

## Forklift Winch

Forklift Winch - Winches are mechanical devices that could pull up or wind out the tension of a rope, wire cable, cable or a wire rope. These devices, in its most simple form, are constructed of a hand crank and a spool. More complicated winches are seen at the heart of machinery like for example steam shovels, tow trucks and elevators. At times the spool could be known as the winch drum. Complex designs have gear assemblies that can be driven by electric, pneumatic, internal or hydraulic combustion drives. Some winches could include a mechanical brake or a solenoid brake or a ratchet and pawl apparatus in order to prevent it from unwinding unless the pawl is retracted.

Most often, the cable or rope is stored on the winch, then again the capspan, a similar machine, does not store the rope. In sailing, when trimming a line on a sailboat, the crew member operates the winch handle with one hand while tailing the other so as to maintain tension on the turns. Various winches have a stripper or cleat to maintain tension. These designs are referred to as "self-tailing" winches.

Often, winches are utilized backstage as part of the mechanics in order to move setting in big theatrical productions. Lots of times the winches are actually embedded in the stage floor and used to transfer large set pieces off and on stage.

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