

## Forklift Gear

Forklift Gears - Amongst the more common types 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 devices are also commonly used so as to pump fluids with precise velocities in chemical installations. Two basic kinds of gear pumps exist. Internal gear pumps make use of an internal and an external spur gear and external gear pumps utilize 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. Several gear pump devices are designed to function as either a pump or a motor.

While the gears on the pump revolve, 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 operates so as to displace the fluid. There are very small and tight mechanized clearances, which together with the speed of rotation effectively prevent the fluid from leaking backwards. The rigid fabrication of the gears and houses provides the pump its ability to pump highly viscous fluids and allow for extremely high pressures.