

# Empowering Research and Development: Introducing the myCobot 320 AI Kit 2023 by Elephant Robotics

NEW YORK, USA, June 19, 2023

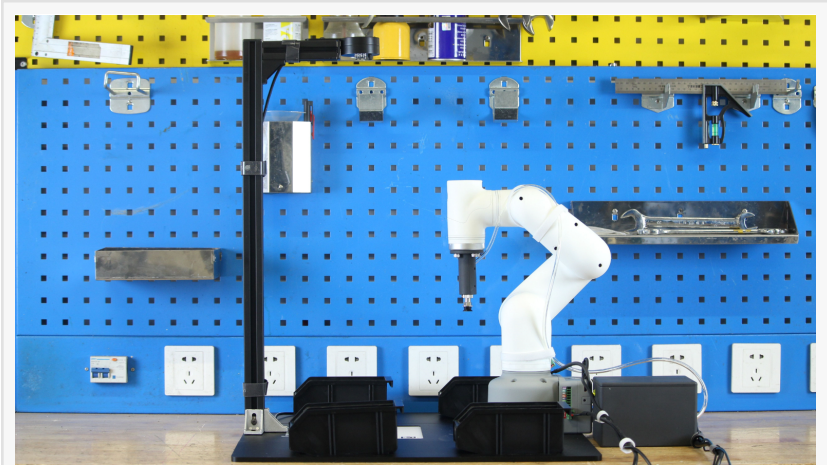
[/EINPresswire.com/](https://EINPresswire.com/) -- Elephant

Robotics is proud to present its latest innovation, the [myCobot 320 AI Kit 2023](#). This remarkable kit introduces support for the myCobot 320 6-axis collaborative robotic arm, a compact yet powerful tool designed for user-programmable development. With its extended working radius, increased payload capacity, and intelligent gripping capabilities, the myCobot 320 AI Kit 2023 opens up a world of possibilities for commercial applications, educational research, and creative development. Let's delve deeper into the key features that make this kit a game-changer in the field of robotics.

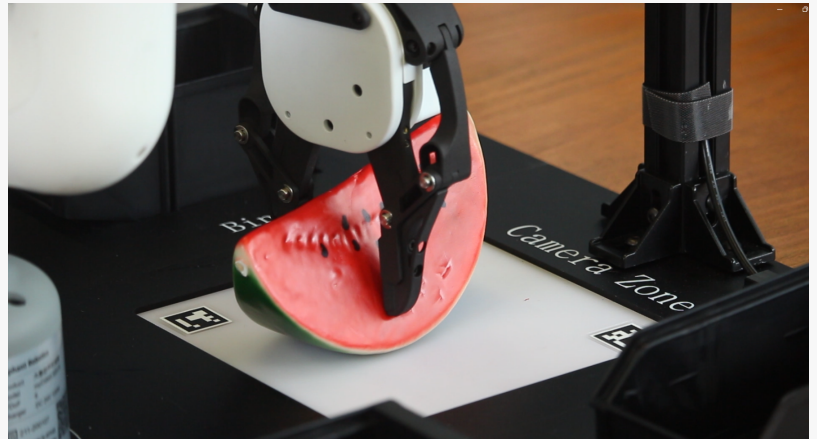
**1. Larger Working Radius and Payload:**  
The myCobot 320 AI Kit 2023 offers an expanded working radius of 350mm, a significant increase from its predecessors' 280mm radius.

Additionally, the kit boasts a remarkable payload capacity of up to 1kg, a substantial improvement from the previous 200g capacity. This enhancement empowers the robotic arm to operate effectively across a broader range of application scenarios, enabling it to handle heavier objects with ease. Whether it's assembling intricate components or manipulating substantial objects, the myCobot 320 AI Kit 2023 provides the versatility needed to accomplish diverse tasks.

**2. Gripper Supports Intelligent Identification:**

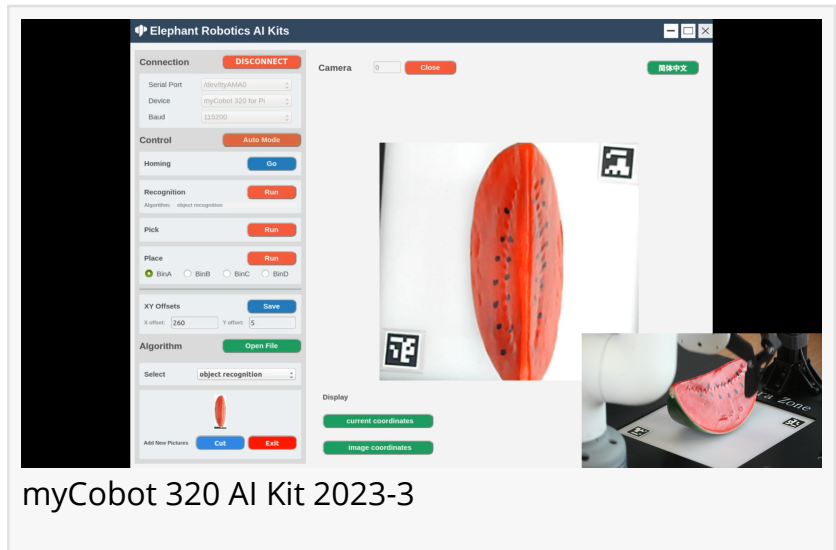


myCobot 320 AI Kit 2023-01



myCobot 320 AI Kit 2023-2

Unlike its predecessor, the myCobot 320 AI Kit 2023 introduces support for grippers. Leveraging the high payload capacity of the myCobot 320, this kit now enables object recognition and intelligent grasping using grippers. The addition of gripper support allows the kit to identify and grip objects of varying sizes and weights. This enhancement greatly enhances the capabilities of the kit, making it a more adaptable and versatile tool for a wide range of tasks. From precise



myCobot 320 AI Kit 2023-3

manipulation to efficient pick-and-place operations, the myCobot 320 AI Kit 2023 is ready to take on the challenges of robotics development.

### 3. Five Vision Recognition Algorithms:

Equipped with five advanced vision recognition algorithms, the myCobot 320 AI Kit 2023 brings a new level of sophistication to object recognition and tracking capabilities:

**Color Recognition:** Leveraging computer vision techniques, this algorithm analyzes RGB values to identify and differentiate between various colors. It allows the kit to interact with objects based on their color properties.

**Shape Recognition:** This algorithm analyzes object contours and extracts unique features to identify objects with different shapes. By understanding the shape of an object, the kit can perform specific tasks that require shape-based identification.

**QR Code Recognition:** Utilizing the powerful Aruco library, this algorithm detects and decodes QR codes present in images. This feature opens up possibilities for applications involving QR codes, such as inventory management and object tracking.

**Feature Point Recognition:** By identifying points with distinct properties in images, this algorithm enables image matching and accurate object tracking. It facilitates precise interaction with specific points of interest, expanding the kit's capabilities in complex tasks.

**YOLOv5 Object Detection:** Powered by deep learning, this algorithm predicts object positions and categories in images, enabling fast and accurate object detection. With its robust object detection capabilities, the kit can quickly respond to changes in its environment.

### 4. Visualization Software:

The myCobot 320 AI Kit 2023 provides a user-friendly visualization software interface, allowing users to choose visual algorithms for automatic recognition, grasping, and placement. This

intuitive software supports step-by-step execution, enabling users to gain a comprehensive understanding of the underlying principles by selectively running recognition, grasping, or placement tasks individually. The visual user interface (UI) and open architecture of the kit make it highly suitable for research, education, and creative projects. With the myCobot 320 AI Kit 2023, users can explore the fascinating world of robotics in a user-friendly and interactive manner.

#### 5.Parameters and Old vs. New Comparison:

In comparison to its predecessors, the myCobot 320 AI Kit 2023 offers several significant parameters and improvements that elevate its performance and versatility. The kit boasts a larger arm span, enabling it to access a broader working area while maintaining precision. Additionally, the enhanced payload capacity and support for grippers make it capable of handling a wider range of objects, enabling more complex tasks to be accomplished. The kit also showcases improved recognition accuracy, faster recognition speeds, and supports various resolutions. These advancements enhance the overall efficiency and effectiveness of the myCobot 320 AI Kit 2023, ensuring that it remains at the cutting edge of robotics technology.

#### Conclusion:

Elephant Robotics, a specialized and nationally recognized high-tech enterprise, continues to lead the way in providing innovative robot solutions for scientific research, education, and maker development. The myCobot 320 AI Kit 2023 exemplifies their dedication to delivering high-performance, cost-effective, and user-friendly robotics solutions. With its larger working radius, increased payload capacity, intelligent gripping capabilities, advanced vision recognition algorithms, and intuitive visualization software, the kit opens up endless possibilities for robotics enthusiasts, researchers, educators, and creative individuals. As Elephant Robotics strives to create a robot world that people can enjoy, the myCobot 320 AI Kit 2023 represents a significant milestone in their pursuit of empowering individuals with cutting-edge robotics technology.

#### Marketing & Sales team

Elephant Robotics

+86 755 8696 8565

[email us here](#)

Visit us on social media:

[Facebook](#)

[Twitter](#)

[LinkedIn](#)

[Other](#)

---

This press release can be viewed online at: <https://www.einpresswire.com/article/640226257>

EIN Presswire's priority is source transparency. We do not allow opaque clients, and our editors try to be careful about weeding out false and misleading content. As a user, if you see something we have missed, please do bring it to our attention. Your help is welcome. EIN Presswire, Everyone's Internet News Presswire™, tries to define some of the boundaries that are reasonable

in today's world. Please see our Editorial Guidelines for more information.

© 1995-2023 Newsmatics Inc. All Right Reserved.