

**Y-0047**

**SERVO MOTOR TRAINING SET**

Through the Servo motor application set, application of servomotor working with loaded-unloaded position, speed and torc control as well as identification of parameter values could be performed.

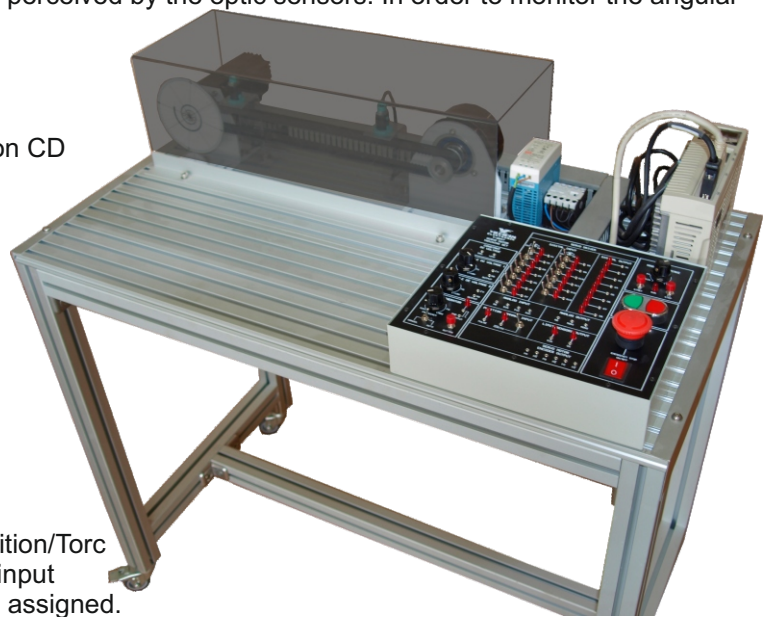
In the control panel; load set potentiometer, 2 pieces 0..10V adjusted analogue output, servo input and outputs have been configured manual or in the appropriate structure controlled by PLC as well as adjusted pals generator has been configured by 2 mm sockets.

The load assembly was provided on the set by magnetic dust brake engine, coupled by the timing belt. Due to this assembly, control of the speed-torc of the servo engine or control of the position torc could be reviewed. By means of PC connection, all parameter information could be monitored, amended and recorded. The torc and speed of the engine could be monitored in the interface and printed out.

In the position controls, the left and right limits could be perceived by the optic sensors. In order to monitor the angular motions, the scaled disc is available on the engine.

**ACCESSORIES**

- 1 user's guide and experiment booklet and application CD
- Servo driver software CD
- Servo driver-PC programming cable
- 20 pcs 2mm test cable



**TECHNICAL SPECIFICATIONS**

• **Servo Driver**

**Working modes:** Speed control, Torc control, Position Control ,Position/Speed, Speed/Torc  
**Speed Control and Torc Control :**  $\pm 10V$  analog input (0-4500 rpm) or Digital input (0-3000 rpm) could be assigned. Monitored or amended. max torc (3,82 Nm)

**Position Control:** External Position (open collector or line driver pulse input)  
Internal Position (by digital inputs, the assigned 16 position)

**PC Communication:** RS232/RS485 Modbus, Windows based Setup software

**Digital I/O:** 13 Programmable digital input, 8 programmable digital output

**Main positioning:** Home, origin search and position instruction functions.

**Encoder Dissolubility:** 2500 ppr line driver (A/B/Z and others)

Internal braking unit , Notch filtered, protection functions and alarm messages, monitoring all I / O status, while engine is running, the status information could be on-line monitored (Torc, rpm, pulse etc).

- **Servo Motor:** AC servo 400 W. 3000 rpm. Nom. 1,274 Nm.
- **PLC:** 8 digital input/6 digital output
- **Magnetic Dust Brake engine:** DC 24V, 6 Nm Handling Torc
- **Control Panel:** 2 pieces 0..10 volt analog signal, Frequency adjustable pals generator, adjusted load control circuit, all input/output signals could be monitored by led, encoder signal output
- **Sensors:** For right and left limit, 2 optic sensors
- **Power Supply:** 24V.
- Emergency , start-stop buttons and contactor
- With the timing belt 41 cm neck movement mechanism

**TRAINING SUBJECTS**

- Arrangement and Monitoring of Servo Motor parameter values
- Monitoring of charge/discharge speed position and torc control
- Diagnosis and defect repair
- Comments and reviewing of the documentation

