

Gears for Forklift

Forklift Gears - A gear pump is one of the most common types of pumps used for applications of hydraulic fluid power. A gear pump works by using the meshing of gears so as to pump fluid by displacement. These devices are generally used in chemical installations to pump fluid with specific viscosity. Two basic kinds of gear pumps are available. Internal gear pumps make use of an internal and an external spur gear and external gear pumps make use of two external spur gears. Gear pumps pump a continuous amount of fluid for each and every revolution. This defines them as positive or fixed displacement. Some gear pump devices are designed to operate as either a motor or a pump.

While the gears turn on the pump, this action functions to separate the intake side of the pump, creating a suction and a void 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 mechanical clearances, that along with the speed of revolution efficiently avoid the fluid from leaking backwards. The rigid design of the gears and houses gives the pump its ability to be able to pump highly viscous liquids and allow for extremely high pressures.