

Winch for Forklift

Forklift Winch - A winch is a mechanical piece of equipment that specializes in winding out or pulling in or winding up or letting out the tension of a rope, wire cable, cable or a wire rope. In its most simple form it is constructed of a spool along with an attached hand crank. More complex winches are seen at the heart of machinery like for example steam shovels, tow trucks and elevators. Sometimes the spool can be called the winch drum. Complex designs have gear assemblies which could be powered by pneumatic, internal, hydraulic or electric combustion drives. Various winches may consist of a mechanical brake or a solenoid brake or a pawl and ratchet apparatus in order to stop it from unwinding unless the pawl is retracted.

Generally, the rope is stored on the winch. There is a 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 works the winch handle making use of one hand while tailing the other in order to maintain tension on the turns. Various winches have a stripper or cleat to maintain tension. These designs are called "self-tailing" winches.

Frequently, winches are utilized backstage as part of the mechanics so as to transfer setting in large theatrical shows. A lot of times the winches are really embedded in the stage floor and used to be able to transfer huge set pieces off and on stage.

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