AGIBOT OmniHand Pro 2025 – Technical Specification Sheet

Hardware	**Weight**	≤820 g
	Dimensions	207×98×56 mm
	Degrees of Active Freedom (DoA)	12
	Degrees of Freedom (DoF)	19
	Minimum opening/closing time (Typ)	0.7 s
	Fingertip repeat Positioning Accuracy (Typ)	0.4 mm
	Load Capacity	Five-finger grasp force: 10 kg
	Working Voltage	8.3–35.6 V
	Communication Interface	CAN-FD
	Working Temperature Range	-20 ~ 50 °C
	Online Upgrade	Supports OTA Updates
Tactile Sensor	**Force Detection**	3-dimensional Force at the Fingertips
	Array Resolution	0.1 N
	Range of Perception	0 ~ 50 N
	Maximum Acceptance (Undamaged)	1000 N

1. The above parameters may vary in practical applications depending on different business scenarios and model configurations. Please refer to the actual specifications.
2. The product appearance may be subject to upgrades and adjustments in the future. Please refer to the physical product delivered at the time of purchase.

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AGIBOT OmniHand Pro 2025 Quadruped Robot – Joint Angle Range

Finger	Joint	Left Min (°)	Left Max (°)	Right Min (°)	Right Max (°)
Thumb	thumb_roll_joint	0	42	-42	0
	thumb_abad_joint	-54	0	0	54
	thumb_mcp_joint	-49	0	-49	0
	thumb_pip_joint	-74	0	-74	0
	thumb_dip_joint	NA /Coupled joints, coupling relationship reference in the SDK.			
Index Finger	index_abad_joint	-15	15	-15	15
	index_mcp_joint	0	76	0	76
	index_pip_joint	0	85	0	85
	index_dip_joint	NA /Coupled joints, coupling relationship reference in the SDK.			
Middle Finger	middle_abad_joint	-15	15	-15	15
	middle_mcp_joint	0	76	0	76
	middle_pip_joint	0	98	0	98
	middle_dip_joint	NA /Coupled joints, coupling relationship reference in the SDK.			
Ring Finger	ring_mcp_joint	0	79	0	79
	ring_pip_joint	NA /Coupled joints, coupling relationship reference in the SDK.			
	ring_dip_joint	NA /Coupled joints, coupling relationship reference in the SDK.			
Fifth Finger	pinky_mcp_joint	0	79	0	79
	pinky_pip_joint	NA /Coupled joints, coupling relationship reference in the SDK.			
	pinky_dip_joint	NA /Coupled joints, coupling relationship reference in the SDK.			

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