

Forklift Winch

Winches for Forklift - Winches are mechanical tools that can wind out, or pull up the tension of a wire rope, rope, wire cable or cable. These devices, in its most basic form, are constructed of a hand crank and a spool. More complex winches are seen at the heart of machines like for example elevators, steam shovels and tow trucks. Occasionally the spool could be known as the winch drum. Elaborate designs have gear assemblies which could be driven by hydraulic, electric, pneumatic or internal combustion drives. Several winches may consist of a mechanical brake or a solenoid brake or a pawl and ratchet device in order to stop it from unwinding unless the pawl is retracted.

Generally, the rope is stored on the winch. There is similar machinery called a capstan which does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member operates the handle of the winch utilizing one hand while tailing the other in order to maintain tension on the turns. Some winches have a cleat or stripper in order to maintain tension. These designs are known as "self-tailing" winches.

Quite often, a winch is used in large theatrical shows as a part of the mechanism in order to move backdrop. Occasionally there are also winches really imbedded in the stage in order to help move the many bigger set pieces off and on the stage.

The new generation of winches have been made for snow and water sports enabling the riders to be pulled swiftly across a body of snow or of water. This could stimulate a riding experience which is usually supplied by a boat, snow mobile or a wave runner.