

## Gear for Forklift

Forklift Gears - A gear pump is one of the most common types of pumps utilized for applications of hydraulic fluid power. A gear pump works by utilizing the meshing of gears so as to pump fluid by displacement. These devices are usually utilized in chemical installations to pump fluid with specific viscosity. Two basic types of gear pumps exist. Internal gear pumps utilize an internal and an external spur gear and external gear pumps make use of two external spur gears. Gear pumps pump a constant 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 motor or a pump.

As the gears rotate on the pump, this action works to be able to divide the intake side of the pump, creating a suction and a void that is filled by fluid. This fluid is carried by the gears to the discharge side, where the fluid is displaced by the meshing of the gears. There are tight and very small mechanical clearances, that along with the speed of revolution efficiently avoid the fluid from leaking backwards. The rigid fabrication of the gears and houses gives the pump its ability to be able to pump highly viscous fluids and allow for excessively high pressures.