

Gear for Forklift

Forklift Gears - A gear pump is among the most common types of pumps used for applications of hydraulic fluid power. A gear pump functions by utilizing the meshing of gears in order to pump fluid by displacement. These devices are generally utilized in chemical installations to pump fluid with specific viscosity. Two basic types of gear pumps exist. Internal gear pumps make use of an external and an internal spur gear and external gear pumps utilize two external spur gears. Gear pumps pump a continuous amount of fluid for each revolution. This defines them as positive or fixed displacement. A few gear pump machines are designed to function as either a motor or a pump.

As the gears turn on the pump, this action functions so as to separate the intake side of the pump, creating a void and a suction that is filled by fluid. This fluid is passed by the gears to the discharge side, whereby the fluid is displaced by the meshing of the gears. There are very small and tight mechanized clearances, that along with the speed of revolution effectively prevent the fluid from leaking backwards. The rigid fabrication of the gears and houses provides the pump its ability to pump highly viscous liquids and allow for extremely high pressures.