



TOBOIDS AUTOMATA® 5-DOF ROBOTIC MANIPULATOR

"Bringing humanity and technology together for a better tomorrow"





THE ALL-NEW TOBOIDS AUTOMATA 5 -DOF ROBOTIC MANIPULATOR

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SPECIFICATIONS

PHYSICAL

Length: 67.7 cm

Width: 22.7 cm

Height: 60.3 cm

Weight: 4 kg

MECHANICAL

Degrees of Freedom: 5

Reach: 36.4 cm

Maximum Payload: 0.5kg

CONTROL & SOFTWARE

Control system: Robotic Operating System (ROS)

Connection: Wi-Fi & Arduino Support

DISPLAY

Display Type: LCD touch screen

Functionality: Real-time monitoring/status update

CONSTRUCTION AND ENVIRONMENT

Body: ABS plastics

Environment: IP 20

Floor-type/ Terrain: Plain Terrain

Ambient operating Temperature: 20-50C

Power supply: 110-240V AC

Our 5-DOF robotic manipulator represents the pinnacle of flexibility and precision in robotic technology. Engineered to handle a diverse array of complex tasks. With its cutting-edge features, it is the ultimate companion that can assist, educate, and entertain in a range of settings.

FEATURES

- **5 - Degrees of freedom:** The robotic manipulator features 5 degrees of freedom, offering increased flexibility and precision for various applications. This capability enables the manipulator to move in multiple directions and orientations, providing exceptional maneuverability and the capacity to perform complex tasks with high accuracy.
- **Enhanced Reach and Movement:** The 5-DOF configuration allows for greater maneuverability and access to a wider range of positions and orientations.
- **Versatile Manipulation:** Capable of performing intricate and detailed operations such as pick and place application, monitoring, assembling etc.
- **High Accuracy:** The additional DOF provides improved precision and control, allowing the robot to handle delicate or complex tasks with high accuracy.
- **Versatile End-Effector:** The extra degrees of freedom allow for the use of more sophisticated end-effectors, such as tools or grippers, which need increased maneuverability for optimal functionality.
- **Operating system:** Our robotic manipulator operates using ROS (Robot Operating System) and Arduino support, a flexible and robust framework that facilitates custom programming and development.
- **Connectivity:** The robotic manipulator features Wi-Fi connectivity, which offers several key advantages and functionalities, enhancing its control and operation capabilities.
- **Display:** The inclusion of a display allows for real-time monitoring and adjustments, providing users with clear status updates and enhancing the overall control and functionality of the robot.
- **Simplified Mechanical Design:** Despite its advanced capabilities, the manipulator features a streamlined design, making it easier to integrate into existing systems.
- **Improved Operational Efficiency:** The robot manipulator's flexibility and precision lead to faster and more efficient task completion, boosting overall productivity.

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TOBOIDS AUTOMATA: TECHNOLOGY FOR THE FUTURE

APPLICATIONS

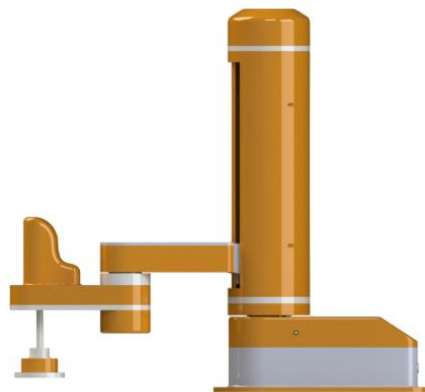
- **Industrial Automation:** The manipulator can perform precise tasks such as assembly, monitoring, pick and place application etc.
- **Education Institutions:** Educational institutions can use the manipulator to teach students about robotics, programming, and automation.

RIGOROUSLY TESTED FOR MAXIMUM RELIABILITY

- Tested over 500 hours for maximum reliability and robustness.
- Manufactured with high-quality ABS material to prevent corrosion and improve longevity.

EASE OF USE AND PORTABLE

- The compact design facilitates easy transportation of the robot.
 - The robot's Wi-Fi feature allows for easy control by enabling wireless connectivity.
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Our company is committed to delivering high-quality and innovative solutions that make a difference in people's lives. Contact us today to learn more about the 5-DOF Robotic Manipulator and other products and how it can benefit your business. Our team of experts is ready to help you find the perfect solution for your needs.



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