

Forklift Winch

Forklift Winch - Winches are mechanical devices which can pull up or wind out the tension of a cable, wire rope, rope or a wire cable. These tools, in its most simple form, are constructed of a hand crank and a spool. More complicated winches are seen at the heart of machinery such as tow trucks, elevators and steam shovels. At times the spool can be referred to as the winch drum. Elaborate designs have gear assemblies that can be powered by electric, pneumatic, internal or hydraulic combustion drives. Various winches could consist of a mechanical brake or a solenoid brake or a pawl and ratchet apparatus in order to stop it from unwinding unless the pawl is retracted.

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

Usually, a winch is utilized in big theatrical shows as a part of the mechanics in order to transfer background. Occasionally there are also winches actually imbedded in the stage so as to help move the various larger set pieces on and off the stage.

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