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INDUSTRIAL PRODUCT DATASHEET

reBot Arm B601-DM Assembled Bundle

The reBot Arm B601-DM Assembled Bundle is a fully open-source 6+1 DoF robotic arm for teleoperation, assistive automation, and precision tasks, with high-performance motors and support for ROS1/2, Isaac Sim, and LeRobot.

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Overview



The reBot Arm B601-DM Assembled Bundle is a fully open-source 6+1 DoF robotic arm with complete hardware and software resources, including BOM lists, drawings, tutorials, and algorithms. It features high-performance DAMIAO 4310 and 4340P motors, supports ROS1/2, Isaac Sim, and LeRobot, and is suited for teleoperation, assistive home automation, and precision tasks in harsh or constrained environments.

Key Features

01 **Fully Open-Source**

A truly 100% open-source 6+1 DoF robotic arm in terms of hardware and software. It includes BOM lists, hardware drawings, software, and algorithms—everything you need.

02 **Detailed Assembly Tutorials**

Provide ultra-detailed assembly steps and video tutorials.

03 **High-performance motors**

4 DAMIAO 4310 motors + 3 DAMIAO 4340P high-torque, low-noise motors ensure stable and precise power for the reBot Arm B601-DM.

04 **Framework Compatibility**

Supports mainstream robotics development frameworks such as ROS1/2, Isaac Sim, and LeRobot.

05 **Constant Content Updates**

As the project progresses, we will gradually update the latest algorithms and launch a series of completely free courses.

Product Gallery

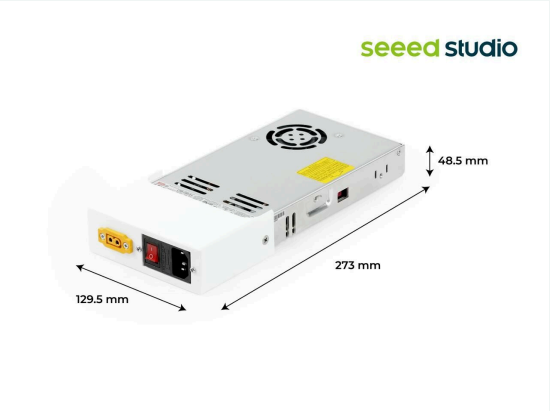




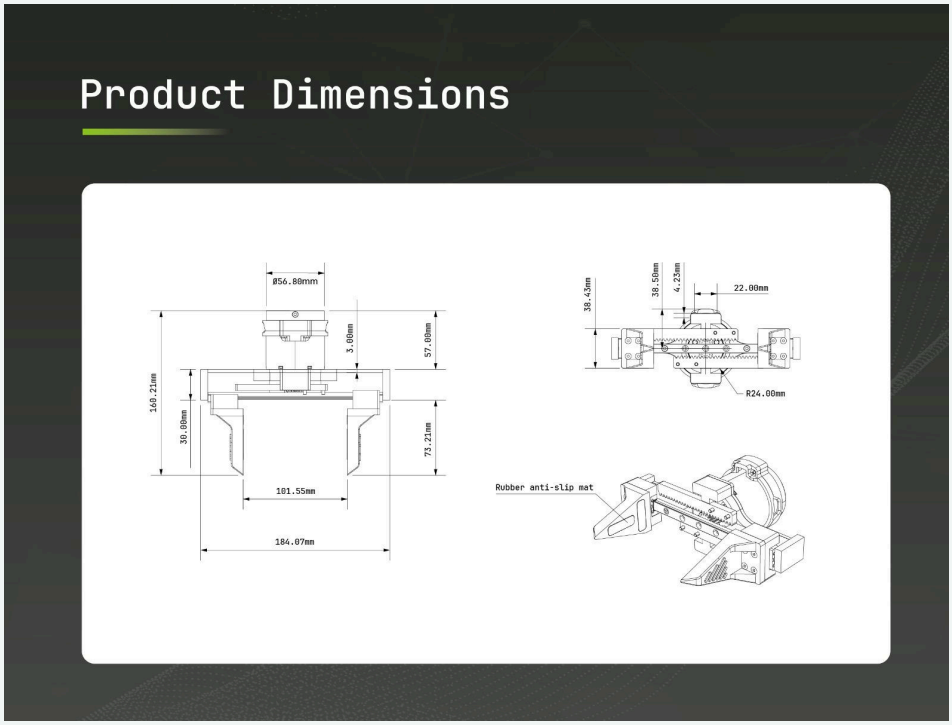


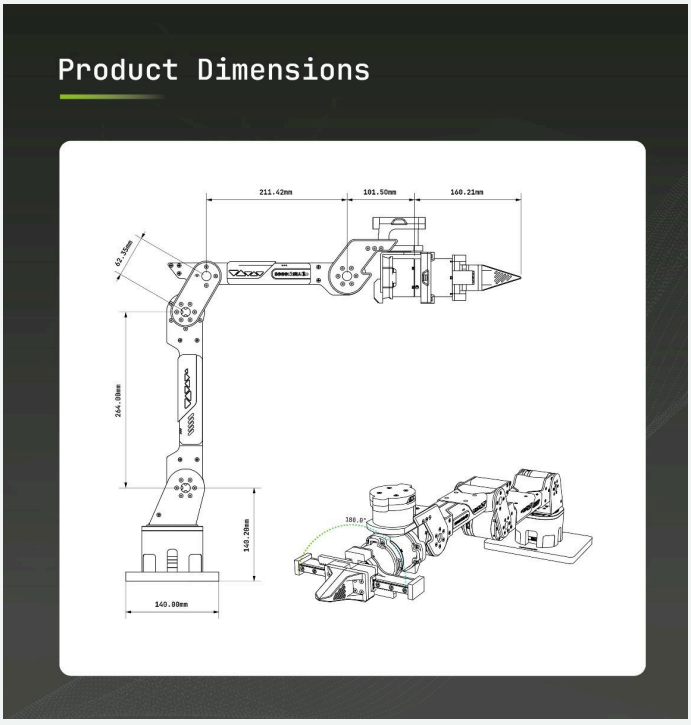






Hardware Overview





Applications

- **Teleoperation & Remote Robotics Control:** The reBot Arm B601 enables intuitive teleoperation for remote manipulation, data collection, and human-in-the-loop training. Combined with AI robotics frameworks like Hugging Face LeRobot, it supports datasets and pre-trained model and policies, and imitation learning workflows that translate human actions into robotic behaviors, accelerating embodied AI development.
- **Assistive Automation for Home Daily Tasks:** The reBot Arm B601 supports the development of assistive robotics for everyday tasks, from pick-and-place to simple household automation. By combining vision and learning-based control, the robot can adapt to unstructured environments and variable objects, helping bring embodied AI into practical, human-centered scenarios.
- **Precision Tasks in Harsh or Constrained Environments:** With ±0.2 mm repeatability and stable actuation, the B601 is suited for precise tasks in challenging or unsafe environments. Developers can prototype applications such as inspection, sample handling, or fine manipulation under constrained conditions. Its support for dynamic motion execution enables more reliable interaction with uncertain or sensitive objects. This makes it a strong platform for validating robotics solutions before scaling to industrial systems.

Resource Links

- https://www.seeedstudio.com/reBot-Arm-B601-DM-Assembled-Kit-with-Power-Supply-Bundle.html
- Document

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