

Forklift Winch

Forklift Winches - Winches are mechanical devices that could pull up or wind out the tension of a wire rope, rope, wire cable or cable. These devices, in its most simple form, are made of a hand crank and a spool. More complicated winches are found at the heart of machinery like for example steam shovels, tow trucks and elevators. Occasionally the spool could be known as the winch drum. Elaborate designs have gear assemblies which can be powered by electric, pneumatic, internal or hydraulic combustion drives. Several winches can consist of a solenoid brake or a mechanical brake or a pawl and ratchet device to be able to stop it from unwinding unless the pawl is retracted.

Normally, 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 operates the handle of the winch with 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 referred to as "self-tailing" winches.

Frequently, winches are used backstage as part of the mechanism to move scenery in big theatrical shows. Lots of times the winches are really embedded in the stage floor and used to transfer huge set pieces off and on stage.

Lately, winches have been made in certain designs for snow and water sports. This new generation of winches is designed so as to pull riders quickly across a body of water or of snow. This could stimulate a riding experience which is normally supplied by a wave runner, boat or a snow mobile.