

Winch for Forklift

Forklift Winch - A winch is a mechanical piece of equipment that specializes in winding up or letting out or winding out or pulling in the tension of a wire cable, cable, wire rope or a rope. In its most basic form it is made of a spool together with an attached hand crank. More complicated winches are found at the heart of machinery like for example tow trucks, elevators and steam shovels. Every now and then the spool could be known as the winch drum. Complex designs have gear assemblies which can be powered by electric, pneumatic, internal or hydraulic combustion drives. Various winches could comprise a mechanical brake or a solenoid brake or a pawl and ratchet 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 known 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 using one hand while tailing the other to be able to maintain tension on the turns. Some winches have a stripper or cleat to maintain tension. These designs are referred to as "self-tailing" winches.

Quite often, a winch is used in huge theatrical productions as a part of the mechanics so as to move backdrop. Occasionally there are also winches actually imbedded in the stage to be able to help move the various bigger set pieces off and on the stage.

Recently, winches have been made in particular designs for water and snow sports. This new generation of winches is designed so as to pull riders swiftly 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.