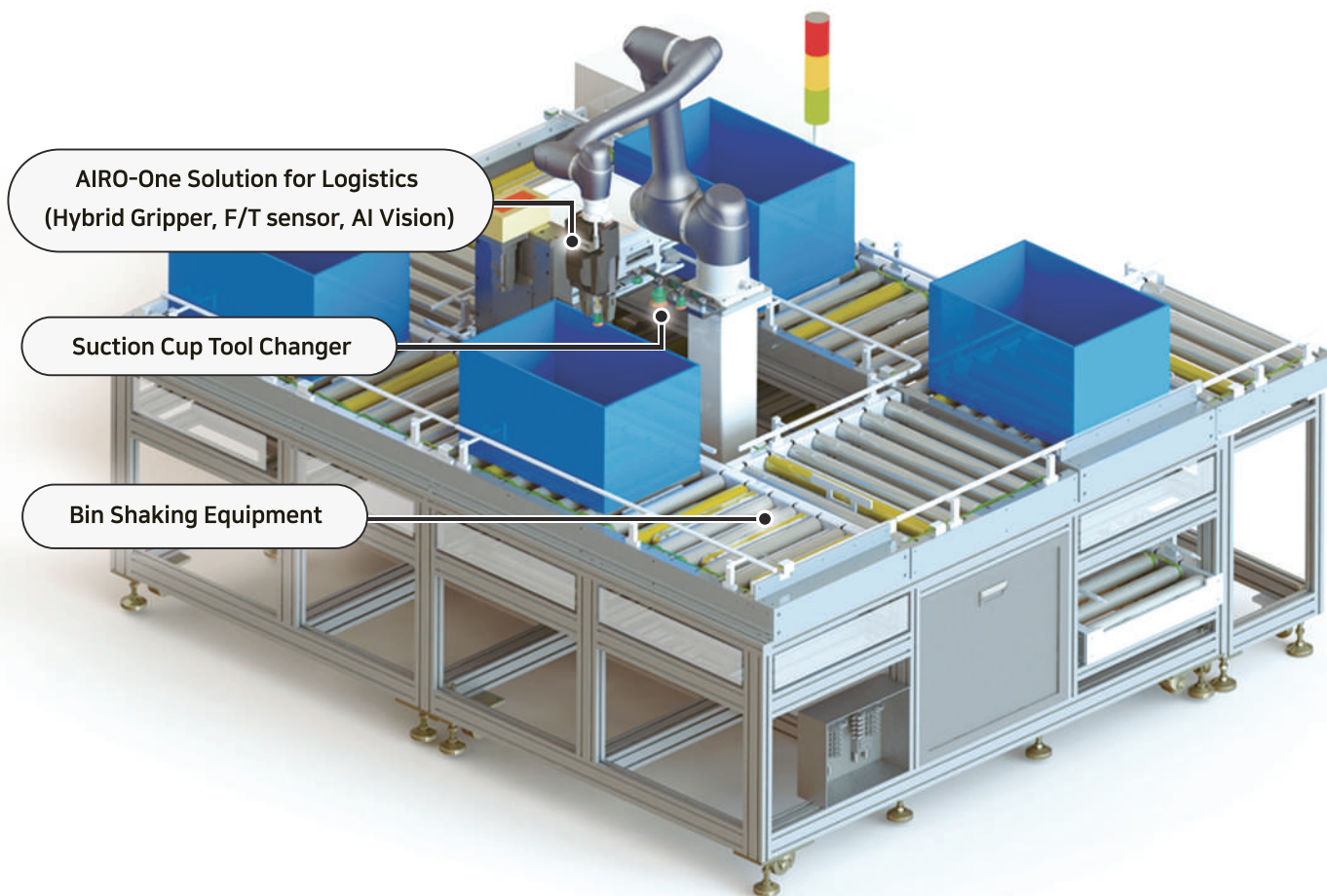




AIRO-One Solution for Logistics

"Pick Anything. No Setup Required."

Powered by AIDIN's proprietary smart gripper and AI vision technologies, an AI-driven logistics automation solution that enables fast, accurate handling of complex picking tasks—even in unstructured, random object environments



Productivity

1000

pieces per hour

Payload Capacity

3kg

Supported Object Size

20~300
mm

Customized Hybrid Gripper for Logistics

- ✓ Our in-house developed **hybrid gripper**—integrating suction, tool changers, and fingers—securely handles a wide range of **irregular and unstructured objects** in real logistics environments

AI Driven by On-Site Learning

- ✓ The system explores and learns the entire picking process, accurately **recognizing multiple objects** and operating seamlessly in **integration with the gripper**

Intelligent Grasping Powered by F/T Sensing

- ✓ By synchronizing a **6-axis F/T Sensor (AFT200)** with the gripper, the system automatically adapts to weight variations and ensures **stable, repeatable pick-and-place operations**

Customizable Automation Solution

- ✓ From equipment configuration to AI vision, the solution can be **flexibly tailored** and expanded to match each customer's environment and operational requirements

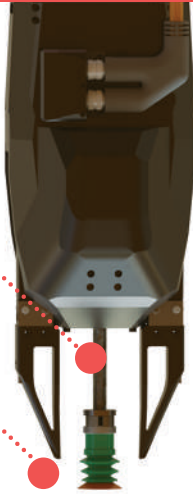
A Multimodal Gripper for Real-World Automation

Designed to solve the core challenge of logistics automation—reliable grasping—this multimodal gripper securely and quickly handles objects of various sizes, types, and shapes, even in dynamic environments

Key Features

Suction 300mm

Gripper Operating Range
200mm



✓ Flexible Architecture

An integrated design combining suction, grippers, and fingers automatically selects the optimal grasp based on object size, weight, and geometry

✓ Tool Changer Integration

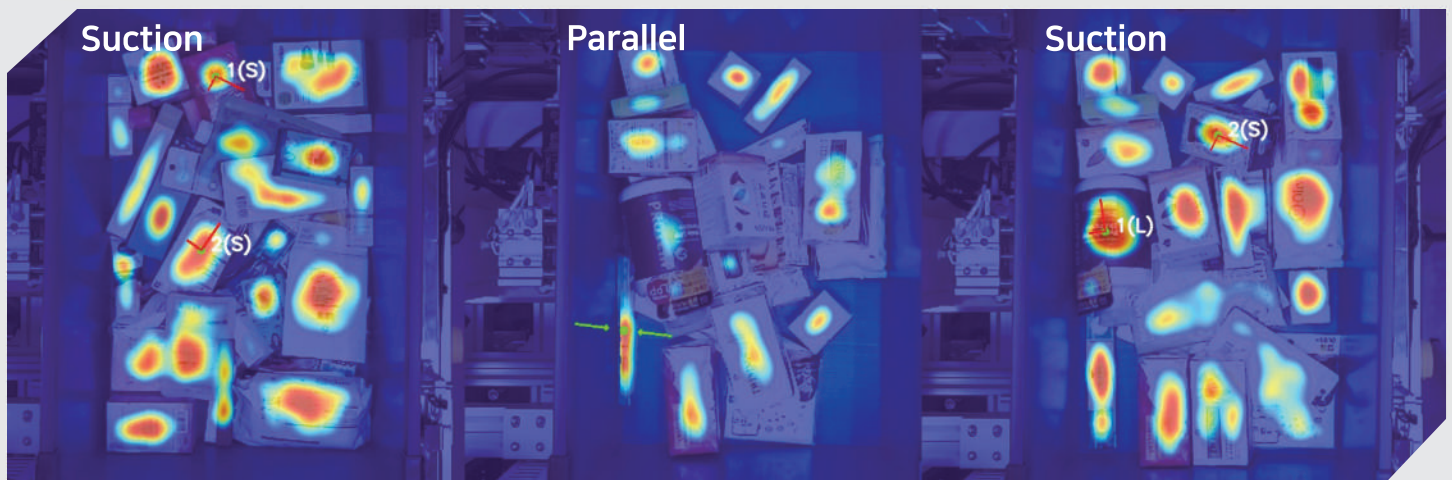
Suction modules can be quickly swapped via a tool changer to adapt to different object sizes and maintain optimal grasping performance

✓ Intelligent Grasping with Force/Torque Feedback

Working with a 6-axis F/T Sensor (AFT200), the system stably handles items over 500g using a combined suction-and-finger approach

AI Vision That Works Without Pre-Registration

A modular AI vision solution optimized for on-site environments, recognizing the entire logistics picking process—from grasp point extraction to error verification—without prior object registration, enabling stable and scalable real-world automation



Optimal Grasping Strategy

- ✓ AI vision recognizes object geometry and automatically determines the most effective grasping method for the gripper

Modular Customization

- ✓ Modular AI models—from grasp point extraction to object detection—adapt to any environment

Wide Handling Spectrum

- ✓ Detects and handles transparent objects, films, pens, and rings

Built-in Intelligent Verification

- ✓ The system autonomously detects task errors and performs re-verification to maintain stable and reliable operation

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