

AG-100-100 2-Finger Dexterous Gripper

Compact & Powerful, Built for Embodied AI

The AG-100-100 2-finger dexterous gripper features a compact design ideal for embodied robot end-effectors, minimizing spatial footprint and motion interference. With a 100 mm stroke, 2–100 N force, and 0.3 s open/close speed, it handles varied object sizes efficiently. Available in standard and tactile-sensing versions with multi-protocol support.



Core Specifications

Parameter Category	Item	Specification
Mechanical Specs	Total Stroke	100 mm
	Single-sided Force	30~100 N (w/o tactile) ; 2~100 N (tactile)
	Max Recommended Payload	2 kg
	Weight	< 800 g
	Lifespan	10 Million Cycles
Electrical & Comm.	Operating Voltage	24~72 V DC
	Rated Current (24/48/72V)	2 / 1 / 0.75 A
	Peak Current (24/48/72V)	3.5 / 2.5 / 1.5 A
	Comm. Protocols	Modbus RTU (RS-485) 、CAN 、CAN FD 、EtherCAT
Motion & Precision	Open/Close Time	0.3 s
	Position Repeatability	±0.1 mm (3σ)
	Backlash	< 0.2 mm
Environment & Reliability	IP Rating	IP54
	Operating Temp./Humidity	0~40°C, ≤85% RH

Tactile & Force Control Specs

Parameter Category	Item	Specification
Tactile Force Control	Force Control Mode	Fz Direction Tactile Control
	Force Control Accuracy	±3 N
Force Sensing Performance	Min Resolution	1 N
Tactile Comm. Specs	Sampling/Update Rate	500 Hz
Sensing Capability	Tactile Sensing Points	16
Industrial Reliability	Overload Protection	300% F.S.