

Winch for Forklift

Winch for Forklift - A winch is a mechanical device 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 along with a connected hand crank. More complex winches are found at the heart of machines such as tow trucks, elevators and steam shovels. Every so often the spool could be called the winch drum. Elaborate designs have gear assemblies which can be powered by hydraulic, electric, pneumatic or internal combustion drives. Several winches may include a mechanical brake or a solenoid brake or a pawl and ratchet device so as to prevent it from unwinding unless the pawl is retracted.

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

Usually, a winch is used in big theatrical shows as a part of the mechanism in order to move staging. Every so often there are also winches actually imbedded in the stage to help transfer the many larger 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 swiftly across a body of water or of snow. This can stimulate a riding experience which is normally supplied by a snow mobile, wave runner or a boat.