## **Forklift Engine**

Forklift Engines - An engine, otherwise called a motor, is a tool that converts energy into functional mechanical motion. Motors which convert heat energy into motion are known as engines. Engines are available in various types such as external and internal combustion. An internal combustion engine typically burns a fuel with air and the resulting hot gases are utilized for creating power. Steam engines are an example of external combustion engines. They use heat so as to produce motion along with a separate working fluid.

The electric motor takes electrical energy and generates mechanical motion via various electromagnetic fields. This is a common kind of motor. Various types of motors function through non-combustive chemical reactions, other types could use springs and function by elastic energy. Pneumatic motors are driven by compressed air. There are various styles depending on the application required.

## ICEs or Internal combustion engines

Internal combustion occurs whenever the combustion of the fuel mixes together with an oxidizer inside the combustion chamber. In the IC engine, higher temperatures will result in direct force to certain engine parts like the nozzles, pistons, or turbine blades. This force produces functional mechanical energy by means of moving the component over a distance. Typically, an ICE has intermittent combustion as seen in the popular 2- and 4-stroke piston motors and the Wankel rotary motor. The majority of jet engines, gas turbines and rocket engines fall into a second class of internal combustion motors called continuous combustion, that happens on the same previous principal described.

Stirling external combustion engines or steam engines very much vary from internal combustion engines. The external combustion engine, where energy is to be delivered to a working fluid like for example pressurized water, hot water, liquid sodium or air that is heated in a boiler of some kind. The working fluid is not mixed with, having or contaminated by combustion products.

Different designs of ICEs have been developed and placed on the market together with various strengths and weaknesses. If powered by an energy dense fuel, the internal combustion engine provides an effective power-to-weight ratio. Even though ICEs have been successful in numerous stationary applications, their real strength lies in mobile applications. Internal combustion engines control the power supply intended for vehicles such as aircraft, cars, and boats. Some hand-held power gadgets make use of either battery power or ICE devices.

## External combustion engines

An external combustion engine uses a heat engine where a working fluid, like for example steam in steam engine or gas in a Stirling engine, is heated by combustion of an external source. This combustion occurs through a heat exchanger or through the engine wall. The fluid expands and acts upon the engine mechanism which produces motion. Afterwards, the fluid is cooled, and either compressed and used again or disposed, and cool fluid is pulled in.

The act of burning fuel with an oxidizer in order to supply heat is referred to as "combustion." External thermal engines can be of similar use and configuration but utilize a heat supply from sources like for instance geothermal, solar, nuclear or exothermic reactions not involving combustion.

Working fluid could be of whatever composition, though gas is the most common working fluid. Sometimes a single-phase liquid is occasionally used. In Organic Rankine Cycle or in the case of the steam engine, the working fluid adjusts phases between gas and liquid.