

## Forklift Winches

Forklift Winch - A winch is a mechanical piece of equipment which specializes in pulling in or winding up or letting out or winding out the tension of a wire rope, a rope, wire cable or a cable. In its most simple form it is made of a spool together with an attached hand crank. More complicated winches are seen at the heart of machinery like tow trucks, elevators and steam shovels. Sometimes the spool could be called the winch drum. Elaborate designs have gear assemblies that could be driven by electric, pneumatic, internal or hydraulic combustion drives. Some winches can include a solenoid brake or a mechanical brake or a pawl and ratchet mechanism in order to stop it from unwinding unless the pawl is retracted.

Generally, the rope is stored on the winch. There is a similar machine known as a capstan that does not store the rope. In sailing, when trimming a line on a sailboat, the crew member works the winch handle utilizing one hand while tailing the other in order to maintain tension on the turns. Several winches have a stripper or cleat to maintain tension. These designs are called "self-tailing" winches.

Frequently, winches are utilized offstage as part of the mechanism so as to move staging in large theatrical productions. Lots of times the winches are actually embedded in the stage floor and utilized to move huge set pieces on and off stage.

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