

OmniPicker 3

Industrial Gripper · Engineered for Embodied Intelligence

OmniPicker 3 brings industrial reliability and force-aware sensing into a single tool — engineered for the embodied AI training pipelines, contact-rich operations, and high-volume manipulation tasks that the next generation of automation requires.

Validated through long-horizon deployments across logistics, retail, and data-collection programs — at a price point built for production scale.



Features and Benefits

Industrial Performance, Reimagined for Embodied AI

140N gripping force validated through 1 million full-load cycles — industrial reliability built for the manipulation tasks that learning-based systems demand.

Adaptive, Force-Aware Grasping

Fingertip tactile sensing across the gripping surface with 0.1N force resolution, — handling standard parts, irregular shapes, and delicate objects through adaptive force control.

Open Data-Collection Ecosystem

Native compatibility with Dex-UMI and optional depth or fisheye camera integration. Built for high-quality manipulation data collection and the training pipelines embodied AI requires.

Specifications

Max Force

140N

Max Stroke

120mm

Communication Interface

CANFD/ RS485

Maximum Payload

5kg

Repetitive Positioning Accuracy

±0.1mm

Weight

600g

Compatibility :Mainstream robotic arms · UMI · Optional depth / fisheye camera · ROS 2 · SDK in Python and C++

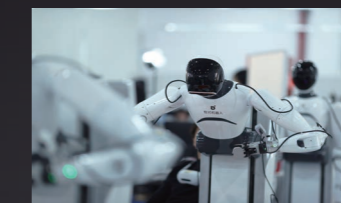
Application Scenarios

Industrial Sorting Logistics



Pick-and-place, parcel handling, and warehouse automation.

Embodied AI Data Collection



High-volume demonstration capture and force-rich manipulation data.

Production-Grade Deployment



Long-horizon retail, e-commerce, and operations programs running continuous workflows.