



The Robot Model (52320) gives provision to interface PLC with 4-Axis robotic arm to Pick and Place an object from one Position to another with help of PLC program and HMI.

Features

- Controlled by PLC
- Displacement in all 3 planes and 4-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

- Study of level measurement using the concept of back pressure regulation.
- Demonstrate the implicative use of pressure gauge as a level measurement (indirect measurement technique).

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

- 230V AC, 1φ Supply.

Note: Specifications are subject to change.

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Technical Specification

No.	Item Name	Technical Specifications
01	Programmable Logic Controller (PLC)	Mitsubishi FXFU-32MR/ Delta/Equivalent, Digital inputs-16, Digital outputs-16 Analog Input- 02, Analog outputs-02, PC interface facility, PC-PLC interfacing cable. Ladder Programming Software.
02	Human Machine Interface (HMI)	Make: Mitsubishi/Schneider/ Delta/Equivalent, Size: 7" Color Touch Screen
03	Servo Control Module	1 No.
04	AC Servo Motor	4 Nos. 1.3 Nm, 400 W, 3000 RPM, Without Break, Plain Shaft
05	Servo Amplifier	Make: Mitsubishi/ Delta/Equivalent. Supply Voltage: 1φ 230VAC,
06	Servo Interfacing Board with cable	50 Pins connecting channel for Interfacing between PLC and Servo Amplifier
07	Encoder cable	5 m in length
08	6 V, 1 A Battery	
09	CCN1 Connector	
10	SSCNETIII Cable -1 m length	
11	Installation	Floor type
12	Structure	Horizontal, Multiple-joint type.
13	Degree Of Freedom	4
14	Drive System (*1)	AC Servo Motor
15	Position Detection Method	Absolute Encoder
16	Maximum Load Capacity (Rating) kg	3
17	Arm Length (No1 arm)	125 mm
18	Maximum Reach Radius	350 mm
19	Operating Range (degree)	J1 340 (+/- 170); J2 290 (+/- 145); J3 150; J4 720 (+/-360)
20	Maximum Speed (degree/sec)	J1 360; J2 720; J3 720; J4 1500
21	Position Repeatability (mm)	+/- 0.010
22	Ambient Temperature (°C)	0 to 40

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