

Winches for Forklift

Forklift Winch - A winch is a mechanical device which specializes in winding up or letting out or winding out or pulling in the tension of a rope, wire cable, cable or a wire rope. In its most simple form it is constructed of a spool with a connected hand crank. More complex winches are found at the heart of machinery such as steam shovels, tow trucks and elevators. Occasionally the spool could be known as the winch drum. Elaborate designs have gear assemblies which can be powered by hydraulic, electric, pneumatic or internal combustion drives. Various winches may consist of 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.

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

Frequently, a winch is utilized in huge theatrical shows as a part of the mechanics in order to move setting. Occasionally there are also winches actually imbedded in the stage to help move the various larger set pieces on and off the stage.

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