

## Forklift Winches

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

Generally, the rope or cable is stored on the winch, nevertheless the capstan, a similar machinery, 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 tending the other in order to maintain tension on the turns. Several winches have a cleat or stripper to maintain tension. These designs are known as "self-tailing" winches.

Frequently, winches are used offstage as part of the mechanics so as to transfer staging in large theatrical productions. A lot of times the winches are actually embedded in the stage floor and used in order to transfer huge set pieces off and on stage.

Recently, winches have been made in particular designs for snow and water 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 usually supplied by a wave runner, boat or a snow mobile.