

## Winches for Forklift

Forklift Winch - Winches are mechanical tools that are able to wind out, or pull up the tension of a rope, wire cable, cable or a wire rope. These tools, in its most basic form, are made of a hand crank and a spool. More complicated winches are found at the heart of machines such as steam shovels, tow trucks and elevators. Sometimes the spool can be called the winch drum. Elaborate designs have gear assemblies that can be powered by hydraulic, electric, pneumatic or internal combustion drives. Some winches could consist of a solenoid brake or a mechanical brake or a ratchet and pawl mechanism so as to prevent it from unwinding unless the pawl is retracted.

Generally, the rope is stored on the winch. There is similar machinery called a capstan which does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member operates the winch handle with one hand while tailing the other to be able to maintain tension on the turns. Various winches have a stripper or cleat to maintain tension. These designs are referred to as "self-tailing" winches.

Frequently, winches are used backstage as part of the mechanism so as to transfer backdrop in large theatrical productions. Lots of times the winches are really embedded in the stage floor and used to be able to transfer huge set pieces off and on stage.

The new generation of winches have been made for snow and water sports allowing the riders to be pulled swiftly across a body of snow or of water. This can stimulate a riding experience which is normally supplied by a wave runner, boat or a snow mobile.