

Winches for Forklift

Forklift Winch - Winches are mechanical devices that are able to wind out, or pull up the tension of a wire rope, rope, wire cable or cable. These tools, in its most simple form, are made of a spool and a hand crank. More complex winches are seen at the heart of machines like tow trucks, elevators and steam shovels. Occasionally the spool can be called the winch drum. Complex designs have gear assemblies that could be powered by pneumatic, internal, hydraulic or electric combustion drives. Various winches can include a solenoid brake or a mechanical brake or a pawl and ratchet mechanism in order to prevent it from unwinding unless the pawl is retracted.

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

Normally, winches are used backstage as part of the mechanics so as to transfer staging in large theatrical shows. Lots of times the winches are really embedded in the stage floor and used so as to transfer huge set pieces on and off stage.

Lately, winches have been fabricated in specific designs for snow and water 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 typically supplied by a wave runner, boat or a snow mobile.