

Forklift Winches

Forklift Winches - Winches are mechanical tools that are able to wind out, or pull up the tension of a cable, wire rope, rope or a wire cable. These tools, in its most simple form, are made of a spool and a hand crank. More complex winches are seen at the heart of machines like for instance steam shovels, tow trucks and elevators. Occasionally the spool could be known as the winch drum. Elaborate designs have gear assemblies that can be powered by electric, pneumatic, internal or hydraulic combustion drives. Some winches may consist of a solenoid brake or a mechanical brake or a ratchet and pawl mechanism in order to prevent it from unwinding unless the pawl is retracted.

Usually, the rope is stored on the winch. There is similar machinery 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 utilizing one hand while tailing the other so as to maintain tension on the turns. Some winches have a stripper or cleat to maintain tension. These designs are known as "self-tailing" winches.

Quite often, a winch is utilized in big theatrical shows as a part of the mechanics so as to move staging. Every so often there are even winches really imbedded in the stage in order to help transfer the several larger set pieces off and on the stage.

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