

## Forklift Gears

Among the more common kinds of pump used for hydraulic fuel power applications is the gear pump. The gear pump operates by using the meshing gears to pump fluid by displacement. These devices are likewise commonly utilized in order 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 fixed or positive displacement. Several gear pump machines are designed to work as either a motor or a pump.

While the gears on the pump rotate, they divide on the intake side of the pump. This creates a void and suction that is filled by fluid. This fluid is carried by the gears to the discharge side of the pump, and this is whereby the meshing of the gears works to be able to displace the fluid. There are tight and very small mechanical clearances, which together with the speed of rotation effectively prevent the fluid from leaking backwards. The rigid design of the gears and houses provides the pump its ability to be able to pump highly viscous liquids and allow for extremely high pressures.