

Forklift Gear

Gears for Forklift - A gear pump is one of the most common types of pumps used 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 generally utilized in chemical installations so as to pump fluid with specific viscosity. Two main types of gear pumps exist. Internal gear pumps use an internal and an external 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 machines are designed to work as either a motor or a pump.

As the gears revolve 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, where the fluid is displaced by the meshing of the gears. There are tight and very small mechanized clearances, which along with the speed of rotation efficiently prevent the fluid from leaking backwards. The rigid construction of the gears and houses provides the pump its ability to pump highly viscous fluids and allow for excessively high pressures.