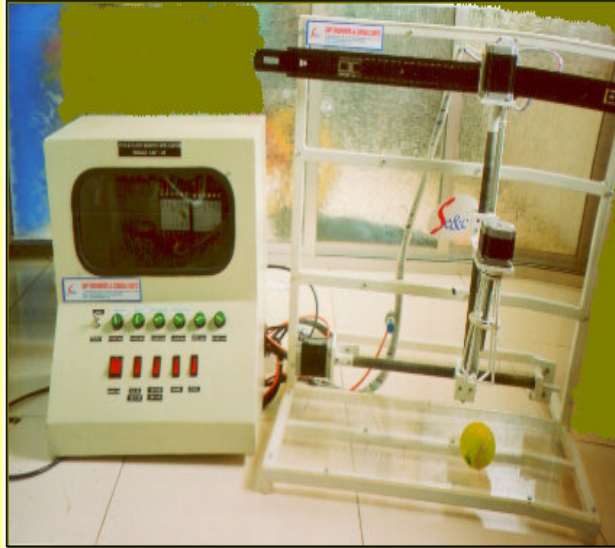


## SAP E&C PLC BASED PICK & PLACE ROBOTIC APPLICATION MODULE (PLC BASED) (SAP-48)



The Pick & place robotic application trainer gives provision to interface PLC with two axis displacement and a robotic arm.



### SYSTEM SPECIFICATIONS :-

- 1) Stepper motor electrical with actuator driven mechanism,
- 2) Bidirectional stepper motor:  
torque-10 kg/cm<sup>2</sup>, Shaft length: 20.6mm  
Shaft dia. 6.35mm.
- 3) Bipolar Stepper driver card:  
motor supply voltage- 24VDC, auto-manual,  
enable-disable & direction selection facility,  
angular rotation/ pulse : 1.8° / 0.9°
- 4) PLC :- Allen Bradely make PLC System  
DI-14, DO-10, PC-PLC cable  
Ladder Prog. software.
- 5) Lead/ Ballscrew linear guideways mechanical mechanism  
for XY movement & Robotic Jaw with Open/ Close  
facility.

### Features:

- ❖ Controlled by PLC
- ❖ 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.

### Range Of Experiments:

To pick and place an object from one position to another with the help of PLC ladder program & XY position control module.

### Equipment required:

PLC Micrologix 1200 with PWM output.

**Services Required:** Single Phase 230 VAC 50 HZ Supply

### Note:

All descriptive matter and illustrations are intended to give only a general idea of the equipment. Detailed specifications may be altered at the company's discretion without any notice.

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