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INDUSTRIAL PRODUCT DATASHEET

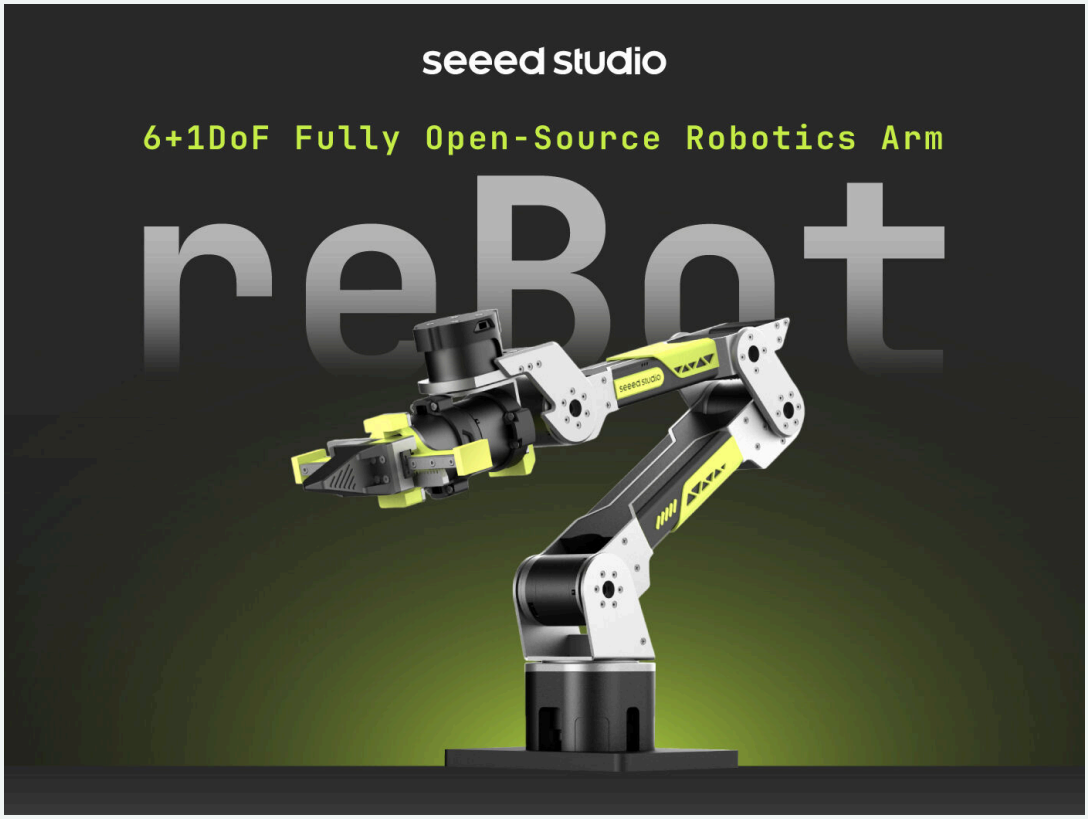
reBot Arm B601-DM Unassembled Kit

Engineered for true open-source robotics.

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Overview



Engineered for true open-source robotics. The reBot Arm B601-DM combines a 1.5 kg rated payload, ±0.2 mm repeatability, and a fully open-source ecosystem—including hardware, software, CAD, BOM, SDK, and tutorials—to accelerate sim-to-real learning, teleoperation, and Physical AI development. [image] https://www.seeedstudio.com/bazaar-fw1k26s/cms/wysiwyg/directive/_directive/e3ttZWRpYSB1cmw9Ind5c2l3eWcvX181MC5qcGcifX0%2C/key/3e9cf8a4681ff19a89b178d177b4e3d54ccb6c497294a020b96bc0bb97122b94

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.

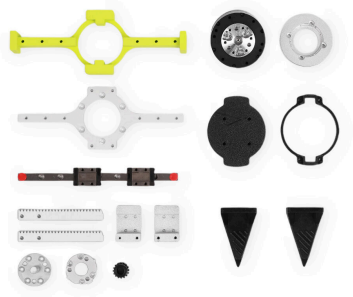
05 **Constant Content Updates**

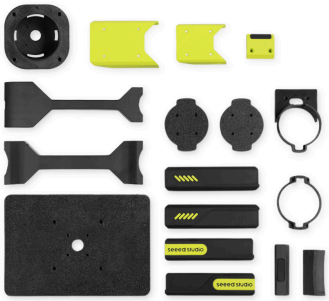
As the project progresses, we will gradually update the latest algorithms and launch a series of completely free courses.

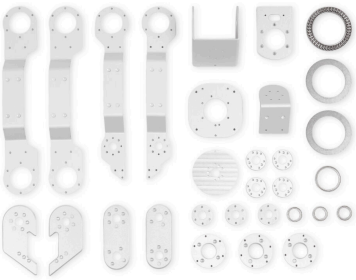
Product Gallery











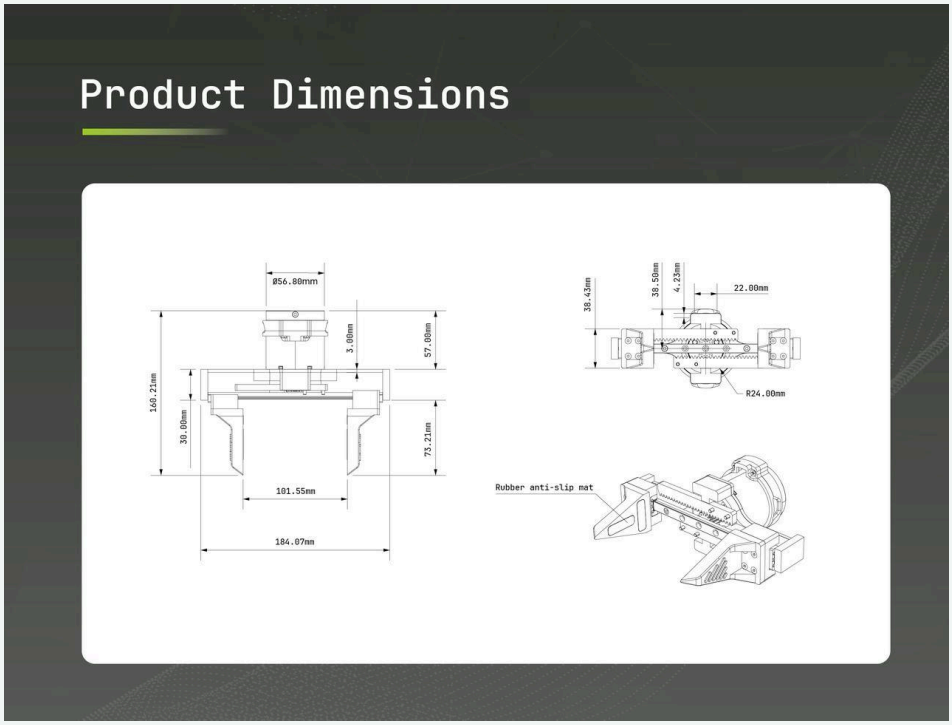


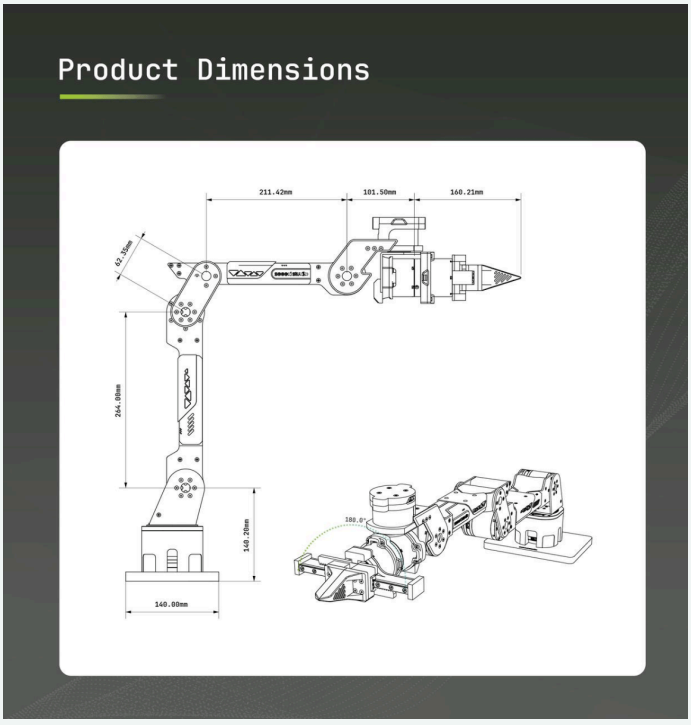

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reBot Arm B601-DM
Gripper Kit


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reBot Arm B601-DM
Body Structure Kit


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reBot Arm B601-DM
Body Motor Kit

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.
- **Your Physical AI Project Deserves the Spotlight!:** Seeed Studio's monthly "Physical AI Project of the Month" is now open for submissions—whether you're building with the reBot Arm (B601-DM/RS) or the SO-ARM (100/101), this is your chance to showcase your work to the global robotics community and get featured by Seeed Studio!
- **Join our Discord community for discussions and support:**
- **https://discord.gg/wsfpnbm3cU**

Resource Links

- https://www.seeedstudio.com/reBot-Arm-B601-DM-Bundle.html
- reBot one-pager datasheet
- reBot open-source GitHub repo
- Mechanical Arm DIY Kit - Safety Disclaimer and Risk Notice

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