

Winches for Forklift

Winches for Forklift - Winches are mechanical devices which can pull up or wind out the tension of a wire rope, rope, wire cable or cable. These tools, in its most basic form, are constructed of a hand crank and a spool. More complex winches are found at the heart of machines such as tow trucks, elevators and steam shovels. Sometimes the spool can be known as the winch drum. Complex designs have gear assemblies which can be powered by electric, pneumatic, internal or hydraulic combustion drives. Some winches may include a solenoid brake or a mechanical brake or a pawl and ratchet mechanism to be able to prevent it from unwinding unless the pawl is retracted.

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

Quite often, a winch is utilized in huge theatrical productions as a part of the mechanics to transfer staging. Every so often there are even winches actually imbedded in the stage so as to help transfer the several larger set pieces on and off the stage.

The new generation of winches have been created for water and snow sports enabling the riders to be pulled quickly 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.