

## Forklift Winch

Forklift Winch - A winch is a mechanical device which 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 an attached hand crank. More complex winches are found at the heart of machines like tow trucks, elevators and steam shovels. Sometimes the spool could be referred to as the winch drum. Elaborate designs have gear assemblies which can be powered by internal, hydraulic, electric or pneumatic combustion drives. Various winches could include a mechanical brake or a solenoid brake or a ratchet and pawl apparatus to be able to prevent 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 works the handle of the winch with one hand while tailing the other in order to maintain tension on the turns. Some winches have a cleat or stripper so as to maintain tension. These designs are referred to as "self-tailing" winches.

Frequently, a winch is utilized in huge theatrical shows as a part of the mechanics to be able to transfer setting. Occasionally there are even winches actually imbedded in the stage so as to help transfer the many bigger set pieces off and on the stage.

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