

## Winch for Forklift

Forklift Winch - A winch is a mechanical device that specializes in letting out, or winding out or pulling in or winding up the tension of a wire cable, cable, wire rope or a rope. In its most simple form it is constructed of a spool with a connected hand crank. More complicated winches are found at the heart of machines such as tow trucks, elevators and steam shovels. Occasionally the spool can be referred to as the winch drum. Elaborate designs have gear assemblies that can be powered by hydraulic, electric, pneumatic or internal combustion drives. Some winches can comprise a solenoid brake or a mechanical brake or a pawl and ratchet device to be able to prevent it from unwinding unless the pawl is retracted.

Normally, the rope is stored on the winch. There is a 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 works the handle of the winch making use of one hand while tailing the other to be able 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.

Normally, winches are used offstage as part of the mechanism so as to arrange backdrop in large theatrical productions. Many times the winches are actually embedded in the stage floor and utilized to be able to move huge set pieces off and on stage.

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