# HEBI ROBOTICS

## "Rosie"

### Omni-Directional Mobile Base w/ 6-DoF Arm and Gripper

Rosie is a fully integrated mobile manipulation platform that is great for education and research.

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|---|---|
| **Weight** | 16.5 kg (with four batteries) |
| **Linear Speed** | 0.5 meters per second (with X8-3s) |
| **Batteries** | Grin Technologies, LiGo Battery (Fits up to 4)<br>36V 2.7Ah, 98Watt*Hrs, 10A Max |
| **Battery Life**<br>**(Using 2 Batteries)** | 1-2 Hours<br>Ability to hot-swap batteries for uninterrupted use |
| **X-Series Actuators** | HEBI Mounting Brackets and Wiring Included<br>3x X5-1 (Wrists)<br>1x X5-9 (Gripper)<br>3x X8-3 (Wheels)<br>2x X8-9 (Base and Elbow)<br>1x X8-16 (Shoulder) |
| **Accessories** | 3x 6" Omni-Wheels<br>1x HEBI Parallel Gripper Assembly |
| **Mechanical Interface** | T-Slot Extrusion (80/20®)<br>Easy integration of additional components or sensors |
| **Integrated Electronics** | Intel® NUC Computer<br>Ethernet Switch<br>Wireless Access Point<br>Power Electronics |
| **Bulkhead Connectors** | 1x HDMI to Computer<br>Ethernet Port to Internal Switch<br>3x USB to Computer<br>M-Stop Button<br>2x RF Antenna for Wireless Access Point<br>Anderson Powerpole Power Connectors for Batteries<br>Power Output for X-Series Actuator<br>Additional Power Outputs for 5V, 12V, and 24V (5A each)<br>Computer (White LED) and Actuator (Blue LED) Power Buttons |
| **Software** | Joystick Control with **HEBI Mobile I/O App** (iOS and Android)<br>Example code currently available in MATLAB or ROS |

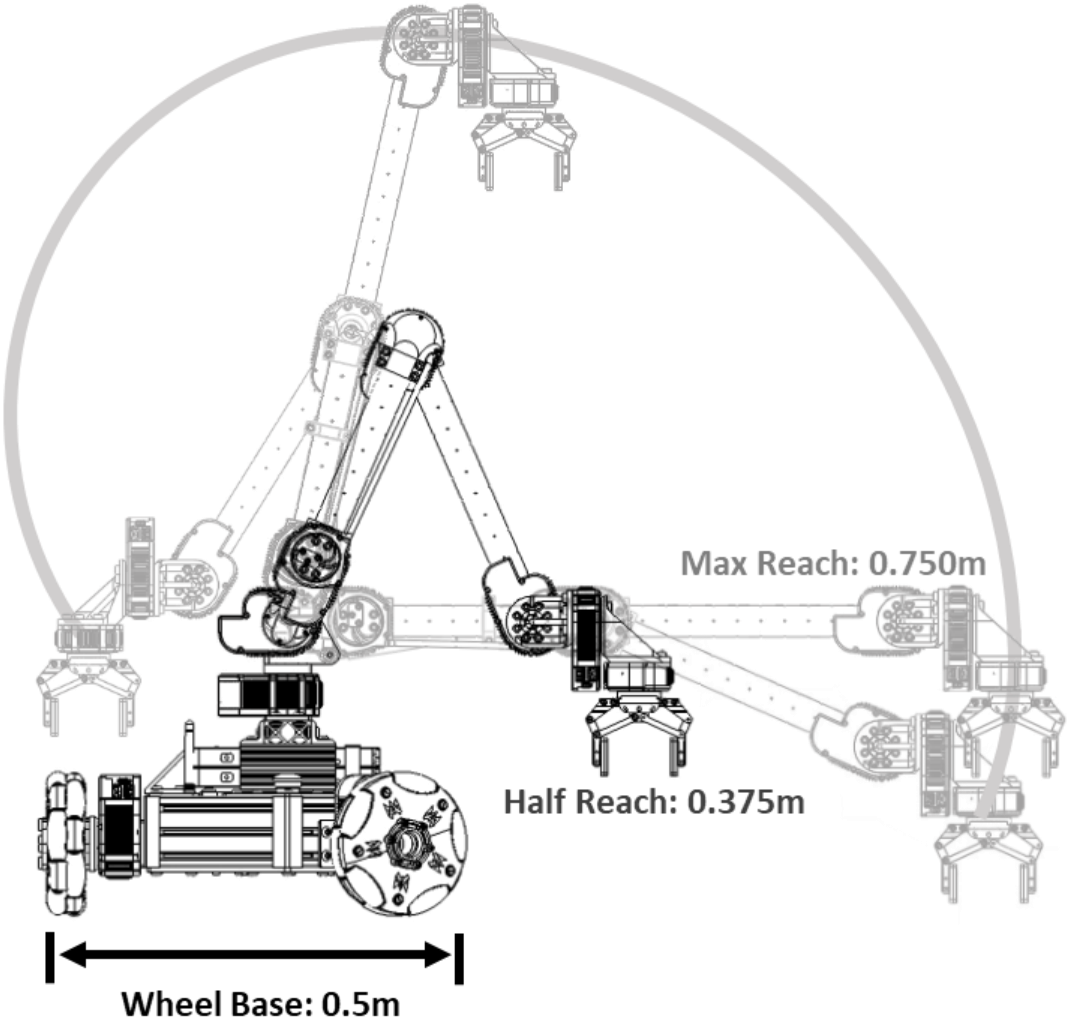
HEBI

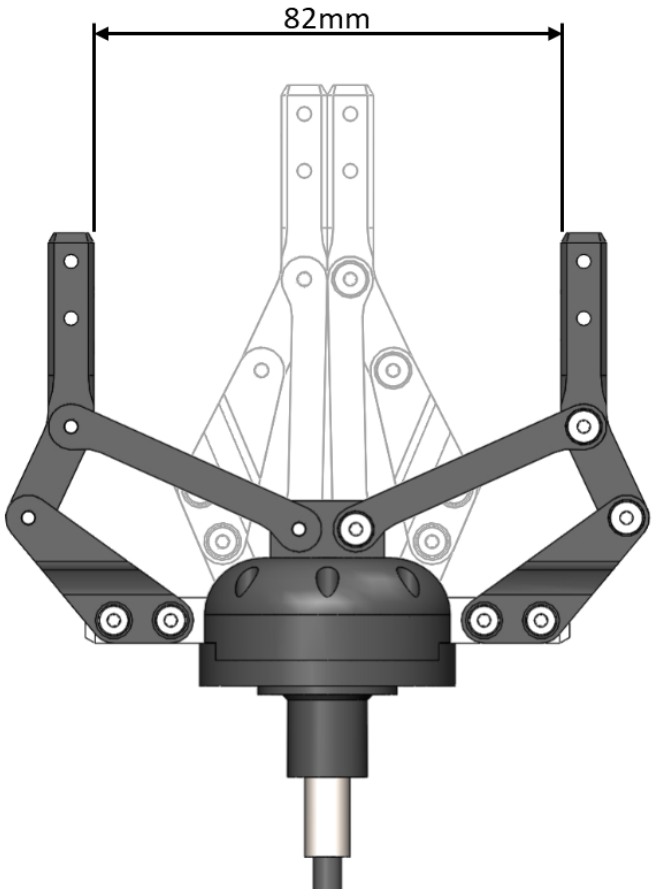
Request a quote at [www.hebirobotics.com](http://www.hebirobotics.com)

# Arm and Gripper Configuration

| | | | |
|---|---|---|---|
| Arm Max Reach | 750 mm | Gripper Max Finger Torque (X5-9) | 1.1 Nm |
| Arm Payload @ Max Reach* | 0.6 kg | Gripper Max Finger Force (50mm from Pivot) | 23 N |
| Arm Half Reach | 375 mm | Parallel Gripper Stroke Length | 82 mm |
| Arm Payload @ Half Reach* | 3.5 kg | Arm and Gripper configuration are customizable upon request | |

* Payloads calculated with default 6-DoF Arm configuration and no gas spring*




HEBI Robotics | 91 43rd Street, Suite 200, Pittsburgh, PA 15201
hebirobotics.com | info@hebirobotics.com