## **Forklift Engine**

Forklift Engine - Otherwise referred to as a motor, the engine is a device which can convert energy into a functional mechanical motion. When a motor changes heat energy into motion it is usually known as an engine. The engine could be available in many types like for example the internal and external combustion engine. An internal combustion engine typically burns a fuel using air and the resulting hot gases are used for generating power. Steam engines are an illustration of external combustion engines. They use heat in order to generate motion with a separate working fluid.

The electric motor takes electrical energy and produces mechanical motion through various electromagnetic fields. This is a typical type of motor. Various kinds of motors function through non-combustive chemical reactions, other kinds can make use of springs and function by elastic energy. Pneumatic motors are driven through compressed air. There are other styles depending upon the application required.

## Internal combustion engines or ICEs

Internal combustion occurs whenever the combustion of the fuel mixes with an oxidizer inside the combustion chamber. In the IC engine, higher temperatures would result in direct force to certain engine parts like for example the pistons, turbine blades or nozzles. This particular force generates useful mechanical energy by means of moving the part over a distance. Typically, an ICE has intermittent combustion as seen in the popular 2- and 4-stroke piston engines and the Wankel rotating motor. Most jet engines, gas turbines and rocket engines fall into a second class of internal combustion engines known as continuous combustion, that happens on the same previous principal described.

External combustion engines like for instance Stirling or steam engines differ very much from internal combustion engines. External combustion engines, where the energy is delivered to a working fluid like for example liquid sodium, hot water and pressurized water or air that are heated in some kind of boiler. The working fluid is not mixed with, having or contaminated by burning products.

Different designs of ICEs have been developed and placed on the market with various weaknesses and strengths. When powered by an energy dense fuel, the internal combustion engine delivers an effective power-to-weight ratio. Even though ICEs have been successful in several stationary utilization, their actual strength lies in mobile utilization. Internal combustion engines dominate the power supply intended for vehicles such as cars, boats and aircrafts. Some hand-held power gadgets make use of either ICE or battery power gadgets.

## External combustion engines

An external combustion engine utilizes a heat engine where a working fluid, such as steam in steam engine or gas in a Stirling engine, is heated through combustion of an external source. This particular combustion happens through a heat exchanger or through the engine wall. The fluid expands and acts upon the engine mechanism that generates motion. Then, the fluid is cooled, and either compressed and used again or discarded, and cool fluid is pulled in.

Burning fuel with the aid of an oxidizer to supply the heat is called "combustion." External thermal engines can be of similar operation and configuration but use a heat supply from sources such as geothermal, solar, nuclear or exothermic reactions not involving combustion.

Working fluid could be of whatever constitution, even though gas is the most common working fluid. Every now and then a single-phase liquid is occasionally utilized. In Organic Rankine Cycle or in the case of the steam engine, the working fluid changes phases between liquid and gas.