

Gear for Forklift

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

When the gears rotate on the pump, this action works 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 tight and really small mechanical clearances, that along with the speed of revolution effectively prevent the fluid from leaking backwards. The rigid construction of the houses and gears provides the pump its ability to be able to pump highly viscous liquids and allow for extremely high pressures.