

## Forklift Gears

Forklift Gears - Amongst the more common types of pump utilized for hydraulic fuel power applications is the gear pump. The gear pump works by using the meshing gears to pump fluid by displacement. These machines are even commonly used so as to pump fluids with specific velocities in chemical installations. Two basic kinds of gear pumps are available. 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 function as either a pump or a motor.

As the gears turn on the pump, this action functions so as to divide the intake side of the pump, creating a suction and a void 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 mechanical clearances, that together with the speed of rotation effectively prevent the fluid from leaking backwards. The rigid design of the houses and gears gives the pump its ability to be able to pump highly viscous liquids and allow for extremely high pressures.