

Winch for Forklift

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

Generally, the rope or cable is stored on the winch, nonetheless the capspan, a similar machinery, does not store the rope. In sailing, when trimming a line on a sailboat, the crew member operates the winch handle making use of one hand while tailing the other to be able to maintain tension on the turns. Some 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 to be able to transfer setting in big theatrical productions. A lot of times the winches are actually embedded in the stage floor and used in order to move large set pieces off and on stage.

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