

Y-0026 STEP MOTOR TRAINING SET

Step motor training set exams driving and control the step motor. On the set, magnetic dust brake engine has been used that has been coupled to the step motor by timing belt.

Thus, the positioning and speed characteristics of the step motor under the load have been reviewed. The standard pitch angle of a step motor (for example $1,8^\circ$ centigrade 200 pls/rev) could be divided into 25600 pls/rev by means of driver. The bipolar micro step driver that has been used in the set has the required specifications to allow this process

The step motor training set was formed by anodized sigma aluminum profile and assembled on the channeled table. In this way, In this way, add/drop and replacing process on the system could be carried out easily. The table legs have wheels which could be locked.

TECHNICAL SPECIFICATIONS

- **Step Motor:** Half mode $0,9^\circ$ pitch angle, Holding Torc 3 Nm, Nema24, 2 Phase 8 tipped step motor
- **Bipolar Driver:** 4,2A 24-50 VDC 1/25600 dissolution bipolar micro step driver.
- **Unipolar Driver:** 2A unipolar driver
- 220 V supply voltage. 24V DC power voltage
- **Magnetic Dust Brake:** DC 24V, 6 Nm Holding torc
- **Control Panel:**
Frequency modulated pals generator,
LCD displayed Tachometer / Frequency meter / Counter
On the drive and control panel 24V supply output
Start-stop-emergency buttons
All Input/output signals could be monitored by LEDs
- **Dimensions:** 90x80x50 (WxHxD)



ACCESSORIES

- 1 user manual
- 20 pcs 2 mm testing cable



TRAINING SUBJECTS

- Step Motor driving techniques
- Bipolar and Unipolar motor connection applications
- Full mod, half mod and micro step (1/128) mode usage of Step motor
- Reviewing of position, torc and speed application of the step motor under the adjustable load
- Application of position and speed control of the step motors in the mechanic systems