

Forklift Winch

Forklift Winch - Winches are mechanical tools that could wind out, or pull up the tension of a wire cable, cable, wire rope or a rope. These tools, in its most simple form, are constructed of a hand crank and a spool. More complicated winches are found at the heart of machines like steam shovels, tow trucks and elevators. Every so often the spool can be known as the winch drum. Elaborate designs have gear assemblies which can be driven by pneumatic, internal, hydraulic or electric combustion drives. Some winches can include a mechanical brake or a solenoid brake or a pawl and ratchet mechanism to be able to prevent it from unwinding unless the pawl is retracted.

Most often, the cable or rope is stored on the winch, nevertheless the capspan, a similar machine, does not store the rope. In sailing, when trimming a line on a sailboat, the crew member works the winch handle using one hand while tailing the other to be able to maintain tension on the turns. Some winches have a stripper or cleat so as to maintain tension. These designs are called "self-tailing" winches.

Normally, winches are used offstage as part of the mechanism to arrange background in big theatrical shows. A lot of times the winches are actually embedded in the stage floor and used to transfer big set pieces on and off stage.

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