

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 cable, wire rope, rope or a wire cable. In its most basic form it is constructed of a spool together with a connected hand crank. More complicated winches are seen at the heart of machinery such as elevators, steam shovels and tow trucks. At times the spool can be known as the winch drum. Complex designs have gear assemblies that could be powered by electric, pneumatic, internal or hydraulic combustion drives. Some winches could include a solenoid brake or a mechanical brake or a ratchet and pawl apparatus in order to prevent it from unwinding unless the pawl is retracted.

Generally, the rope is stored on the winch. There is similar machinery called 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 with one hand while tending the other so as to maintain tension on the turns. Some winches have a cleat or stripper to maintain tension. These designs are referred to as "self-tailing" winches.

Frequently, a winch is utilized in big theatrical shows as a part of the mechanism so as to move staging. At times there are even winches actually imbedded in the stage in order to help transfer the many bigger set pieces off and on the stage.

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