

Forklift Winch

Forklift Winch - A winch is a mechanical device which specializes in letting out, or winding out or pulling in or winding up the tension of a wire rope, a rope, wire cable or a cable. In its most simple form it is constructed of a spool along with a connected hand crank. More complicated winches are seen at the heart of machines such as tow trucks, elevators and steam shovels. Sometimes the spool can be referred to as the winch drum. Complex designs have gear assemblies that could be driven by hydraulic, electric, pneumatic or internal combustion drives. Some winches could comprise a mechanical brake or a solenoid brake or a ratchet and pawl apparatus to be able to stop it from unwinding unless the pawl is retracted.

Most often, the cable or rope is stored on the winch, nevertheless the capstan, a similar machinery, does not store the rope. In sailing, when trimming a line on a sailboat, the crew member works the winch handle utilizing one hand while tailing the other in order to maintain tension on the turns. Various winches have a cleat or stripper in order to maintain tension. These designs are called "self-tailing" winches.

Frequently, winches are utilized offstage as part of the mechanism to be able to move staging in large theatrical shows. A lot of times the winches are really embedded in the stage floor and used to transfer big set pieces on and off stage.

Recently, winches have been fabricated in particular designs for water and snow sports. This new generation of winches is designed so as to pull riders quickly across a body of snow or of water. This can stimulate a riding experience that is typically supplied by a wave runner, boat or a snow mobile.