



Wristline Inc.

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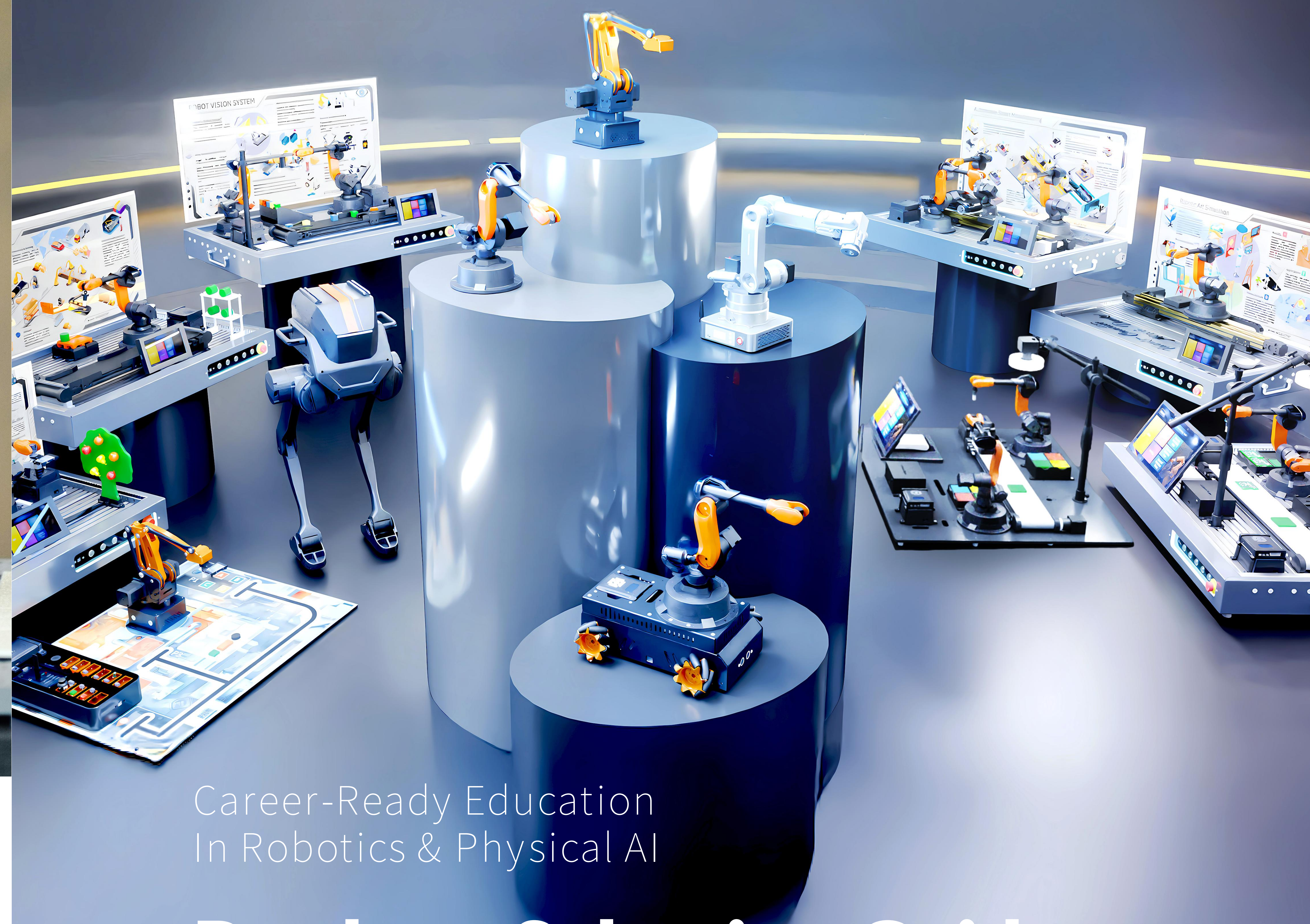


Career-Ready Education In Robotics & Physical AI

 www.wlkata.com

 [@wlkatarobotics](https://www.youtube.com/@wlkatarobotics)

 [@wlkatarobotics](https://www.facebook.com/wlkatarobotics)



Career-Ready Education
In Robotics & Physical AI

Product Selection Guide

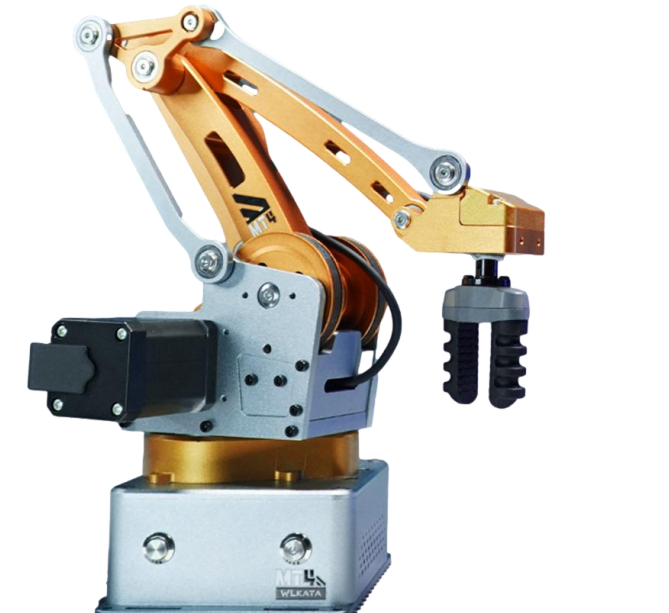
www.wlkata.com

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Featured Products

1. Mini Robots

Robotic Arms



Mirobot 6-Axis Haro380 6-Axis MT4 4-Axis

Mobile Robot



AGV Rover

Walking Robots



Brave Bipedal Robot MarchX Quadruped Robot

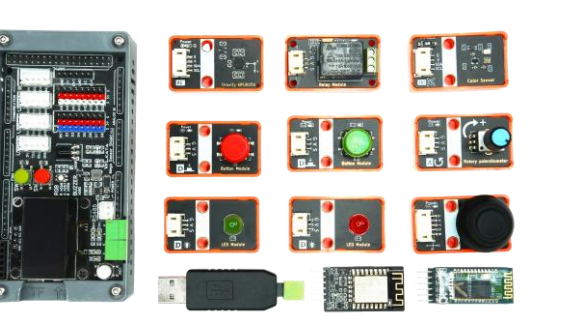
Additional Axis



Sliding Rail Conveyor Belt

2. XFactory Systems

Brain Control Series



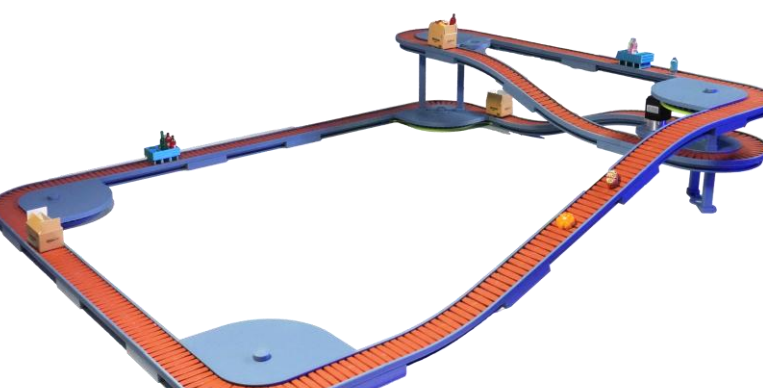
AI-HUB Development Kit AI-HUB Navigation Kit

AI Series



OpenCV Advanced Vision Set OpenMV AI Vision Set

World Builder Series



Metal OmniConveyor Push Feeder Roller Feeder Sensor Storage Mini AGV MiniFrame Mini T-Slot Beam (08 10 12 15)

3. Ready-to-use Workstations

Desktop Robotics Training Stations

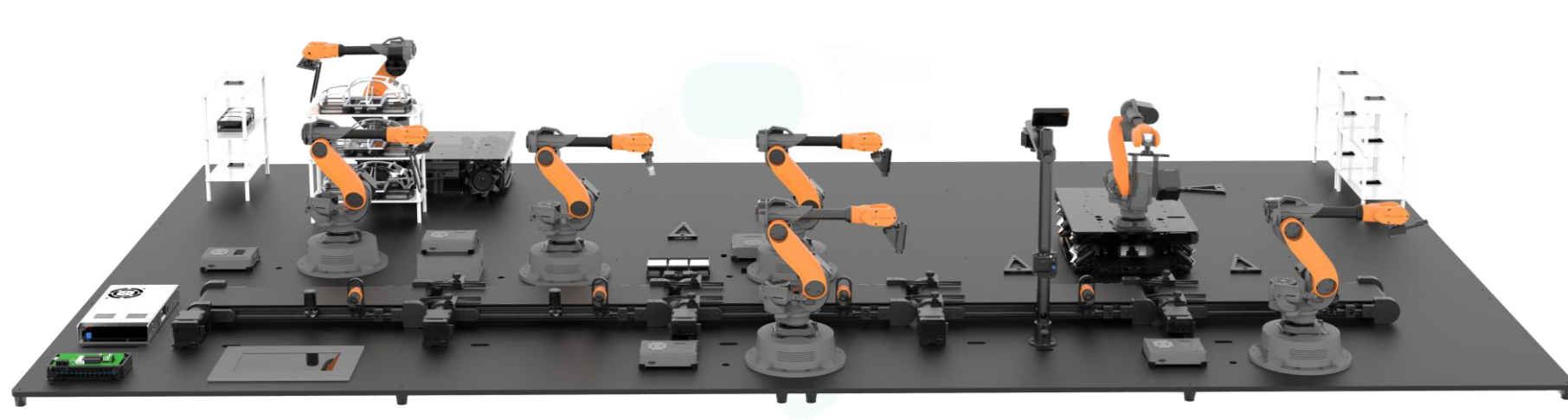
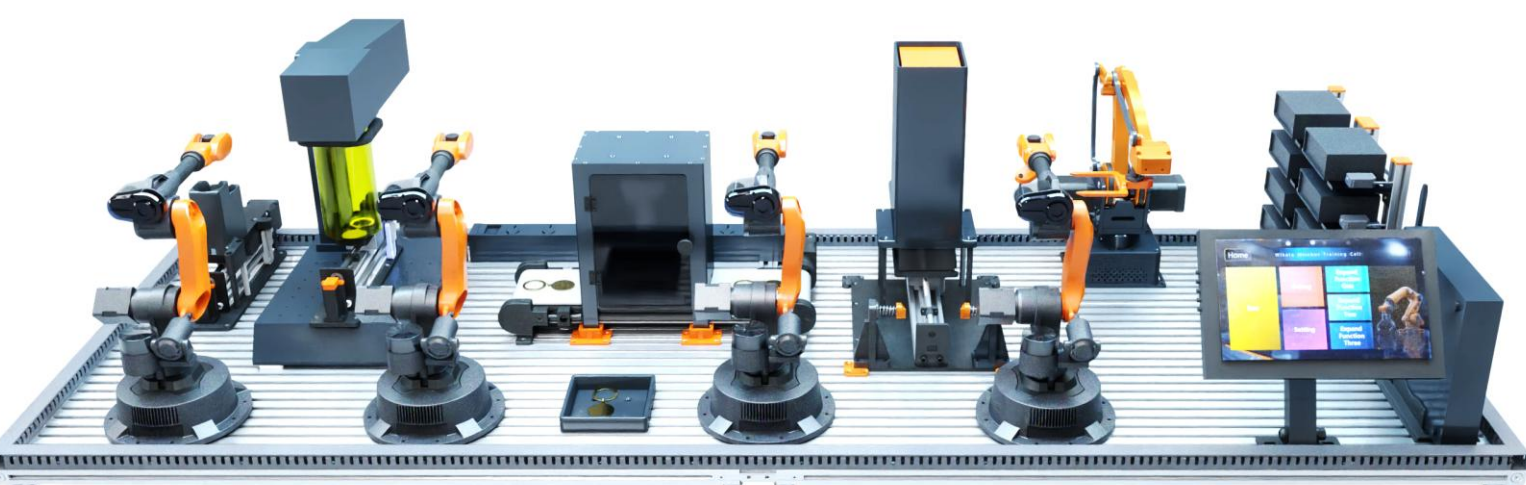


Automobile Assembly Cell Logistic Storage Cell Robotic Art Cell

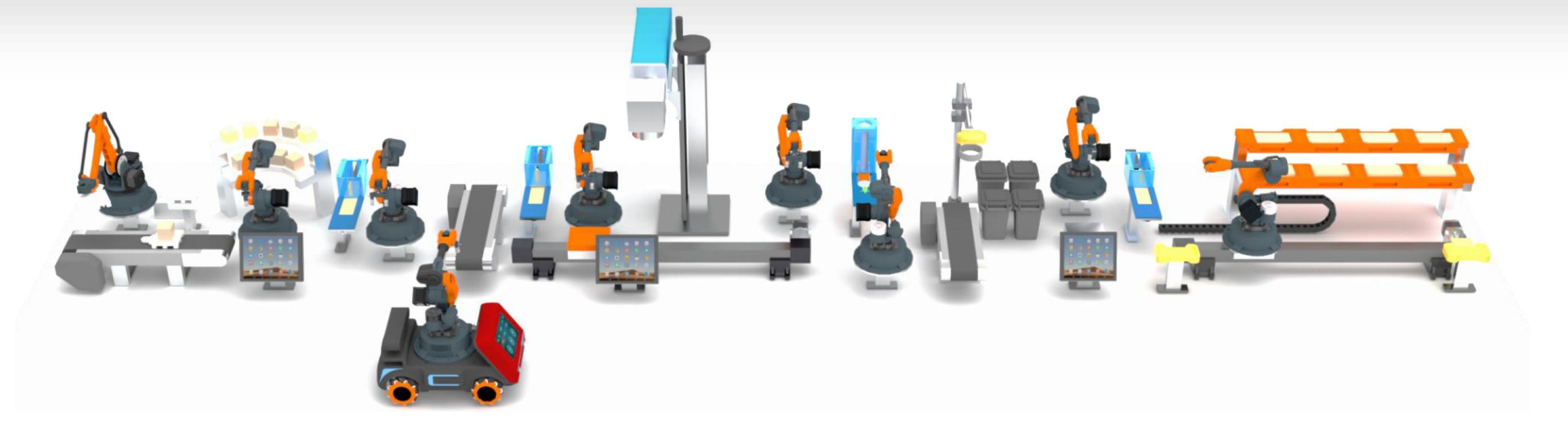


AI Sorting Cell Fruit Picking Cell

Compact Manufacture Lines



Engraved Souvenirs Manufacturing Line Automotive Manufacturing Line



Welcome to the Next-Gen Robotics Lab !

WLKATA Robotics

Our Solution

We help schools
prepare students for AI
and robotics.



MIC (Make It Center)
AUSTIN COMMUNITY COLLEGE
Texas, USA

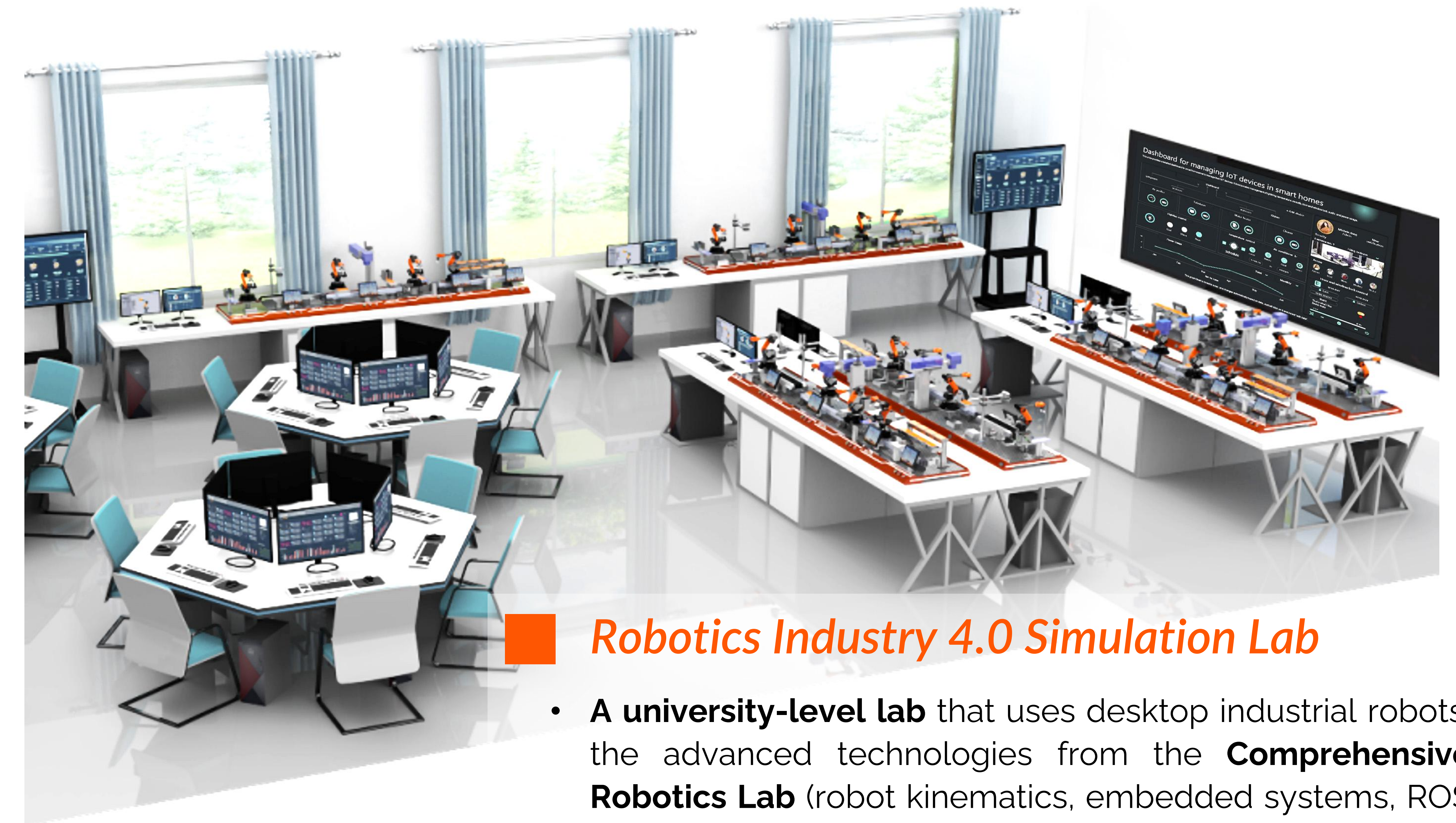


Marathon Capstone
OHIO NORTHERN UNIVERSITY
Ohio, USA

Solutions For Universities

■ Comprehensive AI Robotics Lab

- A university-level lab that blends theory and practice with staged learning modules in **robot kinematics & embedded systems, ROS & MATLAB, AI and perception** (machine vision, deep learning, reinforcement learning), and **Industry 4.0 applications** (smart factory, digital twin).
- It is supported by **university textbooks including experiments and a full set of teaching resources**—PPTs, videos, lab manuals, and source code—building a complete environment for robotics education and research.



■ Robotics Industry 4.0 Simulation Lab

- A university-level lab that uses desktop industrial robots, the advanced technologies from the **Comprehensive Robotics Lab** (robot kinematics, embedded systems, ROS & MATLAB, AI and perception), and an optional **digital twin with a PLC semi-physical platform**. Enhanced with a **mini smart factory** and **modular factory systems**, it provides a safe and immersive Industry 4.0 simulation environment.



■ Robotics & Vision Lab

- A university-level lab divided into a **fundamental training zone** and an **innovation & application zone**. The first focuses on **machine vision, programming, and robotic grasping**, while the second applies **robotics + vision** to industries such as **3C electronics, pharmaceuticals, automotive, and smart logistics**, supporting both practical training and innovation projects.



Solutions For Secondary Education (K7-K12)

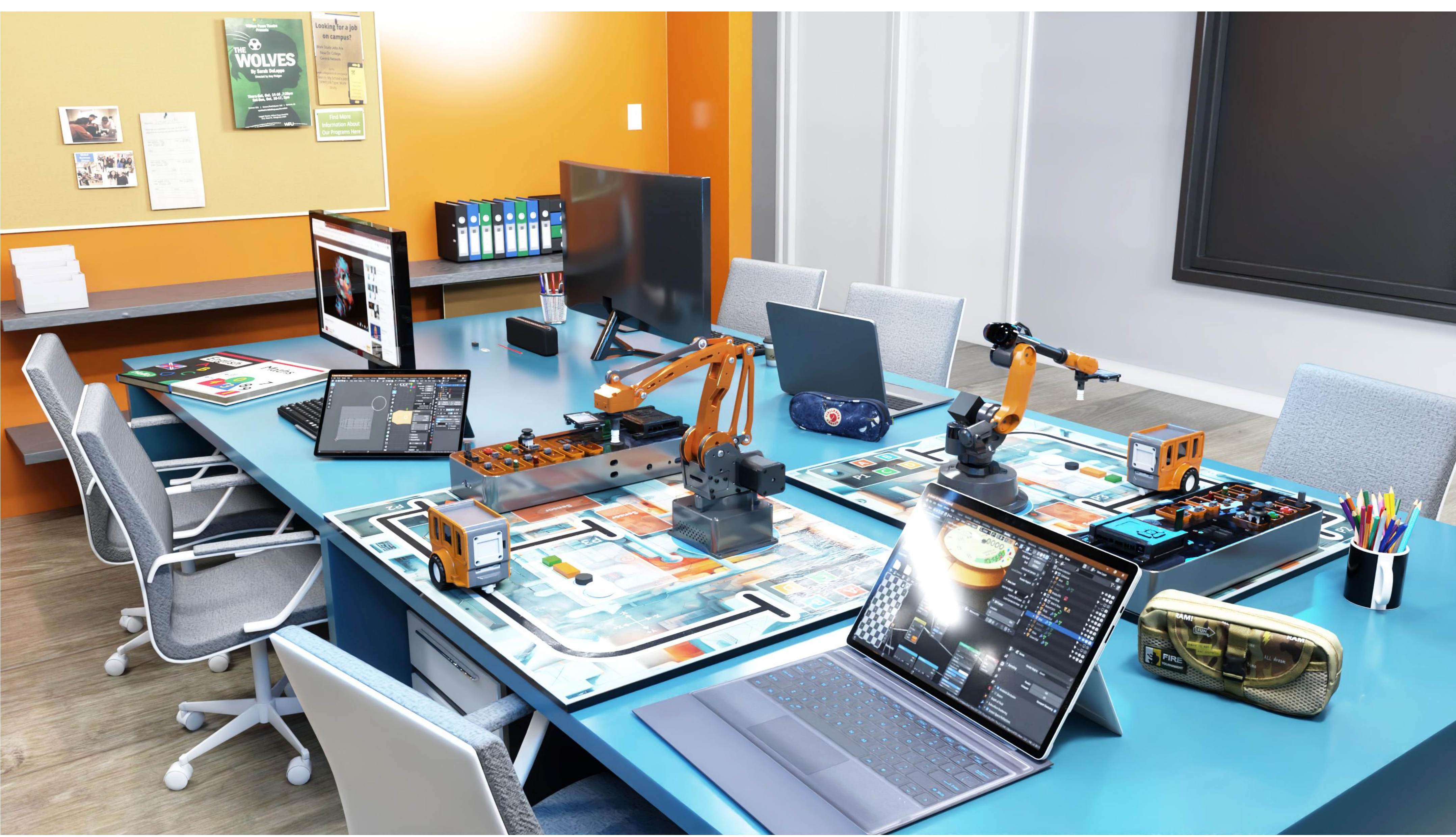
Robotics & STEM Lab for Secondary Education (Students age 12-18)

- A school-level lab that introduces students to robotics and STEM through **Arduino, AI vision, sensors, and smart factory/farming applications**. Accessible with **graphic programming (no-code) and low-code tools**, with progression to **C, C++, and Python**.
- Supported by **textbooks, curriculum, videos, teacher's guides, quizzes, and certifications**, it delivers a complete learning ecosystem.



Robotics & Modular Smart Factory Experience Lab

- A hands-on lab for students **from secondary to university level (ages 12 and up)** that introduces students to robotics operations, programming, and **modular smart factory systems** such as **omni-conveyors, feeders, sensor storage, mini AGVs, and mini T-slot beams**. Designed for interactive learning, it helps students explore **automation, sensors, and intelligent manufacturing concepts** through scalable modules, bridging theory with real-world applications.



1. Mini Robots

Multi

Robot
Types

Pro

Prof. and
Practice Use

**Open
API**

Interfaces

1:10 Mini Robots

Realistic and high-density setups

Open Interfaces

Open low-level control, full access



Brave
Bipedal Robot

Mirobot
6-Axis

MT4
4-Axis

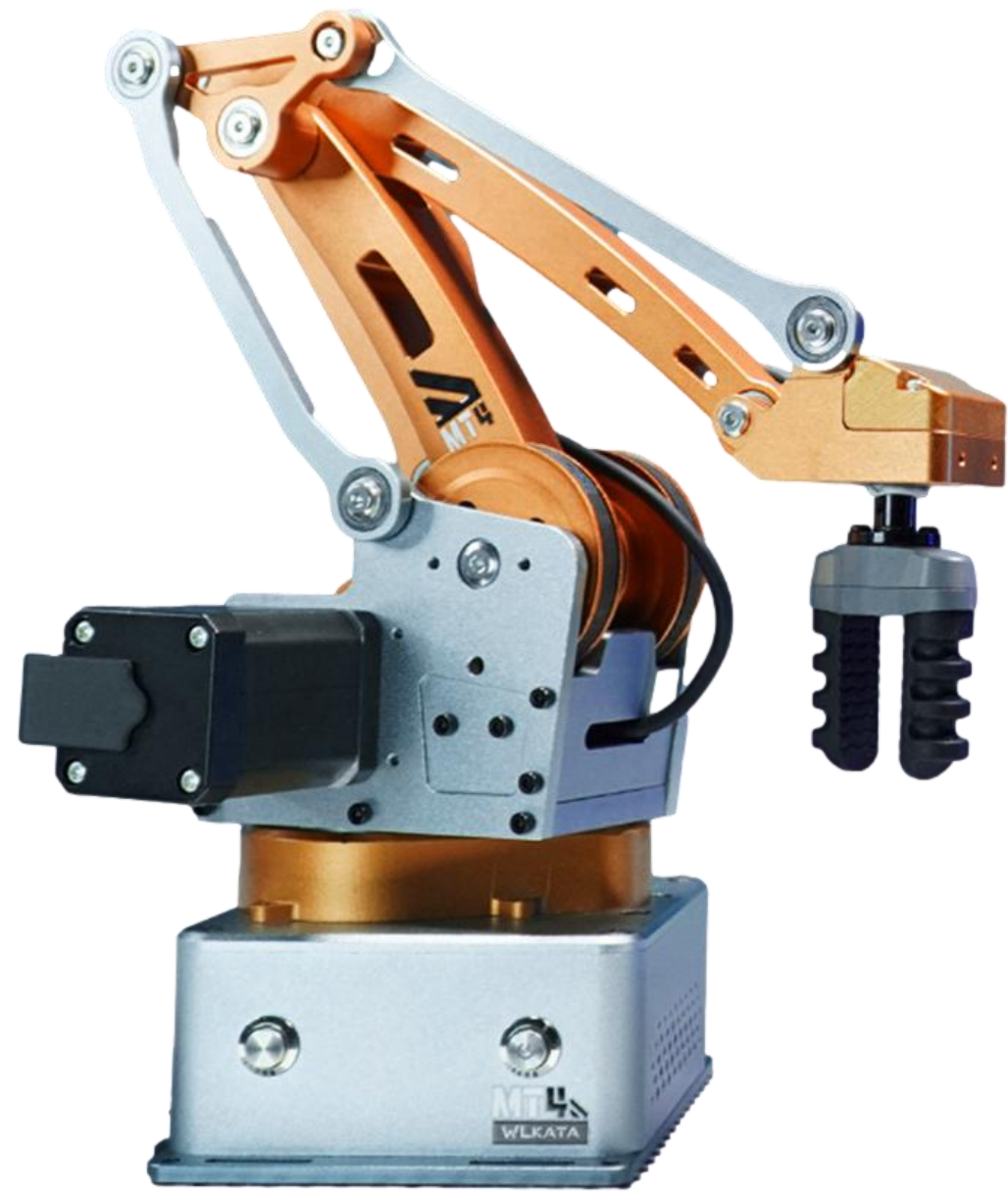
Haro380
6-Axis

AGV
Rover

MarchX
Quadruped
Robot

NEW

MT4



4-Axis Desktop Metal Rebuildable Robotic Arm

K7-K12 | University Level

1:10 Scale Modular Rebuildable

Learn robot mechanical structures from 0 to 1

Open Interfaces

Open low-level ctrl with full command access



4+1

Axis

0.2mm

Repeatability

600g

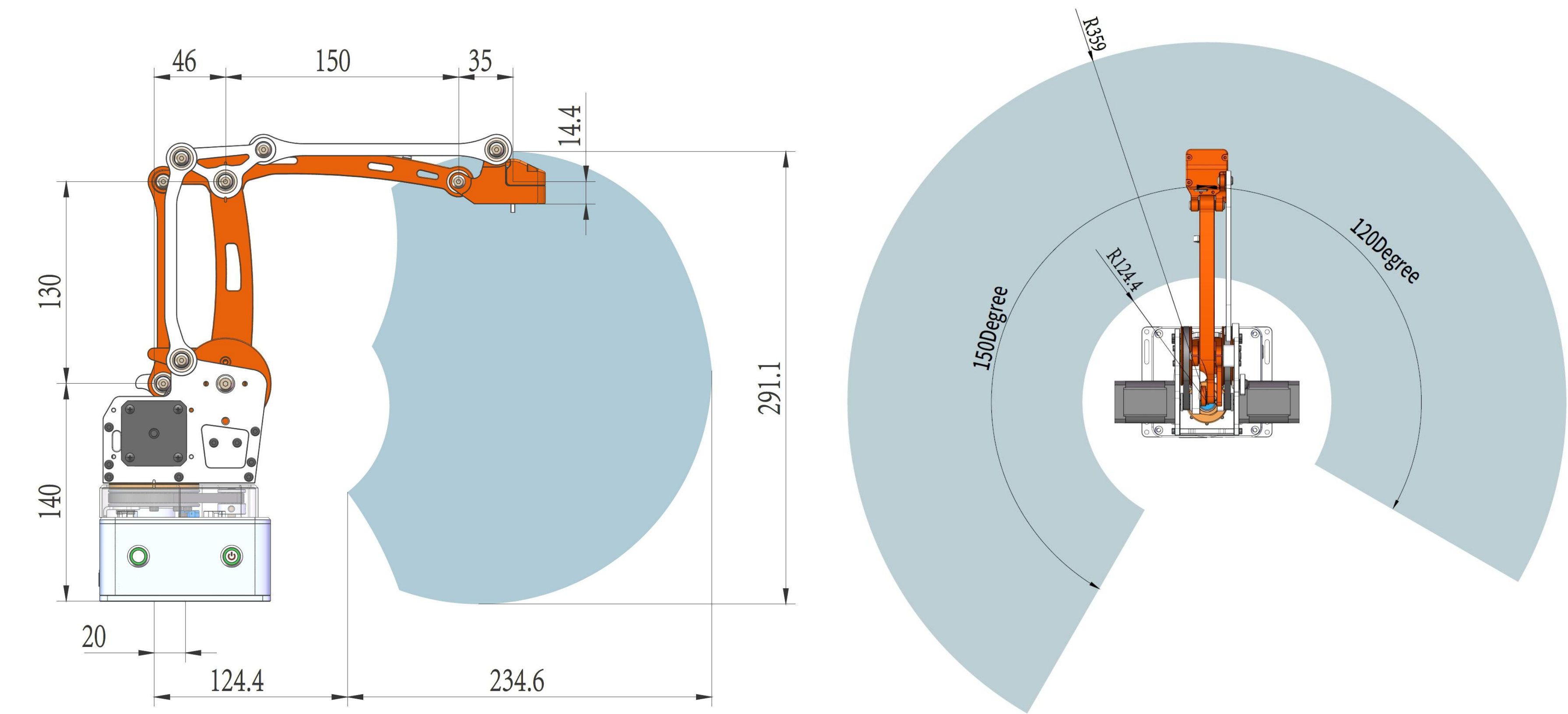
Payload

Specs

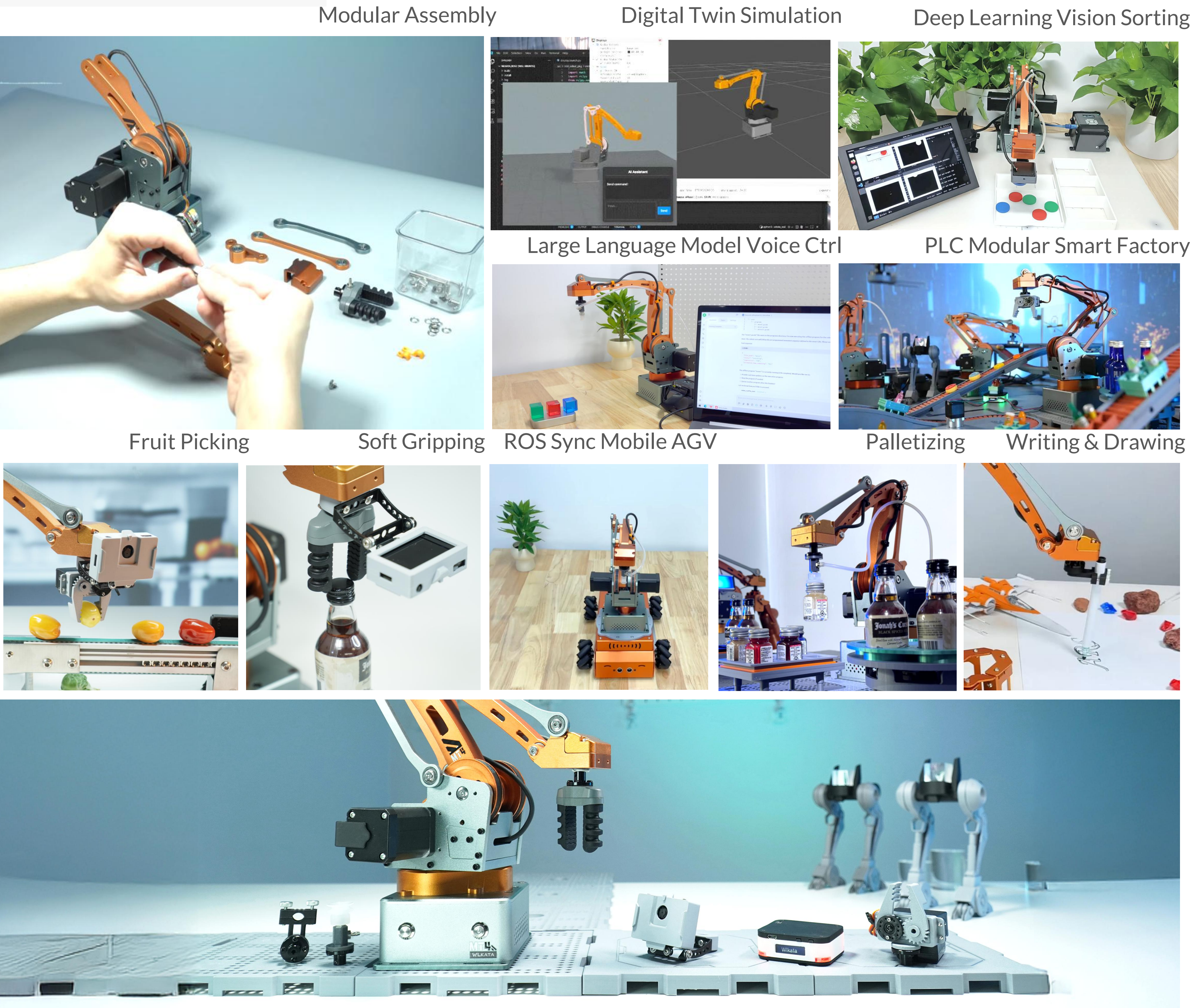
Axis	4+1	Net Weight	3.5Kg
Max Payload	600g	Communication	USB/Bluetooth/WIFI/RS485
Working Radius	350mm	Programming	Graphical, Python, C++
Supported Platforms	AVR microcontroller / AI processors / PLC / ROS / MATLAB / Omniverse / TensorFlow / PyTorch / YOLOv5 / OpenCV / OpenMV		

Functions

- The MT4 is a compact all-metal robotic arm with a footprint half the size of an A4 sheet, providing a safe, affordable, and versatile platform for **robotics, AI, automation, and intelligent manufacturing**.
- It supports **PC software, teach pendant, and vision control**, with functions such as **writing, laser engraving, and material handling**. Connectivity includes **Bluetooth, Wi-Fi, serial, and RS485**, with secondary development in **Python, C/C++, ROS, V-REP, and MATLAB**.
- Ideal for education and innovation in **robot programming, ROS, computer vision, smart sensors, deep learning, PLC, microcontrollers, and AI deployment**.



Applications

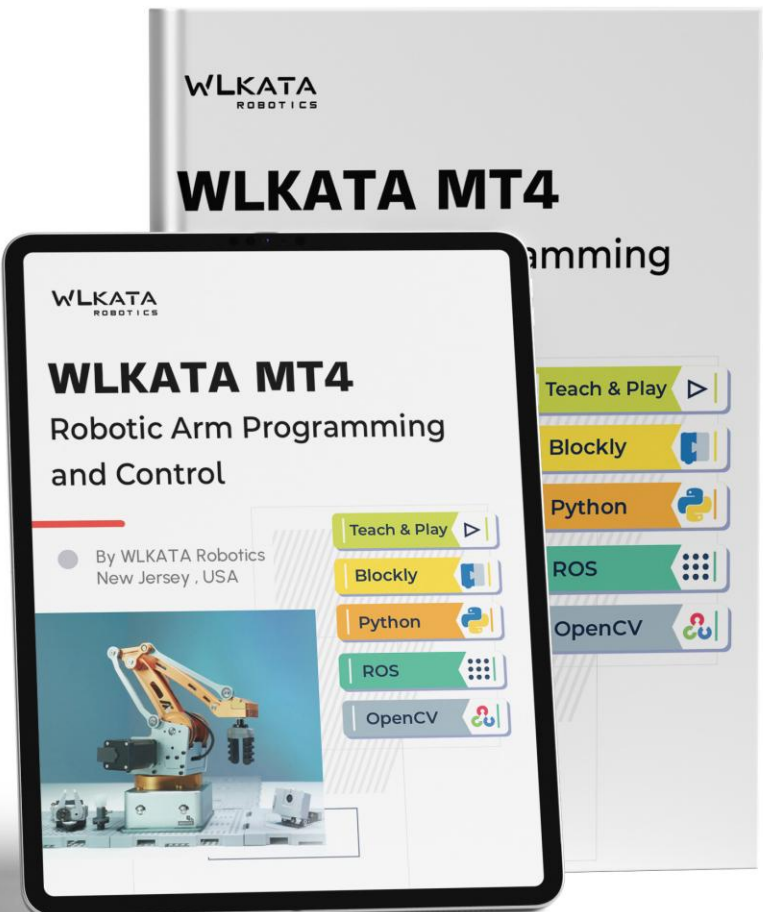


Textbooks & Resources

WLKATA MT4 Robotic Arm Programming and Control

Textbook | K9-K12 & University Level

- Industrial Robot Systems
- Robot Coordinate Systems
- Robot DH Parameters
- Motion Control Commands
- Trajectory Planning
- Programming (Graphical, Teaching, Python)
- Material Handling & Palletizing
- Writing & Drawing
- Motion Simulation with ROS
- Motion Control with Microcontroller (AVR)
- Motion Control with PLC



Introduction To Robotics For Beginners

Textbook & Curriculum 50 Lessons
| Middle School & High School (K7-K12)

- Ch. 1: Introduction
- Ch. 2: Robot Components and Systems
- Ch. 3: Position and Orientation
- Ch. 4: Robot Frames
- Ch. 5: Motions of the Robots
- Ch. 6: Community of Robots
- Ch. 7: Forces and Motions
- Ch. 8: Kinematics
- Ch. 9: Sensors
- Ch. 10: AI and Robotics

*Textbook Published by
Wristline Institute, 2026
Available on Amazon.com



Mirobot



6-Axis Desktop Mini Industrial Robotic Arm

K9-K12 | University Level

1:10 Scale Industrial Robot Structure

Provides realistic operations for teaching

Open Interfaces

Open low-level ctrl with full command access



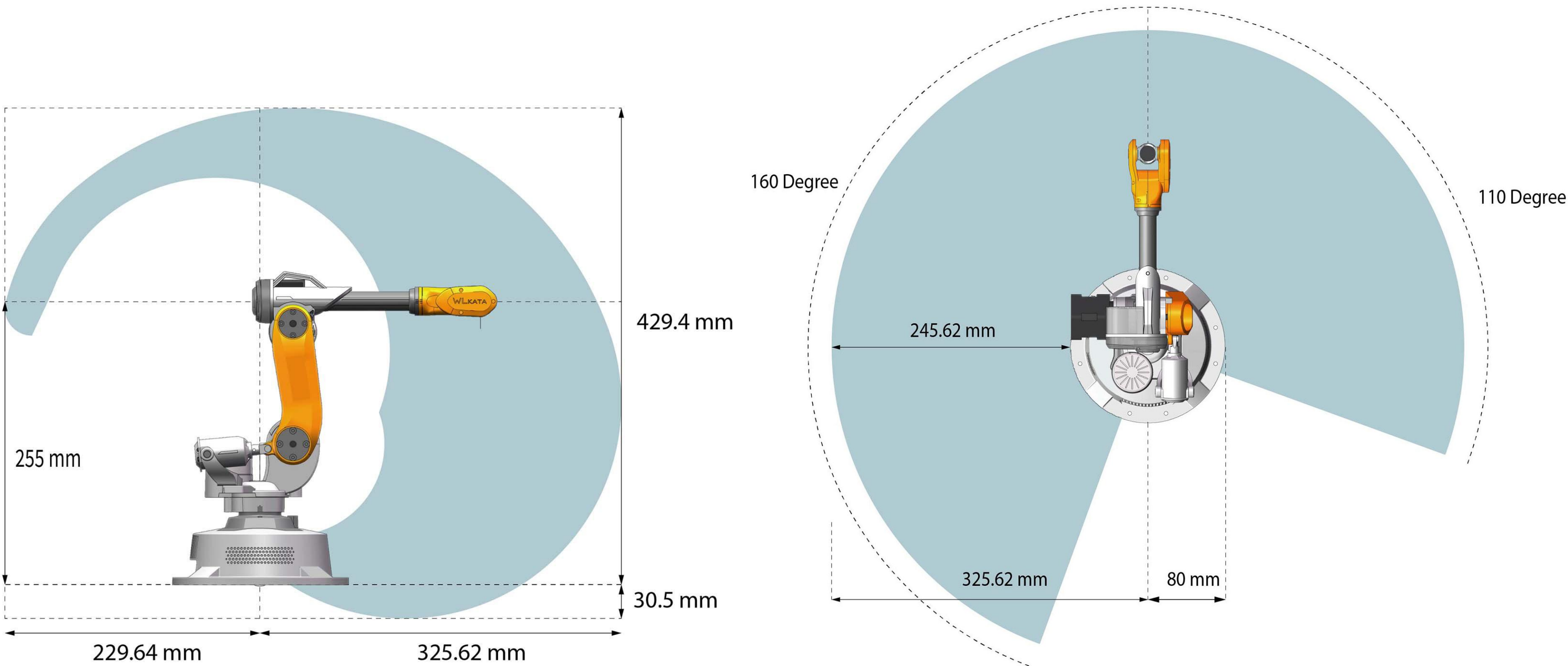
6+1	0.2mm	400g
Axis	Repeatability	Payload

Specs

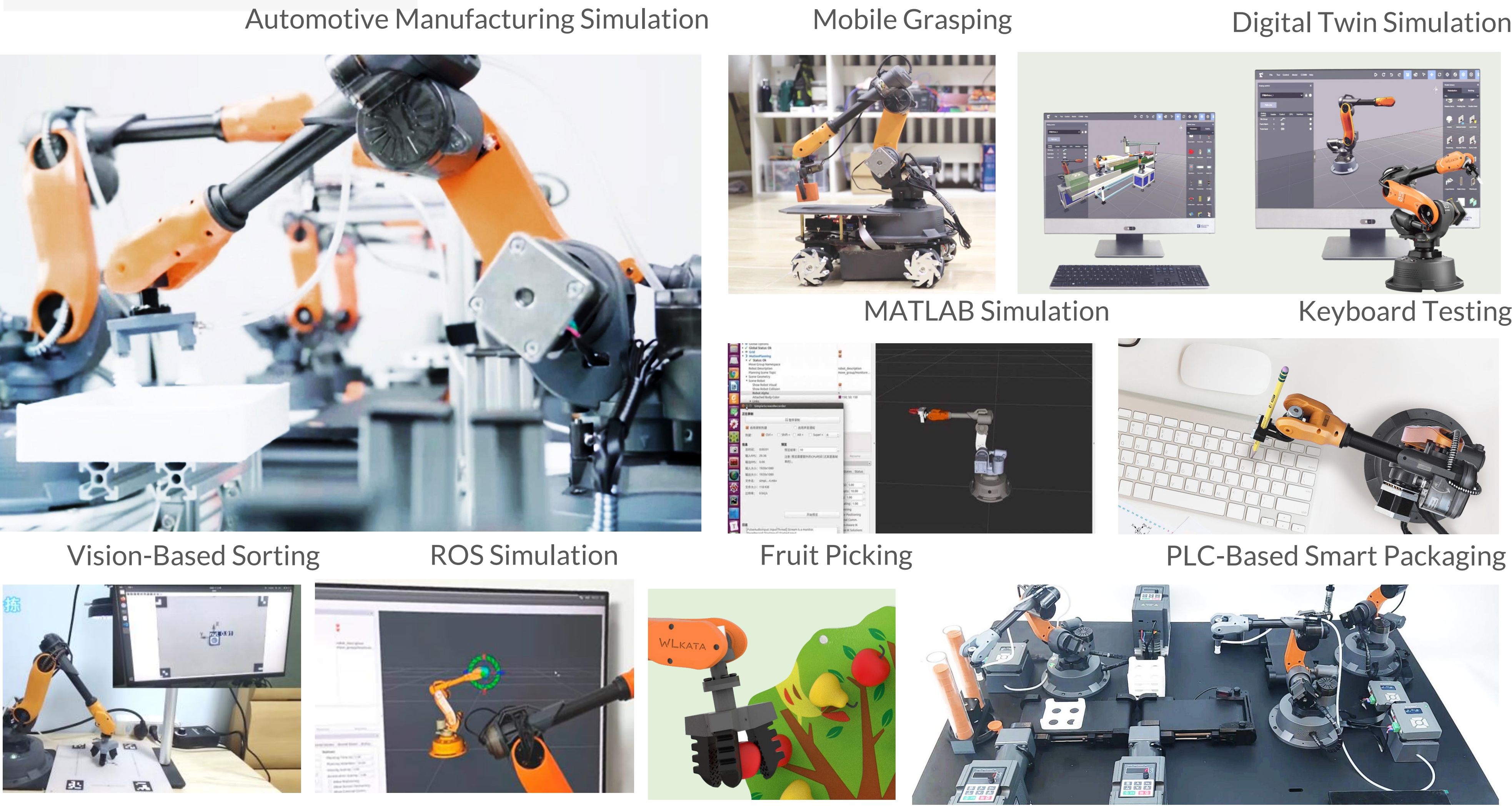
Axis	6+1	Net Weight	1.5Kg
Max Payload	500g	Communication	USB/Bluetooth/WIFI/RS485
Working Radius	315mm	Programming	Graphical, Python, C++
Supported Platforms	AVR microcontroller / AI processors / PLC / ROS / MATLAB / Omniverse / TensorFlow / PyTorch / YOLOv5 / OpenCV / OpenMV		

Functions

- The WLKATA Mirobot is a **safe and easy-to-use** desktop **six-axis robotic arm** designed for teaching and research. Based on an industrial robot structure, it offers realistic learning and an open AI robotics platform.
- It supports **PC software, teach pendant, and vision control**, with functions such as **writing, laser engraving, and material handling**. Connectivity includes **Bluetooth, Wi-Fi, serial, and RS485**, with secondary development in **Python, C/C++, ROS, V-REP, and MATLAB**.
- Ideal for education and innovation in **robot programming, ROS, computer vision, smart sensors, deep learning, PLC, microcontrollers, and AI deployment**.



Applications



Textbooks & Resources

WLKATA Mirobot Robotic Arm Programming and Control

Textbook | K9-K12 & University Level

- Industrial Robot Systems
- Robot Coordinate Systems
- Robot DH Parameters
- Motion Control Commands
- Trajectory Planning
- Programming (Graphical, Teaching, Python)
- Material Handling & Palletizing
- Writing & Drawing
- Motion Simulation with ROS
- Motion Control with Microcontroller (AVR)
- Motion Control with PLC



Robotics Planning, Control and Innovation

Textbook | University Level

- Ch.1: Introduction
- Ch.2: Coordinate Transformation
- Ch.3: Forward and Inverse Kinematics
- Ch.4: Statics and Dynamics
- Ch.5: Motion Control
- Ch.6: Motion and Trajectory Planning
- Ch.7: Control Algorithms for 6-Axis Desktop Robots
- Ch.8: Practical Applications

*Published by Wristline Institute, 2026 Available on Amazon.com



High School Curriculum: Industrial Robot Concepts and Applications

Curriculum 40 Lessons | High School (K9-K12)

- Week 1: Introduction to Industrial Robotics
- Week 2: Control & Safety
- Week 3: Manual Control
- Week 4: Teach Programming
- Week 5: End Effectors Precision Tools
- Week 6: Graphical Programming
- Week 7: Palletizing Applications
- Week 8: Robot Input and Output
- Week 9: Communication
- Week 10: Sorting and Sensors
- Week 11: Conveyor Belt Operations



Developing Robot With ROS Noetic

Textbook | University Level

- Ch.1: Introduction to ROS
- Ch.2: Installation of ROS and Ubuntu
- Ch.3: ROS Nodes Topics Services
- Ch.4: Modeling URDF and RViz
- Ch.5: ROS Control Mirobot
- Ch.6: MoveIt! and Gazebo
- Ch.7: MoveIt! Real Control
- Ch.8: Function Extensions

*Published by Wristline Institute, 2026 Available on Amazon.com



NEW

Haro380



6-Axis Desktop Metal Industrial Robotic Arm

K9-K12 | University Level

1:10 Scale Compact Industrial Robot

Realistic operations and high-density setups

Open Interfaces

Open low-level ctrl with full command access



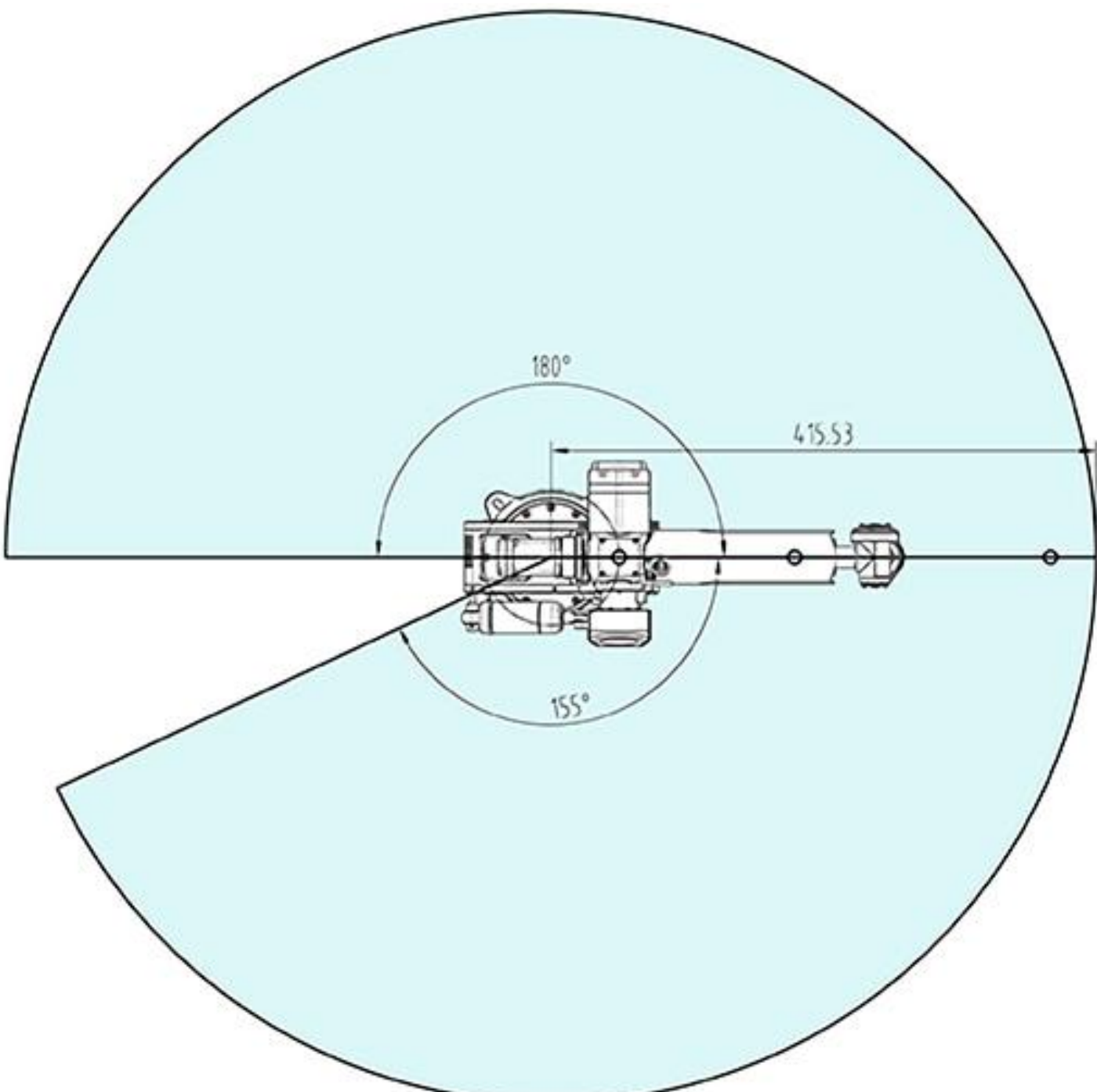
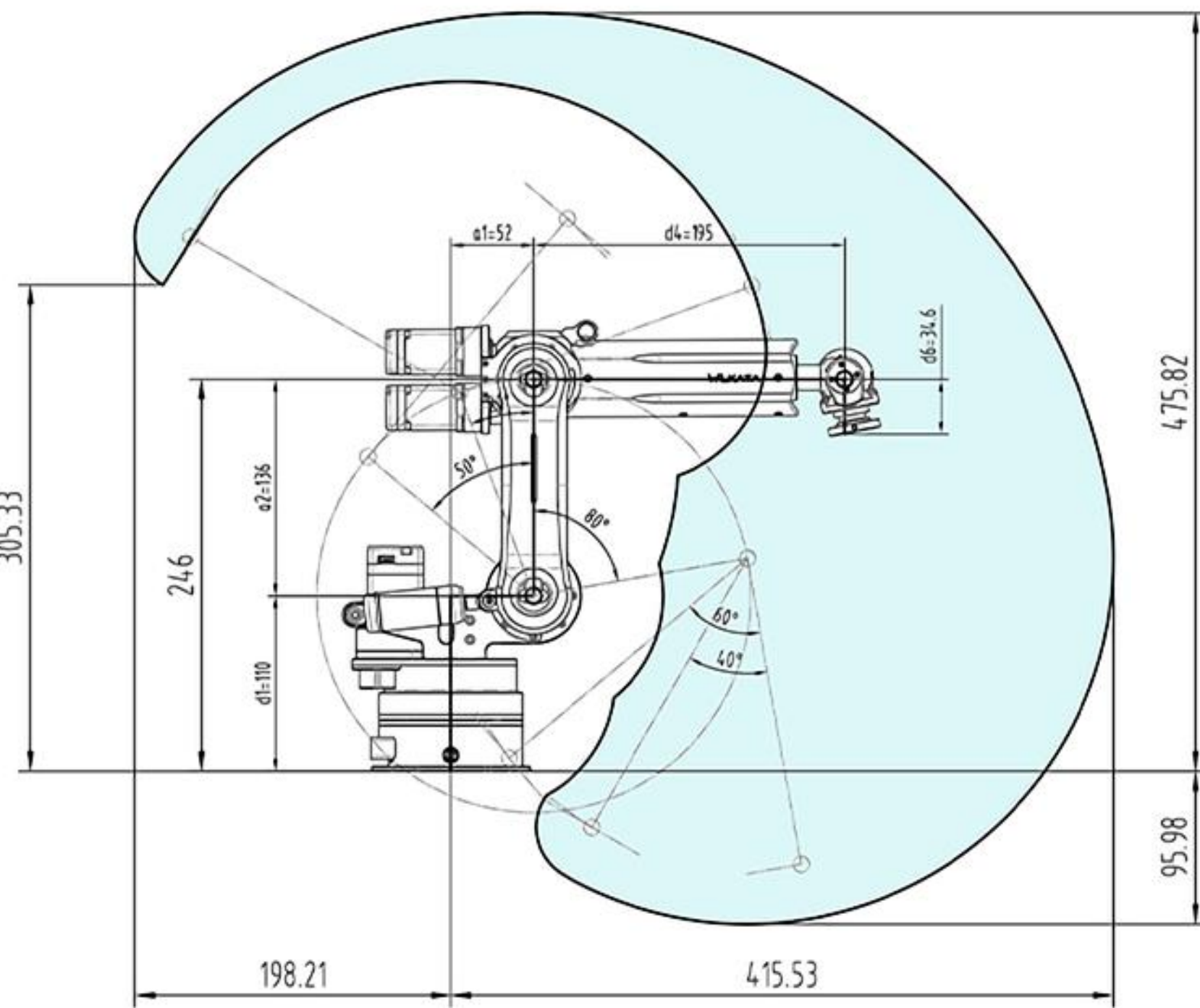
6+1 Axis **0.05**mm Repeatability **500**g Payload

Specs

Axis	6+1	Net Weight	3.5Kg
Max Payload	500g	Communication	USB/Bluetooth/WIFI/RS485
Working Radius	380mm	Programming	Graphical, Python, C++
Supported Platforms	AVR microcontroller / AI processors / PLC / ROS / MATLAB / Omniverse / TensorFlow / PyTorch / YOLOv5 / OpenCV / OpenMV		

Functions

- Compact Industrial Design:** The WLKATA Haro380 is a high-precision 6-axis desktop robot built for high-density, flexible, and small-batch automation in education, research, and light industry. It features self-developed precision joints, closed-loop control, and customizable LED indicators, supporting various industrial-grade grippers.
- Easy to Use and Deploy:** With its compact size and simple setup, Haro380 can be easily integrated into classrooms, labs, or production cells, offering true industrial performance in a desktop format.
- Open Integration and Learning Applications:** Haro380 provides graphical programming software for tablets and PCs, open APIs, and supports industrial protocols. It can connect with PLCs, machine vision, and digital twin platforms—perfect for robotics programming, simulation, and smart manufacturing education.

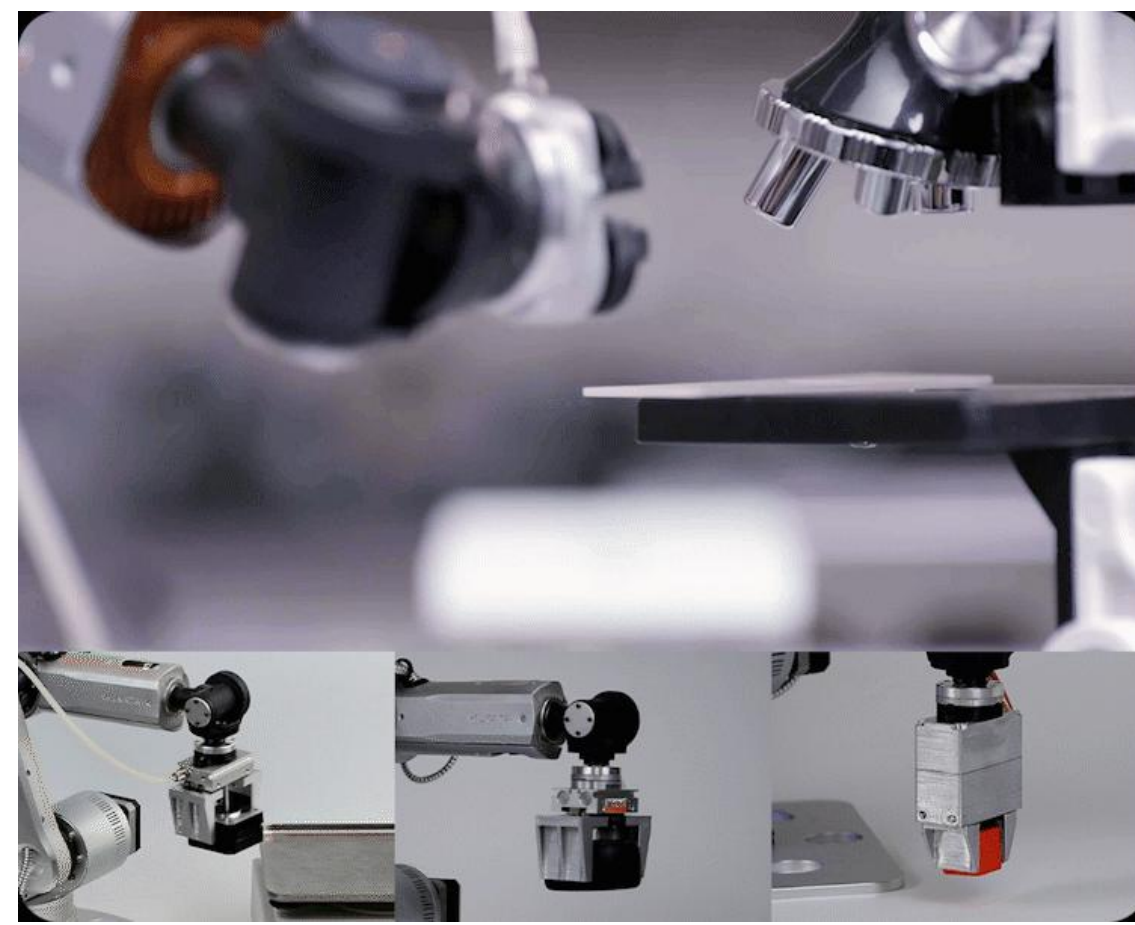
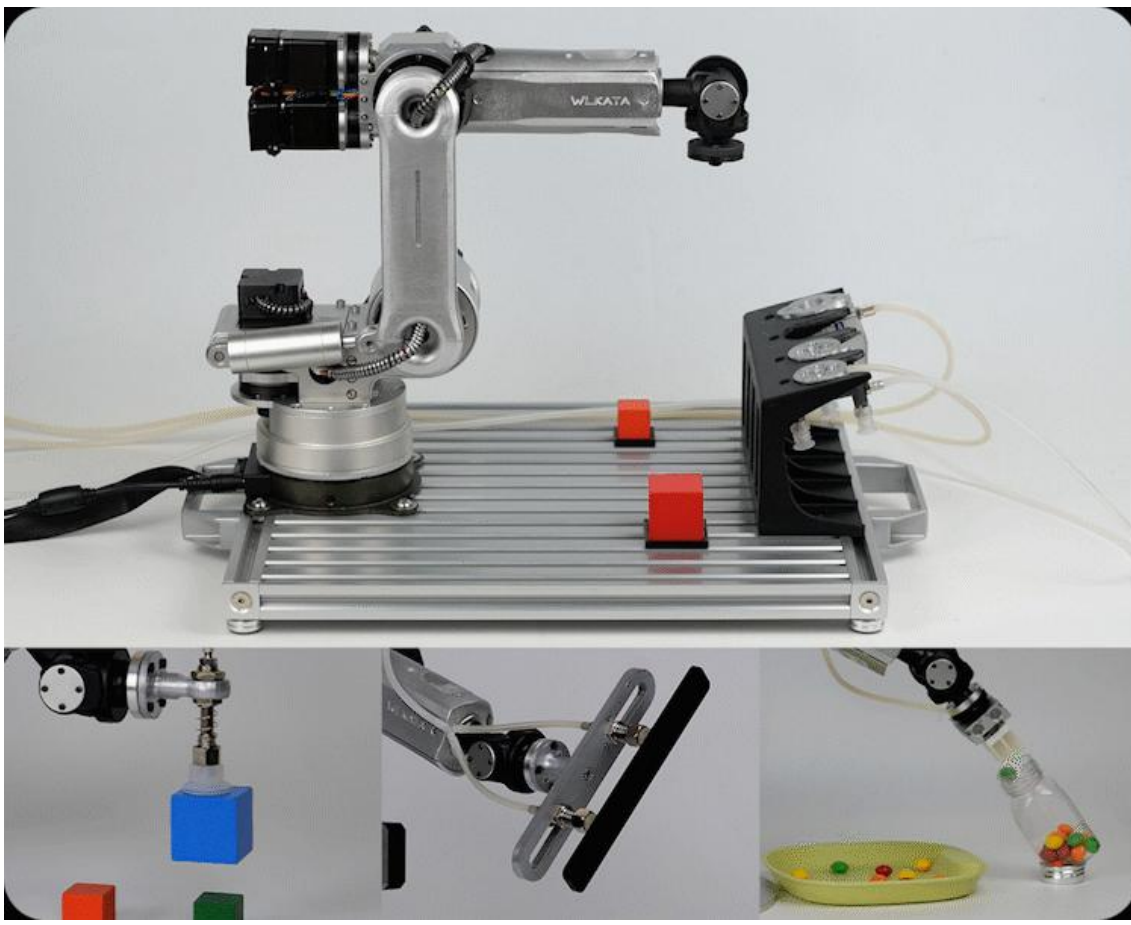
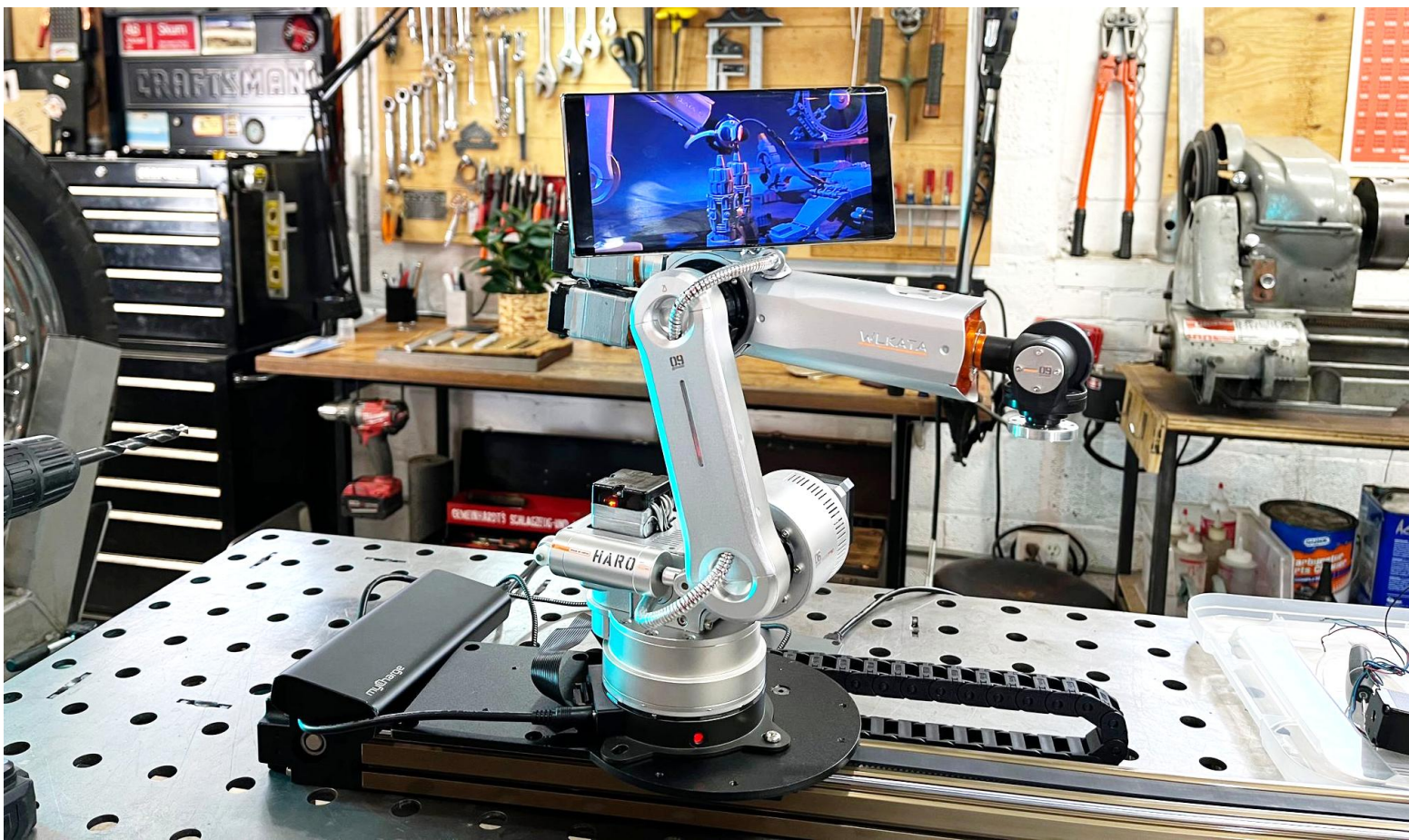


Applications

Automotive Applications

Vacuum Handling

Mechanical and Flexible Gripping

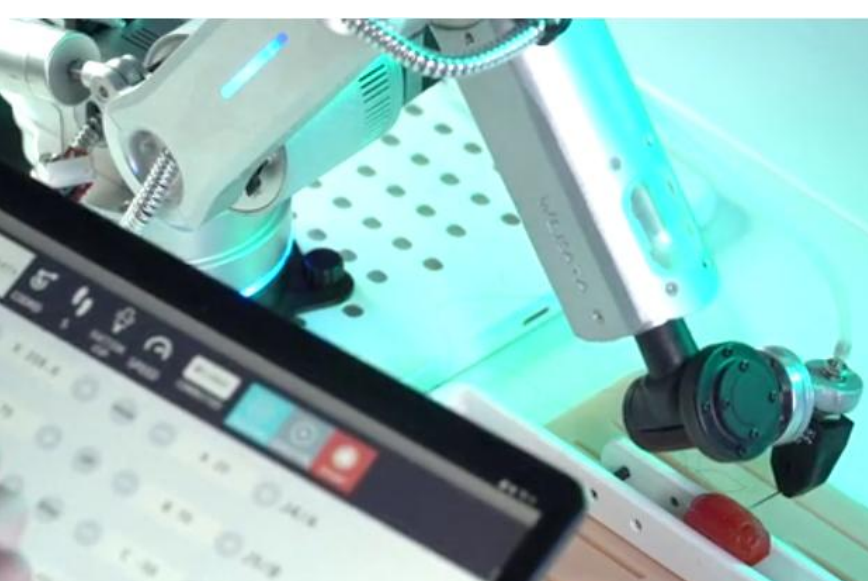
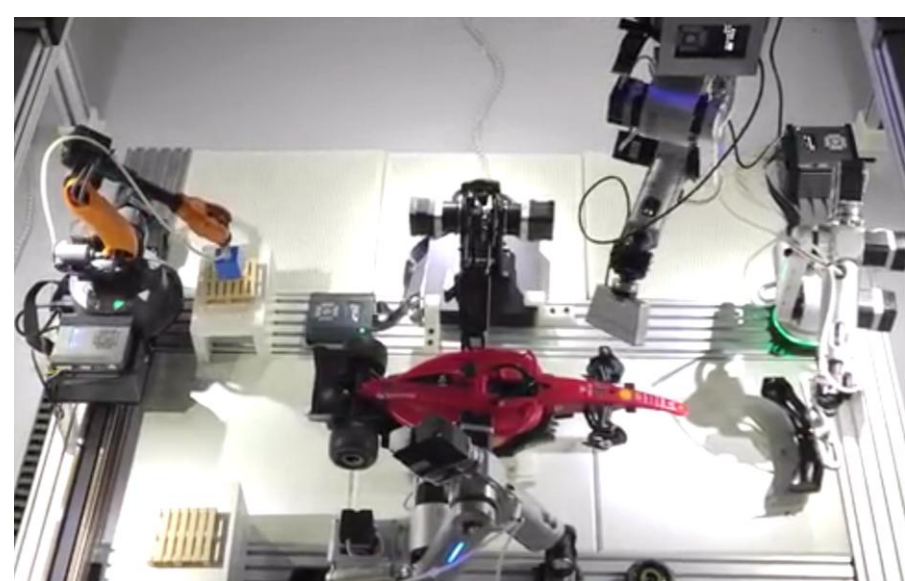


Digital Twin Simulation

PLC Sorting

Welding Inspection

Biopharma Applications



Textbooks & Resources

WLKATA Haro380 Robotic Arm Programming and Control

Textbook | K9-K12 & University Level

1. Industrial Robot Systems
2. Robot Coordinate Systems
3. Robot DH Parameters
4. Motion Control Commands
5. Programming (Graphical, Teaching, Python)
6. Material Handling & Palletizing
7. Writing & Drawing
8. Motion Simulation with ROS
9. Motion Control with Microcontroller (AVR)
10. Motion Control with PLC
11. Path Planning (Arc and Gantry Trajectories)
12. Digital Twin Simulation Applications



Robotic Vision with OpenCV

Textbook | University Level

- Ch.1: Camera Calibration & Distortion Correction
- Ch.2: Hand-Eye Calibration (Nine-Point)
- Ch.3: QR Code Recognition & Perspective Transform
- Ch.4: Color Sorting with OpenCV
- Ch.5: Shape Recognition & Sorting
- Ch.6: YOLO Screw & Nut Sorting
- Ch.7: YOLO Fruit Card Sorting
- Ch.8: License Plate Recognition & Sorting
- Ch.9: OCR Character Recognition
- Ch.10: ID Recognition & Robotic Grasping
- Ch.11: Tablet Sorting
- Ch.12: Tablet Defect Detection



NEW

Brave



Multi-Modal Biped Robot

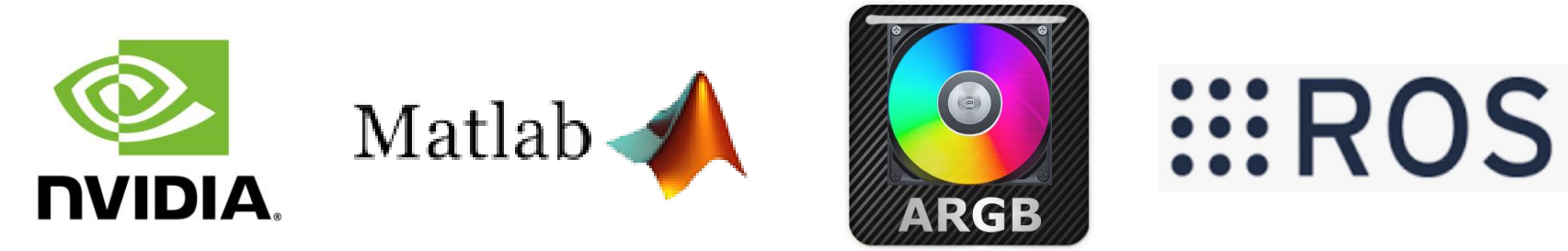
K9-K12 | University Level

Advanced Robot for Sim2Real AI

AI-Driven Mobility, Hands-On Robotics

Open Interfaces

Open low-level ctrl with full command access



3 15° 15_{cm}

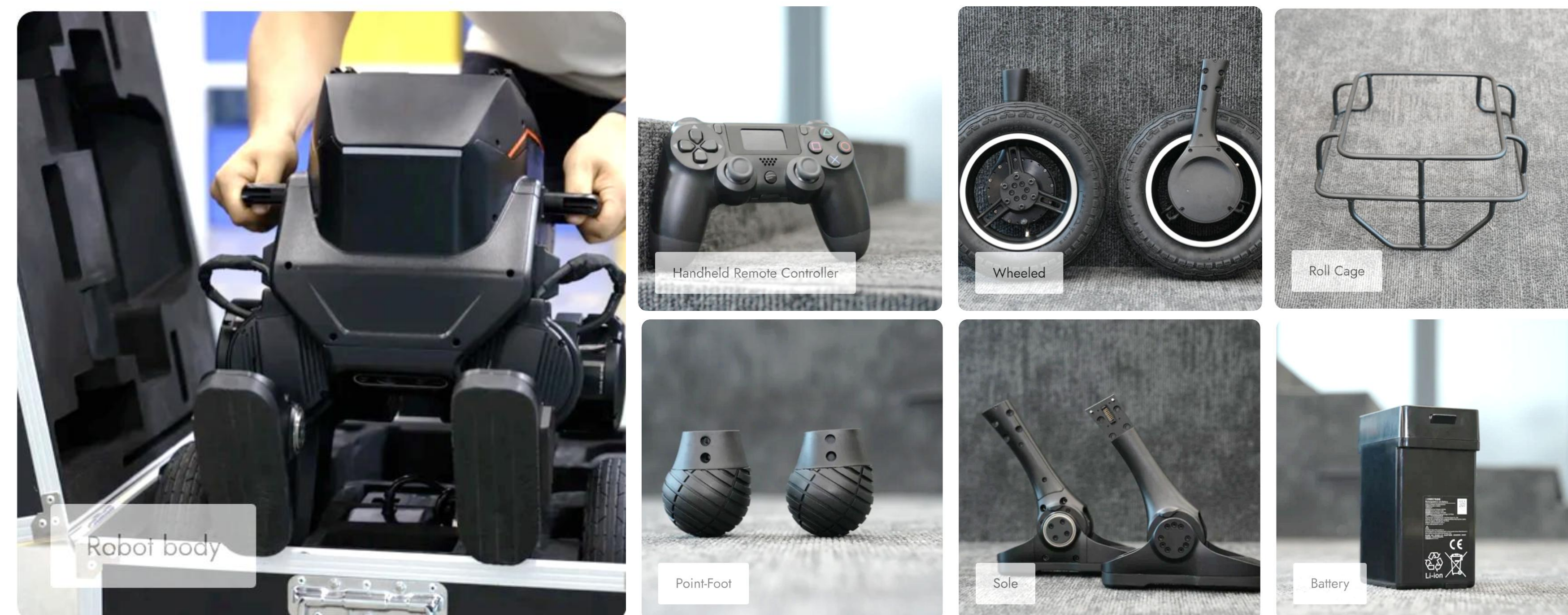
Feet Types Climbing Angle Climb Height

Specs

Dimensions	≤392mm x 420mm x 845mm	Movement Speed	Point-Foot: <1m/s Sole: <1m/s Wheeled ≥5m/s
Net Weight	≤20kg	Max Climb Angle	≥15°
Max Battery Power	1000W	RGBD Camera	Included
Computer Specification	12th Gen i3 / 16GB RAM / 512GB (CPU/Memory/Storage)		

Functions

- **Multi-Modal Mobility:** Switch between point-foot, sole-foot, and wheeled modes for versatile humanoid motion research.
- **RGB-D Vision:** Integrated RGB-D camera enables 3D perception, object detection, and spatial mapping — essential for AI vision, SLAM, and real-world navigation experiments..
- **Open SDK & API:** Easily integrate with Python, C++, and ROS for custom AI and control development.
- **Sim2Real & Education Ready:** Perfect for AI, robotics, and humanoid research in academic or lab settings.



NEW

MarchX



Pro LiDAR Quadruped Robot

K9-K12 | University Level

Advanced Robot for Sim2Real AI

Realistic operation and high-density setups

Open Interfaces

Open low-level ctrl with full command access



12 40° 15_{cm}

Axis Climbing Angle Climb Height

Specs

Dimensions	610mm X 370mm X 503mm	Movement Speed	0~2.5m/s
Net Weight	13.7kg/30.2LB	Max Climb Angle	40°
Battery Operat. Time	1.5h	RGBD Camera	Included
Computer Specification	NVIDIA Jetson Xavier NX with Ubuntu		

Functions

- **LiDAR + RGB-D Vision:** Combines LiDAR and RGB-D depth sensing for precise 3D mapping, object recognition, and intelligent navigation.
- **12-Axis Quadruped Mobility:** Features 12 active joints for agile, stable, and realistic legged movement across varied terrains.
- **AI & Sim2Real Learning:** Supports reinforcement learning and Sim2Real workflows, bridging simulation with real-world robotics research.
- **Open SDK & ROS Support:** Compatible with Python, C++, and ROS for flexible AI, vision, and control development.



2. XFactory Systems

8+ Compatible Robots
70+ Enriched Accessories
Open API Interfaces

XFactory Compatible with:

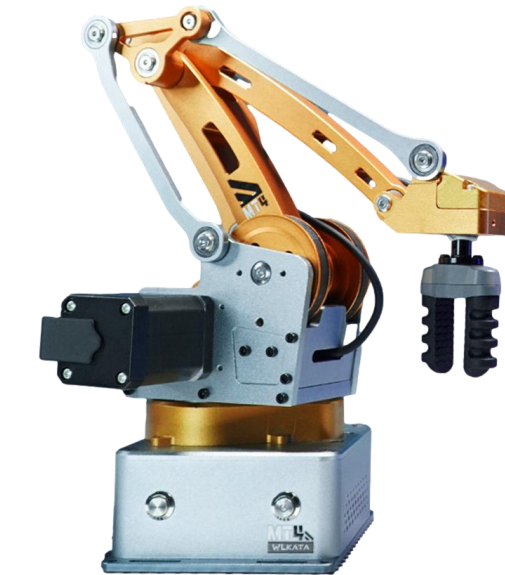
Robots



Mirobot
6-Axis Robot



Haror380
6-Axis Robot



MT4
4-Axis Robot



MT6
6-Axis Robot
(Coming Soon)



Delta
3-Axis Robot
(Coming Soon)



Scara
3-Axis Robot
(Coming Soon)



AGV Rover



ROS Rover

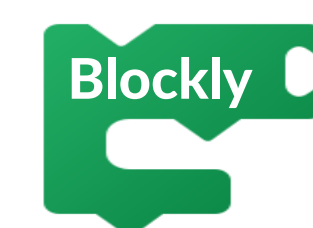
Modular Smart Manufacturing Training Systems

1:10 Industrial Mini Factory

Realistic and high-density setups

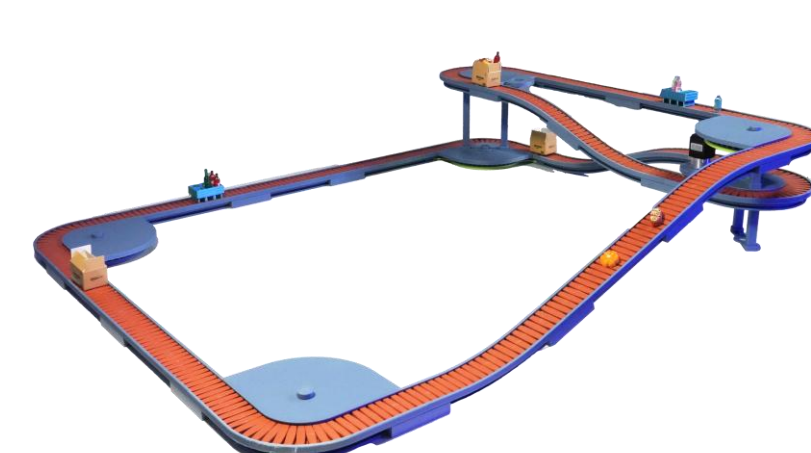
Open Interfaces

Open low-level ctrl with command access



XFactory Includes:

World Builder Series



Metal
OmniConveyor



Push
Feeder



Roller
Feeder



Sensor
Storage



Mini
AGV



MiniFrame
Mini T-Slot Beam
(0808 1010 1212 1515)



Sliding Rail
Set



Conveyor Belt
Set



Classic Mini
Conveyor

AI Series



OpenCV
Advanced Vision Set



OpenMV
AI Vision Set



Voice Ctrl
Assistant



LLM
Workstation



3D Depth Camera

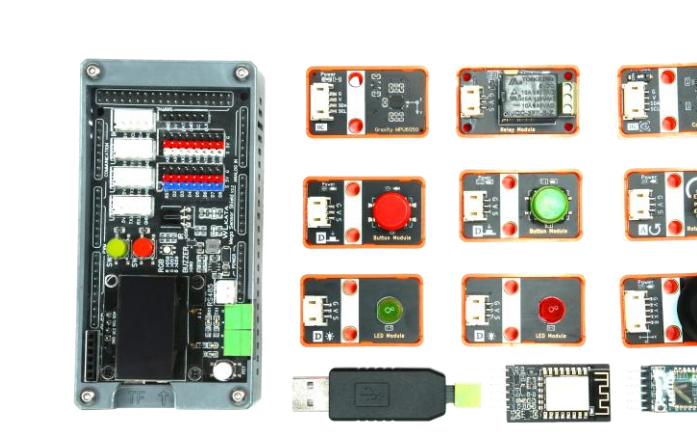
Brain Control Series



NVIDIA Jetson



Siemens PLC



AI-HUB
Development Kit



AI-HUB
Navigation Kit

End-Effectors



Basic AI
Camera



Magnetic
Gripper



Servo
Gripper



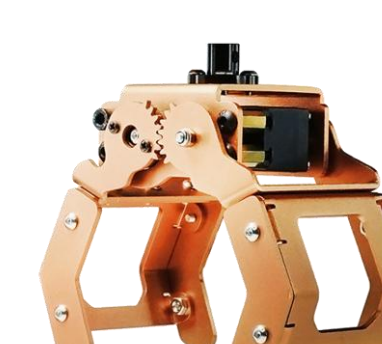
Electric
Gripper



Laser
Head



Beak
Gripper



Metal Servo
Gripper



Suction
Cup



More Suction Cup
Options



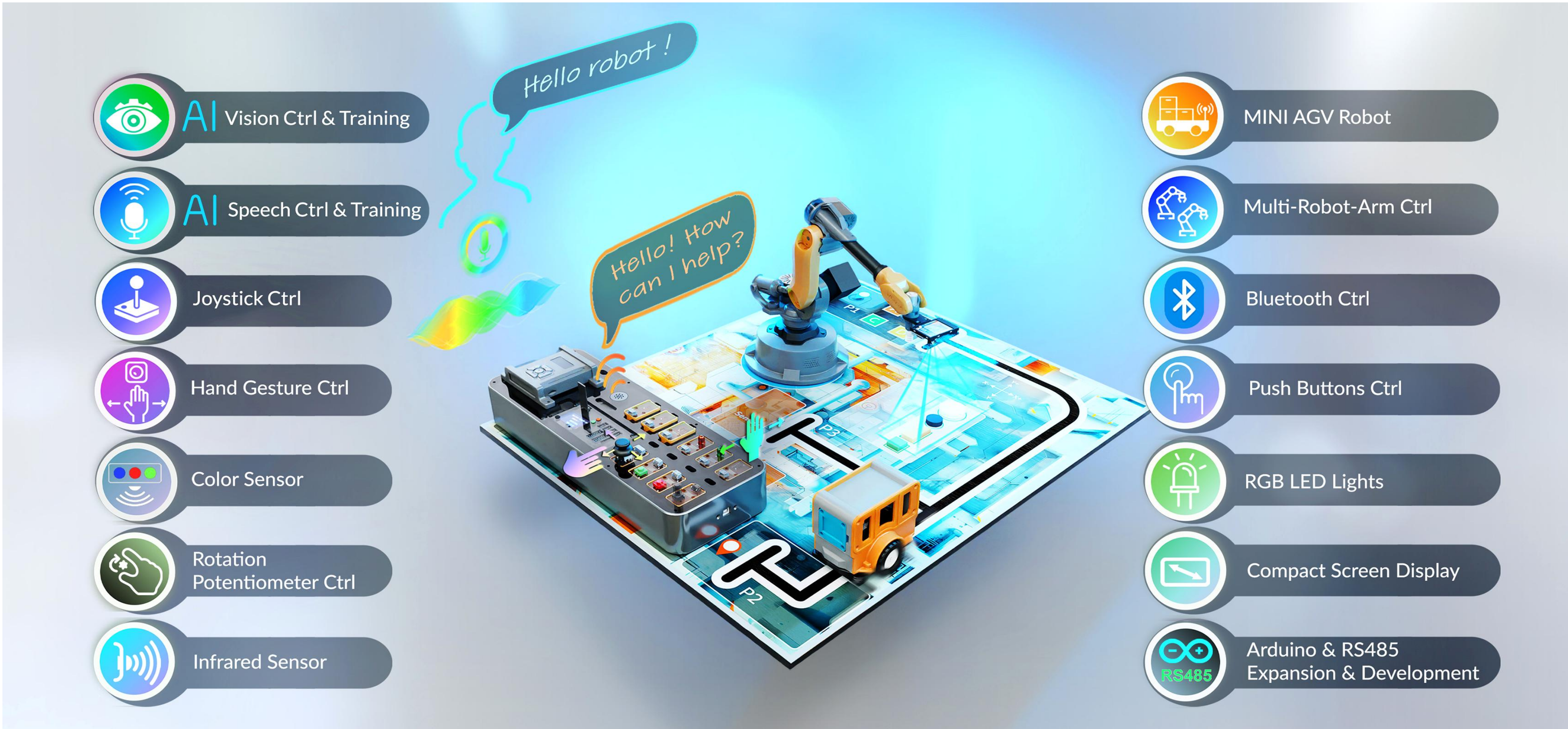
More Soft Gripper
Options

| AI-HUB | AI Navigation Learning Suite

Industry
Automation
K9-K12 | University Level



Open Interfaces
Open low-level ctrl
with command access



Functions

Model: WL-AC-AIDS-2560

- Integrated AI & Robotics Learning:**
Combines sensors, robots, and vision to teach the full cycle of decision-making, and execution in one system.
- All-in-One Intelligent Control:**
Integrates **AI Vision, Voice, Gesture, and Sensor Control** into a compact modular console. Allows seamless control of WLKATA robotic arms —**Mirobot, MT4, Haro** and more — with unlimited expansion potential.
- Smart Robotics & Mobility:**
Includes **AI Vision + Suction Tool** for object recognition and precision grasping, plus a **Mini AGV Set** for autonomous navigation and interactive automation demonstrations.
- Education-Ready & Open-Source:**
Built on **Arduino MEGA 2560**, supporting **RS485, Modbus**, and other protocols. Comes with a **comprehensive experiment textbook**, video tutorials for classrooms, labs, and maker spaces.

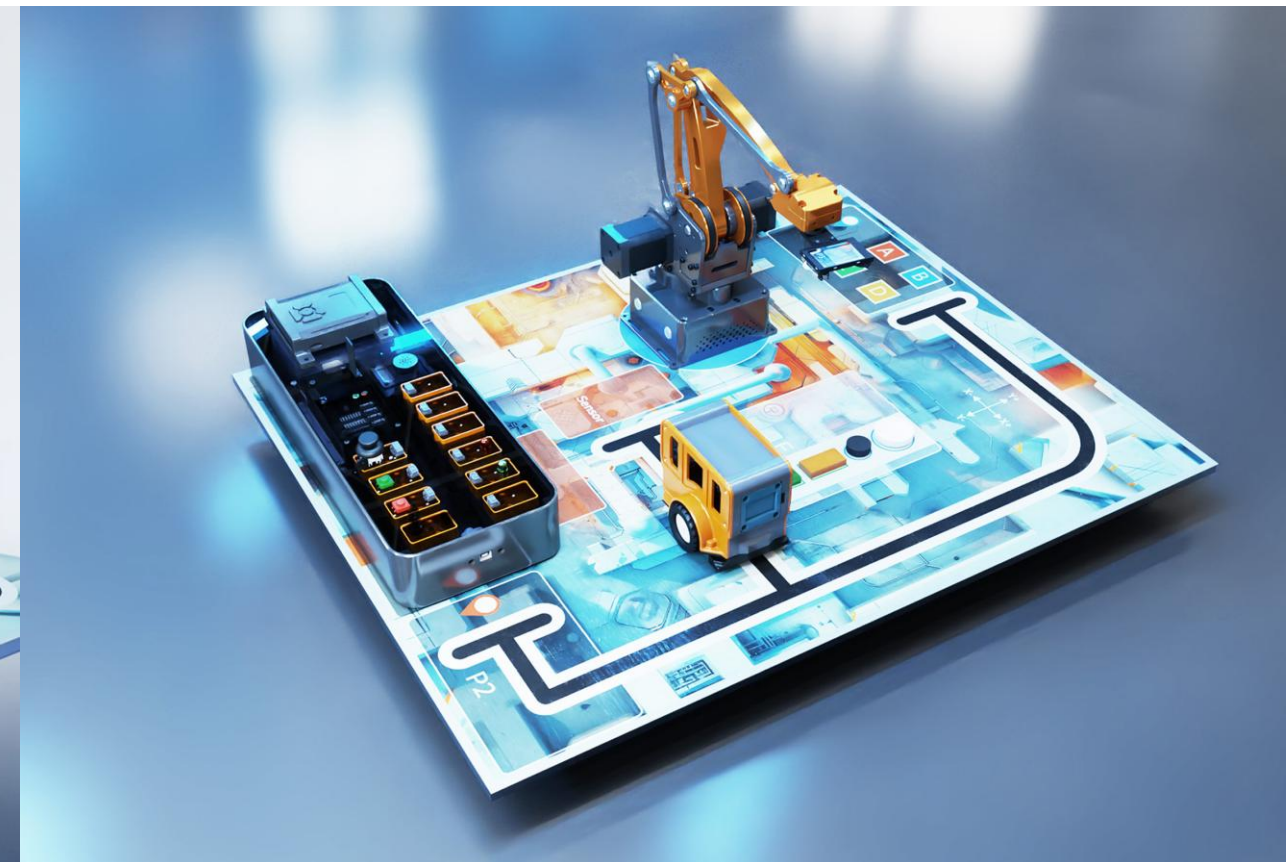
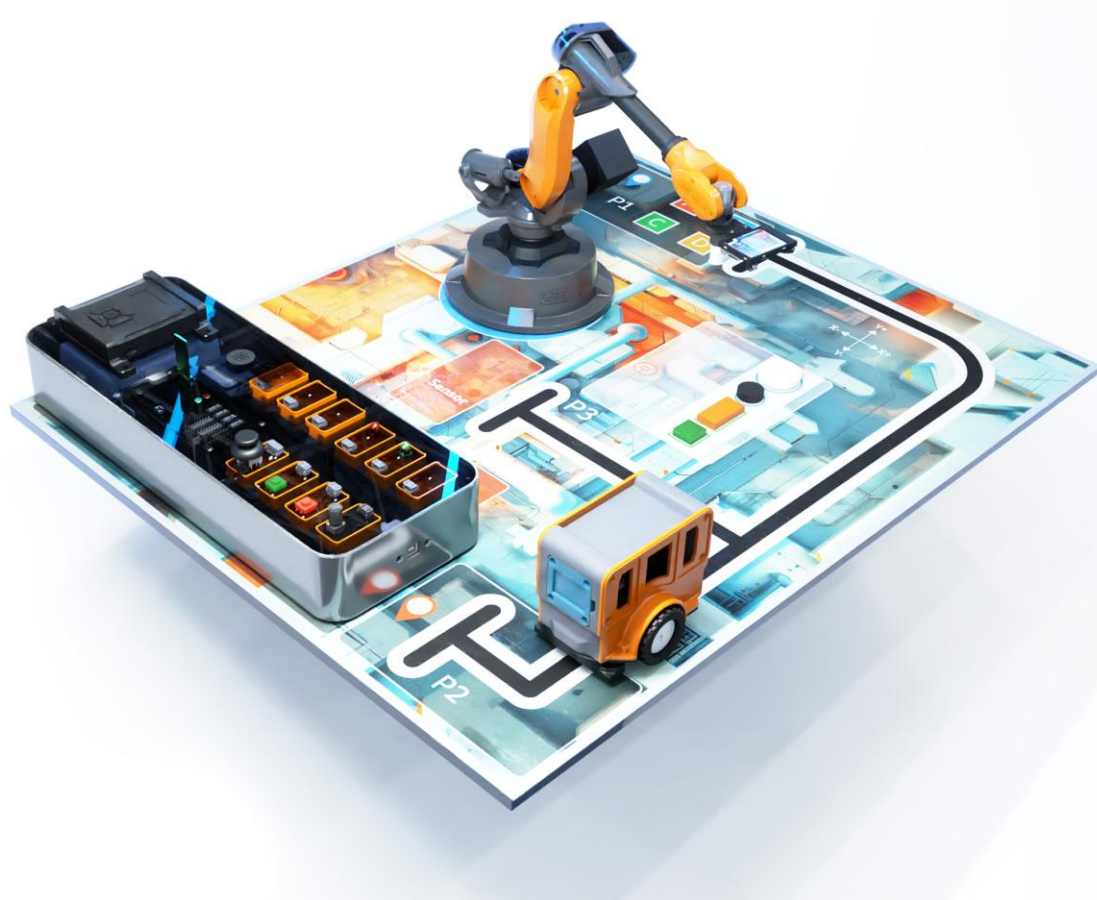
AI-HUB Console Module	Controller: - Processor: AVR chip; Operating voltage: 5V Intelligent Sensors: - Joystick Module: Operating voltage 5V; 2 analog inputs; 1 digital input - Gyroscope: Operating voltage 5V; - Color Sensor: Operating voltage 5V; detection distance 3–10 mm - LED Module: Operating voltage 5V - Button Module: Operating voltage 5V; colors red and green - Potentiometer: Operating voltage 5V; maximum rotation angle 270° Voice Module: - Supports user-defined editing of 50 keyword entries; Communication protocol: I²C
Vision Module	Processor: RISC-V 64-bit dual-core processor Communication interfaces: I ² C, UART, USB Functions: face recognition, object tracking, object recognition, line tracking, color recognition, tag recognition, object classification, and AI identification



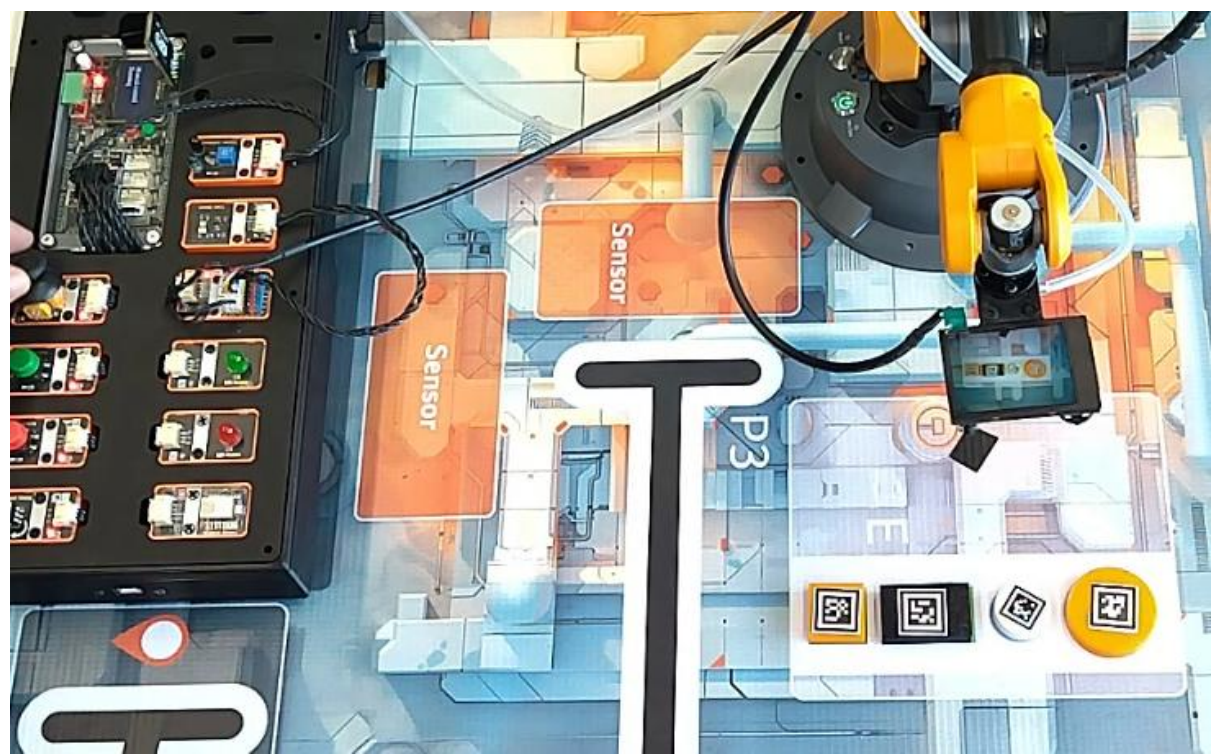
Scan to watch video



Applications



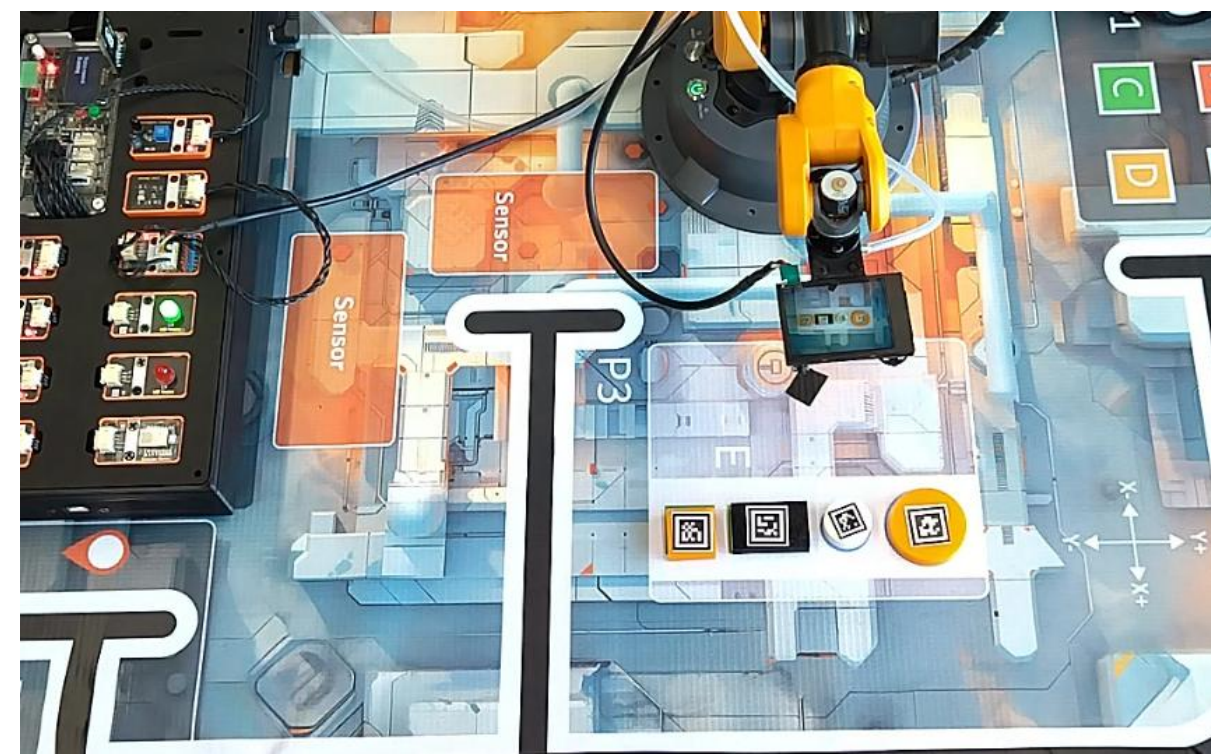
Integrated AI & Robotics Learning: Unites sensors, vision, and robots



Robot Telecontrol



Line-Following Car Transport



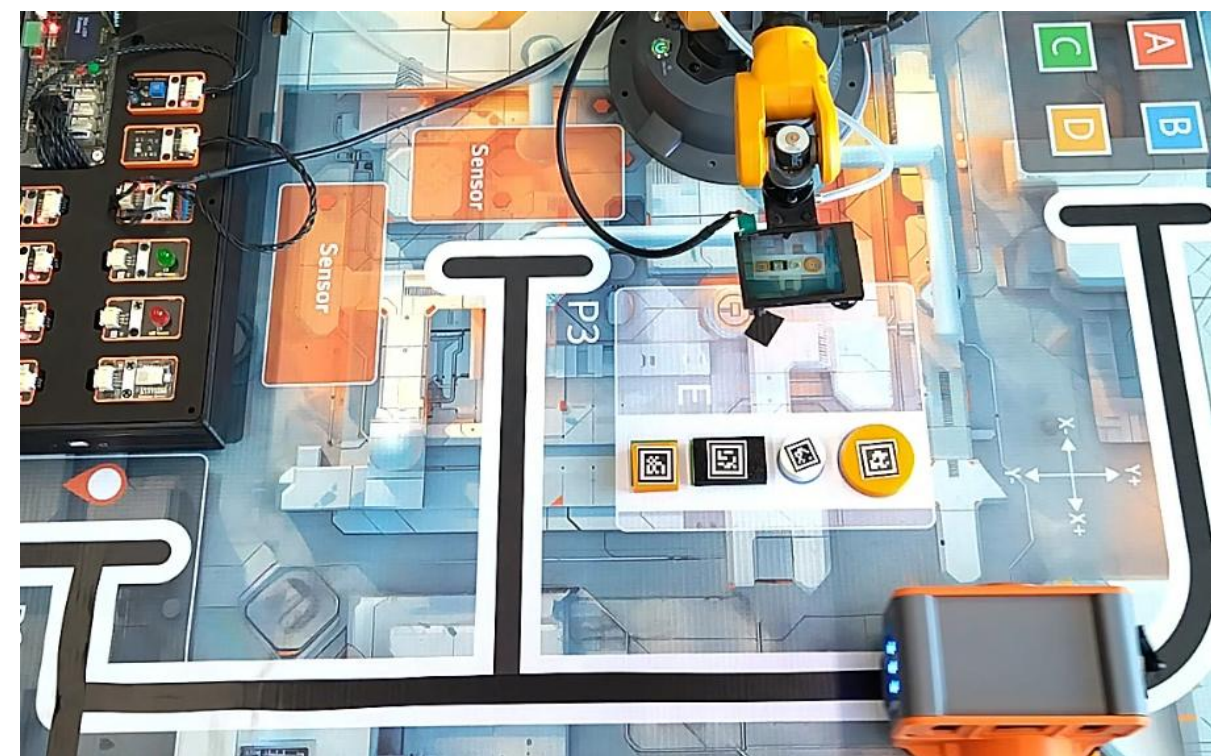
Vision-Guided Assembly



Robot Gesture Control



Color Recognition



Traffic Light Simulation and Button Control

Textbooks & Resources

AI-HUB and Robot Arm - Exploring AI, Robotics and Sensors with Arduino

Textbook | High School (K7-K12)

Foundations

- Introduction
- Functions of AI-HUB Components
- MEGA 2560 Fundamentals
- Standard Reference (CSTA)

Sensors & Tutorials

- Push Button Input and LED Control
- Rotary Potentiometer and LED Adjustment
- Six-Axis Gyroscope Motion Sensing
- Two-Axis Joystick Direction Control
- Color Sensor Detection
- Relay Control for External Devices
- Standard Reference (CSTA)

Robotic Arm Tutorials

- Homing and Status Query
- Angle and Coordinate Mode Control
- End Tool Operation
- File Execution and G-code Commands
- Dual Arm Control via RS485
- Standard Reference (CSTA)

Applications

- Color Recognition
- Manual, Voice, and Gesture Control
- Mini AGV Navigation
- Robotic Arm + Mini AGV Integration
- April Tag Visual Recognition



NEW

OpenCV

Advanced Vision Set

Industry

Robot Vision

University Level



Open Interfaces

Open low-level ctrl with full command access

- ✓ Object Recognition
- ✓ Target Positioning
- ✓ Dimensional Measurement
- ✓ Feature Detection



Functions

Model: WL-AC-AIVM-VM001

- **Powerful Vision Platform** – A Linux-based robotic vision system built with Python, PyTorch, and YOLOv5, integrated with the OpenCV library to perform visual positioning, measurement, detection, and recognition tasks.
- **Comprehensive Learning Support** – Includes an experiment textbook, covering Python scientific computing, robot kinematics, computer vision, deep learning object detection, Mask R-CNN segmentation, 2D pose estimation, hand-eye calibration, and software environment setup. It also offers hands-on projects such as ArUco tag grasping, and screw and nut sorting.
- **Education and Research Ready** – Provides a complete “theory-to-practice” platform for teaching and experimentation in machine vision, robotics, and image processing.



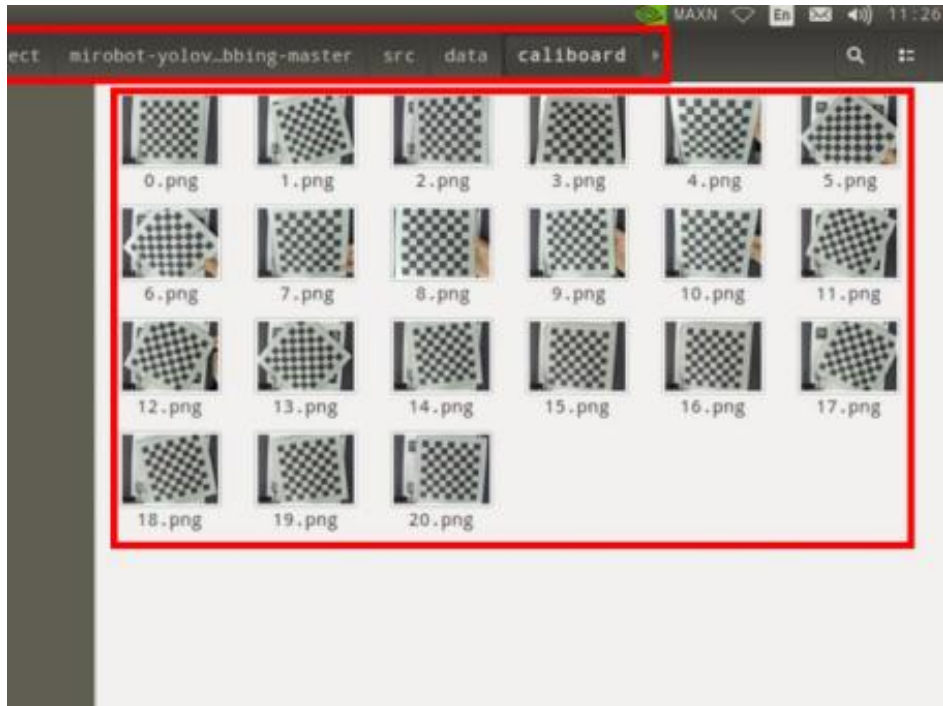
Multi-Robot Compatibility

Supports desktop 4-axis, 6-axis, and all WLKATA mini industrial robots。

Specs

Color	Full Color	CPU/GPU	CPU: Quad-core ARM-A57 @ 1.43GHz GPU: 128-core Maxwell
Resolution	2952 × 1944	Adjustable Lens Parameters	Brightness, Contrast, Hue, Saturation, Sharpness, Auto Balance, Exposure
Voltage	3.6V ~ 5V	Communication Interfaces	4 × USB 3.0, USB 2.0 Micro-B, HDMI, DP
Display Resolution	1920 × 1080	Video Encoder	4K @ 30 fps or 4 × 1080p @ 30 fps
Display Interface	HDMI, AV, VGA	Display Size	B701-GM 7-inch

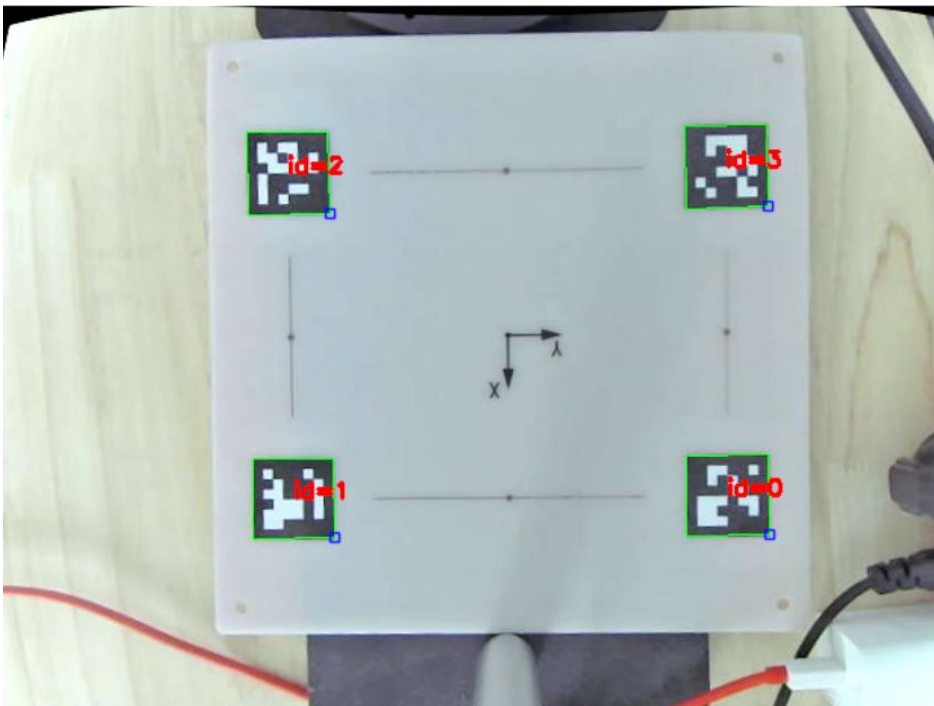
Applications



Camera Calibration



Hand-Eye Calibration



QR Code Recognition



Color Recognition



Shape Sorting



Screw Sorting



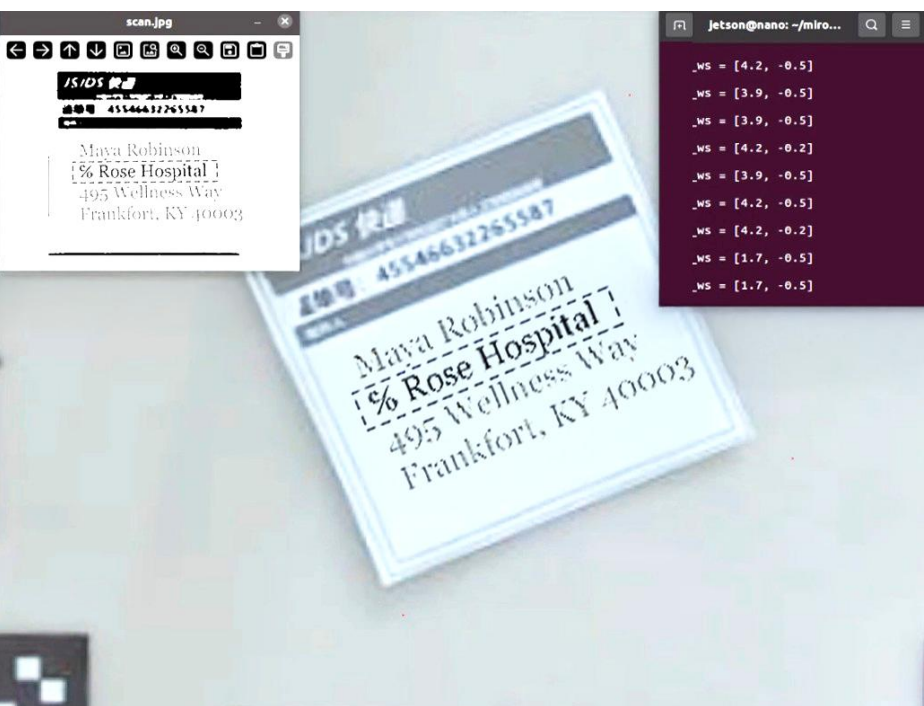
Defect Detection



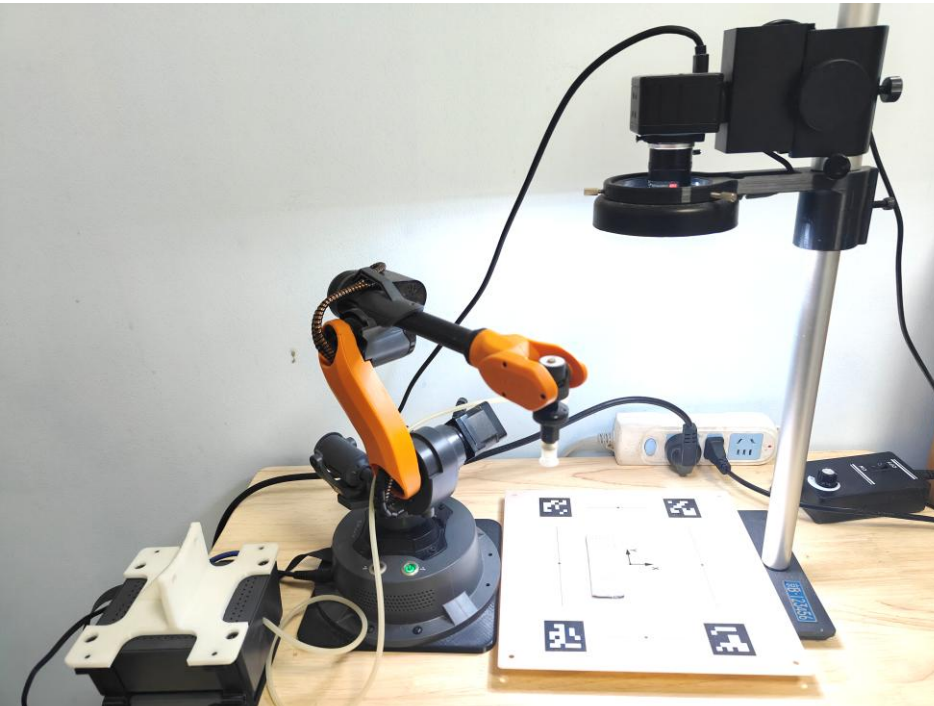
Pill Recognition



Object Recognition



Character Sorting



License Plate Recognition



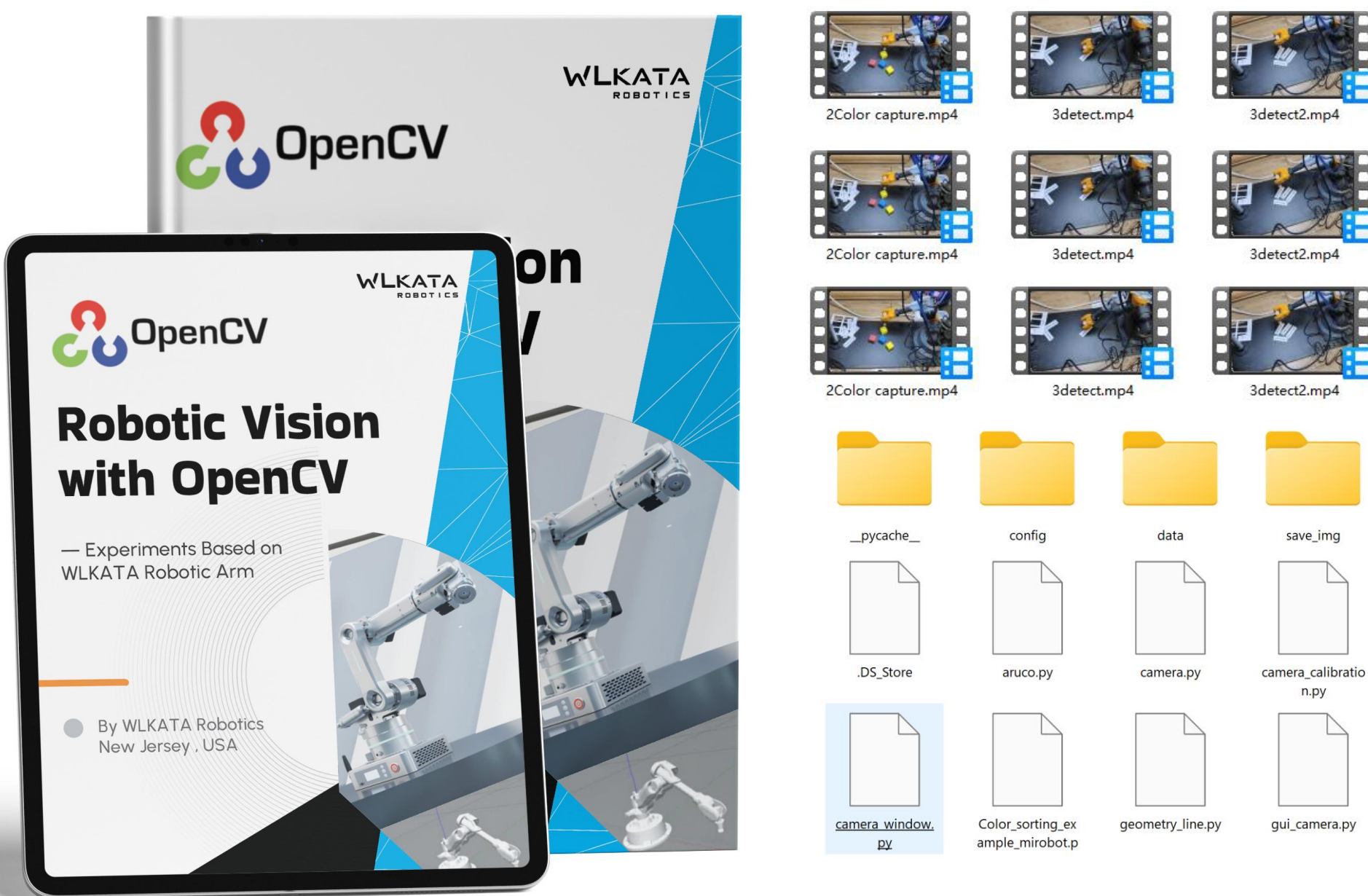
Document Recognition

Textbooks & Resources

Robotic Vision with OpenCV

Textbook | [University Level](#)

- Ch.1: Camera Calibration & Distortion Correction
- Ch.2: Hand-Eye Calibration (Nine-Point)
- Ch.3: QR Code Recognition & Perspective Transform
- Ch.4: Color Sorting with OpenCV
- Ch.5: Shape Recognition & Sorting
- Ch.6: YOLO Screw & Nut Sorting
- Ch.7: YOLO Fruit Card Sorting
- Ch.8: License Plate Recognition & Sorting
- Ch.9: OCR Character Recognition
- Ch.10: ID Recognition & Robotic Grasping
- Ch.11: Tablet Sorting
- Ch.12: Tablet Defect Detection



10+ Projects with Code & Videos

Textbook includes experiments guide, open-source code and video-guided experiments.

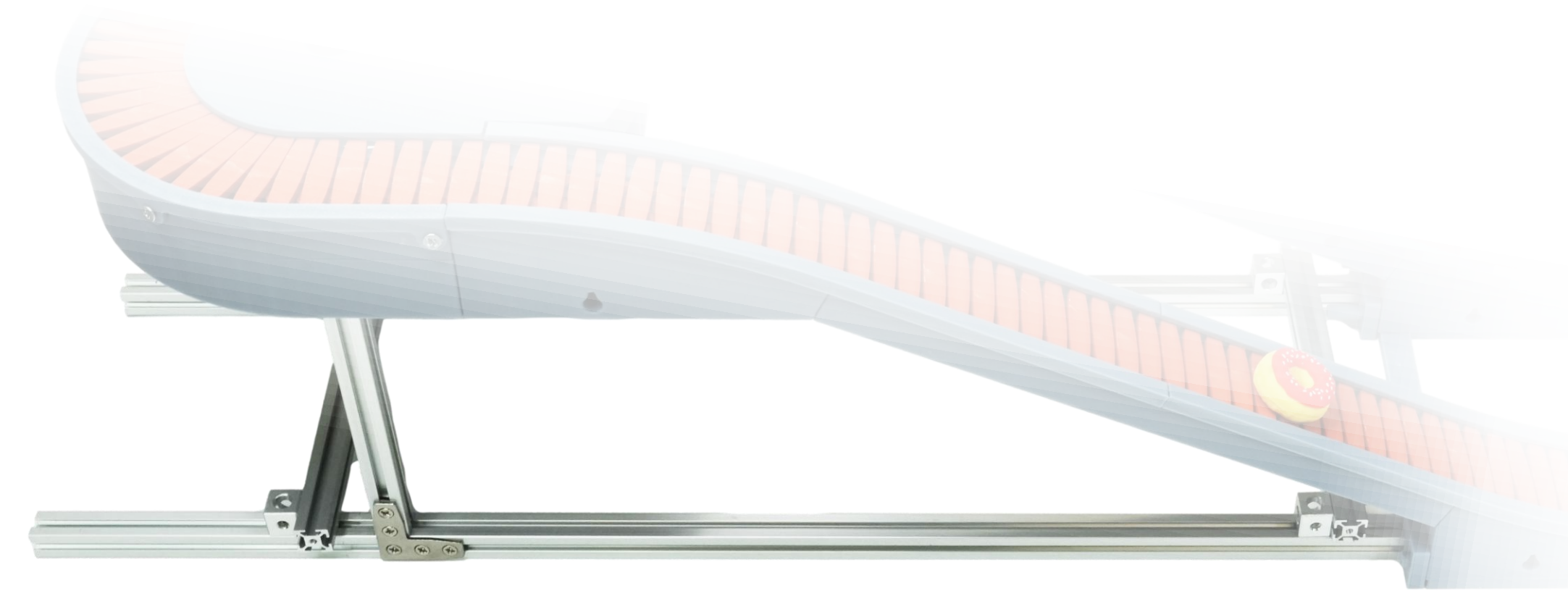
NEW

MiniFrame T-Slot Aluminum Beam

Industry
Construction
K7-K12 | University Level

High-quality aluminum build
Flexible mini T-slot system

- ✓ Rapid Prototyping
- ✓ Durable Structure
- ✓ Available in 0808, 1010, 1212, and 1515mm sizes



08x08mm Starter Kit

Aluminum Beam

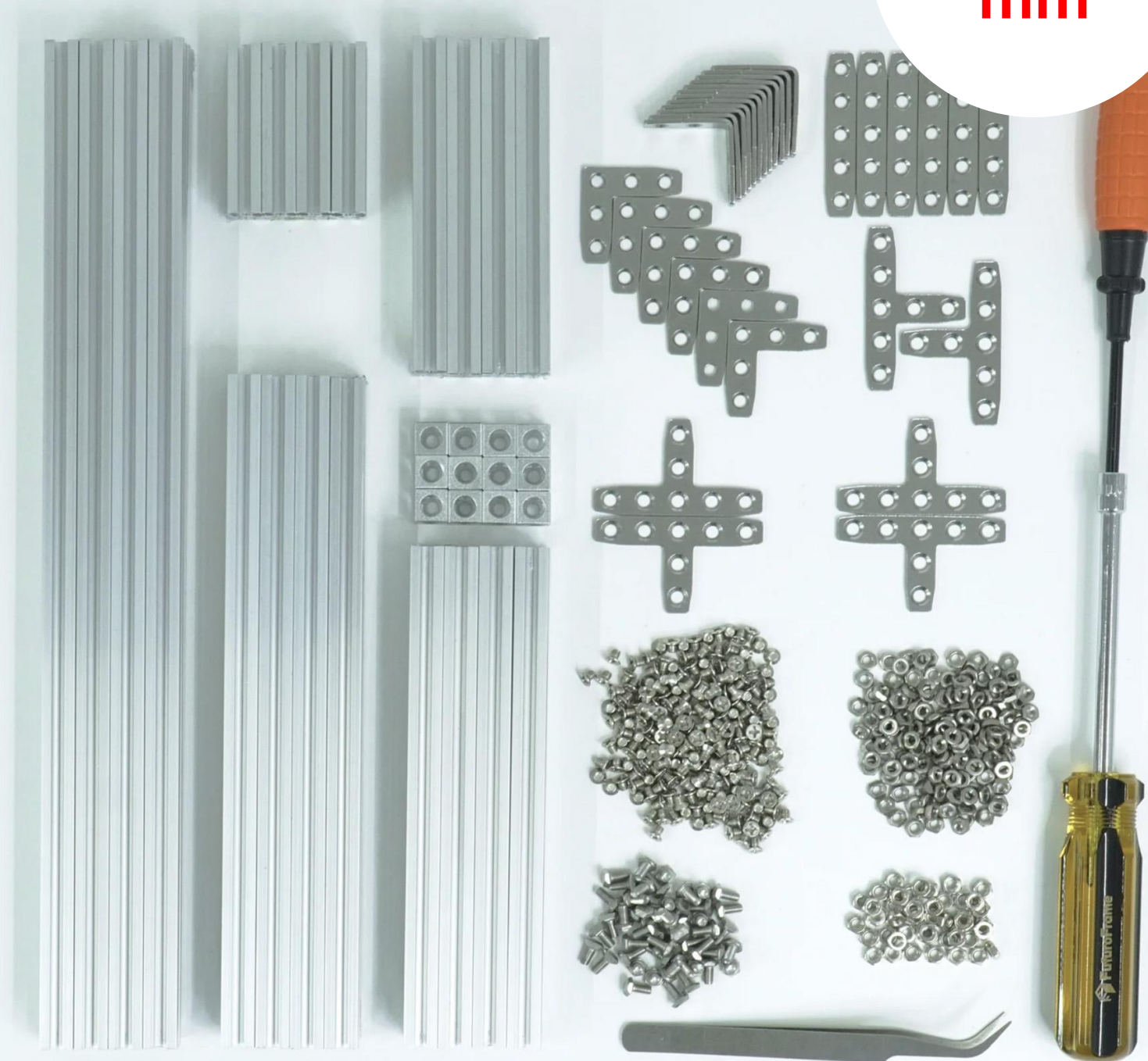
08X08
mm



10x10mm Starter Kit

Aluminum Beam

10X10
mm



12x12mm Starter Kit

Aluminum Beam

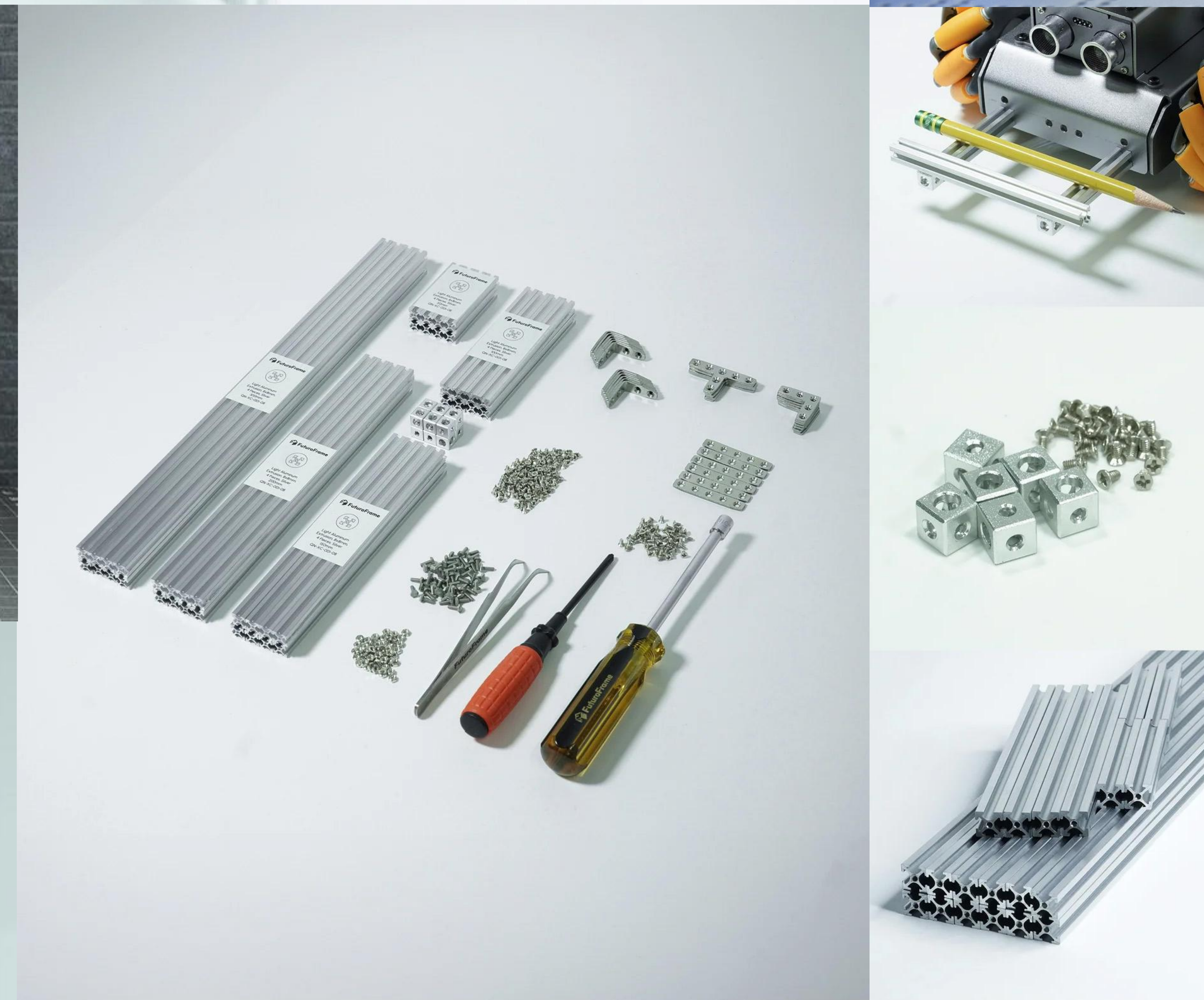
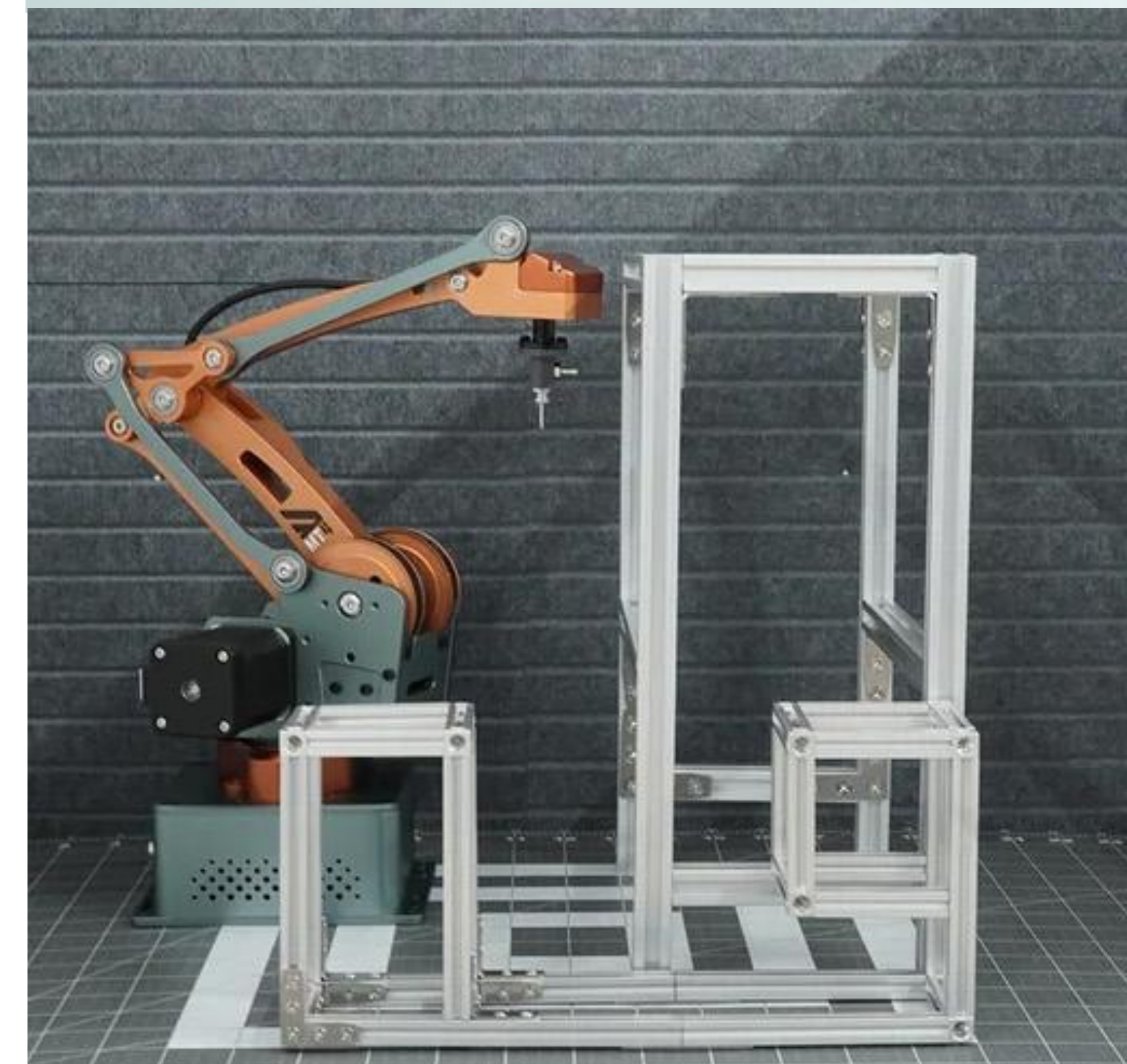
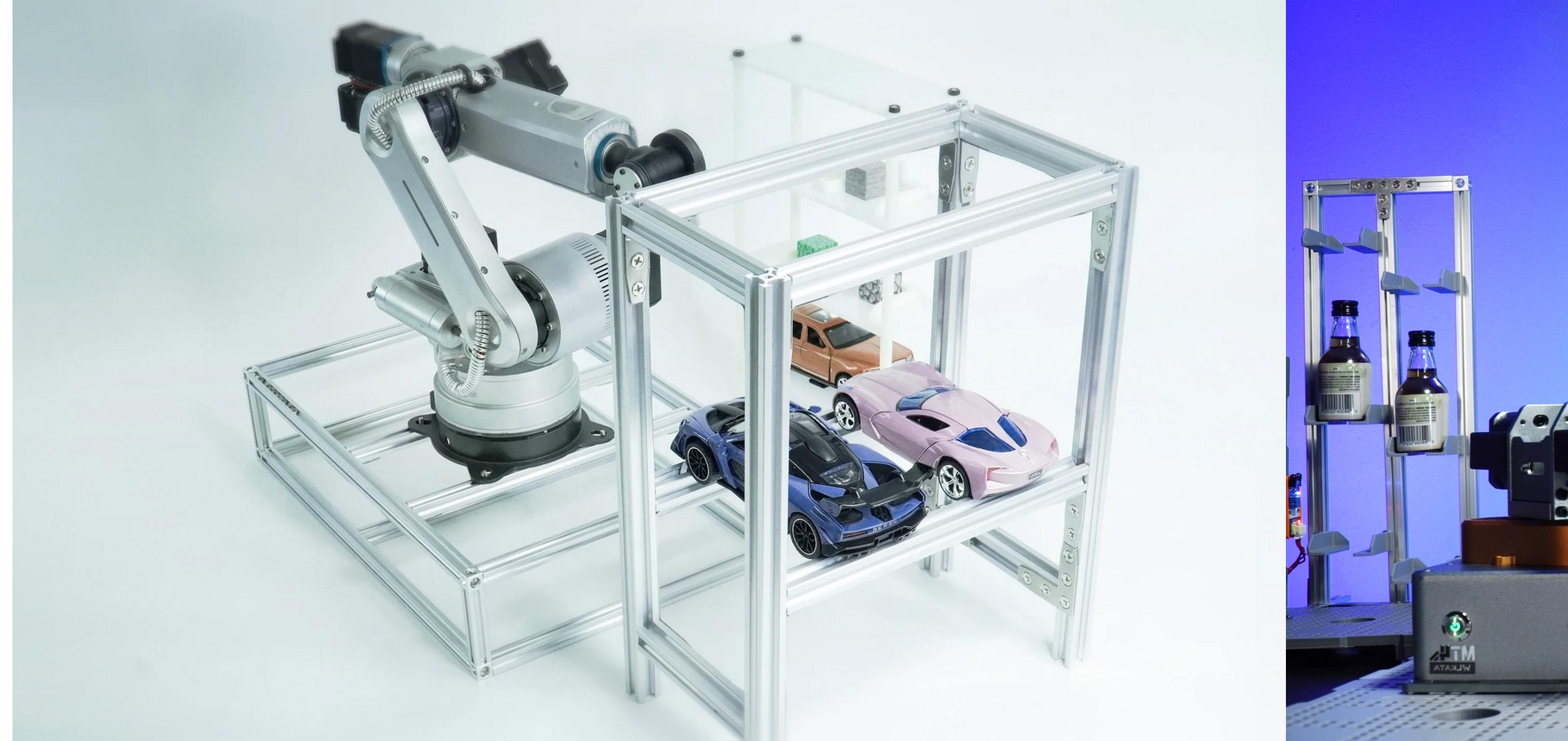
12X12
mm



15x15mm Starter Kit

Aluminum Beam

15X15
mm

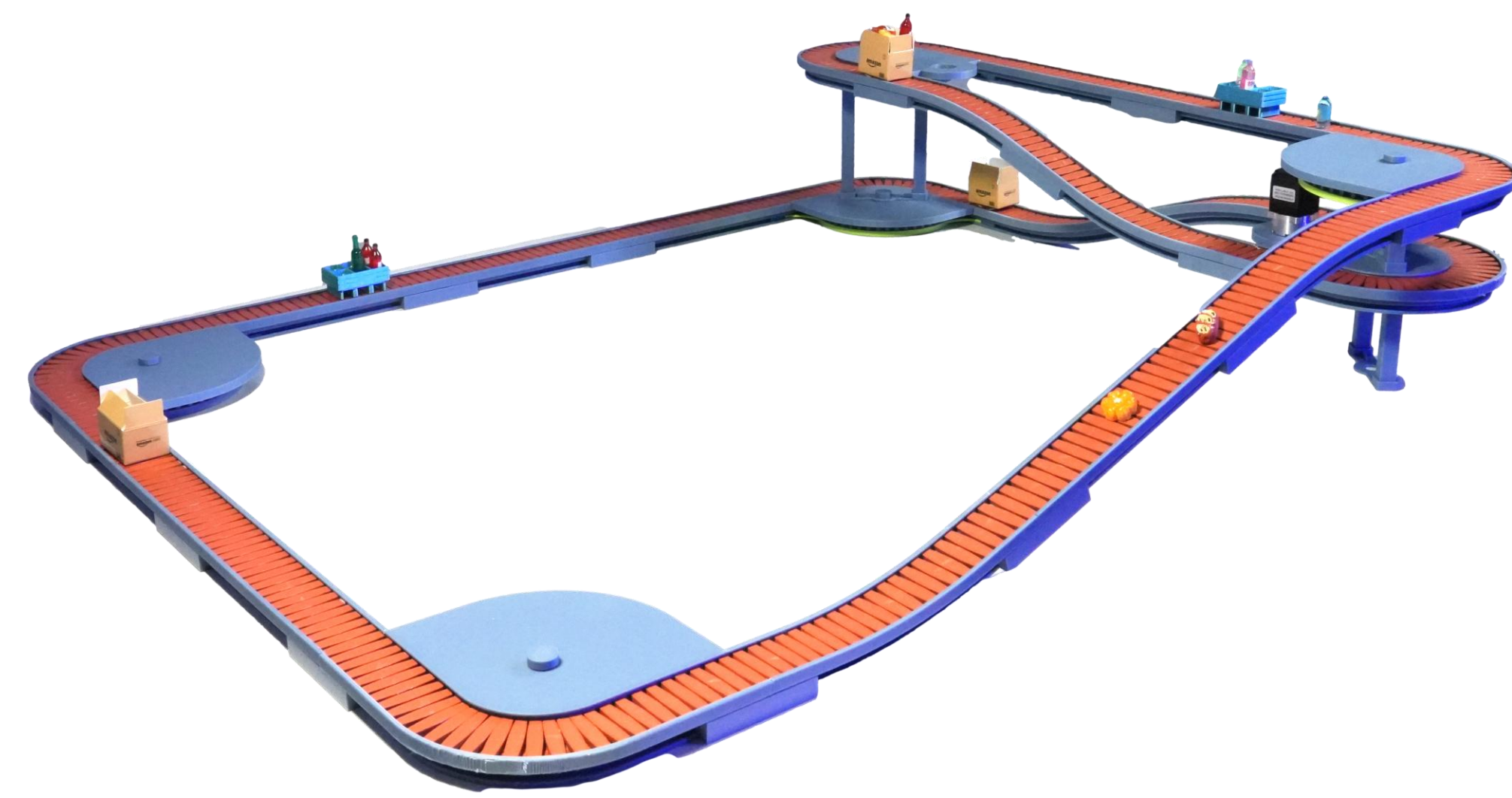


NEW

OmniConveyor

Metal . Scalable . Modular

Industry
Transportation
Kg-K12 | University Level



Modular & Scalable

Combine multiple units — straight, 90°/180° turns, slopes, & belt plates

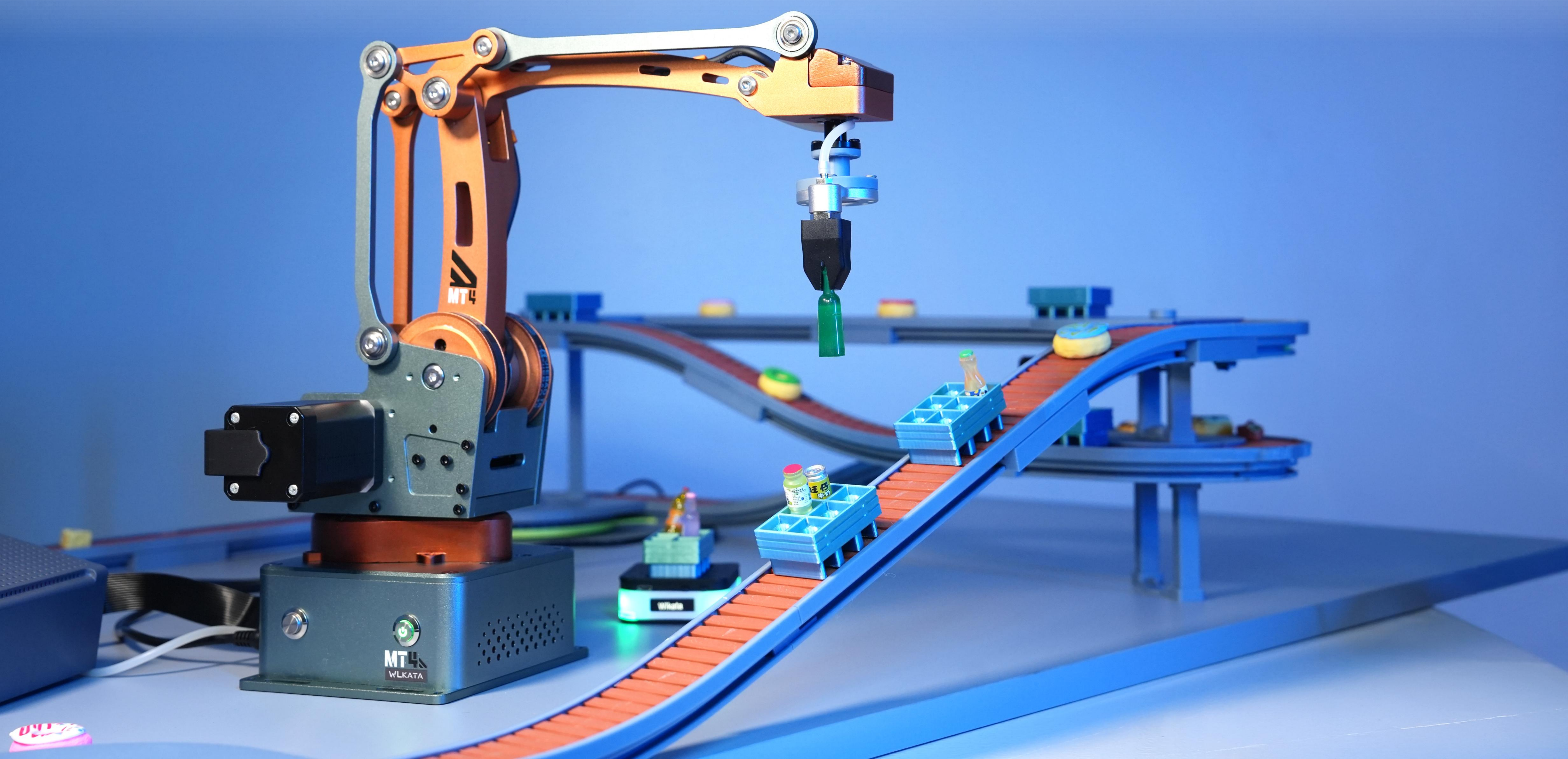
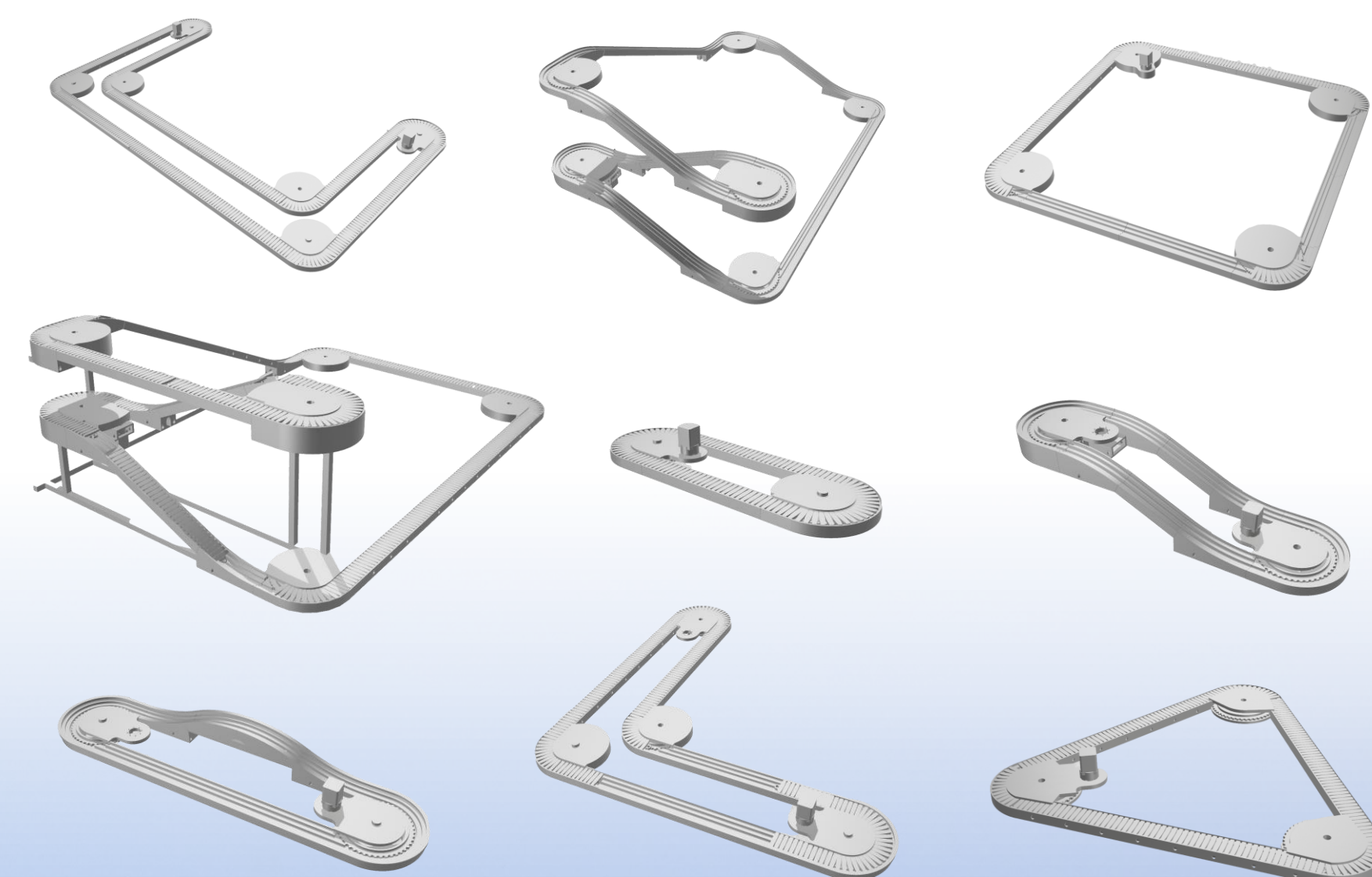
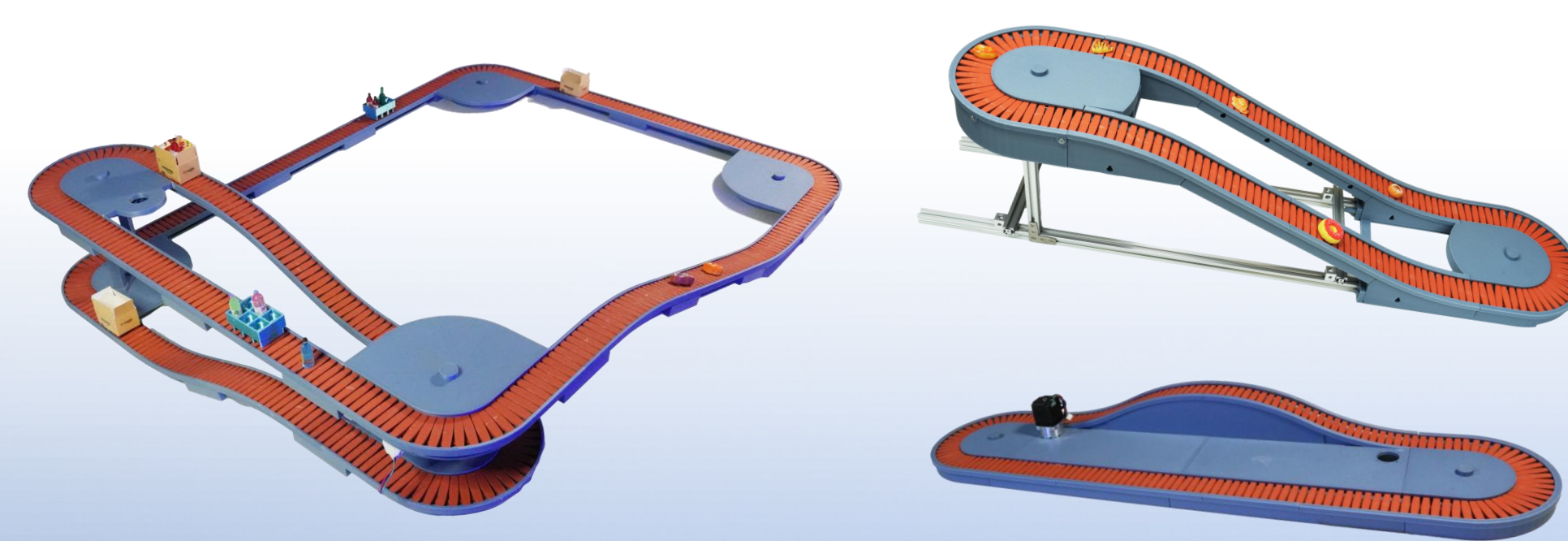
Open Interfaces

Open low-level ctrl with full command access



Endless Possibilities

Build, Connect, and Automate Any Way You Imagine.



NEW

... — And more ! — World Builder Series

Industry
Diverse Industries
Kg-K12 | University Level



Push Feeder

Automatically pushes parts onto the line for continuous flow.



Roller Feeder

Uses rollers for smooth, low-friction material transfer.



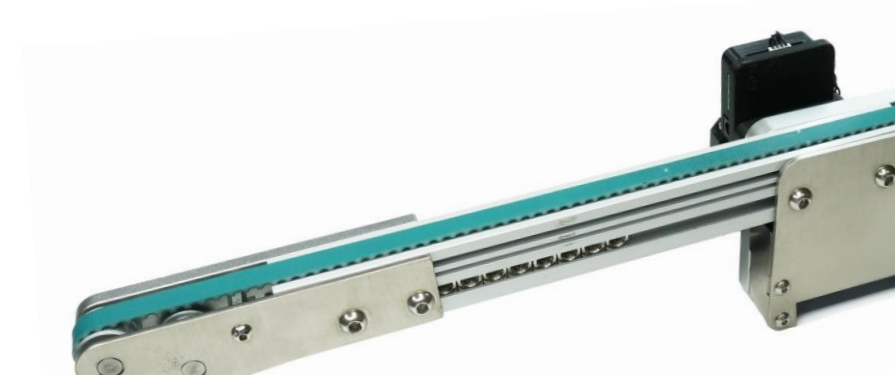
Sensor Storage

Smart shelf with sensors for part detection and inventory tracking.



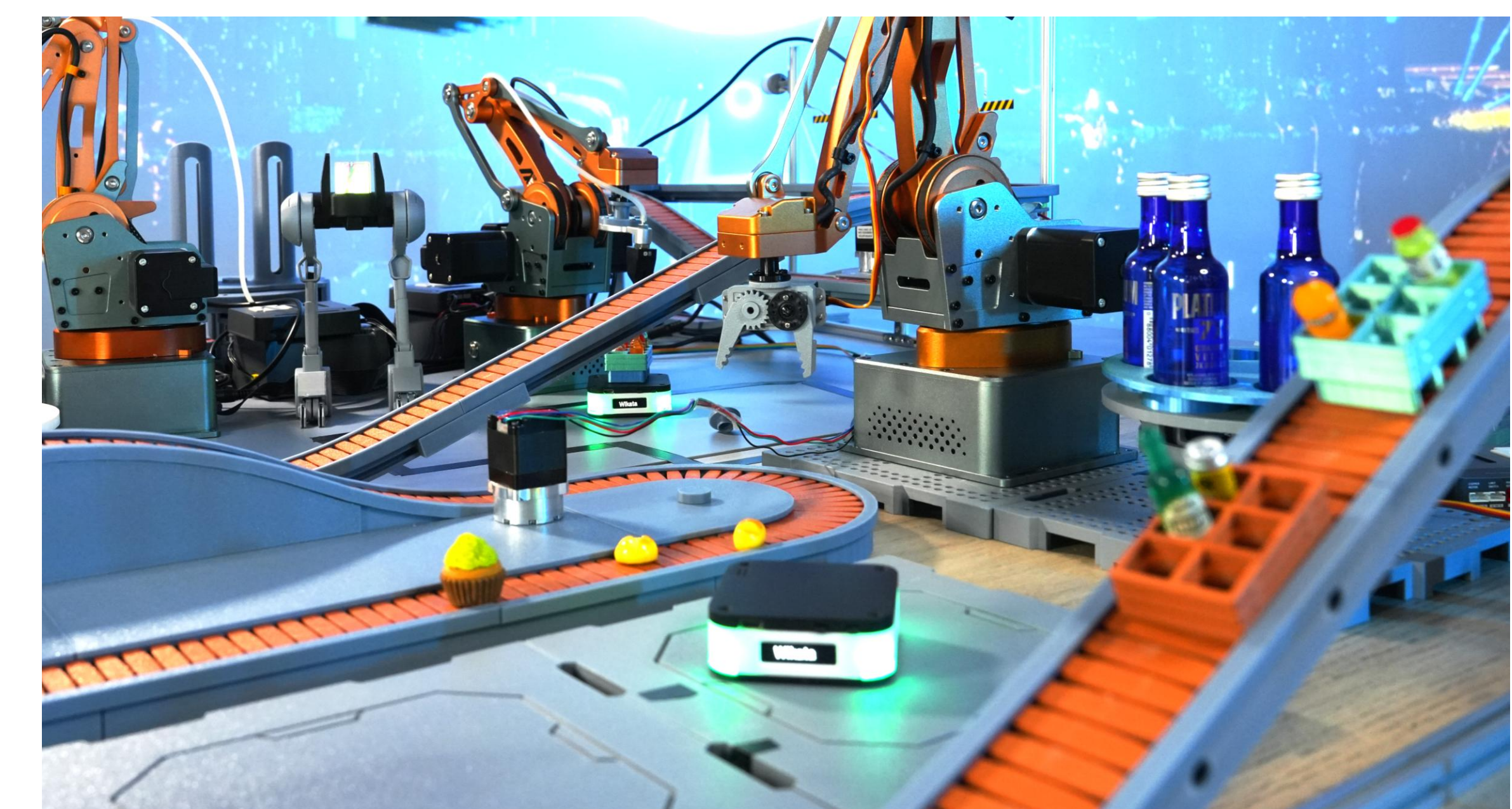
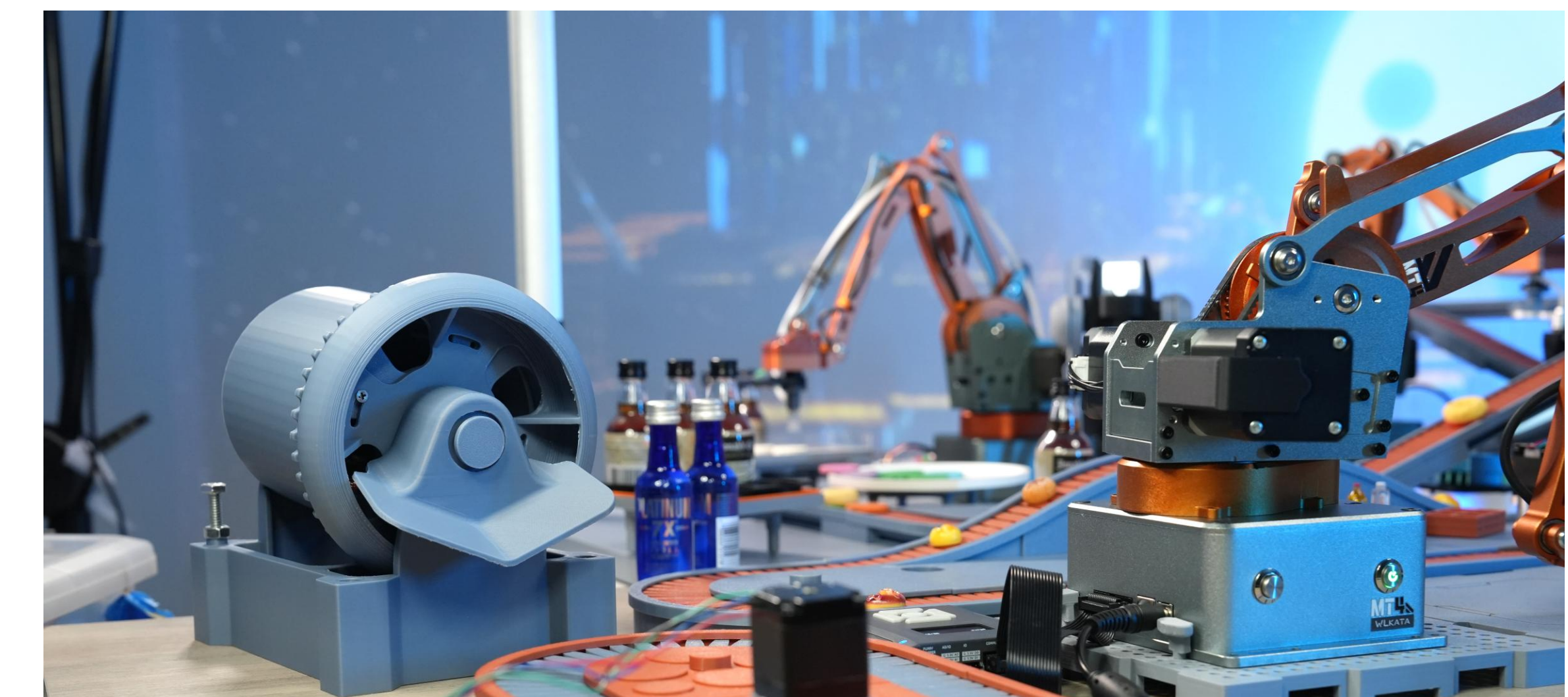
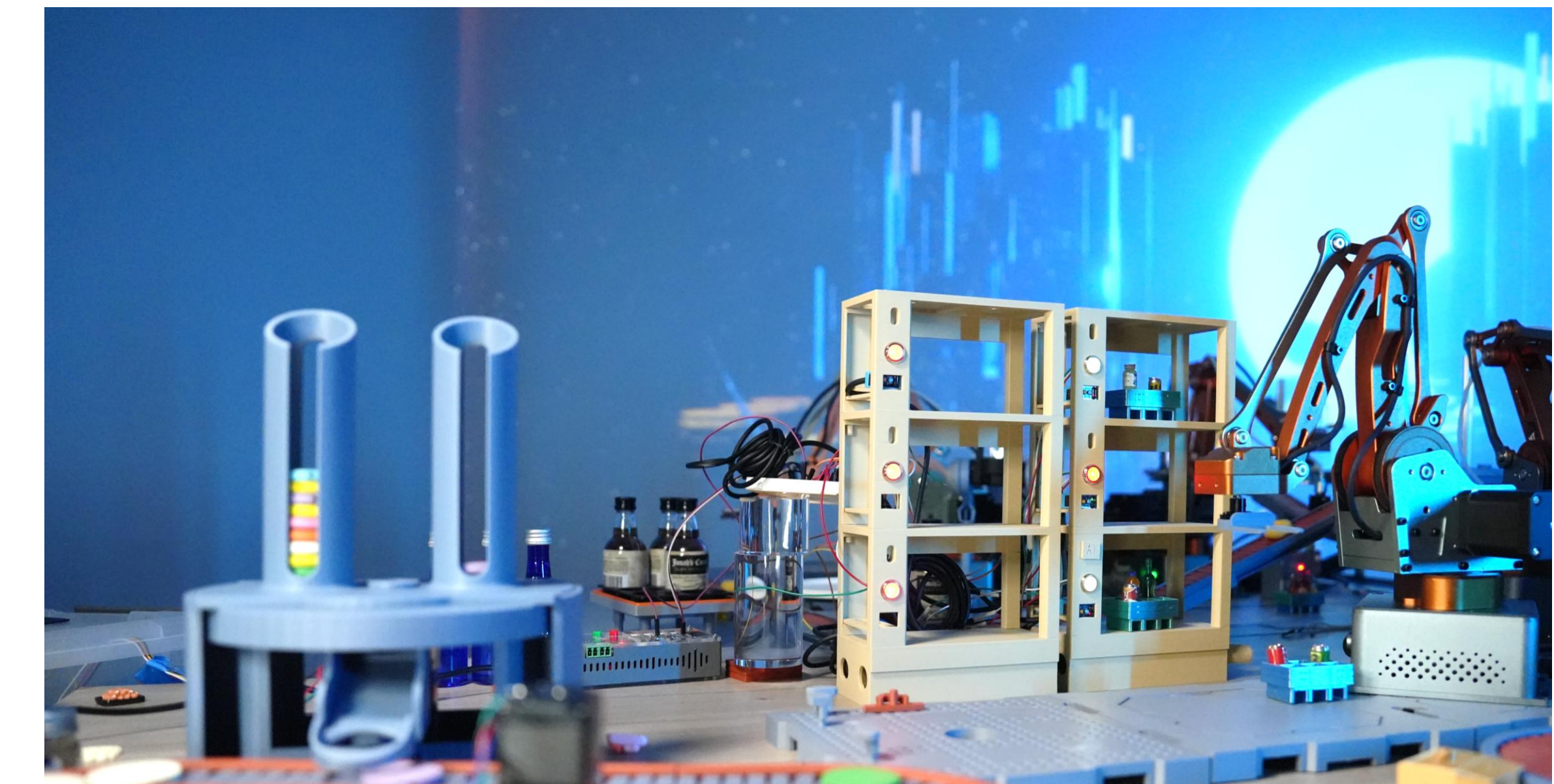
Mini AGV

Super compact mobile robot for autonomous transport and delivery.



Classic Mini Conveyor

Lightweight narrow conveyor for simple, reliable motion transfer.



3. Ready-to-use Workstations

10+

Unique
Stations

20+

Customizable
Accessories

**Open
API**

Interfaces

Scaled-Down Industrial Training Workstation

1:10 Industrial Mini Factory

Realistic and high-density setups

Open Interfaces

Open low-level ctrl with full command access

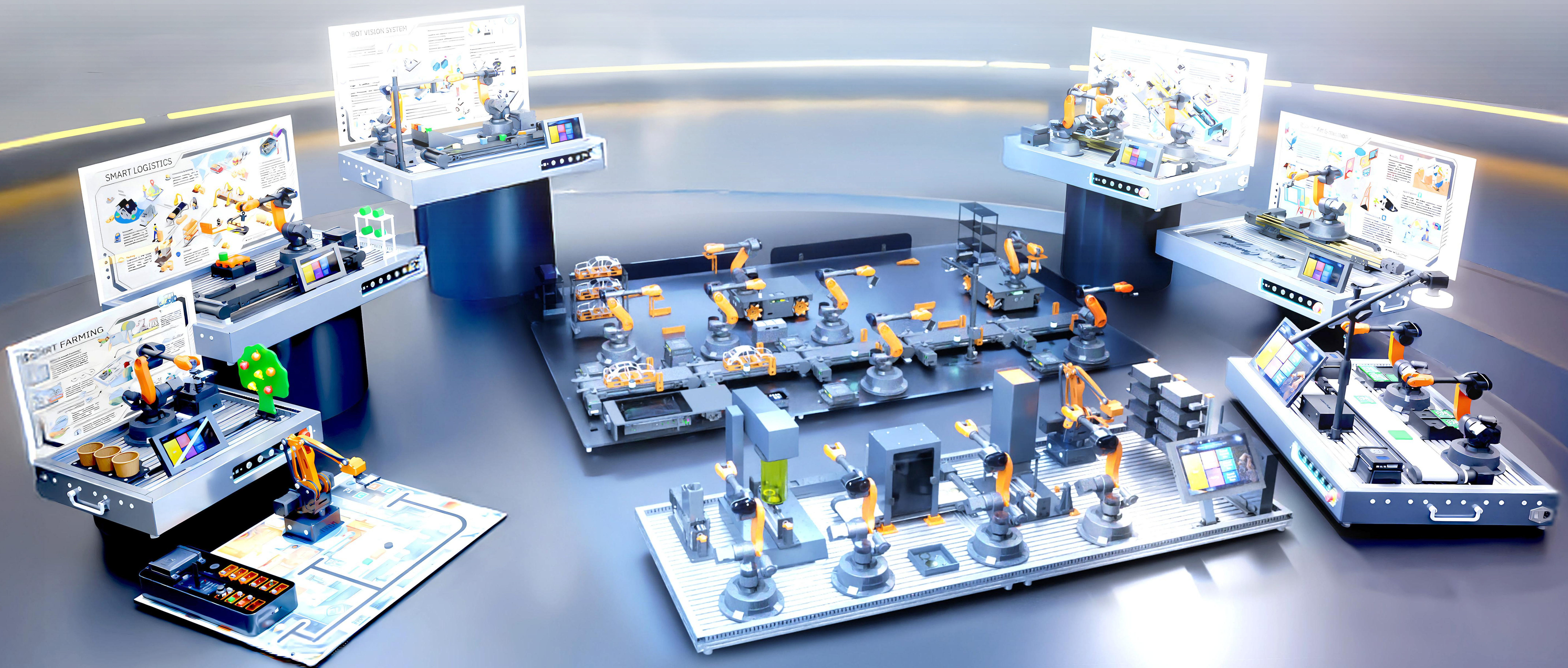


OpenCV

SIEMENS



MIC (Make It Center)
AUSTIN COMMUNITY COLLEGE
Texas, USA



NEW

Calligraphy Simulation Cell (Mirobot)

Industry:
Creative

K9-K12 | University Level



Specs

Smart Base – Size Medium:	• Dimensions: 880mm X 500mm X 80mm (height) • Structure: Aluminum alloy panel, sheet metal frame, ergonomic design • Power: Built-in 220V to 12V power module • Front Panel Buttons: Emergency stop, restart, power switch, customizable function buttons
Six-Axis Robotic Arm:	WLKATA Mirobot X 1
Sliding Rail:	WLKATA Sliding Rail Set X 1

Functions

Model: WL-PL-PRO-Ca-50MM



- **Innovative Robotic Pen Writing System:** The WLKATA Mirobot Art Simulation Cell is an innovative educational system that integrates robotic technology with artistic pen writing. Equipped with a soft-tip writing pen, the robot accurately performs smooth and expressive strokes to write English letters, showcasing precise control and graceful movement.
- **Educational and Creative Applications:** The system helps students develop programming and spatial thinking skills while inspiring creativity in both robotics and artistic expression. It is ideal for technology exhibitions and practical courses in robotics, simulation, and creative writing applications.



Fruit Picking Cell (Mirobot)

Industry:
Agriculture

K9-K12 | University Level



Specs

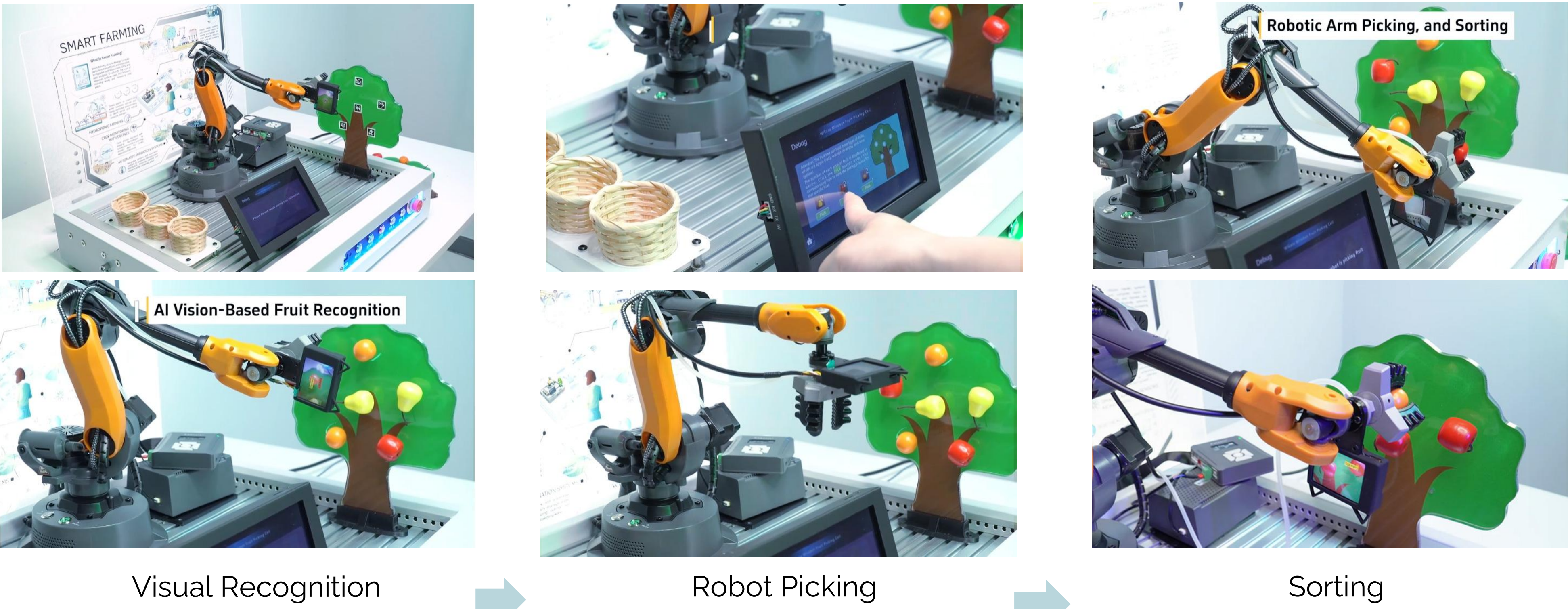
Smart Base – Size Small:	• Dimensions: 500mm X 400mm X 80mm (height) • Structure: Aluminum alloy panel, sheet metal frame, ergonomic design • Power: Built-in 220V to 12V power module • Front Panel Buttons: Emergency stop, restart, power switch, customizable function buttons
Six-Axis Robotic Arm:	WLKATA Mirobot X 1
VisionSoft Grip:	• Processor: RISC-V 64-bit dual-core processor • Communication interfaces: I²C, UART, USB • Functions: face recognition, object tracking, object recognition, line tracking, color recognition, tag recognition, object classification, and AI identification

Functions

Model: WL-PL-PRO-FP-RGB3



- **Intelligent Agricultural Robot System:** The system combines robotic programming and smart sensor recognition to simulate fruit picking, identification, and sorting. It can be upgraded with a vision module for research on robotics and machine vision in agriculture.
- **Educational Applications:** Ideal for courses in robotics, AI engineering, intelligent control, automation, and computer science, offering practical training in smart agriculture and robotic innovation.
- Supplied with a **complete Digital Resource Kit** featuring manuals, an experiment handbook for educators, code samples, and demonstration videos.



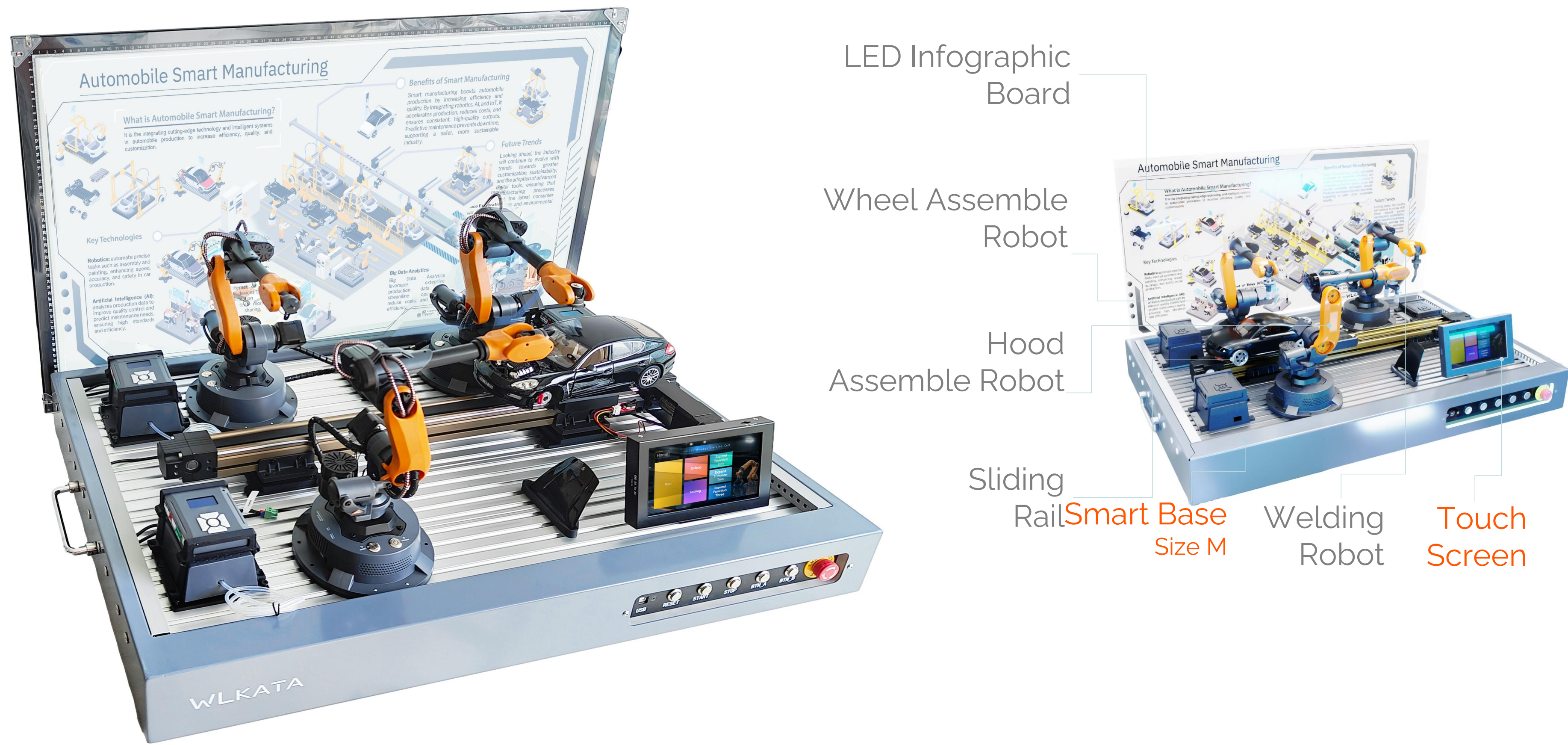
NEW

Automobile Assembly Cell (Mirobot)

Industry:

Automobile

K9-K12 | University Level

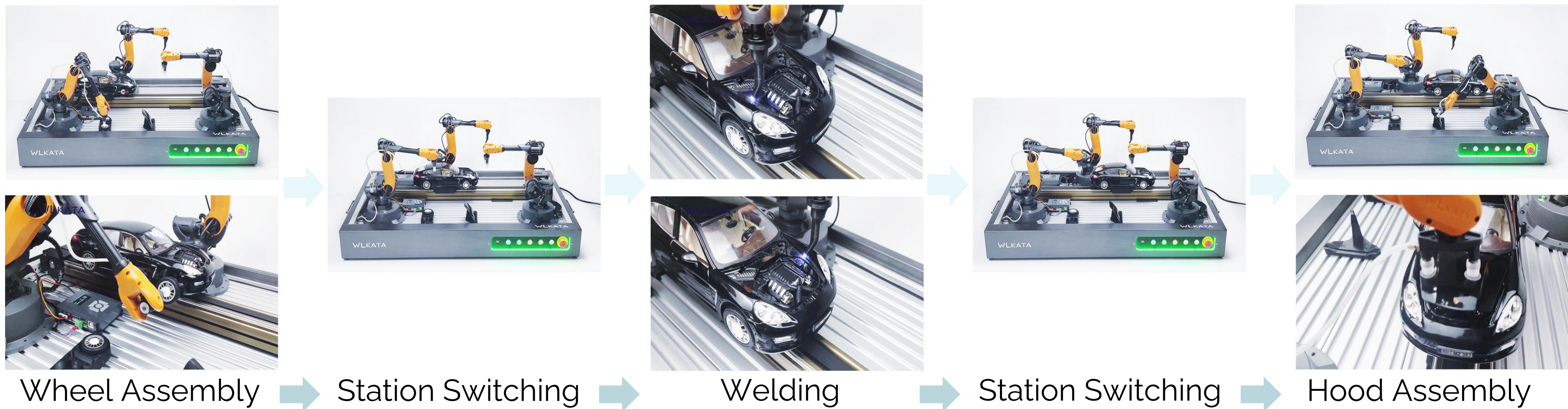


Functions

Model: WL-PL-PRO1-Aa-Tec3

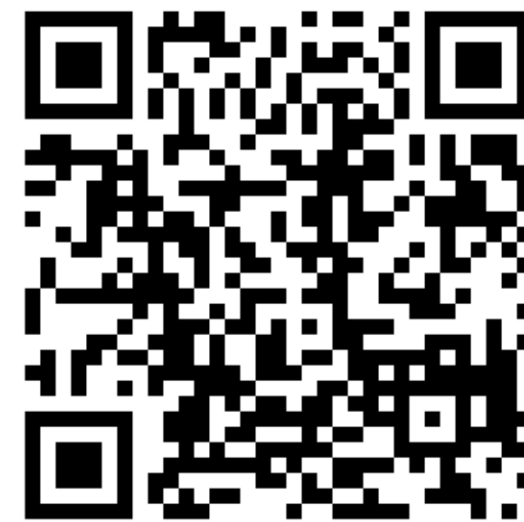


- This robot cell simulates key processes in automotive manufacturing such as assembly, welding, and integration. It features **three six-axis robots** and a **linear transport unit** with a car model, demonstrating human-robot collaboration on an assembly line. Additional features include a **smart base**, a **touch-screen control interface**, and an **LED infographic board** that provides both illumination and visualized knowledge display. Ideal for training and research in **mechatronics, robotics, intelligent manufacturing, and automation technologies**.
- Supplied with a **complete Digital Resource Kit** featuring manuals, an experiment handbook for educators, code samples, and demonstration videos.



Specs

Smart Base – Size Medium:	• Dimensions: 880mm (width) X 500mm (depth) X 80mm (height) • Structure: Aluminum alloy panel, sheet metal frame, ergonomic design • Power: Built-in 220V to 12V power module • Front Panel Buttons: Emergency stop, restart, power switch, customizable function buttons
Six-Axis Robotic Arm:	WLKATA Mirobot X 3
Sliding Rail:	WLKATA Sliding Rail Set X 1



Scan to watch video



NEW

AI Automatic Sorting Cell (Mirobot)

Industry:

Vision Sorting

University Level

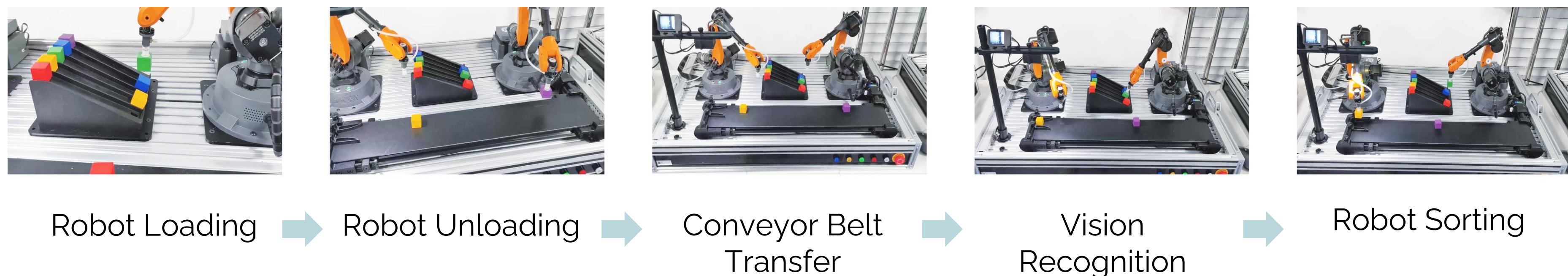


Functions

Model: WL-PL-PRO1-AiGS-RGB3



- The **AI Automatic Sorting Training Platform** replicates real-world applications in **food, pharmaceutical, and industrial part sorting**. It combines **robotics and machine vision** to achieve **intelligent, automated sorting**, one of the most common uses of AI in modern manufacturing.
- Learners can explore key technologies such as **industrial automation, robot motion control, vision recognition, and programming algorithms**. The system also supports **process analysis and optimization**, helping improve productivity and product quality.
- It is ideal for **education and research in robotics, artificial intelligence, machine vision, mechatronics, and computer technology**.



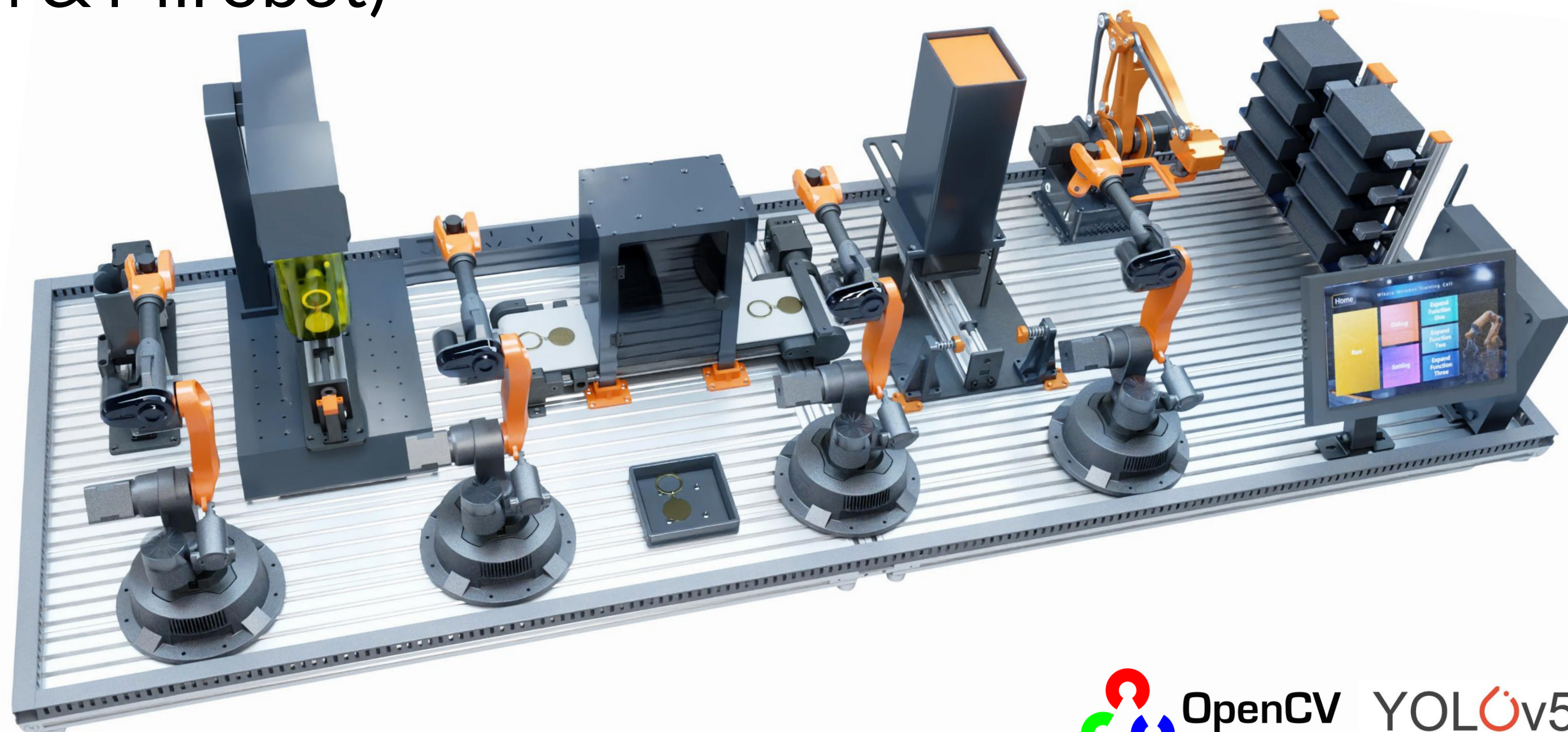
Specs

Smart Base – Size Medium:	• Dimensions: 880mm (width) X 500mm (depth) X 80mm (height) • Structure: Aluminum alloy panel, sheet metal frame, ergonomic design • Power: Built-in 220V to 12V power module • Front Panel Buttons: Emergency stop, restart, power switch, customizable function buttons
Six-Axis Robotic Arm:	WLKATA Mirobot X 2
Conveyor Belt:	WLKATA Conveyor Belt Set X 1
AI Visions:	WLKATA AI Vision Set X 1 • Processor: STM32H7, 480 MHz; • Communication Interface: UART / RS485 • Resolution: 4 Megapixels; • Functions: Face recognition, object tracking and detection, shape recognition, etc. WLKATA Camera Sensor X 1 (Image Sensor: OV2640 (2.0Megapixel Camera))

NEW

Engraved Souvenirs Manufacturing Line (MT4 & Mirobot)

Industry:
Manufacture
University Level



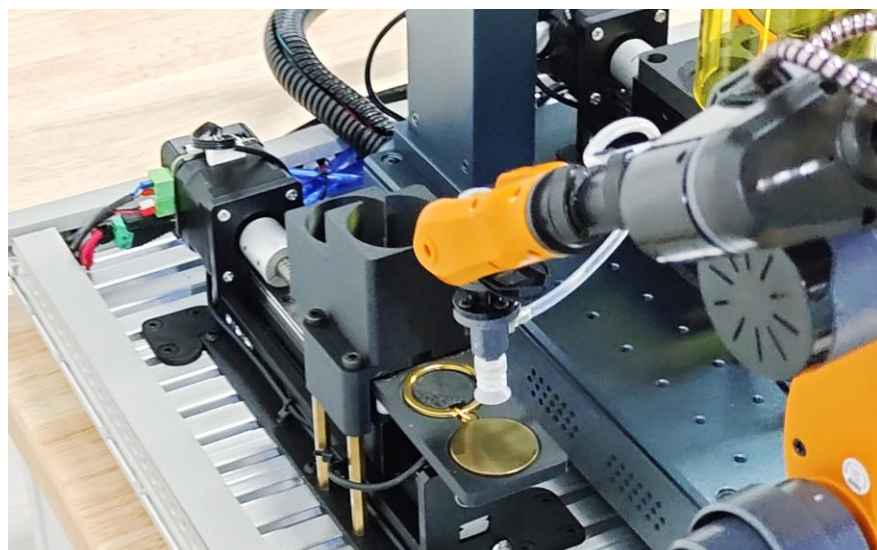
Functions

Model: WL-PL-CM-CD24

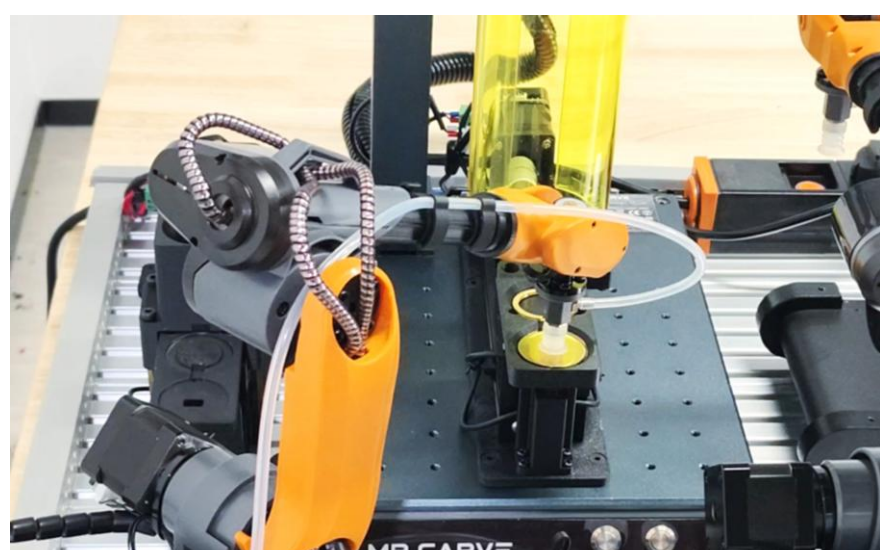
LASER ENGRAVING python C++

The Engraved Souvenirs Manufacturing Line is a compact, modular smart factory designed for teaching and research in robotics, artificial intelligence, and intelligent manufacturing. Scaled down from real industrial lines, it offers a realistic Industry 4.0 Learning environment.

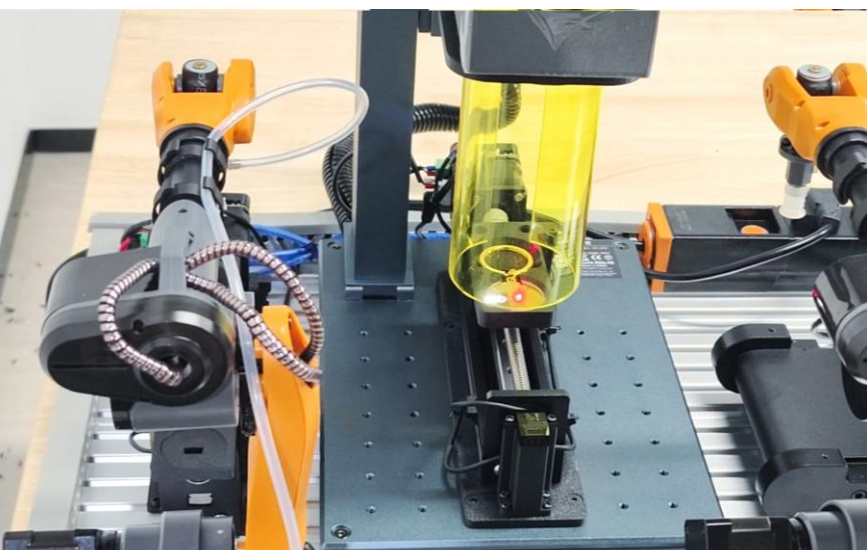
- Technology Integration:** Combining robotics, AI vision, sensors, and motor control, the line enables training in robot programming, machine vision, defect detection, and system integration—all within a easy-to-use setup.
- Flexibility and Applications:** The reconfigurable system supports production of bookmarks, nameplates, chess pieces, and seals. With a footprint of only 1700×600mm, it fits easily into labs and classrooms, making intelligent manufacturing practical and accessible.



Material Loading



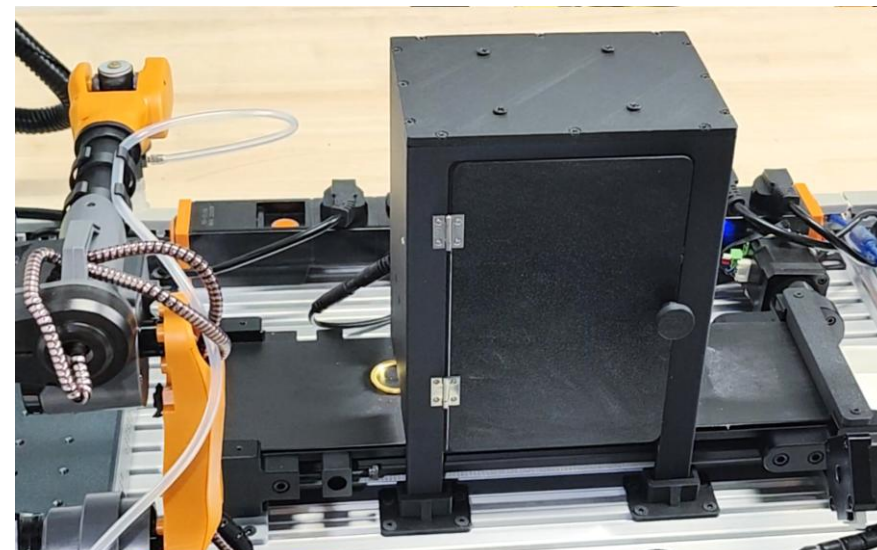
Robot Handling



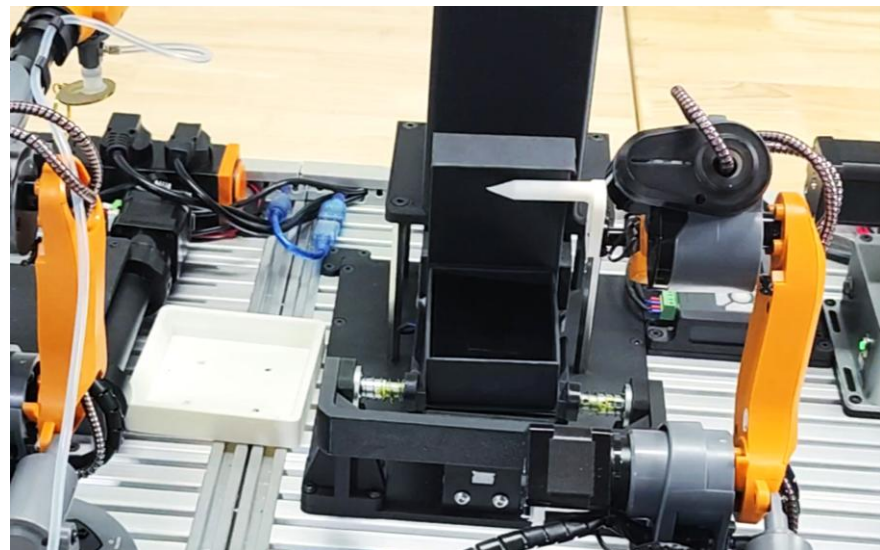
Laser Engraving



Robot Transfer



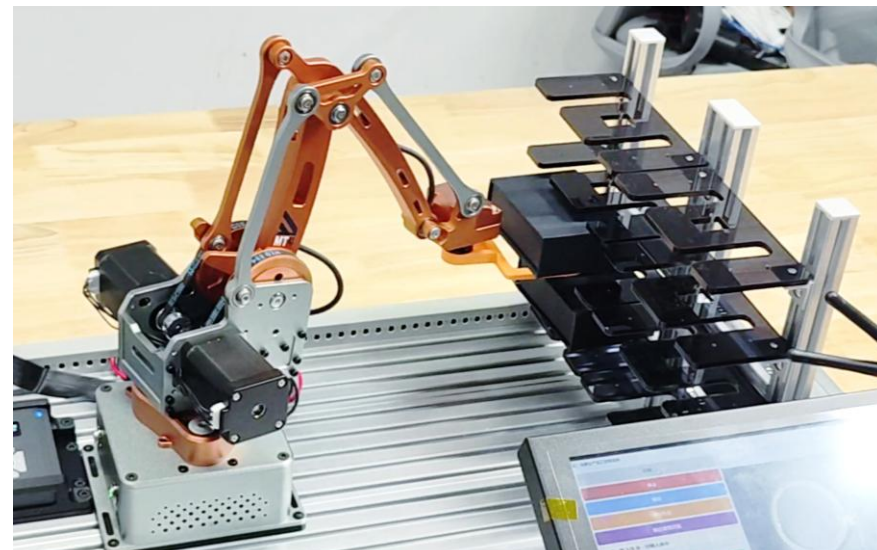
Visual Inspection



Package Loading



Souvenir Packaging



Goods Storage

Main Devices:	Micro Engraving Unit: 2 W laser, ±0.001 mm accuracy, 9500 mm/s speed, 70 X 70 mm area, supports metal, wood, leather, plastic. Automatic Discharge Unit: Stepper motor, 100 mm travel, 80 mm/s speed, ±0.03 mm precision, 12 kg horizontal / 5 kg vertical load. Camera System: 5 MP color, 2952 X 1944 resolution, auto exposure/white balance/gain.
Control & Display:	i5 CPU, 16 GB RAM, 10.1" touch screen, Studio software, supports graphical + Python programming and digital twin integration.
Robotic Arm:	WLKATA Mirobot X 4 ; WLKATA MT4 X 1



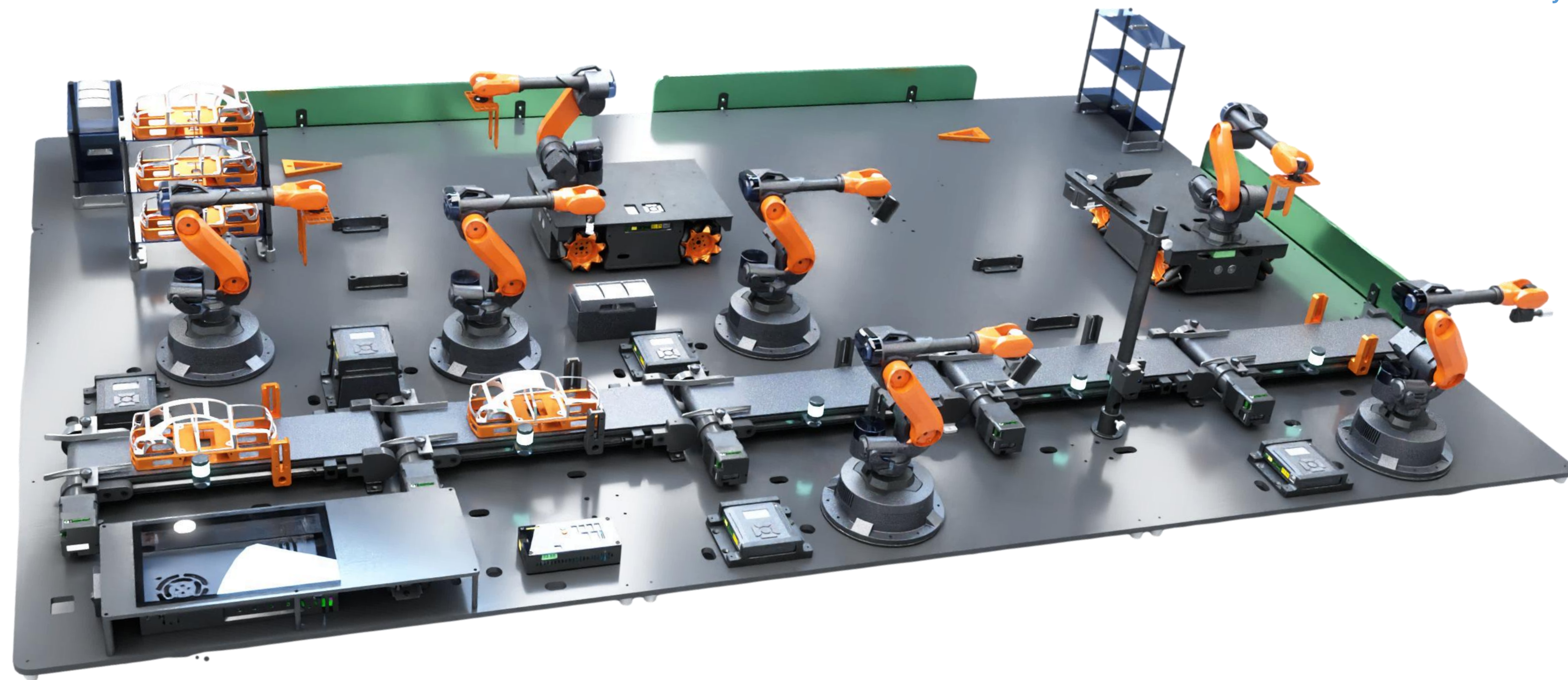
Turn Your Desk into a Smart Souvenir Factory!
— Craft Real Bookmarks, Keychains, Nameplates, Chess Pieces, and Seals!



NEW

Automotive Manufacturing Line (AGV Rover & Mirobot)

Industry:
Automobile
University Level



Functions

Model: WL-PL-EDU5-AS-Tec5



python

C++

Experience a real automotive factory—scaled to your desktop. This compact smart manufacturing line integrates six-axis robotic arms and AGVs to simulate key industrial processes including handling, assembly, welding, inspection, and polishing. Designed around flexible production concepts, it delivers a complete miniature car-making workflow in one coordinated system.

- **Integrated Robotics & Automation:** Unified control of robotic arms, AGVs, and vision systems enables synchronized, intelligent production.
- **Learning Through Real Applications:** By simulating real-world scenarios such as target positioning, logistics handling, path planning, and autonomous navigation, the system deepens students' understanding and application of AGVs, robotics, and intelligent manufacturing concepts—ideal for courses in robotics, AI, mechatronics, and smart manufacturing.



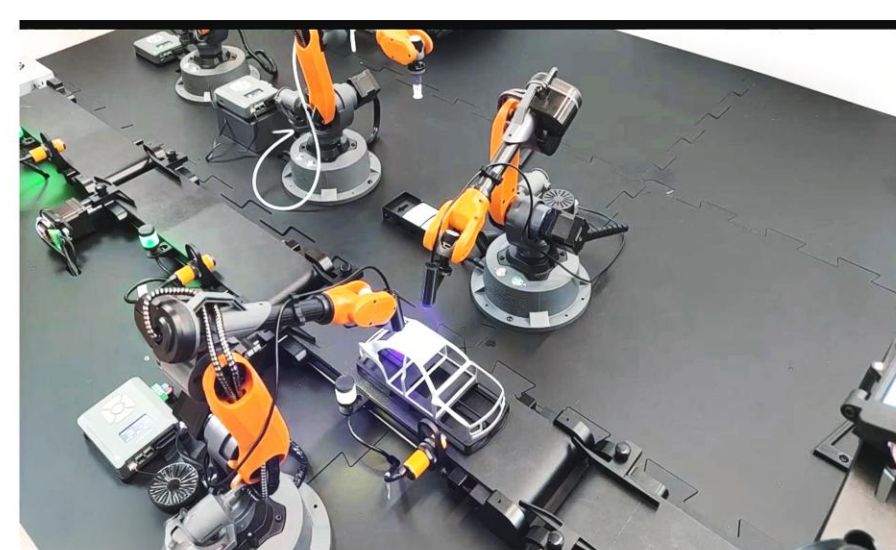
Robot Handling



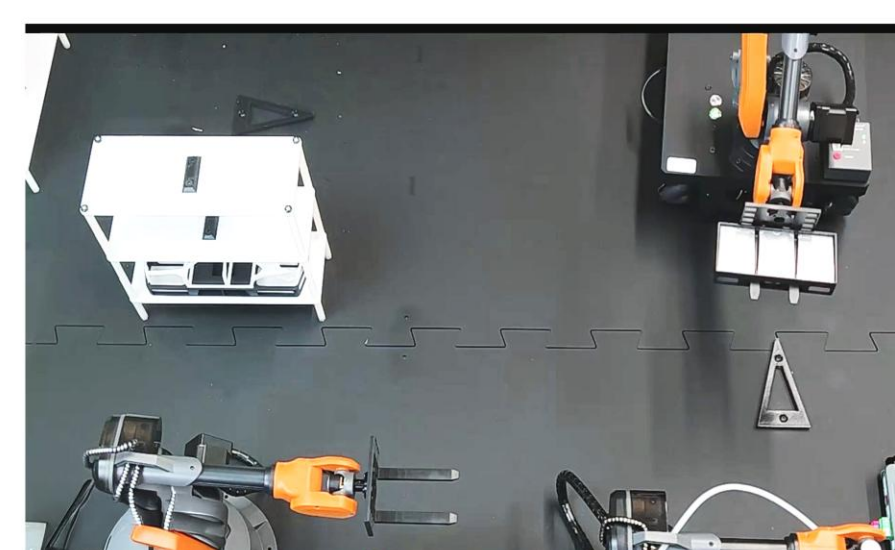
Isolated Conveyor Transfer



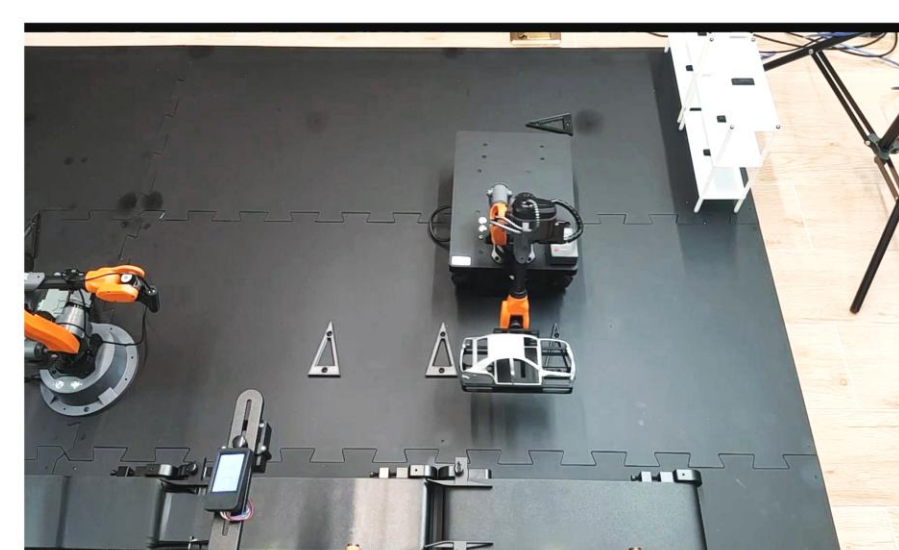
Robot Assembly



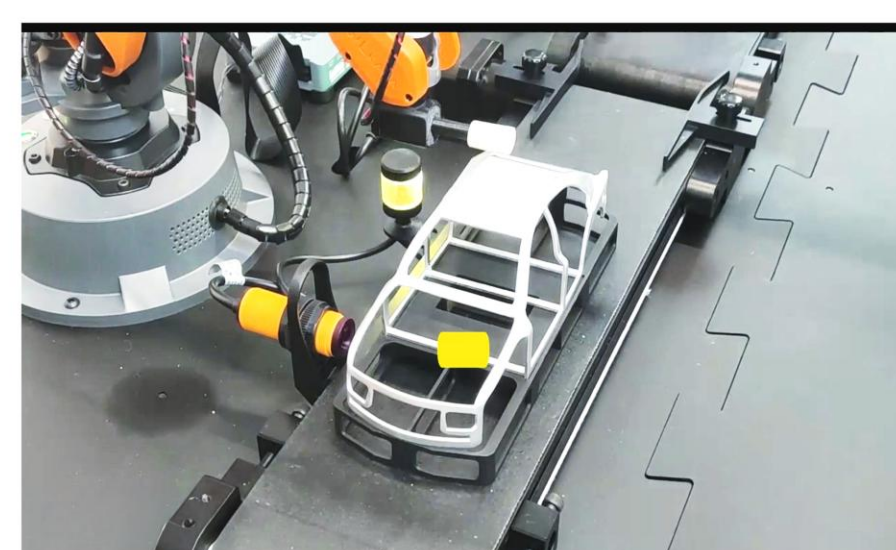
Robot Welding



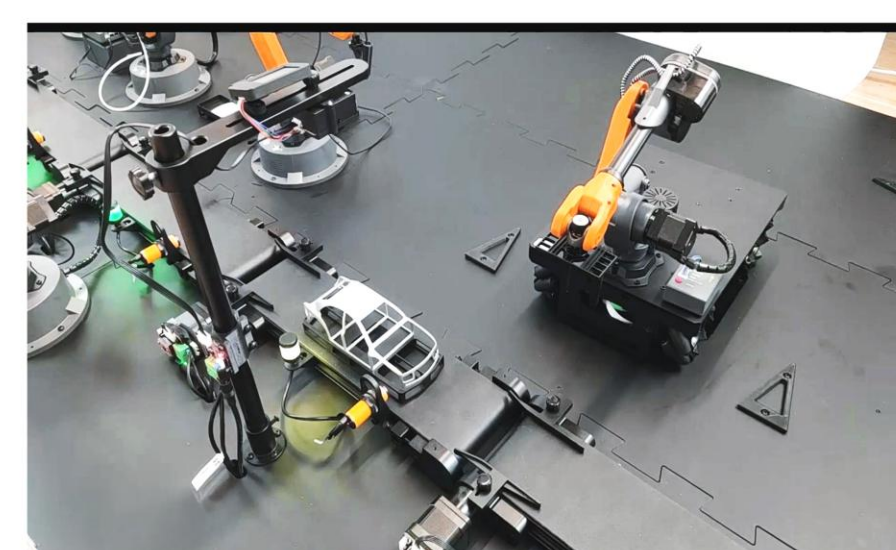
Mobile Robot Material Supply



Mobile Robot Storage Entry



Robot Polishing



Weld Spot Inspection

Overall Dimensions:	2400 × 1400 × 350mm
Control & Display:	i5 CPU, 16 GB RAM, 10.1" touch screen, Studio software, supports graphical + Python programming and digital twin integration.
Robots:	WLKATA Mirobot X 7 ; WLKATA AGV Rover X 2 ; Car models X 6 sets (minimum) ; Storage racks X 2 sets ; AI vision set X 1 ; Conveyor units X 5 ; HMI touch screen X 1 ; Accessory kit X 1

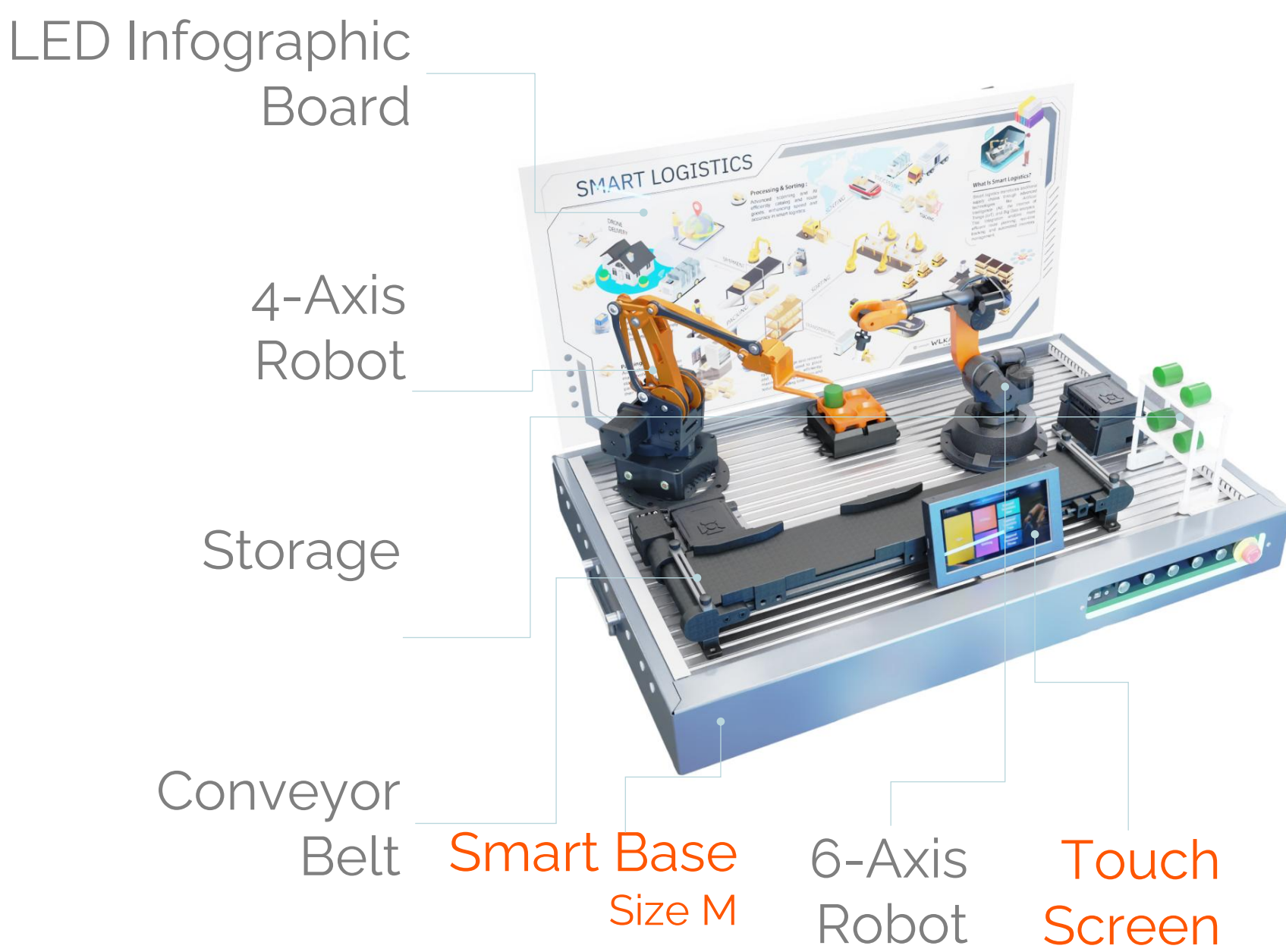
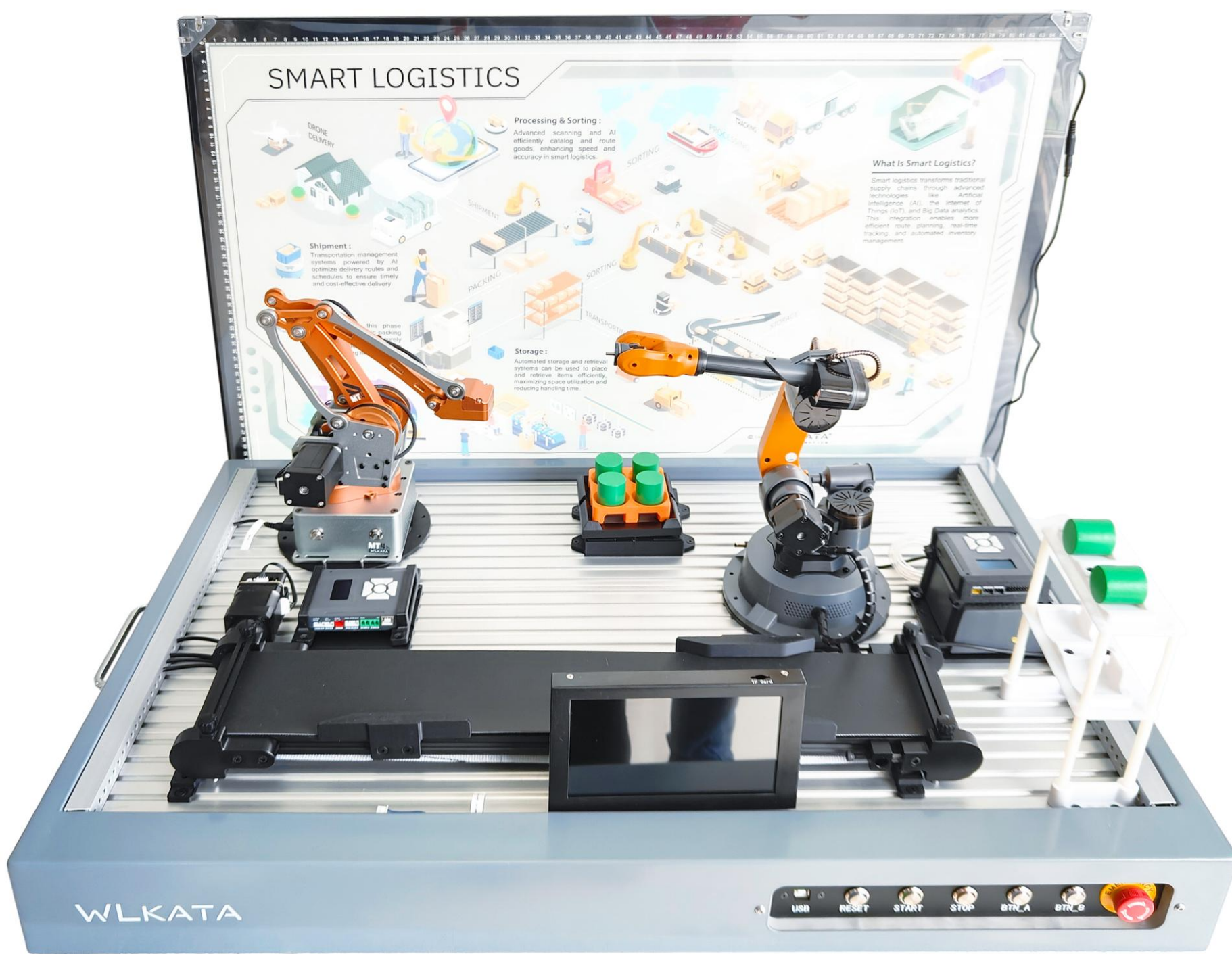


Experience Automotive Manufacturing in the Classroom!

NEW

Logistic Warehouse Cell (MT4 & Mirobot)

Industry:
Warehouse
K9-K12 | University Level

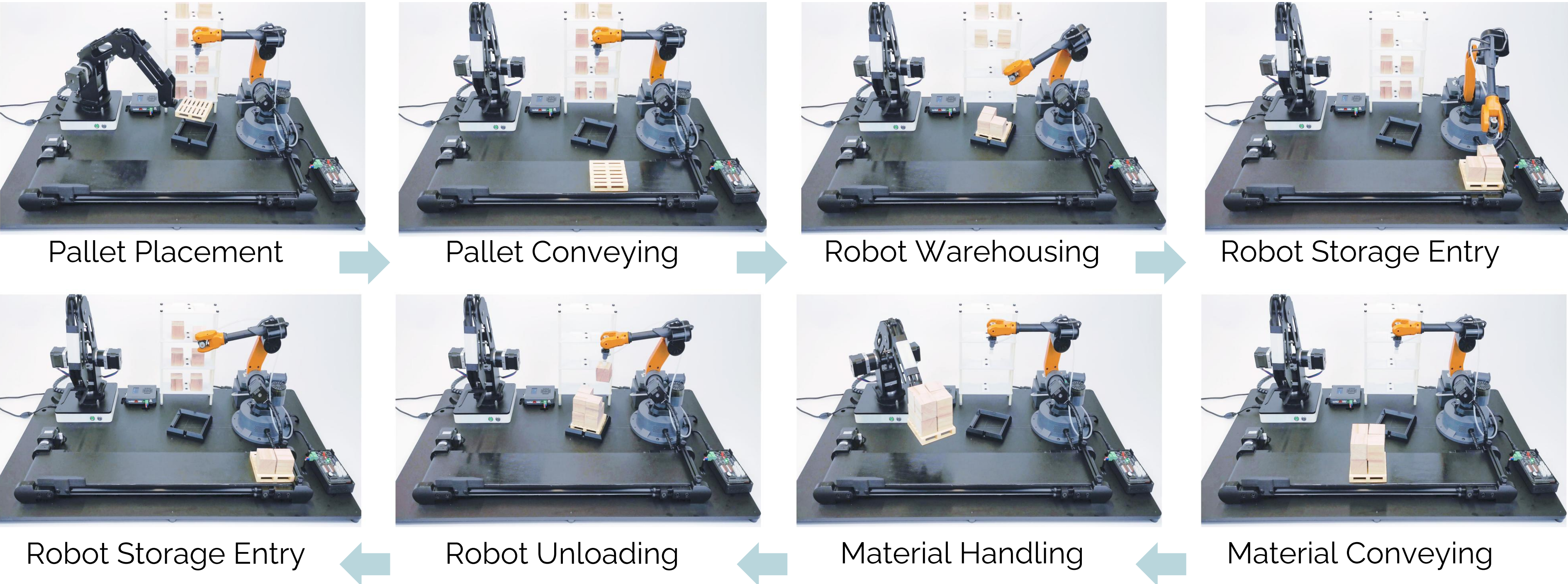


Functions

Model: WL-PL-PRO-LW-Miro1



- Comprehensive Smart Warehousing Simulation:** The Wlkata Logistic Warehouse Cell replicates real-world logistics operations such as loading, palletizing, and sorting. It provides a complete training platform for learning robotic handling, coordinate control, and multi-robot collaboration in intelligent warehousing scenarios.
- Versatile Educational and Research Platform:** Supports training and research in robotics, intelligent manufacturing, mechatronics, and smart logistics. The system enables hands-on learning and research in modern automation and intelligent storage technologies.
- Supplied with a **complete digital Resource Kit** featuring manuals, an experiment handbook for educators, code samples, and demonstration videos.



Smart Base – Size Medium:	• Dimensions: 880mm (width) X 500mm (depth) X 80mm (height) • Structure: Aluminum alloy panel, sheet metal frame, ergonomic design • Power: Built-in 220V to 12V power module • Front Panel Buttons: Emergency stop, restart, power switch, customizable function buttons
Six-Axis Robotic Arm:	WLKATA Mirobot X 1
Four-Axis Robotic Arm:	WLKATA MT4 X 1
Conveyor Belt:	WLKATA Conveyor Belt Set X 1



WLKATA Robotics Our Clients





Career-Ready
Education
In Robotics &
Physical AI