

Forklift Gear

Forklift Gears - A gear pump is one of the most common kinds of pumps designed 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 generally used in chemical installations to pump fluid with specific viscosity. Two basic types of gear pumps exist. 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 continuous amount of fluid for every revolution. This defines them as positive or fixed displacement. Several gear pump devices are designed to work as either a motor or a pump.

When the gears turn on the pump, this action works so as to separate the intake side of the pump, creating a void and a suction that is filled by fluid. This fluid is passed by the gears to the discharge side, where the fluid is displaced by the meshing of the gears. There are very small and tight mechanical clearances, that along with the speed of rotation effectively avoid the fluid from leaking backwards. The rigid construction of the gears and houses provides the pump its ability to pump highly viscous liquids and allow for excessively high pressures.