

Winch for Forklift

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

Commonly, the rope or cable is stored on the winch, nevertheless the capstan, a similar piece of equipment, does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member works the handle of the winch utilizing one hand while tailing the other so as to maintain tension on the turns. Several winches have a cleat or stripper to be able to maintain tension. These designs are referred to as "self-tailing" winches.

Frequently, winches are utilized offstage as part of the mechanics in order to transfer setting in big theatrical productions. Many times the winches are actually embedded in the stage floor and used in order to move huge 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 boat, snow mobile or a wave runner.