

## Forklift Winches

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

Normally, the rope is stored on the winch. There is similar machine known as a capstan which 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 so as to maintain tension on the turns. Some winches have a cleat or stripper so as to maintain tension. These designs are known as "self-tailing" winches.

Frequently, a winch is utilized in large theatrical shows as a part of the mechanics to be able to move scenery. Every so often there are also winches really imbedded in the stage to be able to help move the several larger set pieces on and off the stage.

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