AGIBOT OmniHand Series

OmniHand 2025 I OmniHand Pro 2025

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	Weight	Dimension	Maximum fingertip force
12 active + 7 passive	750g	207*98*56mm	20N (typical value)

Array sensors	Array resolution	Array resolution	Compatibility
Fingertip 3-axis force, palm 1-axis force, 150+ taxels	0.01N	CANFD	Compatible with mainstream robots and robotic arms

Highlights

⬈ **Anthropometric dimensions**

- 19 DOF, only 750 g—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
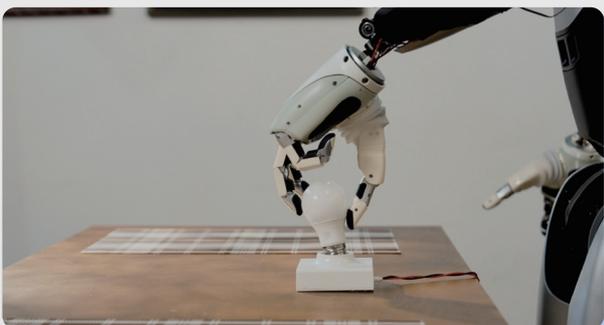
◉ **Superior sensing**

- Multi-modal sensing (position, normal force, tangential force, proximity) with 0.01N-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