

Winches for Forklift

Forklift Winch - A winch is a mechanical piece of equipment 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 basic form it is constructed of a spool along with an attached hand crank. More complicated winches are found at the heart of machines such as steam shovels, tow trucks and elevators. Every now and then the spool can be known as the winch drum. Complex designs have gear assemblies which could be driven by electric, pneumatic, internal or hydraulic combustion drives. Some winches may comprise a solenoid brake or a mechanical brake or a pawl and ratchet device in order to stop it from unwinding unless the pawl is retracted.

Most often, the rope or cable is stored on the winch, then again the capstan, a similar machine, does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member operates the handle of the winch with one hand while tailing the other in order to maintain tension on the turns. Several winches have a stripper or cleat to maintain tension. These designs are known as "self-tailing" winches.

Often, winches are utilized backstage as part of the mechanics in order to arrange scenery in big theatrical productions. Many times the winches are really embedded in the stage floor and utilized so as to move large set pieces off and on stage.

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