

# PLC 1 AXIS STEPPER MOTOR DRIVE TRAINER 40300

The PLC 1 Axis Stepper Motor Drive Trainer is a practical educational tool designed to teach and demonstrate the control of stepper motors. It features a stepper motor, drive circuitry, and control interfaces, allowing users to learn about motor positioning, speed control, and precision. This trainer is ideal for hands-on learning in fields like robotics, automation, and motion control.

## Able to learn : -

- Function and characteristic of Stepper Motor Drive
- Set up, commission, power up and configure of electrical stepper drive system
- Linear speed and position control
- Position detection by encoder
- Pulse control parameter setting
- Sequential control
- Fault findings in stepper drive control system



## Required Item : -

- Stepper Motor Trainer Module
- Operation Manual
- Experiment Manual
- PLC trainer kit

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## Components: -

| No | Component                                 | Qty |
|----|-------------------------------------------|-----|
| 1  | Power Supply Module DC24V, 5.1A           | 1   |
| 2  | DC Motor Driver Module                    | 1   |
| 3  | 1.8 Degree 42x42mm DC Stepper Motor       | 1   |
| 4  | 1000rpm Rotary Encoder                    | 1   |
| 5  | Roller bearing linear module              | 1   |
| 6  | Safety Limit Switch                       | 2   |
| 7  | Position Limit Switch                     | 2   |
| 8  | Indication Lamp module                    | 1   |
| 9  | Aluminum Profile work base 1000mm x 600mm | 1   |
| 10 | Operation Module (Start/Stop/Estop)       | 1   |
| 11 | PLC Controller (Optional)                 |     |
| 12 | Human Machine Interface (Optional)        |     |
| 13 | IoT Module                                | 1   |