

## Forklift Gears

Forklift Gears - A gear pump is amongst the most common types of pumps used for applications of hydraulic fluid power. A gear pump works by using the meshing of gears in order to pump fluid by displacement. These machines are usually used in chemical installations to pump fluid with specific viscosity. Two main 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 constant amount of fluid for each and every revolution. This defines them as positive or fixed displacement. Some gear pump devices are designed to work as either a motor or a pump.

While the gears rotate on the pump, this action works to separate 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, where the fluid is displaced by the meshing of the gears. There are really small and tight mechanical clearances, which together with the speed of revolution efficiently avoid the fluid from leaking backwards. The rigid fabrication of the gears and houses provides the pump its ability to pump highly viscous fluids and allow for extremely high pressures.