

Winch for Forklift

Forklift Winches - A winch is a mechanical piece of equipment that specializes in winding out or pulling in or winding up or letting out the tension of a rope, wire cable, cable or a wire rope. In its most simple form it is constructed of a spool together with an attached hand crank. More complex winches are found at the heart of machines like tow trucks, elevators and steam shovels. Sometimes the spool could be called the winch drum. Elaborate designs have gear assemblies that could be powered by electric, pneumatic, internal or hydraulic combustion drives. Some winches can consist of a solenoid brake or a mechanical brake or a pawl and ratchet device to be able to stop it from unwinding unless the pawl is retracted.

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

Often, winches are used offstage as part of the mechanics in order to arrange staging in large theatrical productions. A lot of times the winches are really embedded in the stage floor and utilized so as to move big set pieces off and on stage.

Lately, winches have been fabricated in specific designs for snow and water sports. This new generation of winches is designed to be able to pull riders quickly across a body of snow or of water. This could stimulate a riding experience which is normally supplied by a snow mobile, wave runner or a boat.