

INDUSTRIAL PRODUCT DATASHEET

reBot Arm B601-DM Body Structure Kit

Build your reBot Arm B601-DM: a fully open-source, 6-DOF precision robotic arm kit with ± 0.2 mm repeatability and support for ROS1/2, Isaac Sim, and LeRobot.

SKU	UPDATED	PRICE
100045679	2026-08-10 05:59:35	\$169.00(Excl. VAT)



Overview



The reBot Arm B601-DM Body Structure Kit provides the structural components (without gripper) to assemble the reBot Arm B601-DM using your own Damiao motors, delivering a fully open-source 6-DOF robotic arm for teleoperation, assistive automation, and precision tasks. It offers ± 0.2 mm repeatability, supports ROS1/2, Isaac Sim, and LeRobot frameworks, and is accompanied by detailed assembly tutorials and ongoing algorithm updates.

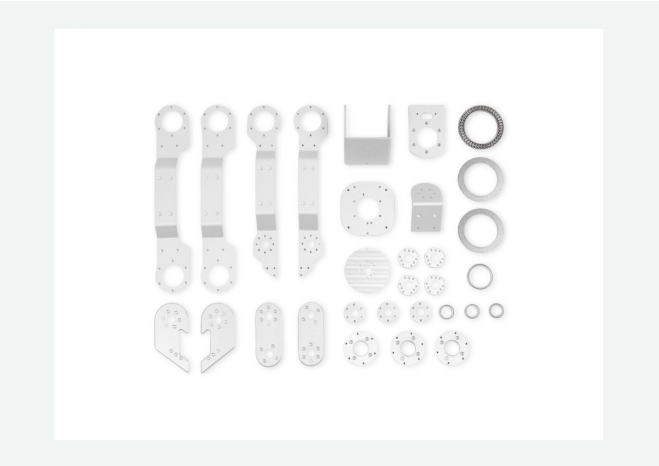
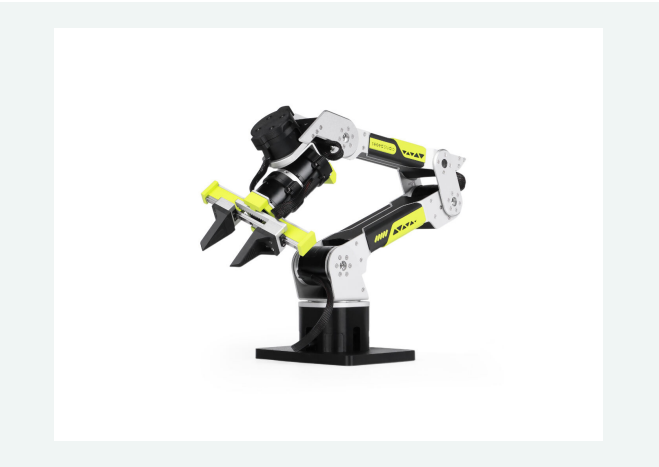
Key Features

- **Body Structure Kit:** This product includes the structural components for the reBot Arm B601-DM (without gripper). Combined with your existing Damiao motors, you can assemble the reBot Arm B601-DM (without gripper).
- **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.
- **Detailed Assembly Tutorials:** Provide ultra-detailed assembly steps and video tutorials.
- **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.

Note:

This product is a mechanical arm DIY kit (not a finished product) requiring self-assembly, wiring, and debugging, with risks of personal injury (e.g., pinching, impact) and property damage. By purchasing, you confirm you have read, understood, and accepted all terms, and voluntarily assume all risks during assembly and use. This product is only for professionals with robotics, electrical, or mechanical expertise; minors and persons with no/limited civil capacity are strictly prohibited from operation. Follow the manual strictly for assembly, calibration, and setup. We only warrant core components against factory material defects (**1-Month Warranty for Un-assembled Version / 6-Month Warranty For Assembled Version**) and accept no liability for any personal injury or property damage. For full terms, refer to the attached **Mechanical Arm DIY Kit - Safety Disclaimer and Risk Notice**.

Product Gallery



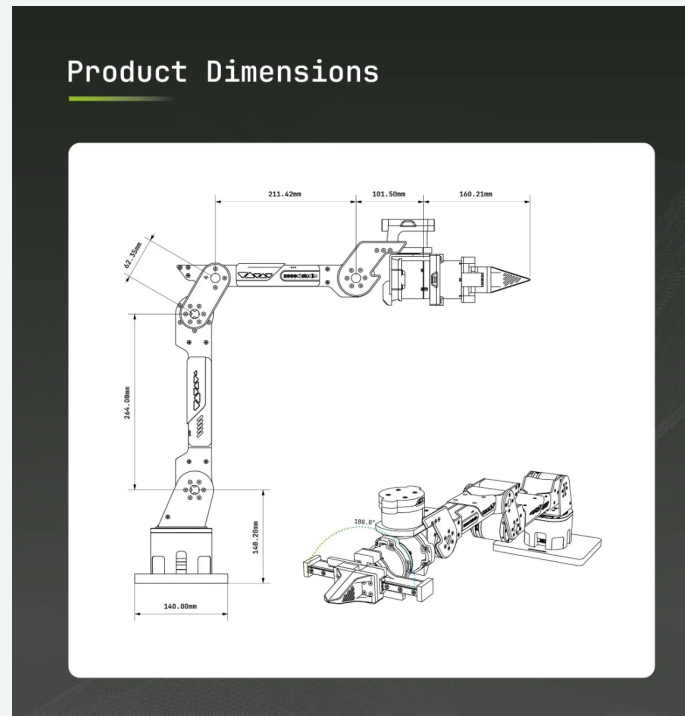
Specification

Compatible Model	reBot Arm B601-DM (without gripper)
Includes	Full set of robotic arm structure parts
Not Included	Motors, drivers, control board, gripper, cables & wires, power supply

Assembly Method

Self-assembly required

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.

Part List

Item Name	Quantity
Metal Parts	21
3D Printed Parts	17
Screw KM3x7mm	67
Screw KM3x9mm	31
Screw KM3x12mm	23
Screw KM3x16mm	17
Screw KM3x8mm	8
Screw KA3x12mm	59
Screw HM4x75mm	4
Dowel Pin D3xL8mm	3
Dowel Pin D4xL7mm	7
Dowel Pin D4xL10mm	7
Dowel Pin D4xL14mm	4
Hex Key Wrench Set	1

Compliance & Logistics

HSCODE	8479909090
USHSCODE	9023000000
UPC	
EUHSCODE	9023001000
COO	CHINA

Resource Links

- <https://www.seeedstudio.com/reBot-Arm-B601-DM-Body-Structure-Kit-p-6753.html>
- [reBot one-pager datasheet](#)
- [reBot open-source GitHub repo](#)
- [Mechanical Arm DIY Kit - Safety Disclaimer and Risk Notice](#)

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