

Winches for Forklift

Forklift Winch - A winch is a mechanical piece of equipment 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 together with an attached hand crank. More complicated winches are found at the heart of machinery such as steam shovels, tow trucks and elevators. At times the spool can be referred to as the winch drum. Elaborate designs have gear assemblies which can be driven by hydraulic, electric, pneumatic or internal combustion drives. Various winches may comprise a solenoid brake or a mechanical brake or a ratchet and pawl apparatus in order to prevent it from unwinding unless the pawl is retracted.

Generally, the rope is stored on the winch. There is similar machinery called 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 with one hand while tending the other so as to maintain tension on the turns. Various winches have a stripper or cleat to maintain tension. These designs are known as "self-tailing" winches.

Frequently, winches are utilized backstage as part of the mechanism to be able to arrange backdrop in large theatrical productions. A lot of times the winches are actually embedded in the stage floor and used in order to move huge set pieces off and on stage.

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