Forklift Gears

Forklift Gear - Amongst the more common types of pump designed for hydraulic fuel power applications is the gear pump. The gear pump operates by utilizing the meshing gears so as to pump fluid by displacement. These machines are also generally utilized to pump fluids with precise velocities in chemical installations. Two basic types of gear pumps exist. Internal gear pumps use an external and an internal 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. Some gear pump machines are designed to function as either a motor or a pump.

When the gears on the pump rotate, they divide on the pump's intake side. This creates a suction and void that 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 operates to be able to displace the fluid. There are tight and really small mechanical clearances, that together 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 be able to pump highly viscous liquids and allow for excessively high pressures.