The Pick & place robotic application trainer (52318) gives provision to interface PLC with X-Y-Z Three axis displacement and a robotic arm.

Features

- Controlled by PLC
- Displacement in 3 axes : X-Y-Z axis
- Capable to pick and place an object from one position to another.
- Variable Jaw area to Pick objects of different shapes.
- Object Lift movement height Selectable

Experiments

- PLC Micrologix 1400 with PWM output.

System Dimensions

- Control Panel: 1.5 Ft (L) × 1 Ft (W) × 1.5 Ft (H)
- Pick & Place Platform: 1.5 Ft (L) × 1.5 Ft (W) × 2 Ft (H)

Services Required

- Electric Supply of 1φ 230 VAC motor.

Technical Specification

No.	Item Name	Technical Specifications
1	Bidirectional Stepper Motor	10 Kg/cm², Shaft Length: 20.6 mm, Shaft Diameter: 6.35 mm. Electrical with actuator driven mechanism.
2	Bipolar Stepper Driver Card	Motor supply voltage: 24 VDC, auto / manual, enable – disable and direction selection facility, angular rotation / pulse: 1.8° / 0.9°
3	Lead / Ball Screw Linear Guide ways Mechanical Mechanism	For X-Y Movement and Robotic Jaw with open / close facility.
5	PLC	MicroLogix 1400 / Equivalent Digital inputs- 14, Digital outputs- 10. PC interface facility, PC-PLC interfacing cable. Ladder Programming Software.

Note: Specifications are subject to change.