

## Forklift Gear

Forklift Gears - One of the more common types of pump for hydraulic fuel power applications is the gear pump. The gear pump functions by utilizing the meshing gears in order to pump fluid by displacement. These devices are also usually utilized to be able to pump fluids with specific velocities in chemical installations. Two main kinds of gear pumps exist. Internal gear pumps make use of an external and an internal 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 fixed or positive displacement. Several gear pump devices are designed to operate as either a pump or a motor.

When the gears on the pump turn, they divide 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 displace the fluid. There are very small and tight mechanical clearances, which together with the speed of rotation efficiently avoid the fluid from leaking backwards. The rigid construction of the gears and houses provides the pump its ability to be able to pump highly viscous fluids and allow for extremely high pressures.