

## Forklift Winches

Forklift Winch - A winch is a mechanical piece of equipment that specializes in pulling in or winding up or letting out or winding out the tension of a wire rope, a rope, wire cable or a cable. In its most basic form it is made of a spool with a connected hand crank. More complex winches are found at the heart of machines like elevators, steam shovels and tow trucks. At times the spool can be called the winch drum. Complex designs have gear assemblies that can be driven by hydraulic, electric, pneumatic or internal combustion drives. Several winches could comprise a mechanical brake or a solenoid brake or a ratchet and pawl apparatus so as to prevent it from unwinding unless the pawl is retracted.

Generally, the cable or rope is stored on the winch, nevertheless the capspan, a similar piece of equipment, does not store the rope. In sailing, when trimming a line on a sailboat, the crew member operates the handle of the winch with one hand while tailing the other to be able to maintain tension on the turns. Some winches have a stripper or cleat to be able to maintain tension. These designs are referred to as "self-tailing" winches.

Frequently, a winch is used in huge theatrical productions as a part of the mechanism so as to transfer backdrop. Every so often there are even winches really imbedded in the stage so as to help transfer the many larger set pieces on and off the 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 which is normally supplied by a snow mobile, wave runner or a boat.