

Winches for Forklift

Forklift Winch - A winch is a mechanical device which specializes in letting out, or winding out or pulling in or winding up the tension of a cable, wire rope, rope or a wire cable. In its most simple form it is constructed of a spool along with a connected hand crank. More complex winches are seen at the heart of machines like tow trucks, elevators and steam shovels. Sometimes the spool can be referred to as the winch drum. Elaborate designs have gear assemblies that could be powered by electric, pneumatic, internal or hydraulic combustion drives. Several winches may consist of a mechanical brake or a solenoid brake or a ratchet and pawl device in order to stop it from unwinding unless the pawl is retracted.

Usually, the rope is stored on the winch. There is similar piece of equipment called a capstan which does not store the rope. In sailing, when a line is trimmed 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. Various winches have a cleat or stripper to maintain tension. These designs are referred to as "self-tailing" winches.

Normally, winches are utilized offstage as part of the mechanics so as to arrange backdrop in big theatrical shows. Many times the winches are really embedded in the stage floor and used so as to move big set pieces on and off stage.

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