

Forklift Gear

Gears for Forklift - Among the more common types of pump for hydraulic fuel power applications is the gear pump. The gear pump operates by utilizing the meshing gears so as to pump fluid by displacement. These machines are even widely utilized in order to pump fluids with specific velocities in chemical installations. Two basic types of gear pumps are available. Internal gear pumps utilize 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 revolution. This defines them as fixed or positive displacement. Some gear pump machines are designed to function as either a pump or a motor.

When the gears on the pump rotate, they separate on the intake side of the pump. This creates a suction and void which is filled by fluid. This fluid is passed by the gears to the discharge side of the pump, and this is where the meshing of the gears works to be able to displace the fluid. There are very small and tight mechanical clearances, which together with the speed of rotation efficiently prevent the fluid from leaking backwards. The rigid design of the gears and houses provides the pump its ability to pump highly viscous fluids and allow for excessively high pressures.