

Forklift Winches

Winch for Forklift - Winches are mechanical devices which can pull up or wind out the tension of a wire cable, cable, wire rope or a rope. These tools, in its most basic form, are made of a hand crank and a spool. More complex winches are found at the heart of machines such as steam shovels, tow trucks and elevators. At times the spool could be known as the winch drum. Complex designs have gear assemblies that can be driven by pneumatic, internal, hydraulic or electric combustion drives. Several winches may consist of a solenoid brake or a mechanical brake or a pawl and ratchet apparatus in order to prevent it from unwinding unless the pawl is retracted.

Generally, the rope or cable is stored on the winch, then again the capspan, a similar machinery, does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member works the handle of the winch with one hand while tailing the other to be able to maintain tension on the turns. Various winches have a stripper or cleat to be able to maintain tension. These designs are known as "self-tailing" winches.

Quite often, a winch is used in huge theatrical shows as a part of the mechanics in order to transfer staging. Every now and then there are even winches actually imbedded in the stage in order to help transfer the various larger set pieces off and on the stage.

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