

Winch for Forklift

Forklift Winch - A winch is a mechanical piece of equipment which specializes in winding up or letting out or winding out or pulling in the tension of a wire rope, a rope, wire cable or a cable. In its most basic form it is constructed of a spool with an attached hand crank. More complex winches are seen at the heart of machines such as steam shovels, tow trucks and elevators. Sometimes the spool can be referred to as the winch drum. Complex designs have gear assemblies that could be powered by electric, pneumatic, internal or hydraulic combustion drives. Various winches may include a solenoid brake or a mechanical brake or a pawl and ratchet device in order to prevent 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 a line is trimmed on a sailboat, the crew member works the handle of the winch with one hand while tending the other so as 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.

Often, winches are utilized offstage as part of the mechanism to be able to move setting in large theatrical productions. Lots of times the winches are actually embedded in the stage floor and utilized to move large set pieces on and off stage.

Recently, winches have been fabricated in particular designs for snow and water sports. This new generation of winches is designed so as to pull riders quickly across a body of snow or of water. This could stimulate a riding experience that is typically supplied by a wave runner, boat or a snow mobile.