

Winches 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 made of a spool with an attached hand crank. More complicated winches are seen at the heart of machinery like tow trucks, elevators and steam shovels. Every so often the spool could be known as the winch drum. Complex designs have gear assemblies that can be driven by hydraulic, electric, pneumatic or internal combustion drives. Some winches can consist of a solenoid brake or a mechanical brake or a ratchet and pawl device so as to stop it from unwinding unless the pawl is retracted.

Generally, the rope is stored on the winch. There is a similar machine referred to as a capstan that does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member operates the handle of the winch with one hand while tending the other to be able to maintain tension on the turns. Various winches have a cleat or stripper in order to maintain tension. These designs are known as "self-tailing" winches.

Usually, a winch is used in huge theatrical productions as a part of the mechanics to move staging. At times there are even winches really imbedded in the stage to help transfer the several bigger set pieces off and on the stage.

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