

## Forklift Winch

Forklift Winches - Winches are mechanical tools which can wind out, or pull up the tension of a cable, wire rope, rope or a wire cable. These tools, in its most basic form, are made of a hand crank and a spool. More complicated winches are seen at the heart of machines like steam shovels, tow trucks and elevators. Every now and then the spool can be referred to as the winch drum. Elaborate designs have gear assemblies that could be driven by hydraulic, electric, pneumatic or internal combustion drives. Various winches may consist of a mechanical brake or a solenoid brake or a pawl and ratchet mechanism in order 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 piece of equipment, does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member works the winch handle utilizing one hand while tailing the other so as to maintain tension on the turns. Some winches have a cleat or stripper to maintain tension. These designs are called "self-tailing" winches.

Frequently, winches are used offstage as part of the mechanics to be able to move staging in big theatrical productions. Many times the winches are actually embedded in the stage floor and utilized in order to transfer large set pieces on and off stage.

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