

Winch for Forklift

Forklift Winch - Winches are mechanical devices which can wind out, or pull up the tension of a rope, wire cable, cable or a wire rope. These devices, in its most simple form, are made of a spool and a hand crank. More complex winches are found at the heart of machinery like for instance steam shovels, tow trucks and elevators. Every now and then the spool can be called the winch drum. Complex designs have gear assemblies that could be powered by internal, hydraulic, electric or pneumatic combustion drives. Some winches may consist of a mechanical brake or a solenoid brake or a ratchet and pawl apparatus to be able to prevent it from unwinding unless the pawl is retracted.

Commonly, the cable or rope is stored on the winch, however the capspan, a similar machinery, does not store the rope. In sailing, when trimming a line on a sailboat, the crew member operates the winch handle utilizing one hand while tailing the other in order to maintain tension on the turns. Several winches have a cleat or stripper to maintain tension. These designs are called "self-tailing" winches.

Frequently, a winch is used in big theatrical productions as a part of the mechanics in order to move backdrop. Occasionally there are also winches actually imbedded in the stage so as to help move the many bigger set pieces off and on the stage.

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