

## Gears for Forklifts

Forklift Gear - Among the more common kinds of pump designed for hydraulic fuel power applications is the gear pump. The gear pump works by utilizing the meshing gears to pump fluid by displacement. These machines are even widely used to pump fluids with precise velocities in chemical installations. Two main types of gear pumps exist. Internal gear pumps use an external and an internal spur gear and external gear pumps utilize two external spur gears. Gear pumps pump a continuous amount of fluid for every revolution. This defines them as fixed or positive displacement. A few gear pump machines are designed to work as either a pump or a motor.

As the gears rotate on the pump, this action functions to separate the pump's intake side, creating a suction and a void that is filled by fluid. This fluid is carried by the gears to the discharge side, where the fluid is displaced by the meshing of the gears. There are tight and very small mechanical clearances, that along with the speed of rotation effectively avoid the fluid from leaking backwards. The rigid fabrication of the gears and houses provides the pump its ability to pump highly viscous liquids and allow for extremely high pressures.