

Gears for Forklift

Forklift Gears - Amongst the more common types of pump designed for hydraulic fuel power applications is the gear pump. The gear pump works by using the meshing gears to pump fluid by displacement. These devices are even usually used in order to pump fluids with precise velocities in chemical installations. Two main types 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 every revolution. This defines them as positive or fixed displacement. Some gear pump devices are designed to operate as either a motor or a pump.

As the gears revolve on the pump, this action functions in order to divide the pump's intake side, creating a suction and a void that is filled by fluid. This fluid is passed by the gears to the discharge side, where the fluid is displaced by the meshing of the gears. There are very small and tight mechanized clearances, that together with the speed of revolution effectively prevent the fluid from leaking backwards. The rigid construction of the houses and gears gives the pump its ability to be able to pump highly viscous fluids and allow for excessively high pressures.