

## Winch for Forklift

Forklift Winches - Winches are mechanical tools which are able to pull up or wind out the tension of a wire cable, cable, wire rope or a rope. These devices, in its most simple form, are constructed of a spool and a hand crank. More complex winches are found at the heart of machinery such as tow trucks, elevators and steam shovels. Every so often the spool can be called the winch drum. Elaborate designs have gear assemblies that can be driven by electric, pneumatic, internal or hydraulic combustion drives. Several winches may include a mechanical brake or a solenoid brake or a ratchet and pawl device 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 with one hand while tailing the other so as 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.

Normally, winches are used backstage as part of the mechanics so as to transfer background in large theatrical shows. Many times the winches are really embedded in the stage floor and utilized in order to transfer big set pieces off and on stage.

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