

Forklift Winch

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

Normally, the rope is stored on the winch. There is similar piece of equipment known as a capstan which does not store the rope. In sailing, when a line is trimmed 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. Several winches have a stripper or cleat to maintain tension. These designs are known as "self-tailing" winches.

Often, winches are used backstage as part of the mechanics so as to arrange setting in large theatrical shows. Lots of times the winches are actually embedded in the stage floor and used so as to move large set pieces off and on stage.

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