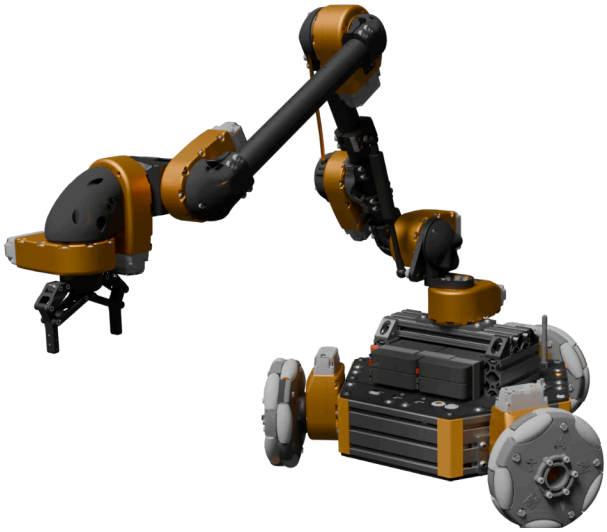
Rosie

Omni-Directional Mobile Base with 6-DoF Arm and Gripper

Rosie is a fully integrated mobile manipulation platform designed specifically for education and research uses. The Omni Wheels provide complete freedom of movement in any direction while the 6-DoF arm allows the robot to interact directly with its environment.

Motive power is provided by HEBI's patented T-Series actuators and can be configured with a range of geartrains depending on speed/payload preferences. Battery powered, the Rosie platform is perfect for classrooms or labs developing mobile manipulator software or teaching the next generation of roboticists about AMRs.



Rosie comes by default with a T-Series 6-DoF arm, but can be configured with any HEBI T-Series or R-series arm. The T-Slot mounts on the base and top of the robot allow for a near-infinite variety of sensors to be deployed on the robot and connected via Ethernet to the onboard Intel computer. Onboard computing options depend on end use, so ask about available options when placing your order. Scale your edge computing power to match your desired software and hardware stack.

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ROSIE – TECHNICAL SPECIFICATIONS

DEFAULT CONFIGURATION

Weight	15 kg with two batteries
Linear Speed	0.5 m/s (with T8-3 actuators)
Batteries	2x HEBI "Wattman" Batteries, 93.6Wh (36V, 2.6Ah) per battery. Hot-swappable.
T-Series Actuators	HEBI Mounting brackets and Hardware Included **ARM:** 3x T8-9+ (Base, Shoulder, Elbow) | 3 T5-9+ (Wrist, Gripper) | 1x T5-4+ (Wrist) **BASE:** 3x T8-3+
Accessories	3x 6" Omni-Wheels 1x HEBI Parallel Gripper Assembly
Mechanical Interface	T-Slot Extrusion (80/20®) Easy integration of additional components or sensors
Integrated Electronics	Intel® NUC Computer | Wireless Access Point | Ethernet Switch | Power Electronics
Bulkhead Connectors	1x HDMI | 3x USB-A | Ethernet Port to Internal Switch | M-Stop Button 2x RF Antenna for Wireless Access Point | Power Output for T-Series Actuators | Anderson Powerpole connectors (Battery) | Additional 5A Power Outputs: 5V, 12V, 24V | Power Buttons: Computer (Red LED) and Actuator (Green LED)
Software	Virtual Joystick Control via HEBI Mobile I/O App (iOS / Android) Example code also available via MATLAB and ROS.
API Support for Actuator / Arm Control	MATLAB (Windows / Linux / OS X) ROS (Linux) Python (Windows / Linux / OS X) C/C++ (Windows / Linux / OS X) C# (Windows)

Request a quote for your Rosie at **hebirobotics.com**
Additional technical documentation and arm specifications/options at **docs.hebi.us**

Updated on 7/10/2026. Specifications subject to change without notice.

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