

Forklift Winch

Forklift Winch - A winch is a mechanical device which specializes in winding out or pulling in or winding up or letting out the tension of a wire rope, a rope, wire cable or a cable. In its most simple form it is made of a spool along with a connected hand crank. More complex winches are found at the heart of machines like for instance elevators, steam shovels and tow trucks. Every so often the spool could be called the winch drum. Elaborate designs have gear assemblies which could be driven by electric, pneumatic, internal or hydraulic combustion drives. Several winches may comprise a solenoid brake or a mechanical brake or a ratchet and pawl device to be able to prevent it from unwinding unless the pawl is retracted.

Commonly, the rope or cable is stored on the winch, however the capspan, a similar piece of equipment, does not store the rope. In sailing, when trimming a line 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. Some winches have a stripper or cleat to be able to maintain tension. These designs are called "self-tailing" winches.

Normally, winches are utilized offstage as part of the mechanics to arrange background in large theatrical productions. Lots of times the winches are actually embedded in the stage floor and used in order 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 swiftly across a body of water or of snow. This could stimulate a riding experience that is typically supplied by a wave runner, boat or a snow mobile.