

Forklift Winches

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

Generally, the rope is stored on the winch. There is similar piece of equipment called a capstan that does not store the rope. In sailing, when trimming a line on a sailboat, the crew member operates the winch handle using one hand while tailing the other in order to maintain tension on the turns. Various winches have a cleat or stripper to be able to maintain tension. These designs are known as "self-tailing" winches.

Frequently, winches are used offstage as part of the mechanism so as to transfer background in big theatrical shows. A lot of times the winches are actually embedded in the stage floor and used to be able to transfer big set pieces on and off stage.

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