

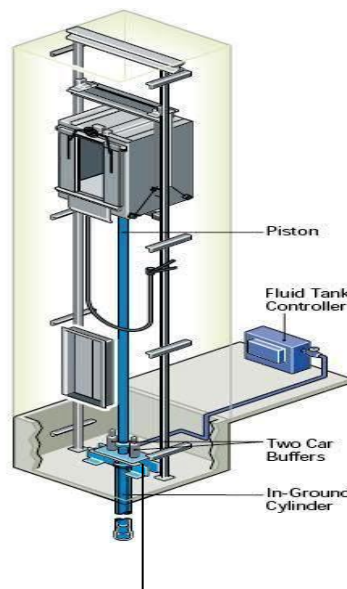
## Application of Rotary Encoder in Elevator

An elevator is a type of vertical transportation that moves up and down, carrying heavy load or goods or people. It is very useful for us to move up and down in a building.

**Working** : Elevator is a metal box in different shapes which is connected to a very tough metal rope. The tough metal rope passes through a sheave on the elevator in the engine room. Here a sheave is like a wheel in pulley system for clutching the metal rope strongly. This system can be operated by a motor. When the switch is turned ON, the motor can be activated when the elevator goes up and down or stops. The elevator can be constructed with various elevator Components or elevator parts that mainly include speed controlling system, electric motor, rails, cabin, shaft, doors (manual and automatic), drive unit, buffers, and safety device.

**Rotary encoders** are used in passenger elevator applications to reliably detect the position of the elevator cab, get feedback from the elevator drive, make speed checks on the elevator system, and monitor speed limiters.

**Incremental & Absolute Rotary encoders** provide reliability and accuracy in determining the position and speed of travel of the elevator.



**Incremental & Absolute Encoder**