

Winch for Forklift

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

Usually, the rope is stored on the winch. There is a similar machine referred to as a capstan that does not store the rope. In sailing, when trimming a line on a sailboat, the crew member operates the handle of the winch with one hand while tending the other in order to maintain tension on the turns. Various winches have a cleat or stripper so as to maintain tension. These designs are called "self-tailing" winches.

Normally, winches are utilized offstage as part of the mechanism so as to transfer backdrop in large theatrical shows. Many times the winches are really embedded in the stage floor and utilized to be able to move huge set pieces off and on stage.

The new generation of winches have been made for snow and water sports enabling the riders to be pulled quickly across a body of snow or of water. This can stimulate a riding experience that is usually supplied by a snow mobile, wave runner or a boat.