

Forklift Winch

Forklift Winches - Winches are mechanical devices which could wind out, or pull up the tension of a wire cable, cable, wire rope or a rope. These devices, in its most basic form, are made of a spool and a hand crank. More complicated winches are seen at the heart of machines like for example elevators, steam shovels and tow trucks. Sometimes the spool can be referred to as the winch drum. Complex designs have gear assemblies which can be driven by hydraulic, electric, pneumatic or internal combustion drives. Various winches may comprise a mechanical brake or a solenoid brake or a pawl and ratchet mechanism so as to stop it from unwinding unless the pawl is retracted.

Normally, the rope is stored on the winch. There is similar machine called a capstan that does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member works the winch handle utilizing one hand while tailing the other in order to maintain tension on the turns. Some winches have a stripper or cleat to be able to maintain tension. These designs are referred to as "self-tailing" winches.

Frequently, winches are used backstage as part of the mechanism so as to arrange background in big theatrical productions. Lots of times the winches are really embedded in the stage floor and used to be able to move big set pieces off and on stage.

Recently, winches have been made in specific designs for water and snow sports. This new generation of winches is designed to pull riders rapidly across a body of water or of snow. This can stimulate a riding experience that is usually supplied by a wave runner, boat or a snow mobile.