

## Forklift Gear

Forklift Gears - Among the more common types of pump for hydraulic fuel power applications is the gear pump. The gear pump functions by using the meshing gears to be able to pump fluid by displacement. These devices are also generally used to be able to pump fluids with specific velocities in chemical installations. Two basic types of gear pumps exist. Internal gear pumps use 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 each and every revolution. This defines them as positive or fixed displacement. Several gear pump machines are designed to operate as either a motor or a pump.

When the gears turn on the pump, this action functions to be able to divide 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, whereby the fluid is displaced by the meshing of the gears. There are very small and tight mechanized clearances, that along with the speed of rotation efficiently prevent the fluid from leaking backwards. The rigid fabrication of the gears and houses provides the pump its ability to be able to pump highly viscous fluids and allow for excessively high pressures.