

Forklift Winch

Winch for Forklift - A winch is a mechanical piece of equipment that specializes in winding up or letting out or winding out or pulling in the tension of a rope, wire cable, cable or a wire rope. In its most basic form it is made of a spool along with a connected hand crank. More complex winches are found at the heart of machines such as steam shovels, tow trucks and elevators. At times the spool can be known as the winch drum. Elaborate designs have gear assemblies that can be driven by electric, pneumatic, internal or hydraulic combustion drives. Various winches could include a solenoid brake or a mechanical brake or a pawl and ratchet device in order to prevent it from unwinding unless the pawl is retracted.

Normally, the rope is stored on the winch. There is a similar machine referred to as a capstan which does not store the rope. In sailing, when trimming a line on a sailboat, the crew member operates the winch handle using one hand while tailing the other to be able to maintain tension on the turns. Various winches have a stripper or cleat to maintain tension. These designs are referred to as "self-tailing" winches.

Often, winches are used offstage as part of the mechanics to move backdrop in large theatrical productions. Lots of times the winches are really embedded in the stage floor and utilized to move large set pieces off and on stage.

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