

Forklift Winches

Forklift Winch - Winches are mechanical devices which 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 constructed of a spool and a hand crank. More complex winches are seen at the heart of machinery such as steam shovels, tow trucks and elevators. Every so often the spool could be called the winch drum. Elaborate designs have gear assemblies that could be driven by pneumatic, internal, hydraulic or electric combustion drives. Various winches could include a mechanical brake or a solenoid brake or a ratchet and pawl device in order to prevent it from unwinding unless the pawl is retracted.

Usually, the rope is stored on the winch. There is similar machine referred to 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. Several winches have a cleat or stripper to maintain tension. These designs are called "self-tailing" winches.

Normally, winches are used offstage as part of the mechanism to be able to arrange staging in large theatrical productions. Lots of times the winches are really embedded in the stage floor and used in order to move large set pieces on and off stage.

The new generation of winches have been made for snow and water sports enabling the riders to be pulled 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.