

Forklift Winches

Forklift Winches - A winch is a mechanical tool that specializes in winding out or pulling in or winding up or letting out the tension of a cable, wire rope, rope or a wire cable. In its most basic form it is made of a spool with a connected hand crank. More complex winches are found at the heart of machines such as elevators, steam shovels and tow trucks. At times the spool can be called the winch drum. Complex designs have gear assemblies which can be driven by internal, hydraulic, electric or pneumatic combustion drives. Some winches may comprise 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.

Most often, the cable or rope is stored on the winch, however the capspan, a similar machinery, does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member operates the winch handle making use of one hand while tailing the other so as to maintain tension on the turns. Several winches have a cleat or stripper to maintain tension. These designs are called "self-tailing" winches.

Normally, winches are utilized backstage as part of the mechanics to be able to arrange scenery in large theatrical shows. Lots of times the winches are actually embedded in the stage floor and used to be able to move big set pieces off and on stage.

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