

Winch for Forklift

Forklift Winch - A winch is a mechanical piece of equipment 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 basic form it is constructed of a spool with an attached hand crank. More complicated winches are seen at the heart of machines like for instance elevators, steam shovels and tow trucks. At times the spool could be called the winch drum. Complex designs have gear assemblies which could be powered by internal, hydraulic, electric or pneumatic combustion drives. Various winches could include a solenoid brake or a mechanical brake or a ratchet and pawl apparatus so as to prevent it from unwinding unless the pawl is retracted.

Generally, the rope is stored on the winch. There is similar machinery known as a capstan that 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 to be able to maintain tension on the turns. Some winches have a stripper or cleat to be able to maintain tension. These designs are called "self-tailing" winches.

Frequently, winches are utilized backstage as part of the mechanics in order to move staging in big theatrical shows. Many times the winches are really embedded in the stage floor and used in order to move large set pieces on and off stage.

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