Elephant Robotics

# MYARM M&C SERIES ROBOTS

END-TO-END DATA TRAINING & REPRODUCTION | RESEARCH | COMMERCIAL DEMOS

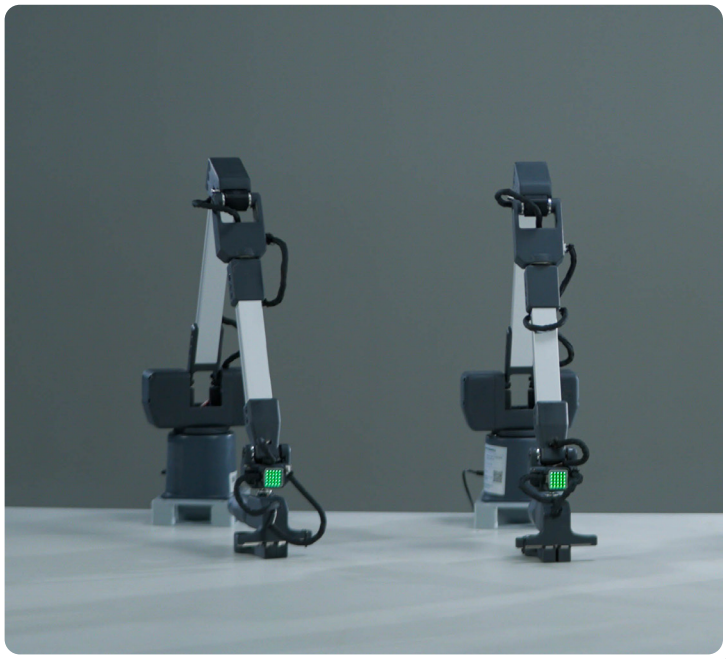

C650 for data collection

Humanoid embodiment studies

M&C for dual-arm teleoperationteleoperation

Robotic dog with arm integration

M750 for data testing



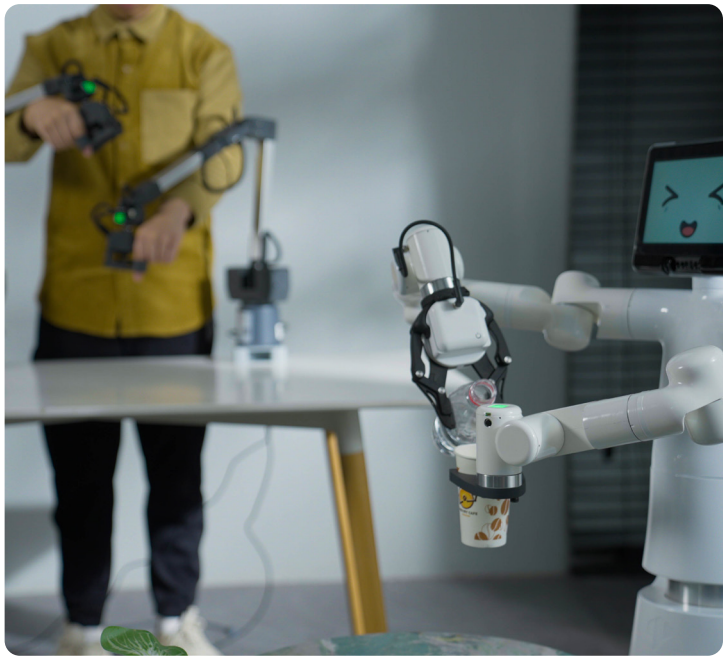
# myArm Controller 650

## Product Description

myArm C650 is a flexible 6-DOF robot data collector with finger controls and 2 smart buttons. It outputs coordinates or joint angles at 50Hz, ideal for education, research, and industrial data gathering. Its modular design suits complex tasks and can expand to 7-DOF.

## Application Scenarios

- As a data collector: Gather real-time motion path data for training and replication.
- As a teaching aid: Remote control for various types of robots.
- As an educational tool: Collect robot motion data for robotics education and research.



## Featured Functions

- 6-DOF Robotic Arm: Mimics human arm flexibility for multi-angle, multi-directional remote control.
- Universal Data Collection: Adaptable for various data needs like motion and environment.
- Modular Design: Easy upgrades, maintenance, and customization.
- Multiple Connections: USB, wireless, Bluetooth for flexible use.
- Programming Support: Compatible with Python and ROS for developers.
- High Precision: 4096-bit encoders for precise control.
- High-Speed Sampling: Up to 200Hz for capturing subtle movements.
- Built-in Display: Real-time feedback on machine status.

# myArm Master 750

## Product Description

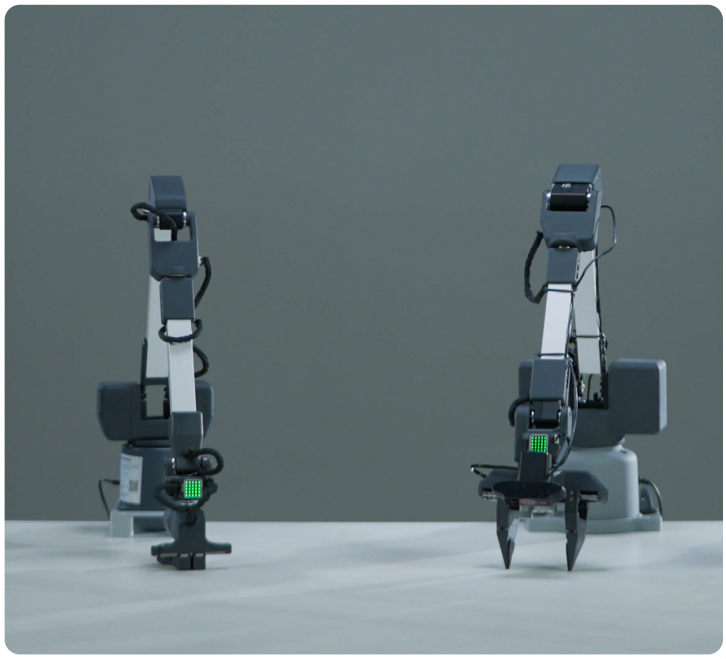
The myArm M750, a versatile 6-DOF robotic arm, features a 750mm reach, handles loads up to 1kg, and comes with a 1-DOF manipulator. "M" signifies its role as a Master Controller. Ideal for precise, complex motion and programmability.

## Application Scenarios

- As a standardized arm: For robot kinematics and scenario validation.
- As C650's verifier: Explores and develops remote control applications.
- As an educational tool: Supports robotics design and analysis teaching.

## Featured Functions

- 6-DOF modular design for complex tasks' flexibility and scalability.
- Industrial servo motors ensure precise, stable operations.
- High-precision encoders offer detailed position and speed data, optimizing performance.
- Supports multiple development platforms like Python and ROS.
- Localized drag-and-teach for intuitive, device-independent learning.
- Custom embedded software simplifies tasks with a friendly interface.
- A 2-inch display shows real-time status and feedback.



# myArm M&C Dual Arm Teleoperated Robotic Arm Kit

## Product Description

The myArm M&C teleoperation kit includes two myArm C650 controllers and two myArm M750 actuators for left and right-hand operation. Its integrated design offers advanced solutions for remote control, educational, and multi-robot collaboration.

## Application Scenarios

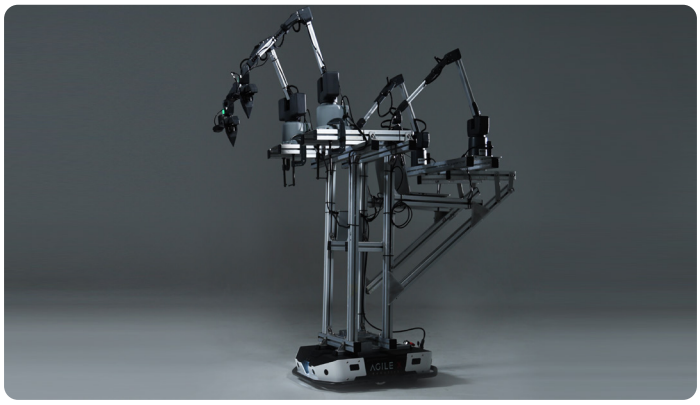
- Verifying ALOHA's motion control algorithms: Serves as a testbed for localized algorithm verification.
- Remote lab operations: Enables remote control of arms in hazardous or remote areas.
- Robotics programming education: Offers students hands-on control and coding experience to enhance understanding of robot systems.

## Featured Functions

- Millisecond-level data collection/control: Boosts responsiveness, efficiency, and precision.
- Real-time drag control: Enhances ease of learning and use.
- Motor status monitoring: Ensures safe, stable operations.
-Multi-machine collaboration: Suitable for complex tasks.
-Open-source software: Allows custom flexibility and expansion.
-Supports Python/ROS: Ideal for education and research.
Modular design: Simplifies maintenance and upgrades.

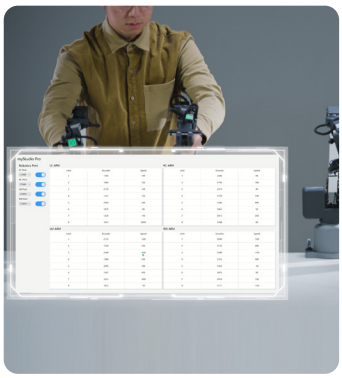
# myArm M&C Composite Possessive Humanoid Kit

The myArm M&C humanoid kit pairs an advanced arm with a mobile base, enriching robotics research, exploration, and diverse applications.



## Application Scenarios

Mobile Surveillance/Security: Enhances arm reach with a mobile base for facility monitoring.
Education/Research: A platform for studying mobile robotics, covering navigation, recognition, and interaction.



## Product Features

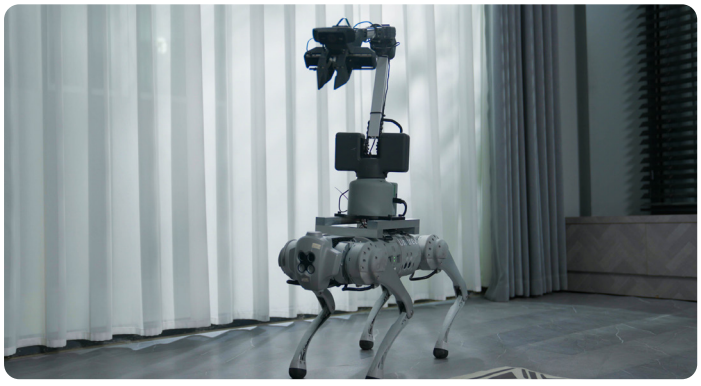
Intelligent indoor navigation: Auto-path planning enhances movement efficiency and safety.
Independent arm/chassis control: Adds flexibility across various scenarios.
User drag control support: Intuitive, lowers entry barrier.
Python/ROS development support: Offers robust programming and customization.

# myArm M&C Quadruped Robot Composite Kit

The Quadruped Robot Composite Kit merges quadruped mobility with arm precision, offering a versatile platform for exploration, research, and various settings.

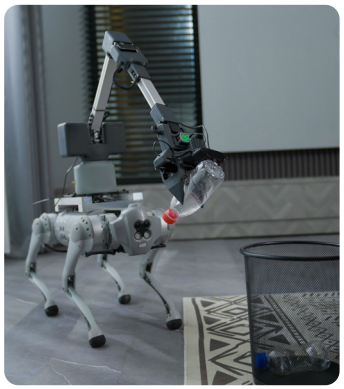
## Application Scenarios

Complex Terrain Exploration: For data collection in tough terrains like mountains or ruins.
Automated Agriculture: For tasks like crop monitoring and spraying in agriculture.
Lab/Classroom Teaching: Offers a practical platform for studying robot dynamics, arm control, and AI.



## Product Features

Easy Setup and Connection: Streamlines setup, quick start without extra controllers.
Dynamics Development Support: Ideal for advanced motion analysis and app development.
Balancing Algorithm Validation: Enhances stability and precision.
ROS Trajectory Planning Support: Facilitates complex path and task planning.



## Software Ecology

python™

ROS

## Function Support

Target Position

Current Position

Current Speed

Target Speed

Acceleration

Current Temperature

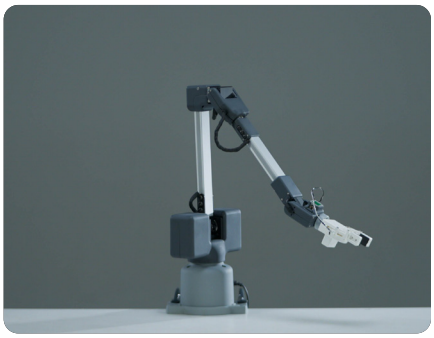
Current Voltage

Current Current

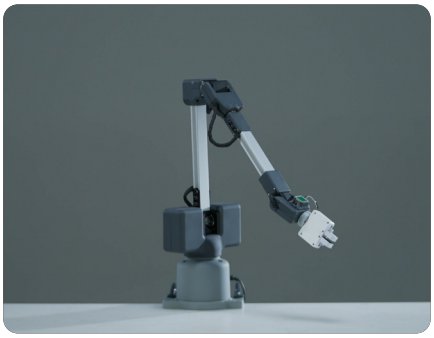
Target Speed

Torque Switch

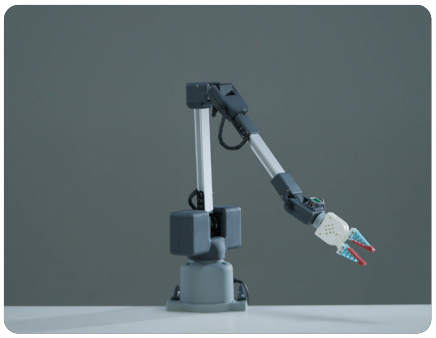
## Peripheral Accessories-M750 Universal



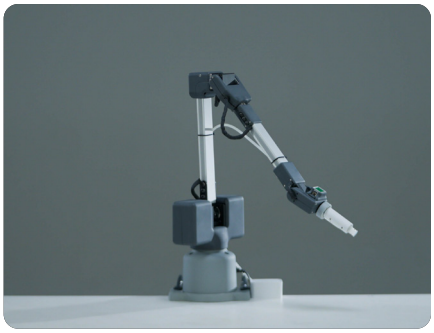
myCobot Adaptive Gripper



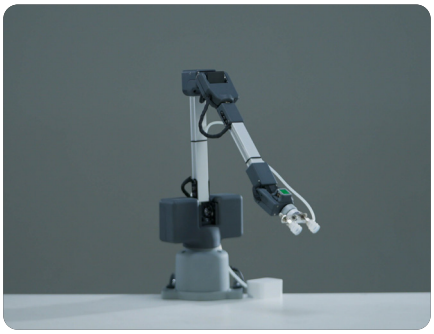
myCobot Parallel Gripper



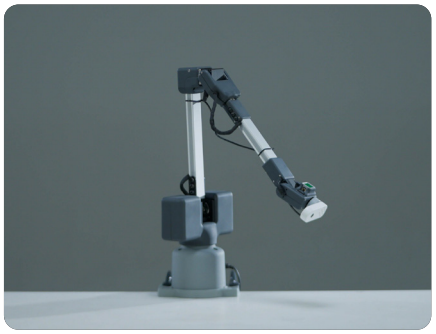
myCobot Flexible Gripper



myCobot Vertical Suction Pump V2.0

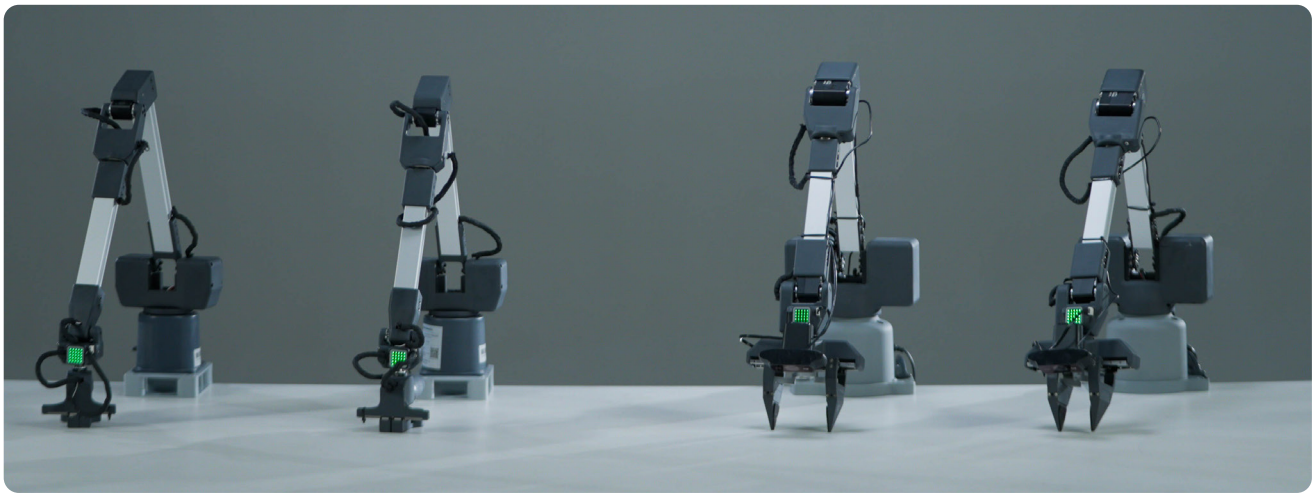


myCobot Dual Suction Pump



myCobot Camera Mount V2.0

# Hardware Parameter List



| Model | myArm C650<br>Controller | myArm M750<br>Master actuator |
|---|---|---|
| **slogan** | Universal 6-degree-of-freedom robot motion information collection device | Universal intelligent 6-degree-of-freedom robotic arm |
| **Applicable fields** | Scientific research, development, end-to-end AI data collection, industrial robot trial teaching | Education, development, research, labs for machine learning, AI and vision-based tasks |
| **Product package contents** | myArm C650 arm*1<br>12V5A power adapter*1<br>USB data cable*1 | myArm M750 arm*1<br>24V5A power adapter*1<br>USB data cable*1<br>J6 joint Lego interface adapter*1 |
| **DOF** | 6+1 | 6+1 |
| **Load capacity** | - | 500g |
| **Horizontal reach** | 650mm | 750mm |
| **Self-respect** | 1.8kg | 3.2kg |
| **Power Specifications** | 12V5A | 24V5A |
| **Repeatability** | ±1mm | ±1mm |
| **Workload** | - | Rated 500g, peak 1Kg |
| **I/O** | 3.3V digital signal | 24V digital signal |
| **End effector** | Two-finger remote control + two-button control | Parallel jaws, optional camera adaptation |
| **software** | Python、C++、ROS(urdf)、Socket | |

Elephant Robotics

Rooms D403, D504, D505, Smart Ark Intl Intelligent Hardware Innovation Center, Block D,
Huaqiang North Electronic Technology Building, Futian, Shenzhen
Tech Support: support@elephantrobotics.com
Phone: +86(0755) 8696 8565

**sales@elephantrobotics.com**
**info@elephantrobotics.com**