# NexROBO SCARA Edu Package



### Contents

- SCARA Robot Body
- Servo Motors and Wiring Circuit
- Control Cabinet
- Open Robot Controller

## **Product Overview**

EtherCAT-based NexROBO Edu package provides an open programming environment for users to develop their own robot control. It consists of a 4-axis SCARA robot and a robot controller in the control cabinet. Motor drives, I/O signals and related circuits are all integrated based on EtherCAT control network. Single-axis movement for every axis can be easily operated by provided examples. This package is suitable for academy study and R&D research of basic robotic control.

## **Specifications**

#### Robot

- Degree of freedon: 4
- Nominal load capacity: 6kg
- Motion Range Maximum reach radius: 600mm
  - J1: ±130°
  - J2: ±150°
  - J3: 200mm
- J4: ±360°
- Position repeatability J1+J2: ±0.02 mm J3: ±0.01 mm
- J4: ±0.01 mm
- Cycle time: 0.5 s
- Weight: 20 kg
- J3 (Z-axis) Push Force: 100N
- Installation: Floor, wall-mounting

#### Controller

- Intel<sup>®</sup> Core™ i5-520M processor pre-installed
- 2 x 2GB DDR3 SDRAM, pre-installed
- 500GB HDD
- 1 x EtherCAT port
- 1 x Intel<sup>®</sup> GbE LAN port

- Dual VGA or VGA/DVI Independent Display
- 6 x USB 2.0 ports
- 3 x RS232 and 1 x RS232/422/485 with Auto Flow Control
- 1 x PCI expansion (10W max./ per slot, 169mm max. length)

#### Programming

- Language: Visual C/C++
- Command Set: Positon Command, Velocity Command, Torque
  Command
- Parameters: position, velocity, torque
- RT Example (RTX project)
- User API Example (win32 dll project)

## **Ordering Information**

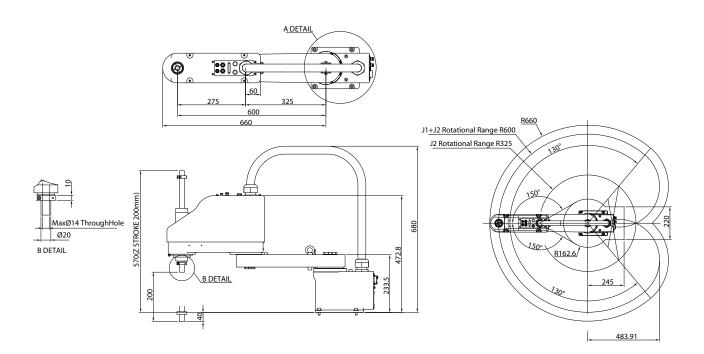
#### **Robot Package**

- NexROBO SCARA Edu Package (P/N: TBC)
- Optional
- Robot Stand (P/N: TBC)
- Teach Pendant (P/N: TBC)

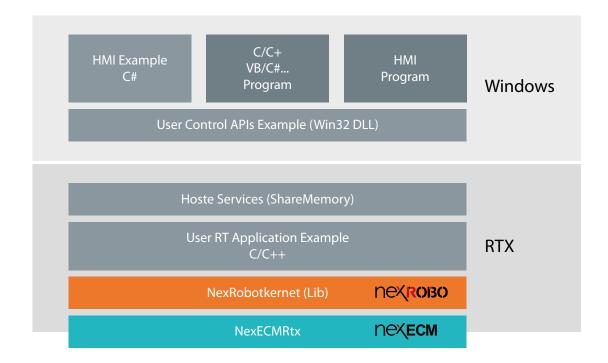
Machine Automation



## **Robot Operating Space**



## Software Architecture



Machine Automation