

## Forklift Winches

Forklift Winch - A winch is a mechanical tool which specializes in pulling in or winding up or letting out or winding out the tension of a wire cable, cable, wire rope or a rope. In its most simple form it is constructed of a spool with an attached hand crank. More complex winches are found at the heart of machines like tow trucks, elevators and steam shovels. Every now and then the spool can be known as the winch drum. Elaborate designs have gear assemblies that could be driven by electric, pneumatic, internal or hydraulic combustion drives. Several winches could comprise a solenoid brake or a mechanical brake or a pawl and ratchet device in order to stop it from unwinding unless the pawl is retracted.

Normally, the rope is stored on the winch. There is similar machinery called 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 to be able to maintain tension on the turns. Several winches have a cleat or stripper to maintain tension. These designs are known as "self-tailing" winches.

Often, winches are used backstage as part of the mechanism to move background in large theatrical shows. A lot of times the winches are really embedded in the stage floor and utilized so as to transfer huge set pieces on and off stage.

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