

Winch for Forklift

Forklift Winch - 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 basic form it is constructed of a spool with a connected hand crank. More complicated winches are seen at the heart of machinery like for example tow trucks, elevators and steam shovels. Occasionally the spool can be called the winch drum. Elaborate designs have gear assemblies which could be driven by internal, hydraulic, electric or pneumatic combustion drives. Some winches could consist of a mechanical brake or a solenoid brake or a pawl and ratchet apparatus so as to prevent it from unwinding unless the pawl is retracted.

Most often, the cable or rope is stored on the winch, nonetheless the capstan, a similar machinery, does not store the rope. In sailing, when trimming a line on a sailboat, the crew member operates the winch handle utilizing 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 referred to as "self-tailing" winches.

Normally, winches are used offstage as part of the mechanics to be able to move scenery in big theatrical productions. A lot of times the winches are really embedded in the stage floor and utilized so as to transfer large 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 that is normally supplied by a boat, snow mobile or a wave runner.