

seeed studio

INDUSTRIAL PRODUCT DATASHEET

reBot Arm B601-DM (Without Power Supply)

Fully open-source, pre-assembled reBot Arm B601-DM robotic arm for guided robot AI training, teleoperation, assistive automation, and precision tasks.

SKU

100065783

UPDATED

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PRICE

\$1499.00(Excl. VAT)



Overview



The reBot Arm B601-DM (Without Power Supply) is a fully open-source, pre-assembled robotic arm featuring high-performance motors and compatibility with ROS1/2, Isaac Sim, and LeRobot. It supports guided robot AI training via SenseCraft Robotics, teleoperation and remote control, assistive home automation, and precision tasks in harsh or constrained environments.

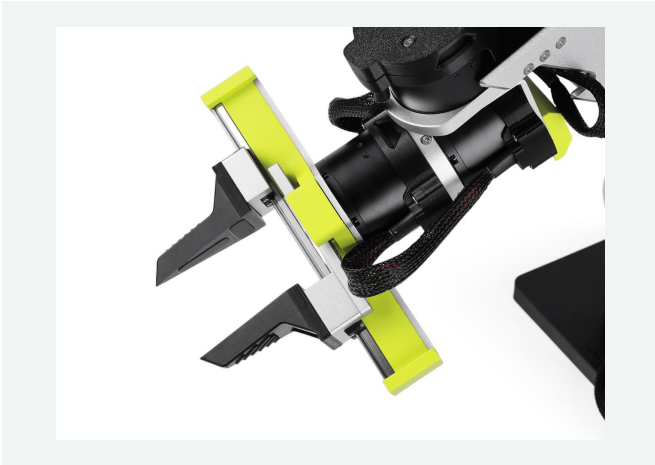
Key Features

- **Fully Open-Source:** A truly 100% open-source robotic arm in terms of hardware and software. It includes BOM lists, hardware drawings, software, and algorithms—everything you need.
- **Pre-assembled reBot Arm:** Out-of-the-box and ready for immediate model validation and further development.
- **High-performance motors:** 4 Damiao 4310 motors + 3 Damiao4340P high-torque, low-noise motors ensure stable and precise power for the reBot Arm B601-DM.
- **Framework Compatibility:** Supports mainstream robotics development frameworks such as ROS1/2, Isaac Sim, and LeRobot.
- **Constant Content Updates:** As the project progresses, we will gradually update the latest algorithms and launch a series of completely free courses.

Buying Guide

Product Gallery



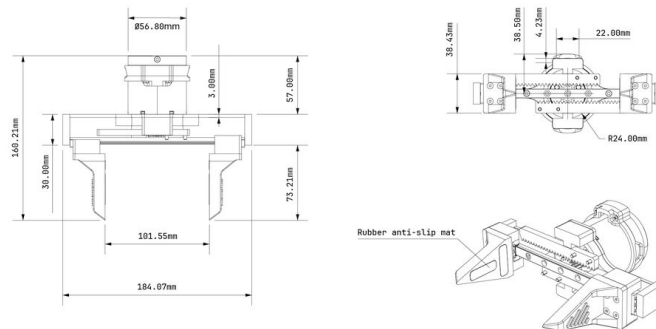


Specification

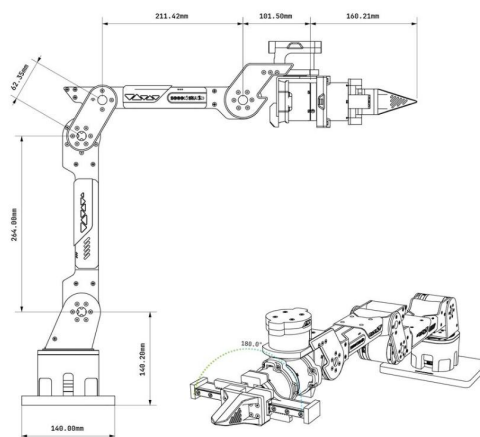
Degrees of Freedom	6+1
Reach	767mm 607mm(without gripper)
Payload	1.5kg (without gripper, 70% reach recommended)
Joint Range of Motion	J1:±150° J2:~220° - 0° J3:~220° - 0° J4:±90° J5:±90° J6:±90° Gripper:~325° - 0°
Repeatability	0.2 mm
Weight	about 4.7kg
Servos	DM-J4340P-2EC x3 DM-J4310-2EC x4
Operating Temperature	-20°~50°
Power	DC 24V 10A
ROS1	✓
Moveit1	✓
ROS2	✓
Moveit2	✓
Python	✓
Lerobot	✓
Isaac Sim	✓
Pinocchio	✓
Open Source	✓

Hardware Overview

Product Dimensions



Product Dimensions



Applications

- One-Stop Guided Setup & Cloud-Powered Robot AI Training:** SenseCraft Robotics is an in-house developed, exclusive platform from Seeed Studio. It delivers an all-in-one robot-AI workflow featuring guided setup, cloud training and lightweight local validation. It lets you finish essential pre-training steps — device pairing, serial binding, camera binding, calibration check and teleoperation check — all in one place, greatly streamlining your setup for education labs, R&D PoCs and early-stage robot validation projects. Platform download: https://sensecraft.seeed.cc/en/robotics?utm_source=bazaar&utm_medium=ecommerce&utm_campaign=robotics_hardware&utm_content=product_detail
- 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.

Part List

Assembled Robotic Arm (with gripper)	x1
Hex key wrench set	x1
Mouse pad	x1
DAMIAO USB-CAN Driver Board	x1
XT30 2+2 Power Separation Board	x1
USB cable	x1

Compliance & Logistics



HSCODE	9023009000
USHSCODE	9023000000
UPC	
EUHSCODE	9023001000
COO	CHINA

FCC Requirement

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

15.21

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy.

If not installed and used in accordance with the instructions, it may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Resource Links

- <https://www.seeedstudio.com/reBot-Arm-B601-DM-p-6740.html>
- [reBot one-pager datasheet](#)
- [reBot open-source GitHub repo](#)

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