

Winches for Forklift

Forklift Winches - Winches are mechanical devices which could wind out, or pull up the tension of a cable, wire rope, rope or a wire 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 such as elevators, steam shovels and tow trucks. Sometimes the spool could be called the winch drum. Complex designs have gear assemblies which could be powered by hydraulic, electric, pneumatic or internal combustion drives. Several winches could comprise 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.

Commonly, the rope or cable is stored on the winch, nevertheless the capspan, a similar piece of equipment, does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member operates the handle of the winch with one hand while tailing the other to be able to maintain tension on the turns. Various winches have a stripper or cleat to maintain tension. These designs are referred to as "self-tailing" winches.

Frequently, a winch is used in big theatrical productions as a part of the mechanism to move background. At times there are also winches actually imbedded in the stage to help transfer the many bigger set pieces on and off the stage.

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