

Forklift Winch

Forklift Winch - A winch is a mechanical tool that specializes in winding up or letting out or winding out or pulling in the tension of a rope, wire cable, cable or a wire rope. In its most simple form it is made of a spool along with an attached hand crank. More complicated winches are seen at the heart of machines like for instance steam shovels, tow trucks and elevators. Every so often the spool could be referred to as the winch drum. Complex designs have gear assemblies that can be powered by hydraulic, electric, pneumatic or internal combustion drives. Various winches can consist of a solenoid brake or a mechanical brake or a ratchet and pawl mechanism so as to stop it from unwinding unless the pawl is retracted.

Usually, the rope is stored on the winch. There is a 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 handle of the winch utilizing one hand while tailing the other to be able to maintain tension on the turns. Various winches have a cleat or stripper to be able to maintain tension. These designs are referred to as "self-tailing" winches.

Frequently, winches are used backstage as part of the mechanism in order to arrange background in large theatrical productions. A lot of times the winches are actually embedded in the stage floor and used in order to transfer large set pieces on and off stage.

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