

Winches for Forklift

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

Normally, the rope is stored on the winch. There is similar piece of equipment known as a capstan that does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member operates the winch handle using one hand while tailing the other in order 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.

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

The new generation of winches have been created for snow and water sports enabling the riders to be pulled quickly across a body of water or of snow. This can stimulate a riding experience which is typically supplied by a snow mobile, wave runner or a boat.