

Forklift Winch

Forklift Winch - A winch is a mechanical tool which 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 found at the heart of machines like steam shovels, tow trucks and elevators. Every now and then the spool could be called the winch drum. Complex designs have gear assemblies which could be driven by hydraulic, electric, pneumatic or internal combustion drives. Several winches may consist of a solenoid brake or a mechanical brake or a ratchet and pawl device so as to stop it from unwinding unless the pawl is retracted.

Generally, the rope or cable is stored on the winch, then again the capspan, a similar piece of equipment, does not store the rope. In sailing, when trimming a line on a sailboat, the crew member works the handle of the winch using one hand while tailing the other to be able to maintain tension on the turns. Some winches have a cleat or stripper so as to maintain tension. These designs are known as "self-tailing" winches.

Frequently, winches are used backstage as part of the mechanics to be able to move background in large theatrical productions. Many times the winches are really embedded in the stage floor and utilized to be able to move large set pieces off and on stage.

Recently, winches have been fabricated in particular designs for water and snow sports. This new generation of winches is designed so as to pull riders rapidly 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.