

## Winches for Forklift

Forklift Winch - Winches are mechanical devices that are able to wind out, or pull up the tension of a cable, wire rope, rope or a wire cable. These tools, in its most simple form, are constructed of a spool and a hand crank. More complex winches are found at the heart of machines like tow trucks, elevators and steam shovels. Occasionally the spool can be referred to as the winch drum. Elaborate designs have gear assemblies which can be powered by electric, pneumatic, internal or hydraulic combustion drives. Several winches may consist of a mechanical brake or a solenoid brake or a pawl and ratchet mechanism to be able to prevent it from unwinding unless the pawl is retracted.

Commonly, the rope or cable is stored on the winch, however 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 using one hand while tailing the other to be able to maintain tension on the turns. Several winches have a cleat or stripper to be able to maintain tension. These designs are called "self-tailing" winches.

Normally, winches are utilized backstage as part of the mechanism to transfer setting in big theatrical productions. Lots of times the winches are actually embedded in the stage floor and utilized to be able to transfer large set pieces on and off stage.

Recently, winches have been made in particular designs for water and snow sports. This new generation of winches is designed so as to pull riders swiftly across a body of water or of snow. This can stimulate a riding experience that is usually supplied by a boat, snow mobile or a wave runner.