

Forklift Winch

Forklift Winch - A winch is a mechanical device that specializes in winding out or pulling in or winding up or letting out the tension of a rope, wire cable, cable or a wire rope. In its most basic form it is constructed of a spool with an attached hand crank. More complex winches are found at the heart of machinery such as elevators, steam shovels and tow trucks. Every so often the spool can be called the winch drum. Elaborate designs have gear assemblies which can be powered by hydraulic, electric, pneumatic or internal combustion drives. Several winches may consist of a mechanical brake or a solenoid brake or a ratchet and pawl mechanism in order to stop it from unwinding unless the pawl is retracted.

Generally, the cable or rope is stored on the winch, nevertheless the capspan, a similar machine, does not store the rope. In sailing, when trimming a line on a sailboat, the crew member works the winch handle making use of one hand while tailing the other to be able to maintain tension on the turns. Several winches have a cleat or stripper to maintain tension. These designs are referred to as "self-tailing" winches.

Frequently, winches are utilized backstage as part of the mechanics in order to move backdrop in big theatrical shows. Lots of times the winches are actually embedded in the stage floor and utilized so as to move huge set pieces off and on stage.

The new generation of winches have been made for water and snow sports allowing the riders to be pulled rapidly across a body of water or of snow. This could stimulate a riding experience which is usually supplied by a boat, snow mobile or a wave runner.