

AG-105-145

Electric Adaptive Gripper



Selection Method

Serie	Gripping Force	Stroke	Brake	Cable Direction	Communication Protocol	Cable Selection	Fingertip Selection	Flange Selection	Robot Cable
AG	105	145	W	S	M1	L5	J1	F1	00

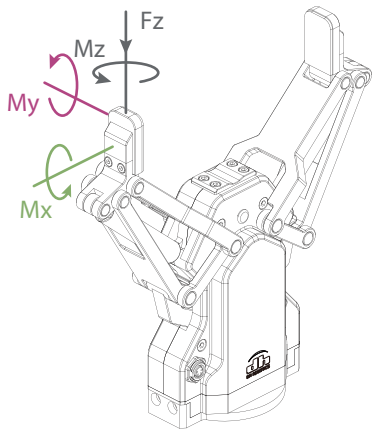
W Self-locking	S Side	M1 Modbus (RS485)+I/O (NN) M2 Modbus (RS485)+I/O (PP) M3 Modbus (RS485)+I/O (NP) M4 Modbus (RS485)+I/O (PN)	LX Without Extend Cable L1 1m Cable L3 3m Cable L5 5m Cable L10 10m Cable	J1 Standard Fingertip F1 Standard Flange Table Below
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★①: I/O(NN): NPN/NPN I/O(PP): PNP/PNP I/O(NP): NPN/PNP I/O(PN): PNP/NPN	00 Without Robot Cable	01 Elite CS UR CB	SIASUN Hanwha A DOBOT CR DOBOT Nova UR E	02 AUBO 03 ELEPHANT	04 JAKA 05 TECHMAN	06 ROKAE SR ROKAE ER 07 DOBOT MG400	09 Doosan A 10 Doosan M	11 Elite EC 12 Han's	13 Neuromeka 14 FAIRINO	15 Hanwha HCR 16 UF x Arm 17 ROKAE CR
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★①: It is recommended that no more than 4 units of DH-Robotics products be accessed on a single 485 bus, otherwise 485 communication anomalies may occur. If you need to access more than 4 devices, it is recommended to contact the sales staff for product adjustment.

The Modbus RTU (RS485) to USB module will no longer be provided for free. Please place a separate order if needed.

TECHNICAL SPECIFICATIONS



Static Vertical Allowable Load

Fz 300 N

Allowable Loading Moment

Mx 1.95 N·m

My 1.95 N·m

Mz 1.95 N·m

*② The recommended load calculation is based on pure friction force gripping, with a friction coefficient of 0.2 and a safety factor of 4. The center of gravity shift of the gripped object will also affect the load. If you have any questions, please consult us.

*③ Requires external communication convertor or customization, please contact sales or technical support.

*④ When selecting the power supply, please select according to the peak current. If the current is lower than the parameter, it will cause the product can not work normally.

Product Parameter

Gripping force (per jaw) 35~105 N

Recommended workpiece weight *③ 2 kg

Stroke 145 mm

Full stroke opening/closing time 0.9 s/0.9 s

Repeat accuracy (position) ± 0.03 mm

Weight 1.3 kg

Size 203.9 mm x 212.3 mm x 67 mm

Noise emission < 60 dB

Driving method Screw drive + Linkage system

Working Environment

Communication interface Standard: Modbus RTU (RS485), Digital I/O(2 inputs 2 outputs)
Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT *③

Rated voltage 24 V DC ± 10%

Current 0.8 A(Rated)/ 1.5 A(Peak) *④

Rated power 19.2 W

IP class IP 54

Recommended environment 0~40°C, under 85% RH

Certification CE, FCC, RoHS



Build-in Controller



Gripping Force Adjustable



Position Adjustable



Speed Adjustable



Drop Detection



Plug & Play



Self-locking Mechanism

Technical Drawings

