

Forklift Winch

Forklift Winch - Winches are mechanical tools 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 made of a spool and a hand crank. More complex winches are found at the heart of machinery like steam shovels, tow trucks and elevators. Occasionally the spool could be referred to as the winch drum. Complex designs have gear assemblies that could be driven by electric, pneumatic, internal or hydraulic combustion drives. Some winches may consist of a solenoid brake or a mechanical brake or a pawl and ratchet mechanism in order to stop it from unwinding unless the pawl is retracted.

Generally, 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 trimming a line on a sailboat, the crew member operates the winch handle using one hand while tailing the other to be able to maintain tension on the turns. Various winches have a cleat or stripper to maintain tension. These designs are called "self-tailing" winches.

Normally, winches are used backstage as part of the mechanism to be able to arrange staging in big theatrical shows. A lot of times the winches are actually embedded in the stage floor and used so as to transfer large set pieces on and off stage.

Recently, winches have been made in certain designs for snow and water sports. This new generation of winches is designed to be able to pull riders swiftly across a body of snow or of water. This can stimulate a riding experience which is normally supplied by a boat, snow mobile or a wave runner.