

# MICROLINE MODEL ESCALATOR

Microline Model Escalator is designed for the purpose of demonstration in educational institution

Escalators are a form of vertical building transportation designed as a [staircase](#) that moves with the assistance of a motor-driven mechanism. Escalators are used to connect floors with an angle of rise between 30°-35°. The entire length of an escalator must also provide enough space for a lower zone of mechanical equipment along with a structural truss that averages around 3'8" (1.12 m) deep. Both ends of an escalator require structural supports and may also require intermediate supports depending on the length of the run.



## Details Specifications

**Angle of Rise:** 30°-35°

**Height of Escalator :** 2.7m

**Step size :** 600 mm

**Speed :** 0.5m/s

**Motor :** 2HP 3phase induction Motor

**Gear :** Reduction type Gear system

The driving machine shall incorporate a reduction gear system employing worm gear, planetary gear or other proven gear types.(1) Worm gear system . The driving machine shall incorporate a worm reduction gear with a vertical flange-mounted motor. It is to be connected by chain to the main drive shaft of the escalator

**Electromechanical brake:** Escalator shall be provided with braking that is mechanically applied and electrically held off type of sufficient capacity to efficiently bring the escalator to rest with uniform deceleration when travelling at full contract speed in either direction.

**AUXILIARY BRAKE:** Escalators and inclined passenger conveyors shall be equipped with auxiliary brake acting immediately on the non-friction part of the driving system for the steps, pallets or the belt .

**HANDWINDING:** Provision made for hand winding the escalator in either direction, and shall be suitably marked for "UP" and "DOWN" operation

**MOTOR :** Motor shall be fitted with grease lubricated ball bearings

The motor shall be integrally mounted, A.C. squirrel cage, three phase induction motor of continuous rating, reversible type with high starting torque and low starting current and specially designed for escalator application

Controller : Digitally designed PID controller is fitted for control of motor and its speed, .irrespective of its load.

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