

ELEVATOR TRAINING KIT



**"REDEFINING EFFICIENCY WITH
SMART AUTOMATION"**

PRODUCT OVERVIEW AND KEY FEATURES

Key Components and Features

- IoT Connectivity: Enable remote monitoring and control via a cloud platform.
- Augmented Reality (AR): Use AR for interactive visual overlays of internal components.
- Predictive Maintenance: AI-driven analysis for proactive maintenance.
- Touchscreen: A dynamic interface for enhanced control and diagnostics.
- Smart Access Control: RFID or facial recognition for restricted access floors.
- Energy Efficiency Monitoring: Track energy usage to teach sustainable practices.
- Voice Control: Implement voice commands for floor selection and door operation.



- Customized Programming for Elevator Control
- Realistic Elevator Trainer Kit with Industry Norms and Authentic Replicas
- Floor Announcement and Compliance with Safety Standards

TECHNICAL SPECIFICATIONS

COMPONENT	SPECIFICATIONS
Bonfig elevator machine	<ul style="list-style-type: none"> • Static Load: 2000 KG • Duty Load: 340 KG • Roping 1:1 • ASYNC Speed: 0.63 M/sec • Ratio 1/40 • Kw: 3.7 • HP: 5 • RPM: 930 • Rated Current: 8.8 A • Sheave Specification: Sheave Dia. X Rope Dia X No. of groove • 530 x 13mm x 3 Grv
Stepper motor for door open close	<p>Nema23 Stepper Motor 19Kgcm Torque – PREMIUM</p> <p>Features:</p> <ul style="list-style-type: none"> • Step Angle : 1.8 Degree • Configuration: 4 wire bipolar stepper motor • Holding Torque: 19kgcm bipolar mode • Rated voltage : 3.2VDC • Phase current : 2.8Amp • Resistance/phase: 1.13E • Inductance/Phase : 5.6mH • Rotor inertia: 480 gcm² • Detent torque: 0.68kgcm • Length (L): 76mm • Shaft Dia : 6.35mm • Shaft Length : 22mm • Weight: 1030 grams

TECHNICAL SPECIFICATIONS

COMPONENT	SPECIFICATIONS
Supporting Guiding Rail for Cabin	<ul style="list-style-type: none">• Model: MGN12H• Material: Bearing Steel• Professional and technical.• The slider could easily and lightly move.• Length: 1600 mm Approx.
Cabin	<ul style="list-style-type: none">• Body type: Sheet Metal• Box Dimension: 350 x 280 x 300 mm (Approx.)• Doors: Acrylic sliding• Lead Screw: Door opening mechanism• Fan: 24v dc
LOP (Landing operated panel)	<ul style="list-style-type: none">• Material: Mild Steel• Usage/Application: Elevator Fitting• Voltage: 24 V• Power Source: Electric• Color: Silver• Display: Digital• Surface Finish: Polished• Thickness: 9 mm

TECHNICAL SPECIFICATIONS

COMPONENT	SPECIFICATIONS
<p>COP (Car Operated Panel)</p>	<ul style="list-style-type: none"> • Material: Stainless Steel • Voltage: 230 V • Power Source: Electric • Display: Digital • Shape: Rectangular • Usage/Application: Elevator
<p>PLC</p>	<ul style="list-style-type: none"> • Series: MELSEC IQ-F SERIES • Type: FX5U • Power Supply: 100-240 V • Current Type: AC • Program Memory: 64K Steps • Program Memory Unit: Flash • Integrated Digital Inputs: 16 • Integrated Digital Outputs: 16 • Integrated Analogue Inputs: 2 • Output Type: Transistor • Output Logic: Source • Local I/O Points: 256 • Local + Remote I/O Points: 512
<p>Limit Switch</p>	<ul style="list-style-type: none"> • ME-8111 Rotary Adjustable Roller Mini Limit Switch • Model: M • E-8111 • Voltage Rating: AC 250V,5A / DC 115V. 0.4A • Actuator Type: Standard Pin Plunger, Automatic Reset • IP Rating: IP66 • Mounting Hole Diameter:4.5mm • Hole Centre Point Distance: 56mm x 21mm

TECHNICAL SPECIFICATIONS

COMPONENT	SPECIFICATIONS
<p>Reduction Pulleys</p>	<ul style="list-style-type: none"> • A2-300-28 V-Belt Pulley A-Type Double-Groove 300mm Cast Iron Motor Belt Pulley • Feature • Outside diameter: 300mm, with a tolerance of 3mm • Inner hole: 28mm • Keyway: 8m • The material is cast iron, and it is normal to have a little trachoma and rust
<p>Pulleys</p>	<p>CHANCS Outer Diameter 100mm Single Groove Pulley 10mm Fixed Bore Pulley for Drilling Machine 6MM PU Round Belt</p> <ul style="list-style-type: none"> • Item Weight: 259 g • Package Dimensions: 14.6 × 10.79 × 6.91 cm; 259 g
<p>Extrusions (30x30)</p>	<p>Easy Mech 300 mm 30X30 4T Slot Aluminum Extrusion Profile (Silver)</p> <ul style="list-style-type: none"> ·Profile Size: 3030 ·Extrusion Length: 300mm ·Material: Aluminum Alloy 6063 ·Color: Silver <p>Features:</p> <ol style="list-style-type: none"> 1. Cost-effectiveness 2. Resistance to corrosion 3. High strength-to-weight ratio 4. Variety of size and shapes 5. Thermal adaptability 6. Electrical and thermal conductivity

TECHNICAL SPECIFICATIONS

COMPONENT	SPECIFICATIONS
Supporting Guiding Rail for Door	<p>Standard Stainless Steel MGN 7 C Miniature Linear Guide, For Industrial</p> <ul style="list-style-type: none">• Design: Standard• Usage/Application: Industrial• Material: Stainless Steel• Size: MGN 7 C• Color: Gray
Slot sensor	<p>Unison Grey Proxy 15mm Fork Sensor, For Industrial</p> <ul style="list-style-type: none">• Usage/Application: Industrial• Material: PVC• Color: Grey• Frequency: 30 Hz• Accuracy: 95%• Product Name: Proxy 15mm Fork Sensor• Minimum Order Quantity: 20

INSIGHT FEATURES



LOP and COP

- 24V DC Power Supply
- Effortless Programming
- Sturdy, Premium Design
- Custom Branding Options (Customer logo)
- Anouncement of floor
- We use actual LOP and COP

Dead Weight Supporting Rail

- Ideal for accurate, low-friction linear motion.
- Ensures smooth sliding and minimal vibration.
- Made for long-lasting performance.
- Sliding block provides support and stability.
- Essential for precision movement in automation and robotics projects.



Elevator Motor

- Ensures stable, precise movement.
- Designed for extended service life.
- Reduces power consumption while maintaining performance.
- Perfect for practical training in elevator technology.

INSIGHT FEATURES



Cabin

- Crafted for educational setups, simulating real-world elevator cabins.
- Built to handle frequent use, ensuring longevity and reliability.
- Includes controls and indicators for hands-on learning.
- Designed with safety in mind for secure operation.
- Mimics actual elevator cabin functions, ideal for practical training in elevator systems.

END Limit Switch

- Ensures accurate stopping and positioning of the elevator.
- Built to withstand frequent operations and tough conditions.
- Fits seamlessly into elevator systems.
- Prevents over-travel and ensures secure operation.



Reduction Pulley



- Reduces motor load for smoother elevator operation.
- Made from high-strength materials for extended service life.
- Ensures consistent and reliable elevator movement.
- Minimizes strain on mechanical components, improving overall safety.
- Demonstrates load reduction principles effectively in learning kits.

ELEVATOR KIT DIMENSIONS



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ELEVATOR KIT



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