

Forklift Winch

Forklift Winches - A winch is a mechanical device 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 made of a spool with a connected hand crank. More complex winches are seen at the heart of machines such as elevators, steam shovels and tow trucks. Occasionally the spool can be called the winch drum. Complex designs have gear assemblies which could be driven by internal, hydraulic, electric or pneumatic combustion drives. Some winches may consist of a solenoid brake or a mechanical brake or a pawl and ratchet mechanism in order to prevent it from unwinding unless the pawl is retracted.

Commonly, the cable or rope is stored on the winch, however the capspan, a similar machine, does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member works the handle of the winch using 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.

Frequently, a winch is utilized in large theatrical shows as a part of the mechanism to be able to transfer staging. At times there are also winches actually imbedded in the stage to be able to help move the many bigger set pieces on and off the stage.

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