

Winch for Forklift

Forklift Winch - A winch is a mechanical tool that specializes in winding up or letting out or winding out or pulling in the tension of a wire rope, a rope, wire cable or a cable. In its most basic form it is constructed of a spool along with a connected hand crank. More complex winches are seen at the heart of machinery like for instance steam shovels, tow trucks and elevators. Every so often the spool could be called the winch drum. Complex designs have gear assemblies that could be powered by internal, hydraulic, electric or pneumatic combustion drives. Various winches may comprise a mechanical brake or a solenoid brake or a ratchet and pawl apparatus so as to stop it from unwinding unless the pawl is retracted.

Normally, the rope is stored on the winch. There is similar piece of equipment referred to as a capstan which does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member operates the handle of the winch using one hand while tailing the other so as to maintain tension on the turns. Various winches have a stripper or cleat so as to maintain tension. These designs are referred to as "self-tailing" winches.

Quite often, a winch is used in big theatrical productions as a part of the mechanism to be able to transfer scenery. Every now and then there are also winches actually imbedded in the stage to be able to help move the many bigger set pieces on and off 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 could stimulate a riding experience which is usually supplied by a snow mobile, wave runner or a boat.