

Gears for Forklifts

Forklift Gears - A gear pump is one of the most common types of pumps for applications of hydraulic fluid power. A gear pump works by using the meshing of gears so as to pump fluid by displacement. These machines are usually utilized in chemical installations to pump fluid with specific viscosity. Two basic kinds of gear pumps are available. Internal gear pumps make use of 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 fixed or positive displacement. Some gear pump machines are designed to work as either a pump or a motor.

As the gears rotate on the pump, this action functions 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 really small mechanized clearances, which along with the speed of revolution effectively prevent the fluid from leaking backwards. The rigid design of the gears and houses gives the pump its ability to be able to pump highly viscous liquids and allow for extremely high pressures.