

**Product Name :**  
Astra Scientific SCARA Robot Trainer

**Product Code :**  
RoboticsLab0003



**Description :**

Astra Scientific SCARA Robot Trainer

**Technical Specification :**

The term SCARA is an acronym that stands for “Selective Compliant Assembly Robot Arm or Selective Compliant Articulated Robot Arm” which are same for the acronym SCARA. The SCARA robot is based on 4-Axis Design.

The first thing to recognize is the Robot’s Parallel- axis, joint layout, which is compliant in the X-Y direction but rigid in the Z direction, hence the term ‘Selective Compliant’. This offers enormous advantage in all sorts of primary & secondary packaging applications as well as a host of other pick & place functions. Secondly the jointed two – link arm layout is similar to a human arm, which is why the phrase articulated forms part of acronym. As a result the robot can reach into confined areas and then fold back out of the way. Today in industries preferences are given for robots as its wide applications helps for better productivity and hence it is the need of the time to learn the concepts of robotics at educational levels only.

**FEATURES:**

- Short Cycle Time.

- High Speed.
- High Performance.
- Outstanding Joining Properties.
- High Rigidity.
- High Repeatability.
- Ease of Use.
- Low Maintenance Efforts.
- High Operational Safety.

#### SPECIFICATION:

§ Design

§ Pay Load

§ Reach

§ Axis

§ 1. Waist (J1)

§ 2. Shoulder (J2)

§ 3. Elbow (J3)

§ 4. Roll (J4)

§ Link 1

§ Link 2

§ Joint Actuator

§ Controller

§ Safety

§ I/O

§ Power : 4 Axes.

: 1.5 kg.

: 425 mm.

: 2700.  
: 1350.  
: 120 mm.  
: 3600.  
: 225 mm.  
: 220 mm.  
: Stepper Motor with Gear Box.  
: USB Based Motion Controller.  
: Micro Switches for Home and Axis Limits.  
: 8 nos.  
: 230 Volts, 50 Hz, Single Phase.



## Astra Scientific

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