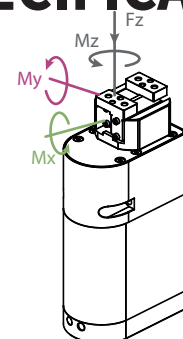


RGI-100

Electric Rotary Gripper

TECHNICAL SPECIFICATIONS



Static Vertical Allowable Load

RGI-100-14 RGI-100-22 RGI-100-30

Fz	150 N	200 N	150 N
----	-------	-------	-------

Allowable Loading Moment

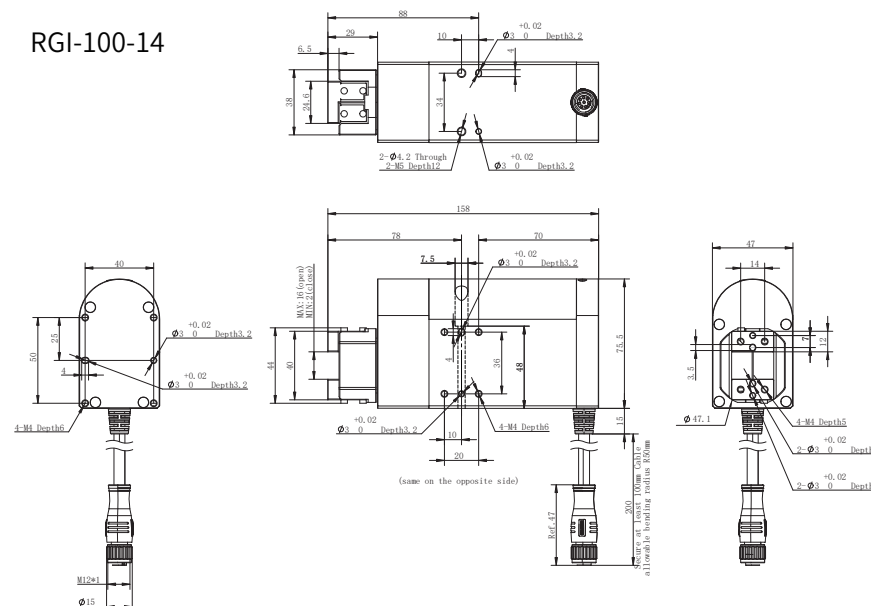
Mx	2.5 N·m	3.5 N·m	3.5 N·m
My	3 N·m	4 N·m	4 N·m
Mz	4 N·m	5.5 N·m	5.5 N·m

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

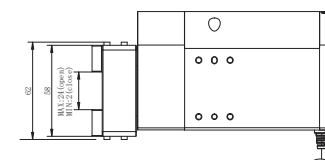
*② The recommended load calculation is based on pure friction force gripping, with a friction coefficient of 0.2 and a safety factor of 4. The center of gravity shift of the gripped object will also affect the load. If you have any questions, please consult us.
*③ Requires external communication convertor 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

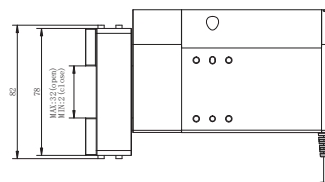
RGI-100-14



RGI-100-22



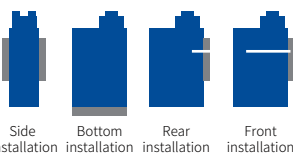
RGI-100-30



Product Parameter	RGI-100-14	RGI-100-22	RGI-100-30
Gripping force (per jaw)	30~100 N	30~100 N	30~100 N
Recommended workpiece weight(Fingertip included) *②	1.5 kg	1.5 kg	1.5 kg
Stroke	14 mm	22 mm	30 mm
Full stroke opening/closing time	0.45 s/0.25 s	0.5 s/0.3 s	0.55 s/0.35 s
Repeat accuracy (position)	± 0.02 mm	± 0.02 mm	± 0.02 mm
Repeat accuracy (swiveling)	± 0.05 °	± 0.05 °	± 0.05 °
Max. rotation speed	2160 °/s	2160 °/s	2160 °/s
Rated torque	0.5 N·m	0.5 N·m	0.5 N·m
Peak torque	1.5 N·m	1.5 N·m	1.5 N·m
Rotary range	Infinite Rotating	Infinite Rotating	Infinite Rotating
Weight	1.28 kg	1.4 kg	1.5 kg
Size	158 x 75.5 x 47 mm Rotaty Diameter: 47.1 mm	158 x 75.5 x 47 mm Rotaty Diameter: 67.1 mm	158 x 75.5 x 47 mm Rotaty Diameter: 84.8 mm

Working Environment

Communication interface	Standard: Modbus RTU (RS485) , Digital I/O(2 inputs 2 outputs) Optional: TCP/IP, CAN2.0A, PROFINET, EtherCAT *③
Rated voltage	24 V DC ± 10%
Current	1 A(Rated)/4 A (Peak) *④
Rated power	24 W
IP class	IP 40
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS



Selection Method

Serie	Gripping Force	Stroke	Brake	Cable Direction	Communication Protocol	Cable Selection	Fingertip Selection	Flange Selection
RGI	100	14 22 30	O S B	S	M1 M2 M3 M4	LX L1 L3 L5 L10	J0 J1	F0

*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 4units 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.