

Forklift Winch

Forklift Winch - Winches are mechanical tools which are able to pull up or wind out the tension of a cable, wire rope, rope or a wire cable. These devices, in its most basic form, are made of a spool and a hand crank. More complex winches are found at the heart of machinery like for instance steam shovels, tow trucks and elevators. Sometimes the spool can be known as the winch drum. Complex designs have gear assemblies which could be driven by internal, hydraulic, electric or pneumatic combustion drives. Several winches can include a solenoid brake or a mechanical brake or a ratchet and pawl apparatus so as to prevent 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 trimming a line 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. Some winches have a cleat or stripper to be able to maintain tension. These designs are called "self-tailing" winches.

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

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