

Winch for Forklift

Winches for Forklift - A winch is a mechanical tool that specializes in winding out or pulling in or winding up or letting out the tension of a wire cable, cable, wire rope or a rope. In its most simple form it is constructed of a spool with a connected hand crank. More complicated winches are found at the heart of machinery such as steam shovels, tow trucks and elevators. At times the spool can be called the winch drum. Complex designs have gear assemblies that could be powered by electric, pneumatic, internal or hydraulic combustion drives. Some winches can comprise a mechanical brake or a solenoid brake or a ratchet and pawl device to be able to prevent it from unwinding unless the pawl is retracted.

Usually, the rope is stored on the winch. There is similar machinery called a capstan that does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member works the winch handle using one hand while tending the other in order to maintain tension on the turns. Various winches have a stripper or cleat to maintain tension. These designs are referred to as "self-tailing" winches.

Frequently, a winch is used in large theatrical shows as a part of the mechanics to be able to move setting. Every now and then there are even winches actually imbedded in the stage to help move the many bigger set pieces off and on the stage.

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