seeed studio

INDUSTRIAL PRODUCT DATASHEET

reBot Arm B601-RS Bundle with Jetson Thor

Fully assembled, open-source reBot Arm B601-RS robotic arm bundle with NVIDIA Jetson AGX Thor for VLA deployment, sim-to-real learning, research automation, teleoperation, and industrial applications.

SKU	UPDATED	PRICE
E26062402	2026-09-11 12:44:04	$0.00(Excl. VAT)



Overview



The reBot Arm B601-RS Bundle with Jetson Thor is a fully assembled, plug-and-play open-source robotic arm kit paired with an NVIDIA® Jetson AGX Thor™ Developer Kit for on-site VLA model deployment such as GR00T, PI, and OpenVLA. It supports ROS1/2, NVIDIA Isaac Sim, Hugging Face LeRobot, and Pinocchio, enabling applications from sim-to-real learning and teleoperation to research automation and industrial tasks with ±0.1 mm precision and up to 5 kg payload.

Key Features

⚠️Buying Guide

This is a **fully assembled version**, ready to use out of the box. **Items pre-selected are essential** for smooth robotic arm operation. If you'd like to **explore teleoperation**, please purchase the "Star Arm 102 (Leader Arm)" and "12V 2A AC/DC Adapter (5-in-1)" together. **A mounting G-clamp is required** to securely fix the robotic arm to a workbench. Please make sure to include one if you do not already have it. All other accessories are optional and can be purchased as needed.

- **Plug-and-play bundle:** Assembled robot arm kit plus NVIDIA® Jetson AGX Thor™ Developer Kit, allowing on-site VLA model deployment such as GR00T, PI, OpenVLA etc.
- **Fully Open-Source:** 100% open-source robotic arm, certified with CERN-OHL-W 2.0, in terms of both hardware and software. It includes the BOM list, hardware drawings, software, and algorithms, everything you need.
- **Detailed Assembly Tutorials:** Provides extremely detailed illustrated and video assembly tutorials, wiring instructions, calibration procedures, and environment deployment tutorials, lowering the entry barrier for robot development.
- **High-performance motors**: The reBot Arm B601-RS uses 4pcs RS-00 motors and 3pcs RS-06 high-torque, low-noise high-performance motors, providing the robotic arm with stable and precise power output..
- **Framework Compatibility:** Supports mainstream robotics development frameworks such as ROS1/2, NVIDIA Isaac Sim, Hugging Face LeRobot, Pinocchio, etc.
- **Constant Content Updates:** As the project progresses, we will gradually update the latest trending algorithms and launch a series of completely free tutorials.

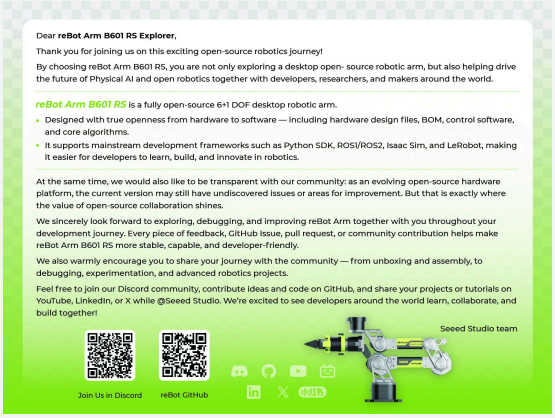
Product Gallery

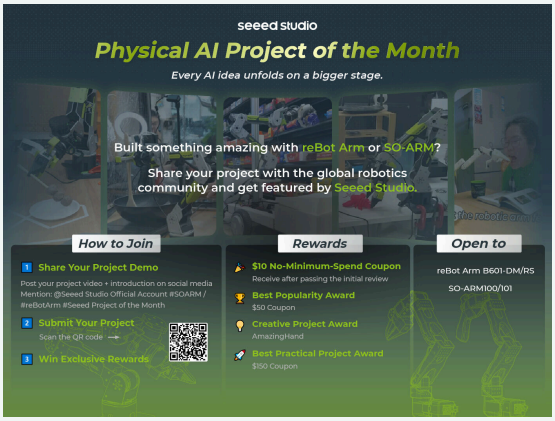












Specification

Degrees of Freedom	6+1
Reach	587.5mm-754.7mm(without gripper)
Payload	2.5kg (Rated load)-5kg(Maximum load)

Repeatability	0.1 mm
Weight	6.7kg
Servos	ROBSTRIDE 06*3 & ROBSTRIDE 00*4
Operating Temperature	-20°~50°
Power	DC 48V 15A
ROS1	✅
Moveit1	✅
ROS2	✅
Moveit2	✅
Python	✅
Lerobot	✅
Isaac Sim	✅
Pinocchio	✅
Open Source	✅

Hardware Overview

Application / Devices	Sim-to-Real VLA DLI Course	GraspNet	Voice-control
reBot B601-DM (plus power supply)		✓	✓
reBot B601-RS (plus power supply)	✓		
star 102 Arm (plus power supply)	✓		
NVIDIA Jetson AGX Thor Developer Kit	✓		✓
NVIDIA Jetson Orin Super Developer Kit		✓	
2D Camera (Could use any ET-S231 USB camera from vision accessories list)	✓		
3D Camera (Could use any Orbbec/Realsense camera from vision accessories list)		✓	✓
reSpeaker			✓

Applications

- **Sim-to-Real learning course:** Seeed Studio collaborates with NVIDIA to introduce a new hands-on curriculum for developers: from robot demonstrations and simulation to VLA post-training and real-world deployment. This course guides learners through hardware setup, data collection, model training, simulation validation, and finally deployment and inference on reBot ARM B601-RS and NVIDIA® Jetson AGX Thor™.
- **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.

Part List

Assembled Robotic Arm (with gripper)	1
RobStride USB-CAN Driver Board	1
CANABLE	1
XT30 2+2 Power Separation Board	1
Hex key wrench set	1
Mouse pad	1
Wire kits	1
Power Adapter for reBot Arm B601-RS	1
NVIDIA® Jetson AGX Thor™ Developer Kit	1

Resource Links

- https://www.seeedstudio.com/reBot Arm B601-RS Bundle with Jetson Thor-p-6896.html
- reBot Arm Github
- Tool
- NVIDIA® Jetson AGX Thor™ Developer Kit Datasheet

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