SCARA Robot Solution

Open and Modular Solution
For SCARA Robot

Main Features

- Standard EtherCAT communication
- Robotic function APIs provided
- 1 ms control cycle time

Product Overview

NexROBO solution provides an open programming environment for users to develop their own robot applications. It consists of robot body and NEXCOM's robot controller in the control cabinet. Motor drives, I/O signals and related circuits are all integrated based on EtherCAT control network. I/O and motor control can easily be expanded through EtherCAT communication. Beside general system configuration, NexROBO solution always allows the flexibility to change components in the robot system for unlimited possibilities.

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® Core™ i5-520M processor pre-installed
- 2 x 2GB DDR3 SDRAM, pre-installed
- 500GB HDD
- 1 x EtherCAT port
- 1 x Intel® 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: 7900000163X00)**

Optional

- **Robot stand (P/N: 7900000164X00)**
- **Teach pendant (P/N: 10IH0010001X0)**

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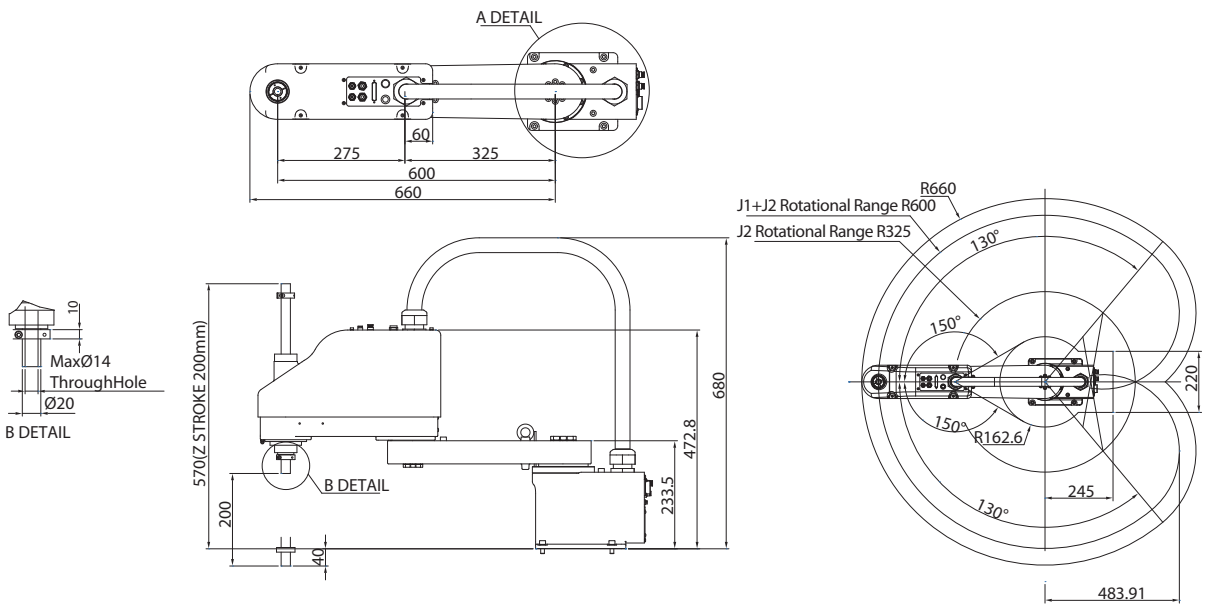
Robot Operating Space



Software Architecture