

Gears for Forklifts

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

When the gears turn on the pump, this action functions to divide the pump's intake side, 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 very small and tight mechanized clearances, which along with the speed of rotation effectively avoid the fluid from leaking backwards. The rigid construction of the gears and houses gives the pump its ability to pump highly viscous fluids and allow for excessively high pressures.