

## Gears for Forklift

Forklift Gear - A gear pump is one of the most common types of pumps utilized 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 used in chemical installations to pump fluid with specific viscosity. Two basic types of gear pumps are available. Internal gear pumps utilize an external and an internal spur gear and external gear pumps use 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 machines are designed to function as either a pump or a motor.

While the gears turn on the pump, this action functions in order to divide the intake side of the pump, creating a void and a suction that is filled by fluid. This fluid is carried by the gears to the discharge side, whereby the fluid is displaced by the meshing of the gears. There are tight and very small mechanical clearances, that together with the speed of rotation efficiently prevent the fluid from leaking backwards. The rigid construction of the houses and gears provides the pump its ability to pump highly viscous fluids and allow for excessively high pressures.