

Forklift Winch

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

Most often, the cable or rope is stored on the winch, however the capspan, a similar machinery, 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 so as to maintain tension on the turns. Some winches have a stripper or cleat so as to maintain tension. These designs are called "self-tailing" winches.

Frequently, winches are used offstage as part of the mechanism to arrange background in large theatrical shows. Many times the winches are really embedded in the stage floor and utilized to move large set pieces off and on stage.

Recently, winches have been made in certain designs for snow and water sports. This new generation of winches is designed in order to pull riders swiftly across a body of snow or of water. This could stimulate a riding experience which is normally supplied by a boat, snow mobile or a wave runner.