

Winch for Forklift

Forklift Winch - A winch is a mechanical tool which specializes in letting out, or winding out or pulling in or winding up the tension of a rope, wire cable, cable or a wire rope. In its most simple form it is made of a spool together with a connected hand crank. More complicated winches are found at the heart of machinery like tow trucks, elevators and steam shovels. Occasionally the spool can be referred to as the winch drum. Elaborate designs have gear assemblies that could be driven by electric, pneumatic, internal or hydraulic combustion drives. Various winches could consist of a solenoid brake or a mechanical brake or a ratchet and pawl device to be able to prevent it from unwinding unless the pawl is retracted.

Usually, the rope is stored on the winch. There is similar piece of equipment called a capstan which does not store the rope. In sailing, when trimming a line on a sailboat, the crew member works the handle of the winch making use of one hand while tailing the other in order to maintain tension on the turns. Several winches have a stripper or cleat so as to maintain tension. These designs are called "self-tailing" winches.

Frequently, winches are utilized offstage as part of the mechanism in order to transfer staging in large theatrical shows. Lots of times the winches are really embedded in the stage floor and used to be able to move large set pieces off and on stage.

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