

Forklift Winches

Forklift Winch - A winch is a mechanical piece of equipment that specializes in letting out, or winding out or pulling in or winding up the tension of a wire rope, a rope, wire cable or a cable. In its most basic form it is made of a spool along with a connected hand crank. More complex winches are seen at the heart of machines such as elevators, steam shovels and tow trucks. Every now and then the spool can be referred to as the winch drum. Complex designs have gear assemblies that could be driven by internal, hydraulic, electric or pneumatic combustion drives. Several winches may include a mechanical brake or a solenoid brake or a ratchet and pawl apparatus in order to stop it from unwinding unless the pawl is retracted.

Normally, the rope is stored on the winch. There is similar machinery known 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 with one hand while tailing the other to be able to maintain tension on the turns. Some winches have a stripper or cleat to be able to maintain tension. These designs are known as "self-tailing" winches.

Usually, a winch is used in huge theatrical shows as a part of the mechanics so as to transfer backdrop. Sometimes there are even winches really imbedded in the stage so as to help transfer the several bigger set pieces off and on the stage.

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