuel, the method of formation of ignition mixture, the method of transport of new filling into the combustion chamber, the method of formation and ignition of mixture, the method of exchange of filling in the piston and last but not least aspect is the design.