

## Forklift Winches

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

Generally, the rope is stored on the winch. There is a similar machine 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 making use of one hand while tailing the other to be able to maintain tension on the turns. Various winches have a cleat or stripper in order to maintain tension. These designs are called "self-tailing" winches.

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

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