

Winches for Forklift

Forklift Winch - A winch is a mechanical piece of equipment which specializes in letting out, or winding out or pulling in or winding up the tension of a wire rope, a rope, wire cable or a cable. In its most basic form it is constructed of a spool with an attached hand crank. More complicated winches are seen at the heart of machines such as tow trucks, elevators and steam shovels. At times the spool could be referred to as the winch drum. Elaborate designs have gear assemblies that could be driven by hydraulic, electric, pneumatic or internal combustion drives. Several winches could consist of a mechanical brake or a solenoid brake or a ratchet and pawl mechanism in order to prevent it from unwinding unless the pawl is retracted.

Generally, the rope is stored on the winch. There is similar piece of equipment referred to as a capstan which does not store the rope. In sailing, when trimming a line on a sailboat, the crew member works the handle of the winch utilizing one hand while tailing the other to be able to maintain tension on the turns. Several winches have a cleat or stripper to maintain tension. These designs are called "self-tailing" winches.

Frequently, a winch is used in large theatrical shows as a part of the mechanism to be able to move setting. Every so often there are even winches really imbedded in the stage in order to help transfer the several bigger set pieces off and on the stage.

The new generation of winches have been created for snow and water sports allowing the riders to be pulled quickly across a body of snow or of water. This could stimulate a riding experience that is normally supplied by a snow mobile, wave runner or a boat.