

## Gears for Forklifts

Forklift Gears - A gear pump is one of the most common kinds of pumps used for applications of hydraulic fluid power. A gear pump functions by utilizing the meshing of gears to be able to pump fluid by displacement. These devices are widely utilized in chemical installations 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 constant amount of fluid for every revolution. This defines them as positive or fixed displacement. Several gear pump machines are designed to work as either a motor or a pump.

As the gears on the pump turn, they divide on the intake side of the pump. This creates a void and suction that is filled by fluid. This fluid is carried by the gears to the discharge side of the pump, and this is whereby the meshing of the gears functions to displace the fluid. There are tight and very small mechanized clearances, that along with the speed of revolution effectively avoid 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 extremely high pressures.