



Main Features

- Lighter weight and better handling
- Hand Guiding Function
- High absolute accuracy
- Off-line programming
- Internet of Robotic things
- EtherCAT communication

Product Overview

NexCOBOT provides an open programming environment for users to develop their own robot applications. This package consists of a robot body, a teach pendant and NexCOBOT's robot control cabinet.

NexCOBOT's robot control cabinet adapts NexCOBOT's intelligent PC-based robotic controller and integrates with NexCOBOT's robotic control software, NexGRC and teach pendant, TP-100. It also provides EtherCAT port and PoE port for user to connect to EtherCAT slaves and machine vision devices, let the robot system easily to extend axis control and integrate with machine vision application.

Specifications

Robot

- Degree of freedom: 6
- Nominal load capacity: 6 kg
- Motion Range
 - Maximum reach radius: 910 mm (Point P)
 - J1: $\pm 170^\circ$
 - J2: $-30^\circ \sim 150^\circ$
 - J3: $-65^\circ \sim 190^\circ$
 - J4: $\pm 180^\circ$
 - J5: $\pm 120^\circ$
 - J6: $\pm 360^\circ$
- Speed
 - J1: 300°/S
 - J2: 150°/S
 - J3: 180°/S
 - J4: 367.6°/S
 - J5: 370.4°/S
 - J6: 600°/S
- Position repeatability: $\pm 0.03\text{mm}$
- Weight: 34 kg
- Communication: 2 x Ethernet, 1 x EtherCAT
- External I/O: 16 x DI / 16 x DO
- Power Input: Single phase, 220VAC
- Dimensions: 394(w)x337(D)x251(H)
- Weight: 7 KG
- Operating Temperature: 0-50°C

Teach Pendant

- GUI display with VGA signal input
- 10.1" WXGA 1280x800 500 nits LED panel
- 5 points projected capacitive touch with Full IP 65 protection
- 3-Position Enabling switch & E-Stop Button
- EMC(IEC/EN 61000-6-2/4) compliance
- System frame ground protection(GPE) design

Ordering Information

6-axis Articulated Robot (P/N: TBC)

Open Robot Package for 6-axis Articulated Robot

Control Cabinet

- Control Software: NexGRC
- Teach Pendant Option: TP-100

Block Diagram

