

Gears for Forklift

Forklift Gears - A gear pump is one of the most common types of pumps used for applications of hydraulic fluid power. A gear pump operates by utilizing the meshing of gears in order to pump fluid by displacement. These devices are generally utilized in chemical installations so as 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 utilize 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 machines are designed to work as either a pump or a motor.

While the gears revolve on the pump, this action works to be able to separate the pump's intake side, 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 very small and tight mechanical clearances, that along with the speed of rotation effectively prevent the fluid from leaking backwards. The rigid design of the houses and gears gives the pump its ability to pump highly viscous liquids and allow for extremely high pressures.