

RGIC-100-35

Electric Rotary Gripper



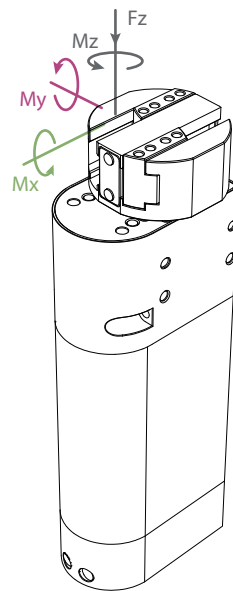
Selection Method

Serie	Gripping Force	Stroke	Brake	Cable Direction	Communication Protocol	Cable Selection	Fingertip Selection	Flange Selection
RGIC	100	35	O	S	M1	L5	J0	F0
			O Without Brake	S Side B bottom	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	J0 Without Fingertip J1 Standard Fingertip	F0 Without Flange

★①:
I/O(NN): NPN/NPN
I/O(PP): PNP/PNP
I/O(NP): NPN/PNP
I/O(PN): PNP/NPN

★⑤ 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 100 N

Allowable Loading Moment

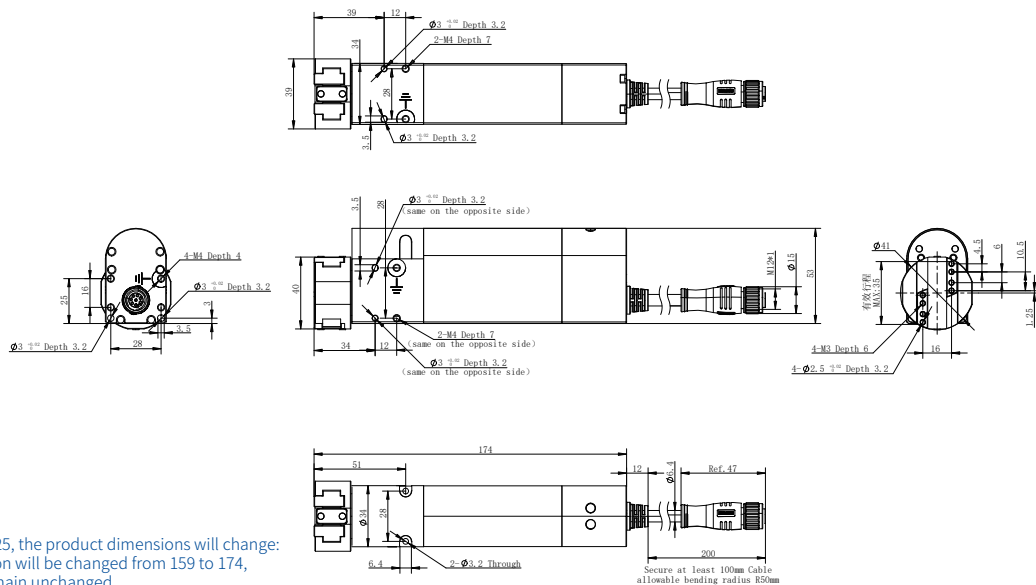
Mx 1.5 N·m

My 1.1 N·m

Mz 2.1 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.

Technical Drawings



★On January 10, 2025, the product dimensions will change: the height dimension will be changed from 159 to 174, and the rest will remain unchanged.

Product Parameter

Gripping force (per jaw)	40~100 N
Recommended workpiece weight(Fingertip included) ★①	1 kg
Stroke	35 mm
Full stroke opening/closing time	0.9 s/0.9 s
Repeat accuracy (position)	± 0.02 mm
Rated torque	0.35 N·m
Peak torque	1.5 N·m
Rotary range	Infinite Rotating
Max. rotation speed	1400 °/s
Weight	0.65 kg
Size	174 mm x 53 mm x 34 mm Rotaty Diameter: 41 mm

Working Environment

Communication interface	Standard: Modbus RTU (RS485) , Digital I/O(2 inputs 2 outputs) Optional: TCP/IP, CAN2.0A, PROFINET, EtherCAT ★②
Rated voltage	24 V DC ± 10%
Current	2 A(Rated)/ 5 A(Peak) ★③
Rated power	48 W
IP class	IP 40
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS

Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism
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