

Winches for Forklift

Forklift Winch - A winch is a mechanical tool which specializes in letting out, or winding out or pulling in or winding up the tension of a rope, wire cable, cable or a wire rope. In its most simple form it is made of a spool along with an attached hand crank. More complex winches are found at the heart of machinery such as elevators, steam shovels and tow trucks. Sometimes the spool could be known as the winch drum. Elaborate designs have gear assemblies which could be driven by pneumatic, internal, hydraulic or electric combustion drives. Various winches may include a mechanical brake or a solenoid brake or a ratchet and pawl device in order to stop it from unwinding unless the pawl is retracted.

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

Frequently, winches are used offstage as part of the mechanics to arrange setting in large theatrical productions. Many times the winches are actually embedded in the stage floor and utilized in order to transfer big set pieces off and on stage.

Recently, winches have been made in certain designs for snow and water sports. This new generation of winches is designed in order to pull riders quickly across a body of water or of snow. This could stimulate a riding experience that is usually supplied by a snow mobile, wave runner or a boat.