

SCARA ROBOT TRAINER



SCARA IV



The **SCARA ROBOT TRAINER** is a 4-axis Selective Compliant Assembly Robotic Arm with three parallel - axis rotary joints and a linear axis joint at the wrist. This parallel - axis joint layout makes the arm is slightly compliant in the 2 directions but rigid in 1 direction.

The robotic arm comes with a wireless remote control for controlling the movements of the axes. The kit is a didactic platform to learn the basics of Direct Kinematics, Inverse kinematics and motion planning involved in designing any robotic platform.

The robotic arm is also supported with an optional full - fledged graphical user interface which is used to simulate actions of human arm. The software to control **SCARA ROBOT TRAINER** boasts of a real time 3-Dimensional representation of the arm's motion. Through software control, **SCARA ROBOT TRAINER** will be able to simulate various operations and that will make the robotics theory visualize more interesting.

This is an ideal kit for many assembly operations like inserting a round pin in a round hole without binding, transferring parts from one cell to another etc.

EXPERIMENTS :

- Study of Homogenous Transformations
- Measurement of Robot specifications- reach, stroke, Repeatability, Accuracy etc
- DK analysis of SCARA-04
- IK analysis of SCARA-04
- Task Planning: Pick & Place operations
- Motion Planning using SCARA-04 : Acceleration profile & Cubical Polynomial

Kencraft India Pvt. Ltd.

112, New Apollo Industrial Estate,
Mogra Lane, Nagardas Road, Andheri (E), Mumbai - 400 069.
Tel: (022) 2826 2375 / 2826 2475 Fax: 91-22-2839 4011.
www.kencraftindia.com E-mail: sales@kencraftindia.com

