

## Forklift Gear

Forklift Gears - Among the more common kinds of pump designed for hydraulic fuel power applications is the gear pump. The gear pump functions by using the meshing gears so as to pump fluid by displacement. These machines are also commonly used so as to pump fluids with precise velocities in chemical installations. Two main kinds of gear pumps exist. Internal gear pumps make use of an internal and an external spur gear and external gear pumps make use of 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 machines are designed to function as either a pump or a motor.

As the gears on the pump revolve, they divide on the pump's intake side. This creates a void and suction which is filled by fluid. This fluid is passed by the gears to the discharge side of the pump, and this is whereby the meshing of the gears works to displace the fluid. There are very small and tight mechanized clearances, that along with the speed of rotation effectively prevent the fluid from leaking backwards. The rigid design of the gears and houses gives the pump its ability to pump highly viscous fluids and allow for extremely high pressures.