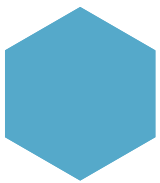


RGI Series Electric Rotary Gripper

RGI-35-14 RGI-100-14
RGI-35-30 RGI-100-30

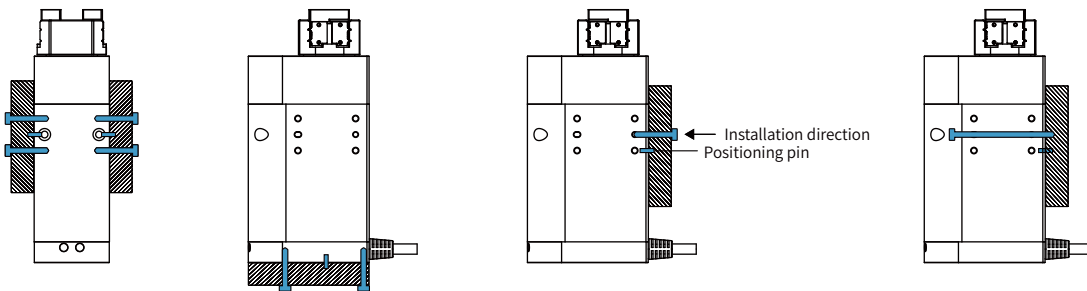


RGI series is the first fully self-developed infinite rotating gripper with a compact and precise structure on the market. It is widely applied in medical automation industry to grip and rotate the test tubes as well as other industries like electronics and New energy industry.



Installation

1. Side installation: use side screw holes for installation
2. Bottom installation: use bottom screw holes for installation
3. Front installation: Install with front screw holes



Product Features

● Gripping & Infinite Rotation

The unique structural design in the industry can realize the simultaneous gripping and infinite rotation on one electric gripper, and solve the winding problem in non-standard design and rotation.

● Compact | Double Servo System

Dual servo systems are creatively integrated in a thin machine body, which is compact in design and can be adapted to many industrial scenes.

● High Repeat Accuracy

The repeatability accuracy of rotation reaches ± 0.02 degree, and the repeatability accuracy of position reaches ± 0.02 mm. Through precise force control and position control, the RGI gripper can more stably complete the grasping and rotating tasks.

Application

Medical automation reagents, blood samples, nucleic acids and other sample processing scenarios such as opening and closing covers, scanning code detection, etc.; 3C electronics, packaging automation, new energy industry positioning assembly, deviation correction and other scenarios.



Parameters

Product Parameter	
Gripping force (per jaw)	10~35 N
Stroke	14 mm
Rated torque	0.25 N·m
Peak torque	0.4 N·m
Rotary range	Infinite Rotating
Recommended workpiece weight *	0.7 kg
Max. rotation speed	1500 deg/s
Repeat accuracy (swiveling)	± 0.02 deg
Repeat accuracy (position)	± 0.02 mm
Opening/Closing time	0.3 s/0.3 s
Weight	1.0 kg
Size	178 mm x 50 mm x 50 mm
Working Environment	
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage	24 V DC ± 10%
Rated current	1.1 A
Peak current	2 A
IP class	IP 40
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS
<input checked="" type="checkbox"/> Build-in Controller	<input checked="" type="checkbox"/> Gripping Force Adjustable
<input checked="" type="checkbox"/> Position Adjustable	<input checked="" type="checkbox"/> Speed Adjustable
<input checked="" type="checkbox"/> Drop Detection	<input type="checkbox"/> Self-locking Mechanism



Vertical Maximum Force

Fz: 150 N

Allowable Moment

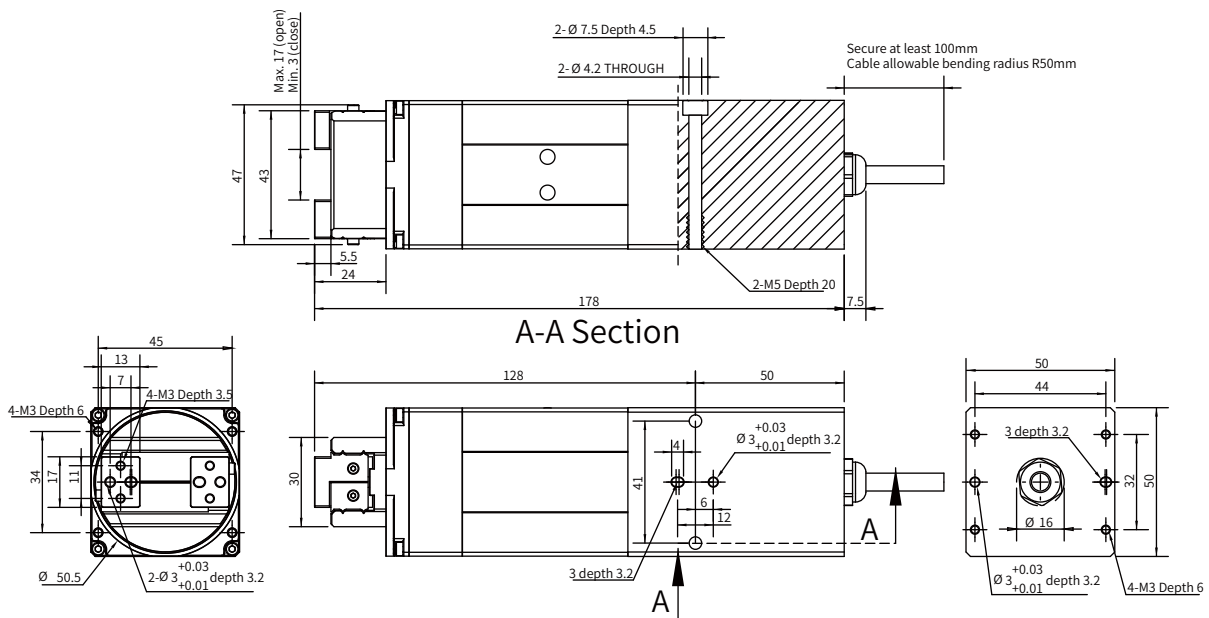
Mx: 2 N·m

My: 1.5 N·m

Mz: 2.5 N·m

*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, if you have any questions, please contact us.

Technical Drawings



Parameters

Product Parameter	
Gripping force (per jaw)	10~35 N
Stroke	30 mm
Rated torque	0.25 N·m
Peak torque	0.4 N·m
Rotary range	Infinite Rotating
Recommended workpiece weight *	0.7 kg
Max. rotation speed	1500 deg/s
Repeat accuracy (swiveling)	± 0.02 deg
Repeat accuracy (position)	± 0.02 mm
Opening/Closing time	0.3 s/0.3 s
Weight	1.2 kg
Size	178 mm x 50 mm x 50 mm
Working Environment	
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage	24 V DC ± 10%
Rated current	1.1 A
Peak current	2 A
IP class	IP 40
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS
<input checked="" type="checkbox"/> Build-in Controller	<input checked="" type="checkbox"/> Gripping Force Adjustable
<input checked="" type="checkbox"/> Position Adjustable	<input checked="" type="checkbox"/> Speed Adjustable
<input checked="" type="checkbox"/> Drop Detection	<input type="checkbox"/> Self-locking Mechanism



Vertical Maximum Force

Fz: 150 N

Allowable Moment

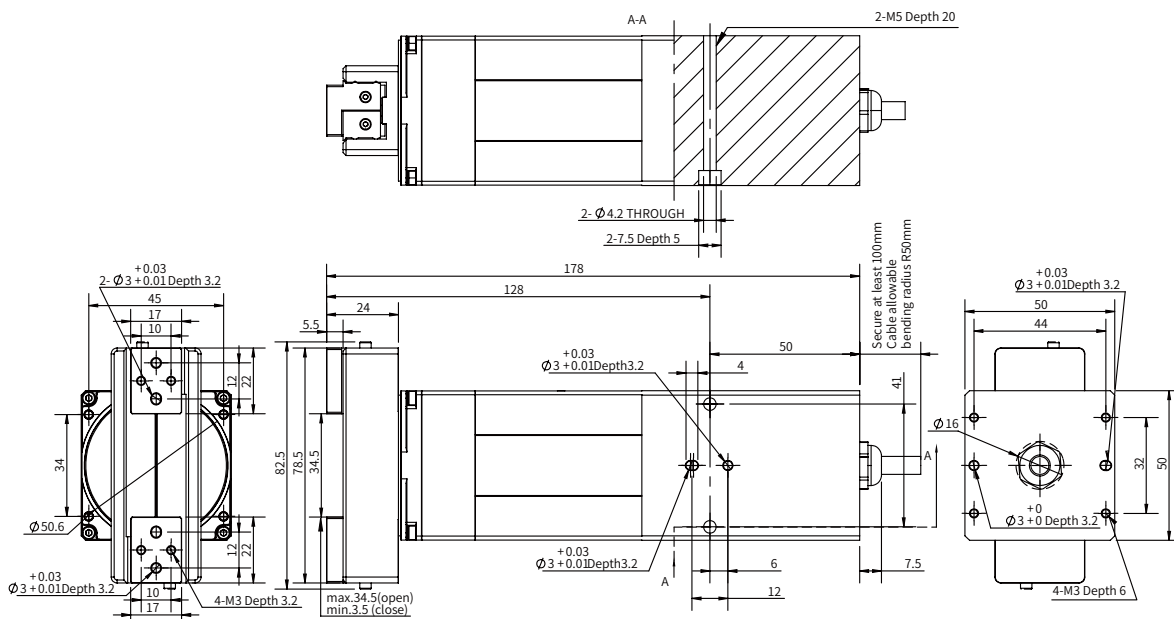
Mx: 2 N·m

My: 1.5 N·m







Mz: 2.5 N·m

*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, if you have any questions, please contact us.

Technical Drawings



Parameters

Product Parameter	
Gripping force (per jaw)	30~100 N
Stroke	14 mm
Rated torque	0.5 N·m
Peak torque	1.5 N·m
Rotary range	Infinite Rotating
Recommended workpiece weight *	1.5 kg
Max. rotation speed	1080 deg/s
Repeat accuracy (swiveling)	± 0.02 deg
Repeat accuracy (position)	± 0.02 mm
Opening/Closing time	0.8 s/0.8 s
Weight	1.28 kg
Size	158 mm x 75.5 mm x 47 mm
Working Environment	
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage	24 V DC ± 10%
Rated current	1 A
Peak current	3 A
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	 Self-locking Mechanism



Vertical Maximum Force

Fz: 150 N

Allowable Moment

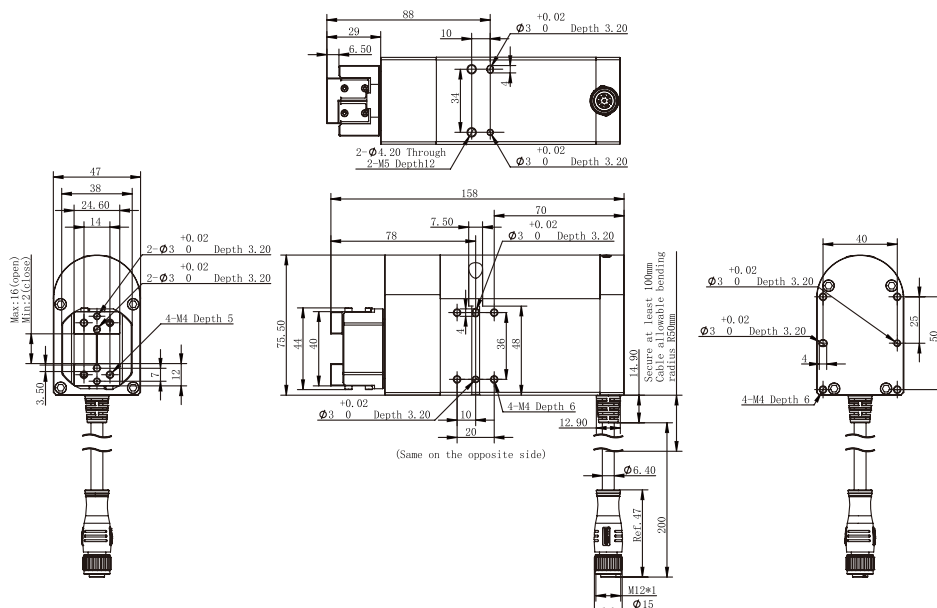
Mx: 2.5 N·m

My: 3 N·m







Mz: 4 N·m

*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, if you have any questions, please contact us.

Technical Drawings



Parameters

Product Parameter	
Gripping force (per jaw)	30~100 N
Stroke	30 mm
Rated torque	0.5 N·m
Peak torque	1.5 N·m
Rotary range	Infinite Rotating
Recommended workpiece weight *	1.5 kg
Max. rotation speed	1080 deg/s
Repeat accuracy (swiveling)	± 0.02 deg
Repeat accuracy (position)	± 0.02 mm
Opening/Closing time	0.8 s/0.8 s
Weight	1.5 kg
Size	158 mm x 75.5 mm x 47 mm
Working Environment	
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage	24 V DC ± 10%
Rated current	1 A
Peak current	3 A
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	 Self-locking Mechanism



Vertical Maximum Force

Fz: 150 N

Allowable Moment

Mx: 2.5 N·m

My: 3 N·m

Mz: 4 N·m

*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, if you have any questions, please contact us.

Technical Drawings

