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INDUSTRIAL PRODUCT DATASHEET

reBot Arm B601-RS Assembled Bundle

The reBot Arm B601-RS Assembled Bundle is an open, affordable 6+1-DoF robotic arm with ±0.1 mm repeatability and compatibility with leading robotics frameworks for sim-to-real learning, research, teleoperation, and industrial...

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Overview



The reBot Arm B601-RS Assembled Bundle is an affordable, completely open 6+1-DoF robotic arm built for Physical AI and sim-to-real learning, featuring ±0.1 mm repeatability powered by RobStride Dynamics motors and compatibility with ROS, NVIDIA Isaac Sim, LeRobot, and Pinocchio. It supports learning and building robotics through comprehensive tutorials, research and laboratory automation, teleoperation and Physical AI, and industrial automation and logistics including precision assembly, inspection, sorting, and material handling.

Key Features

01 **Built for Physical AI — Affordable 6+1-DoF robotic arm for sim-to-real learning.**

02 **Completely Open — Hardware, software, CAD, SDK, BOM, and algorithms included.**

03 **Learn Faster — Comprehensive tutorials from assembly to deployment.**

04 **Always Improving — Free algorithm updates, demos, and learning resources.**

05 **Precision Motion — ±0.1 mm repeatability powered by RobStride Dynamics motors.**

06 **Robotics Ecosystem —**

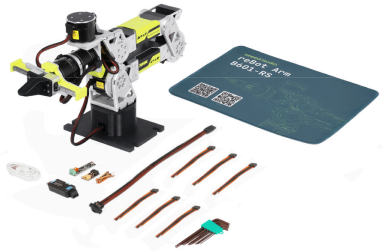
Compatible with ROS, NVIDIA Isaac Sim, LeRobot, Pinocchio.

07 **More Robotics for Less — Professional capabilities at an accessible price.**

Product Gallery

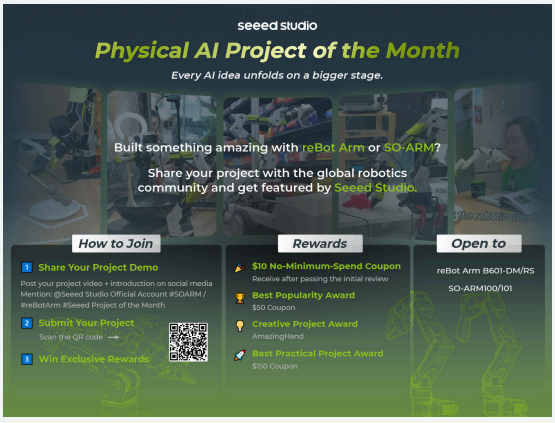




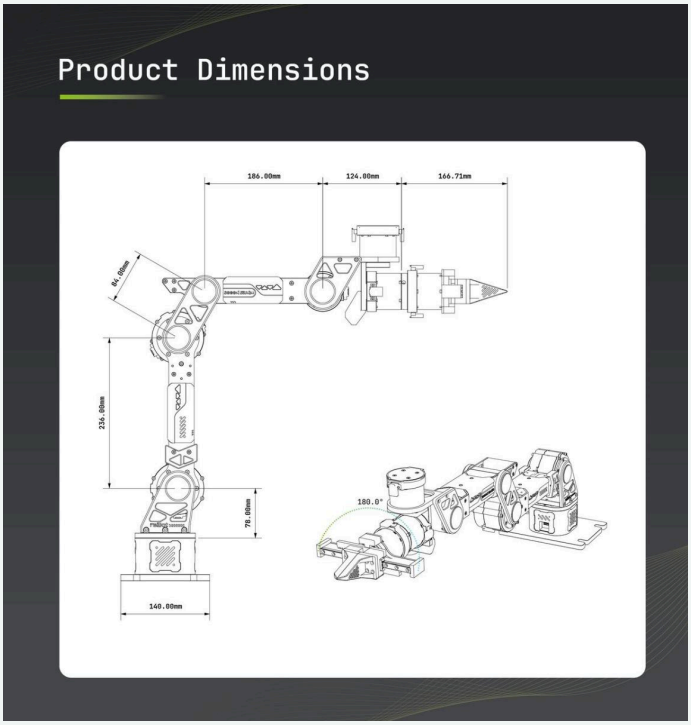


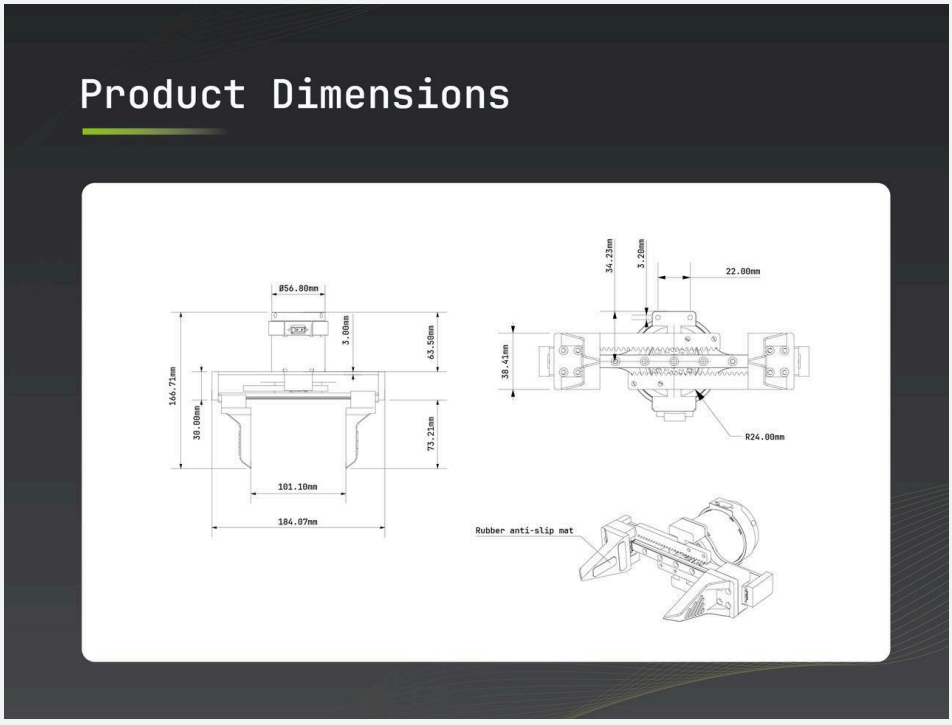






Hardware Overview





Applications

- **Learn & Build Robotics Easily:** Lower the barrier to robotics with step-by-step tutorials. The reBot Arm B601-RS helps you go from assembly to intelligent robot control quickly and confidently.
- **Research & Laboratory Automation:** High-precision robotics for liquid handling, sample transfer, and laboratory workflows. Built for repeatability, delicacy, and rapid experimentation.
- **Teleoperation & Physical AI:** Power real-time control, data collection, and sim-to-real learning with leading robotics frameworks including LeRobot and Isaac Sim. A dexterous “hand” for embodied AI.
- **Industrial Automation & Logistics:** ±0.1 mm precision, up to 5 kg payload. The reBot Arm B601-RS enables precision assembly, inspection, sorting, and material handling in manufacturing and warehouse environments. Compact and easy to integrate into existing production lines and workcells.

Resource Links

- https://www.seeedstudio.com/reBot-Arm-B601-RS-Bundle-p-6898.html
- Document

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