

Winch for Forklift

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

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

Often, winches are used backstage as part of the mechanics to be able to transfer staging in big theatrical productions. A lot of times the winches are actually embedded in the stage floor and used so as to transfer large set pieces on and off stage.

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