

Winches for Forklift

Forklift Winch - Winches are mechanical tools which are able to pull up or wind out the tension of a wire rope, rope, wire cable or cable. These devices, in its most simple form, are constructed of a hand crank and a spool. More complex winches are seen at the heart of machines like for example steam shovels, tow trucks and elevators. Every so often the spool can be called the winch drum. Complex designs have gear assemblies which can be driven by internal, hydraulic, electric or pneumatic combustion drives. Various winches may consist of a solenoid brake or a mechanical brake or a ratchet and pawl mechanism to be able to stop it from unwinding unless the pawl is retracted.

Usually, the rope is stored on the winch. There is similar machine known 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 making use of one hand while tailing the other so as to maintain tension on the turns. Some winches have a stripper or cleat to maintain tension. These designs are called "self-tailing" winches.

Quite often, a winch is used in huge theatrical shows as a part of the mechanism so as to move scenery. At times there are likewise winches really imbedded in the stage in order to help transfer the various larger set pieces on and off the stage.

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