

AGIBOT OmniHand Series

OmniHand 2025 | OmniHand Pro 2025



AGIBOT Innovation (Shanghai) Technology Co., Ltd.
Create Unlimited Productivity via Intelligent Machines



YouTube

OmniHand Pro 2025

Highly integrated all-round dexterous hand with powerful sensing and exceptional capabilities. Representing a new class of high-DoF commercial dexterous hands, it combines a compact, lightweight form factor with impressive load capacity, precision, speed, and multi-modal tactile sensing to enable intelligent task execution.

Specifications

DoF 12 active + 7 passive	Weight 820g	Dimension 207*98*56 mm	Maximum fingertip force 20N (typical value)
Array sensors 3D Force sensing on all fingertips	Array resolution 0.1N	Communication CAN-FD	Compatibility Compatible with mainstream robots and robotic arms

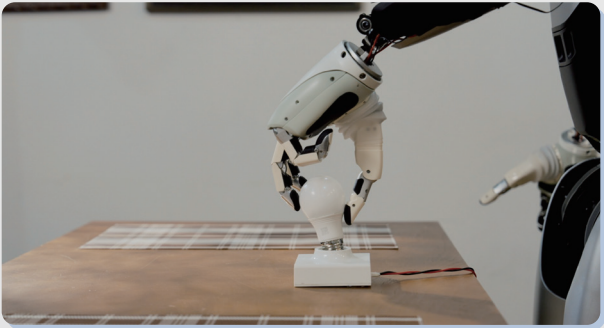


Highlights

-  **Anthropometric dimensions**
 - 19 DoF, only 820g — the smallest, lightest, and most anthropomorphic dexterous hand in its class
-  **Multi-tasking**
 - Optimized configuration for easy manipulation of tools, with a fingertip force of up to 20N
-  **Superior sensing**
 - Multi-modal sensing (position, normal force, tangential force, proximity) with 0.1N-level high sensitivity, powered by AI algorithms

Application Scenarios

... Industrial settings ...
High-intensity precision tasks
Grasping, sorting, and professional tool manipulation



... Research and education ...
Teaching tools and aids
Imitation/reinforcement learning

