

## Winch for Forklift

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 constructed of a spool along with an attached hand crank. More complex winches are found at the heart of machines like steam shovels, tow trucks and elevators. Sometimes the spool could be referred to as the winch drum. Complex designs have gear assemblies which could be powered by pneumatic, internal, hydraulic or electric combustion drives. Several winches may comprise a solenoid brake or a mechanical brake or a ratchet and pawl apparatus so as to prevent it from unwinding unless the pawl is retracted.

Normally, the rope is stored on the winch. There is similar piece of equipment referred to as a capstan that does not store the rope. In sailing, when a line is trimmed on a sailboat, the crew member operates the winch handle utilizing 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 known as "self-tailing" winches.

Quite often, a winch is utilized in large theatrical shows as a part of the mechanics to transfer scenery. At times there are likewise winches really imbedded in the stage in order to help move the many larger set pieces on and off the stage.

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