

Forklift Winch

Winch for Forklift - A winch is a mechanical piece of equipment which specializes in winding out or pulling in or winding up or letting out the tension of a wire rope, a rope, wire cable or a cable. In its most basic form it is made of a spool with an attached hand crank. More complicated winches are seen at the heart of machinery like for instance tow trucks, elevators and steam shovels. Sometimes the spool can be referred to as the winch drum. Complex designs have gear assemblies that can be driven by electric, pneumatic, internal or hydraulic combustion drives. Some winches can comprise a solenoid brake or a mechanical brake or a ratchet and pawl apparatus to be able to stop it from unwinding unless the pawl is retracted.

Usually, the rope is stored on the winch. There is similar machinery called a capstan which does not store the rope. In sailing, when trimming a line on a sailboat, the crew member works the winch handle with one hand while tending the other so as to maintain tension on the turns. Several winches have a stripper or cleat to be able to maintain tension. These designs are called "self-tailing" winches.

Frequently, winches are used offstage as part of the mechanics in order to transfer staging in large theatrical shows. Lots of times the winches are actually embedded in the stage floor and utilized so as to transfer 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 swiftly across a body of snow or of water. This can stimulate a riding experience which is normally supplied by a wave runner, boat or a snow mobile.