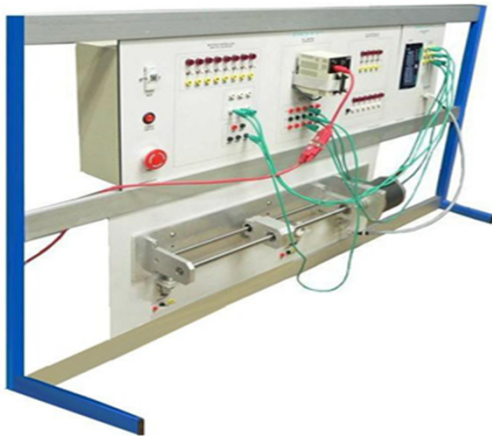



STEPPER MOTOR TRAINER
Model Number : DDC-STM-150M



Description

This unit is specially developed for use in electrical teaching laboratory for the purpose for Various experiments can be are carried out Stepper Motor System is an integrated system for in depth studies Stepper Motor theory and working principles. T

The system comes with an upright control panel. The stepper motor system is connected via flexible coupling. The control panel comprises of Stepper Motor Driver, Time Delay Contactor, Programmable Logic Controller Unit, PLC Input Terminal Unit, I/O Unit, PLC Output Terminal Unit, The Step Motor Unit stands independently with its own power input to simulate the frequency of the stepper motor.

TECHNICAL SPECIFICATION :		
<p>Stepper Motor Drive Module 2-Phase bipolar microstep driver</p> <ul style="list-style-type: none"> ❖ Sensor Limit: Home, Left & Right ❖ Indicator for Sensor Condition ❖ Input: 5 ... 24VDC ❖ Travelling stroke: 350 mm approx. ❖ Accurate path and position control ❖ Drive pitch: 5 mm ❖ Max. speed: 0.25 mis ❖ Linear motion per revolution drive shaft: 5 mm ❖ Max. rpm drive shaft: 3000 mm-1 ❖ Max. torque allowance: 0.6 Nm ❖ Repeatability: ±0.05 mm/m ❖ Permissible load: 2 Nm (Mx); 12 Nm (My); 8 Nm (Mz) ❖ Max. applied load: 500 N approx. 	<p>Stepper Motor Module</p> <ul style="list-style-type: none"> ❖ Supply voltage: 18 - 40 V DC ❖ Power loss: 20 W approx. ❖ Input resistance: 2000 Q ❖ Max. input frequency: :::; 200 kHz ❖ Readiness signal output: electronic relay Adjustable Frequency Ranges: 5Hz,50Hz, 100Hz, 500Hz, 1 kHz & 5kHz ❖ Counter Reset function ❖ Direction: CW or CCW 	<p>Programmable Logic Controller Module</p> <ul style="list-style-type: none"> ❖ 16 inputs & 12 outputs. ❖ Frequency pulse output function. ❖ Cam switches function. ❖ Frequency counters function. ❖ 4 high speeds interrupt inputs. ❖ 2 channel high speed counters. ❖ 24Vdc Relay Contact I/O <div style="text-align: right;">  </div>

EXPERIMENT TOPICS :

- Principle of a stepping motor
- Spindle drive control
- Wiring with controller and driver
- Position control by configuration pulse number

Manuals :

- (1)All manuals are written in English
- (2)Model Answer
- (3)Teaching Manuals

General Terms :

- (1)Accessories will be provided where applicable.
- (2)Manual & Training will be provided where applicable.
- (3)Design & specifications are subject to change without notice.
- (4)We reserve the right to discontinue the manufacturing of any product.

Warranty :

2 years

* Proposed design only, subject to changes without any notice.