

Forklift Winch

Winches for Forklift - Winches are mechanical devices that could wind out, or pull up the tension of a wire rope, rope, wire cable or cable. 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 instance elevators, steam shovels and tow trucks. Sometimes the spool can be called the winch drum. Complex designs have gear assemblies that can be powered by electric, pneumatic, internal or hydraulic combustion drives. Some winches can include a mechanical brake or a solenoid brake or a pawl and ratchet apparatus 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 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 so as to maintain tension. These designs are known as "self-tailing" winches.

Usually, a winch is used in big theatrical shows as a part of the mechanics in order to transfer staging. Every now and then there are also winches really imbedded in the stage to be able to help move the various larger set pieces off and on the stage.

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