

Forklift Winches

Forklift Winches - Winches are mechanical devices which are able to pull up or wind out the tension of a wire cable, cable, wire rope or a rope. These tools, in its most simple form, are constructed of a hand crank and a spool. More complex winches are found at the heart of machinery like for example tow trucks, elevators and steam shovels. Every now and then 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 pawl and ratchet device in order to prevent it from unwinding unless the pawl is retracted.

Usually, the rope is stored on the winch. There is similar piece of equipment 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 making use of one hand while tailing the other to be able to maintain tension on the turns. Various winches have a cleat or stripper 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 staging. Occasionally there are likewise winches actually imbedded in the stage so as to help transfer the many bigger set pieces off and on the stage.

Lately, winches have been fabricated in specific designs for water and snow sports. This new generation of winches is designed so as to pull riders rapidly across a body of water or of snow. This could stimulate a riding experience which is typically supplied by a boat, snow mobile or a wave runner.