

## Gas Forklift Parts

Parts for Gas Forklift - The diesel engine was developed during the year 1893 by Rudolf Diesel. It is an internal combustion engine that uses the heat of compression in order to initiate ignition and burn the fuel. After that the fuel is injected into the combustion chamber. This design is in contrast to spark ignition engines, such as gasoline or petrol engines that depend on spark plugs in order to ignite an air-fuel mix.

The diesel engine as opposed to any of the conventional internal or external combustion engine because of its very high compression ratio. Low-speed diesel engines normally have a thermal efficiency that exceeds 50%.

Among diesel engines made at present, there are both 4-stroke and 2-stroke versions. The diesel engine was first meant to be a more effective substitute to stationary steam engines. Diesel engines have been used ever since 1910 in submarines and ships, with subsequent use in electric generating plants, large trucks and locomotives in the subsequent years. By the 1930s, these engines were making their way into the automobile business. The use of diesel engines has been on the increase in the USA since the 1970s. These engines are a common choice in larger off-road and on-road motor vehicles. About 50 percent of all new car sales within Europe are diesel according to a 2007 statistic.

The internal combustion diesel engine very much varies from the gasoline powered Otto cycle. It makes use of highly compressed, hot air to ignite the fuel which is called compression ignition instead of utilizing a spark plug and spark ignition.

The compression ratio is somewhat high, really increasing the general efficiency of the engine since the high level of compression allows for combustion with no separate ignition system. Conversely, in a spark-ignition engine where fuel and air are mixed previous to entering the cylinder, increasing the compression ratio is limited by the need to avoid damaging pre-ignition. In diesel engines, premature detonation is not a problem as only air is compressed and fuel is not introduced into the cylinder until shortly before top dead center. This is one more reason why compression ratios in diesel engines are significantly higher.