



# 4 Axis Scara Robot Training System

## Model: FA-RA802

*Design subject to change based on robot selection size*

## Overview

The 4 Axis SCARA Robot Arm is a precise and fast robotic arm with three rotational axes and one vertical axis, ideal for tasks like assembly, sorting, and packaging. Its design ensures high accuracy and speed, making it a valuable tool for automating repetitive tasks in various industrial settings.

## Learning Outcome

- 1 Function and characteristic of cartesian robot arm system
- 2 Design a control architecture integrating PLC, drives, and sensors.
- 3 Program robot kinematics (forward/inverse) for precise motion planning.
- 4 . Design HMI screens for control, status, and alarm
- 5 Fault findings robot arm electrical control system

## Technical Specification

### Robot Arm

- Arm Reach 400
- Payload 3kg
- Axis 1 - 132 Deg; Axis 2 -141 Deg; Axis 3- 150mm; Axis 4 - 360 Deg
- Repeatability - 0.01mm
- 1 Axis - 720mm/s; 2 Axis - 720mm/s; 3 Axis - 1120mm/s; 4 Axis - 3000mm/s
- 1 unit end effector Gripper

### PLC Control Panel

- 1 unit assembly aluminum profile working table 900x900mm .
- 1 set HMI 7" + PLC 40 I/O
- 1 set license programming software
- Ethernet communication protocol
- 1 set tower lamp status indication
- 1 set operation push button (Start, Stop, Estop, Reset)
- 1 lot vacuum Pick and Place system
- 1 lot of mini belt conveyor
- 1 lot photo sensor
- 1 lot of work piece
- 1 lot of cavity storage tray

## Training & Documentation

2 days + Training Manual

## Warranty

12 months against manufacturing defects only

## Delivery

8-10 weeks



Brand : SKILLAB  
Made in Malaysia

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