

## Forklift Winch

Forklift Winch - A winch is a mechanical device that specializes in letting out, or winding out or pulling in or winding up the tension of a wire rope, a rope, wire cable or a cable. In its most simple form it is constructed of a spool along with a connected hand crank. More complex winches are seen at the heart of machinery like for example steam shovels, tow trucks and elevators. At times the spool could be referred to as the winch drum. Elaborate designs have gear assemblies which can be powered by electric, pneumatic, internal or hydraulic combustion drives. Various winches can comprise a mechanical brake or a solenoid brake or a ratchet and pawl mechanism in order to prevent it from unwinding unless the pawl is retracted.

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

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

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