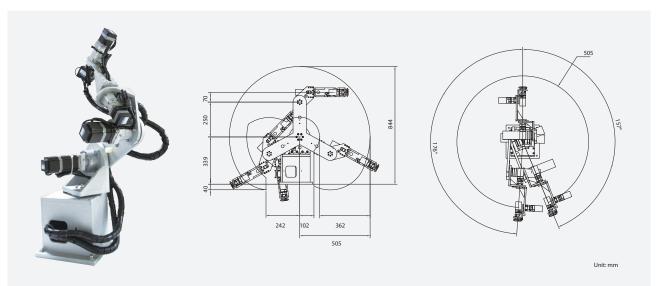
## **MiniBOT Robot**



### Main Features

- EtherCAT-based
- Compact design
- Suitable for education
- Standard 6-axis articulated robot

#### Contents

- Control cabinet
- Robot control API
- Articulated 6-axis robot
- Open robot controller

#### **Product Overview**

#### **EtherCAT Communication**

Based on standard EtherCAT communication, MiniBOT provides an expandable distributed control system. It is also a good material for EtherCAT-related training.

#### Industrial Robot Design

By referring to design of general industrial 6-axis articulated robots, MiniBOT is built in the same concept. Its nude mechanical architecture makes it easy to learn the structure of an industrial robot.

#### Open Development Environment

MiniBOT comes with a utility tool to directly operate the robot. Robotic control APIs are also provided in Windows platform, so that users can leverage its openness to develop any kind of robot applications.

## **Specifications**

#### Robot Arm

- Degree of freedom: 6
- Payload: 1kg
- Driving system: EtherCAT close-loop stepper
- Position feedback: incremental encoder
- Operation range: 590mm (maximum)
  - J1: ±175°
  - J2: +110°~ -92°
  - J3: +63°~ -153°
  - J4: ±175°
  - J5: ±92°
  - J6: ±180°
- Repeatability: ±0.12mm
- Weight: arm 30kg
- Input voltage: single phase 100~240Vac

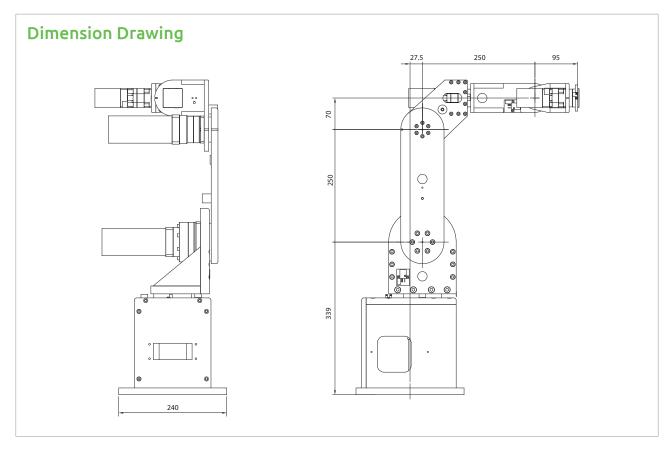
#### Controller

- DI/O: 15-ch DI/16-ch DO (DB37 connector)
- 1 x Intel® GbE LAN port
- 1 x VGA
- 2 x USB 2.0 (external)
- 1 x USB 3.0, 1 x USB 2.0 (inside cabinet)
- 1 x Emergency stop bottom
- Weight: control cabinet 20kg

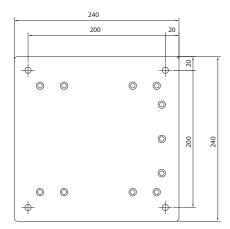
#### Software

- NexGRC runtime (robot control runtime)
- NexMotion studio (configuration utility)
- Provide standard robot motion control functions
- Support C\C++, C# and VB.Net for user programming
- OS: WES7





## **Installation**



# 

## **Ordering Information**

### **Robot Package**

• MiniBOT robot package (P/N: 7900000179X00)

#### Optional

- Robot stand (P/N: 790000180X00) 70 x 70 x 78 (cm)
- Robot stand (P/N: 7900000183X00) 80 x 80 x 78 (cm)
- Gripper package (P/N: 7900000181X00)
- Terminal board package (P/N: 7900000182X00) 2m and DB-37 terminal board

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