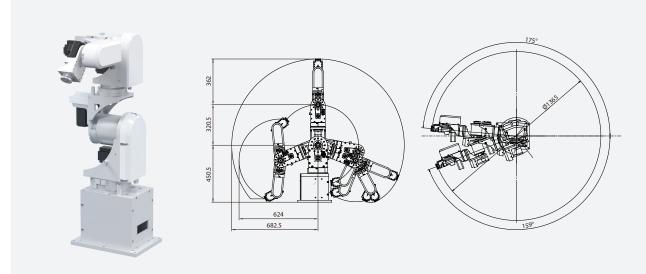
7-axis Robot Package for Education

MiniBOT-7R



Main Features

- EtherCAT-based
- Compact design
- Suitable for education
- Standard 7-axis articulated robot

Contents

- Control cabinet
- Robot control API
- Articulated 7-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 7-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: 7
- Payload: 1kg
- Driving system: EtherCAT Servo Moto
- Position feedback: Absolute encoder
- Operation range: 682.5mm (maximum)
 - J1: +175° to -159°
 - J2:±123°
 - J3:±167°
 - J4:±129°
 - J5:±167°
 - J6:±108°
 - J7:±180°
- Repeatability: ±0.12mm
- Weight: arm 40kg
- Input voltage: single phase 240Vac

Controller

- DI/O: 16ch DI/15-ch DO
- Power Input : Single Phase 220V ac 10A
- Dimension : 480W*552D*264H (mm)
- Weight :32kg
- Safety : 1 x EMG on teach pendant, 1 x EMG on external I/O

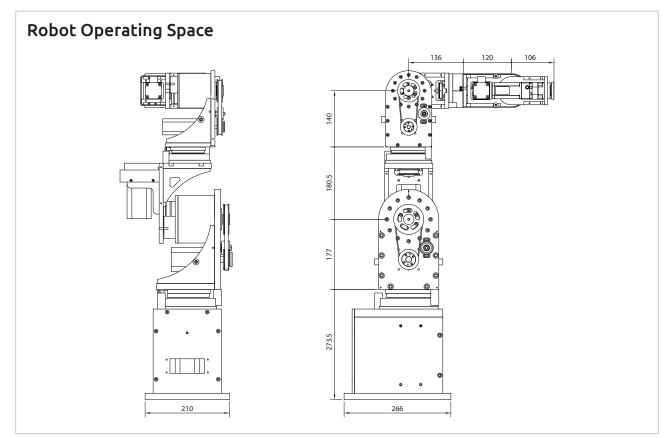
Software

- NexARC 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

MiniBOT Robot

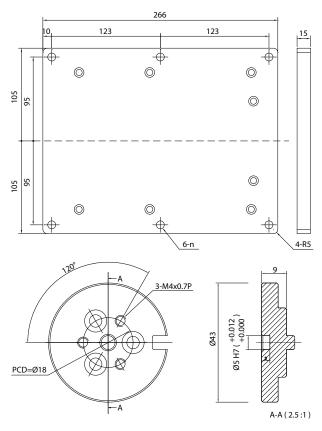






Installation

• Installation: Floor-mounting



Ordering Information

Robot Package

MiniBOT-7R robot package (P/N: 98ROBO000001F)

Optional

- Robot stand For MiniBOT-7R (P/N: 6879ROBO0005F) 80 × 80 × 78 (cm)
- Gripper package (P/N: 7900000181X00)
- Terminal board package (P/N: 7900000182X00) 2m and DB-37 terminal board

nex**cobot**

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