

DH-ROBOTICS

DH-Robotics is a high-tech company which focus on providing core components for industrial intelligent manufacturing scenarios. Based on the self-developed precision force control direct drive technology, we provide customers in various industries around the world with diversified electric grippers and precision motion products to reduce production costs, improve production efficiency, and achieve intelligent manufacturing.

Our Support System



R&D System







R&D



Engineering Management



Sales Network



Projects Assessment



Training



Quality Supervision



After-sales Service



Manufacturing



Quality System



Stock Management



Supply Management



Manufacturing

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Applications in Cutting-edge Industries

More solutions and applications, please visit www.dh-robotics.com





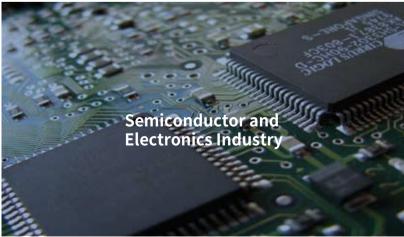














Application cases



PGE-8-14 Automatic Application

One collabotative robot with two electric grippers to complete the loading and unloading.



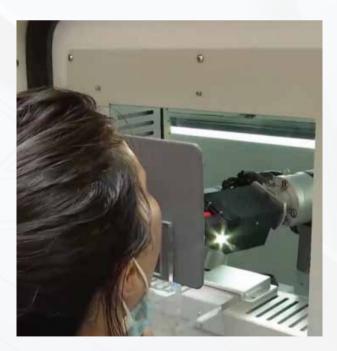
PGE-8-14 Electronics

Handling and positioning of very small workpieces.



RGI-35-14 Medical Automation

The automatic sub-cup processing system, through ABB's Scara robotic arm and DH-Robotics electric gripper, can automatically complete the operation of sample tube opening, scanning, information entry, pipetting, turning plate, and closing lid.



PGE-15-26 Medical Automation

Double-channel scan code to read the information, and unscrew the tube cover. Participate in automatic cup sharing process.

Application cases



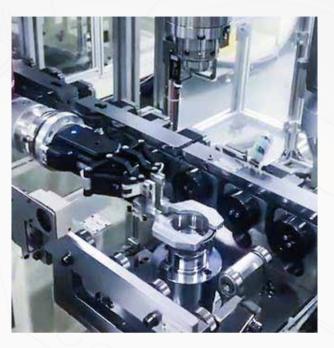
PGC-50-35 Automation

Two PGC-50-35 grippers were applied with UR robot to pick& place the work-pieces on production line.



PGC-140-50 Robot New Retail

The PGC-140-50 was applied with DOOSAN robot to complete a show in CHANEL stores located in 20 countries to celebrate the 100th anniversary of CHANEL No. 5 perfume.



AG-160-95 Automotive

AG-160-95 electric gripper was applied with a collaborative robot to complete the clamping and assembly of needle roller bearings.



AG-160-95 Machining

The AG-160-95 electric gripper was applied with AGV and COBOT to complete machine tool loading and unloading and machine tool equipment management.



Short wire correspondence table

Our gripper can directly connect to the end interface of each brand of collaborative robot through a short wire.

Wire No	Support electric gripper models	UR	Dobot	Aubo	Jaka	Elite	TM	Doosan	Elephant	SINSUN	ROKAE	Han's Robot	Neuro- meka
W0	Small current electric gripper (Peak current≤0.6A)	CB Series											
Wa	Small current electric gripper (Peak current<1.5A)	E Series	CRSeries							V			
Wb	High current electric claw (Peak current≤1.5A)	E Series											
Wc	Small current electric gripper (Peak current<1.5A)			V									
Wd	Small current electric gripper (Peak current<1.5A)								V				
We	In common (Support large and small current electric gripper)							ASeries					
Wf	In common (Support large and small current electric gripper)							MSeries					
Wg	Small current electric gripper (Peak current<1.5A)				V								
Wh	Small current electric gripper (Peak current<1.5A)						V						
Wi	Small current electric gripper (Peak current<1.5A)										V		
Wj	In common (Support large and small current electric gripper)					V							
Wk	In common (Support large and small current electric gripper)											V	
Wl	In common (Support large and small current electric gripper)												V

Quick Selection Reference

According to the following five conditions, you can quickly and initially select the matching gripper model; or you can also consult sales for detailed understanding and selection.

Condition 1 Application	Condition 2 Workpiece weight	Condition 3 Gripping stroke	Condition 4 Feature selection	Condition 5 Environmental requirements
<u>♦</u>				IP 67
☐ Collaborative robot	☐ Workpiece shape	☐ Workpiece size	Rotary	☐ IP class
O Load	☐ Workpiece material	Parallel / centric	☐ Self-locking	Temperature conditions
O Peak current	Friction	Outer clip, inner support	☐ Envelope grab	□
☐ Industrial robot	□	Fingertip design	□	
☐ Automation module		□		

Host Computer Debugging Software (PC Side)

User-friendly

The host computer debugging software was self-developed by DH-Robotics, it can help customers easily and quickly complete various function parameters adjustments, testing and initialization setting on the PC side. At the meaning time, various status information is provided in real time, which can save a lot of production line setup time and reduce the difficulty of operation and maintenance for on-site engineers.



Parameters Adjustable

- · gripping force
- ·fingertip position
- · gripping speed
- ·rotation angle*
- ·rotation speed*
- ·rotation force(torque force)*

Real-time feedback

- · four gripping states
- 1 movement status
- ②in place
- 3clamp state
- 4 dropped state
- ·location versus time graph
- · clamping current as a fuction of time



* Please consult sales person for specific applicable models



PGE Series

Slim-type Electric Parallel Gripper

Precision force control

Small Size

Fast Response



All-in-one Design



Adjustable Parameters



Intelligent Feedback



Replaceable Fingertip



Self-locking Mechanism







PGE-15-10

PGE-15-26

PGE-50-26

PGE-2-12
PGE-5-26
PGE-8-14
PGE-15-10
PGE-15-26
PGE-50-26

	Gripping Force (N)	Stroke (mm)	Speed (s)			IP Class	
	25 50 100 150 200 250 300		0.2	0.3	0.4	0.5	IP40
PGE-2-12		12	0	 	 		•
PGE-5-26		26	•	 	 		•
PGE-8-14	-	14	0 •	 	 		•
PGE-15-10		10	0 •	 			•
PGE-15-26		26			0•		•
PGE-50-26		26		0 •			•
PGE-100-26		26				0 •	•

PGE Series Electric Rotary Gripper

Infinite Rotation

Dual Servo System

Compact



Integrated Drive&Control



Adjustable Parameters



Intelligent Feedback



Replaceable Fingertip



RGI-35-12





RGI-35-14 RGI-35-30









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

RGI-35-12
RGI-35-14
RGI-35-30
RGI-100-14
RGI-100-22

RGI-100-30

Gripping Force (N)	Stroke (mm)		Speed (s)			IP Class	
25 50 100 150 200 250 300		0.3	0.4	0.6	0.65	0.7	IP40
	12		 	0	l I	 	•
	14	0	 	1	[•
	30		0	!	[[•
	14		 	0	 		•
	22			 	0		•
	30			1		0 •	•

RGD Series Slim-type Electric Parallel Gripper



Infinite Rotation Precise Positioning







Adjustable Parameters



Intelligent Feedback



Replaceable Fingertip



Self-locking Mechanism



RGD-5-14







RGD-5-30 RGD-35-14 RGD-35-30

RGD-5-14
RGD-5-30
RGD-35-14
RGD-35-30

Gripping Force (N)	Stroke (mm)	Spee	IP Class	
25 50 100 150 200 250 300		0.5	0.7	IP40
I	14	O •	 	•
I	30	© •	 	•
	14	© •	 	•
	30		0 •	•

PGI Series Electric Parallel Gripper





Long Stroke



Integrated Drive&Control



Adjustable Parameters



Intelligent Feedback



Replaceable Fingertip



Self-locking Mechanism



PGI-140-80

PGI-140-80

Gripping Force (N)	Stroke (mm)	Speed (s)	IP Class
25 50 100 150 200 250 300		0.7	IP54
	80	© •	•

PGS Series

Miniature Electro-magnetic Gripper

Small Size

High Frequency Easy Operation







Replaceable Fingertip



Self-locking Mechanism



PGS-5-5

DC	20	_	_

Gripping Force (N) 25 50 100 150 200 250 300	Stroke (mm)	Speed (s) 0.03	IP Class IP40
I .	5	○ ●	•

PGC Series

Electric Collaborative Parallel Gripper

Plug and Play

High Protection Grade

High Load



Integrated Drive&Control



Adjustable Parameters



Intelligent Feedback



Replaceable Fingertip



Self-locking Mechanism



PGC-50-35



PGC-140-50



PGC-300-60

PGC-50-35 PGC-140-50 **PGC-300-60**

	Gripping Force (N)	Stroke (mm)	Speed (s)		IP Class		
	25 50 100 150 200 250 300		0.6	0.7	0.8	IP54	IP67
		37		0 •		•	
0		50	0				•
)		60			0		•

AG Series

Electric Adaptive Gripper

Plug and Play

Envelope Adaptive Gripping

Long Stroke



Integrated Drive&Control



Adjustable Parameters



Intelligent Feedback



Replaceable Fingertip



Self-locking Mechanism



AG-160-95



AG-105-145

DH-3

AG-160-95 AG-105-145 DH-3

Gripping Force (N)	Stroke (mm)	Speed (s)	IP Class	
25 50 100 150 200 250 300		0.7	IP40	IP54
	95	○ •	İ	•
	145	© •		•
	106(parallel)/122(centric)	0 •	•	

CG Series Electric Centric Gripper

Centric Gripping

High Performance

Long Life



Integrated Drive&Control



Adjustable Parameters



Intelligent Feedback



Replaceable Fingertip



Mechanism



Self-locking



CGE-10-10



CGI-100-170



CGC-80-10

CGE-10-10 CGI-100-170 CGC-80-10

Gripp	ing Force (N)	Stroke (mm)	Speed (s)		IP Class		
25 50 100 1	50 200 250 300		0.2	0.3	0.5	IP40	IP67
		10 (Single jaw)		0	 		
		φ40~φ170 (Inward work-piece diameter)		1	0	•	
		10 (Single jaw)	0 •	!			•

PGE Series Slim-type Electric Parallel Gripper

PGE-2-12 PGE-15-26 PGE-5-26 PGE-50-26 PGE-8-14 PGE-100-26

PGE-15-10

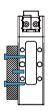


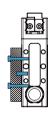
The PGE series is an industrial slim-type electric parallel gripper. With its precise force control, compact size and highly working speed, it has become a "Hot sell product" in the field of industrial electric gripper.

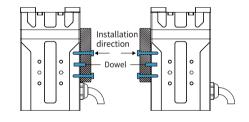
Installation

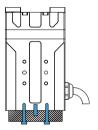


- 1. Front installation: use front screw holes for installation
- 2. Rear installation: use rear screw holes for installation
- 3. Right installation: use right screw holes for installation
- 4. Left installation: use left screw holes for installation
- 5. Bottom installation: use bottom screw holes for installation









Product Features

Small sizeFlexible Installation

The thinnest size is 18 mm with compact structure, supports at least five flexible installation methods to meet the needs of clamping tasks & saves design space.

High Working Speed

The fastest opening and closing time can reach 0.2 s / 0.2 s, which can meet the high-speed and stable clamping requirements of the production line.

Precise Force Control

With special driver design and driving algorithm compensation, the gripping force is continuously adjustable, and the force repeatability could reach 0.1 N.



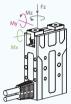


Application

For scenarios requiring force control or flexibility, such as assembly, sorting and loading and unloading in semiconductor, 3C electronics, medical automation and other industries.

PGE-2-12





Static Vertical Allowable Load

Fz 35 N

Allowable Loading Moment

Mx	0.2 N·m
Му	0.17 N·m
Mz	0.2 N·m

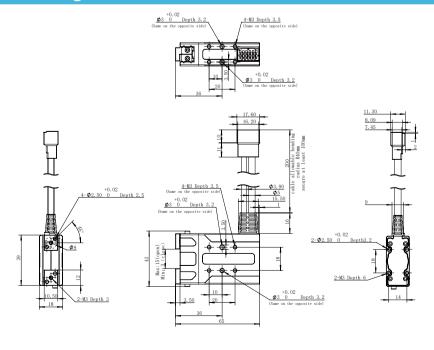
^{*}It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

Parameters

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Working Environ	ment
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage	24 V DC \pm 10%
Rated current	0.2 A
Peak current	0.5 A
IP class	IP 40
Recommended en	ovironment 0~40°C, under 85% RH
Certification	CE, FCC, RoHS

0	•	•	•	•	0
Build-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism



PGE-5-26



Static Vertical Allowable Load

Fz	50 N
· -	

Allowable Loading Moment

Mx	0.3 N⋅m
Му	0.25 N·m
Mz	0.3 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.

Parameters

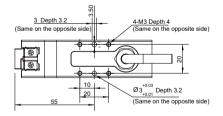
Product Paramete	er	
Gripping force (per	jaw)	0.8~5 N
Stroke		26 mm
Recommended wo	rkpiece weight *	0.1 kg
Opening/closing tir	ne	0.2 s/0.2 s
Repeat accuracy (p	osition)	\pm 0.02 mm
Noise emission		< 40 dB
Weight		0.4 kg
Driving method	Rack and pinion + 0	Cross roller guide
Size		x 26 mm(without brake) nm x 30 mm(with brake)

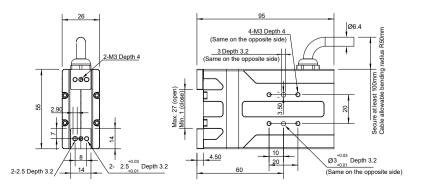
Working Environment		
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT	
Rated voltage	24 V DC \pm 10%	
Rated current	0.4 A	
Peak current	0.7 A	
IP class	IP 40	
Recommended er	nvironment 0~40°C, under 85% RH	
Certification	CE, FCC, RoHS	

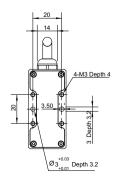
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Build-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism

Technical Drawings

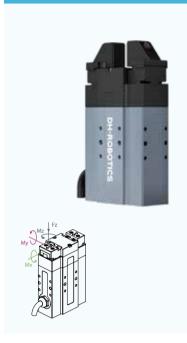
This drawing is for the gripper without the brake. If you need the drawing for the gripper with the brake, please download it from our official website or contact our sales.







PGE-8-14



Static Vertical Allowable Load

Fz 90 N

Allowable Loading Moment

Mx	0.55 N·m
Му	0.45 N·m
M 7	0.55 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.

Parameters

Product Paramet	er	
Gripping force (per	·jaw)	2~8 N
Stroke		14 mm
Recommended wo	rkpiece weight *	0.1 kg
Opening/closing time		0.2 s/0.2 s
Repeat accuracy (p	oosition)	\pm 0.02 mm
Noise emission		< 40 dB
Weight		0.4 kg
Driving method	Rack and pinion + C	ross roller guide
Size	97 mm x	62 mm x 31 mm

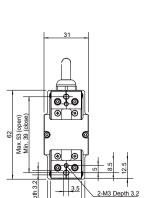
Working Environment	
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage	24 V DC \pm 10%
Rated current	0.4 A
Peak current	0.7 A
IP class	IP 40
Recommended en	vironment 0~40°C, under 85% RH
Certification	CE, FCC, RoHS

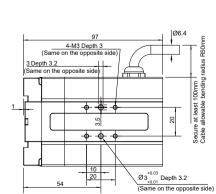
•	•	•	•	•	0
Build-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism

4-M3 Depth 3 (Same on the opposite side)

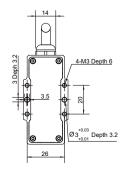
Ø3^{+0.03}_{+0.01} Depth 3.2 (Same on the opposite side)

Technical Drawings





3 Depth 3.2 (Same on the opposite side)



PGE-15-10



Static Vertical Allowable Load

Fz 35 N

Allowable Loading Moment

Mx	0.45 N·m
Му	0.4 N·m
Mz	0.45 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.

Parameters

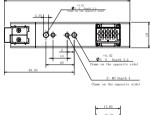
Product Parame	ter	
Gripping force (pe	er jaw)	6~15 N
Stroke		10 mm
Recommended w	orkpiece weight *	0.25 kg
Opening/closing	time	0.25 s/0.25 s
Repeat accuracy	(position)	\pm 0.02 mm
Noise emission		< 60 dB
Weight		0.155 kg
Driving method	Precise planetary gears	s + Rack and pinion
Size		x 18 mm(without brake) nm x 18 mm(with brake)

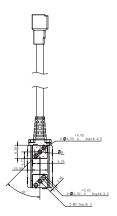
Working Environment		
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT	
Rated voltage	24 V DC \pm 10%	
Rated current	0.1 A	
Peak current	0.22 A	
IP class	IP 40	
Recommended e	nvironment 0~40°C, under 85% RH	
Certification	CE, FCC, RoHS	

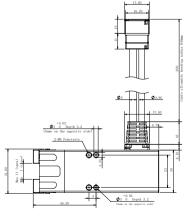
0	•	•	•	•	0
Build-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism

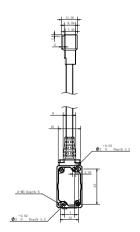
Technical Drawings

This drawing is for the gripper without the brake. If you need the drawing for the gripper with the brake, please download it from our official website or contact our sales.



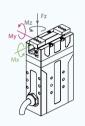






PGE-15-26





Static Vertical Allowable Load

Fz 70 N

Allowable Loading Moment

Mx	0.9 N·m
Му	0.75 N·m
Mz	0.9 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.

Parameters

Product Parame	ter	
Gripping force (pe	er jaw)	6~15 N
Stroke		26 mm
Recommended w	orkpiece weight *	0.25 kg
Opening/closing	time	0.4 s/0.4 s
Repeat accuracy	(position)	\pm 0.02 mm
Noise emission		<40 dB
Weight		0.33 kg
Driving method	Precise planetary gears	+ Rack and pinion
Size		c 26 mm(without brake) ım x 26 mm(with brake)

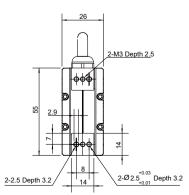
Working Environment			
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT		
Rated voltage	24 V DC \pm 10%		
Rated current	0.25 A		
Peak current	0.5 A		
IP class	IP 40		
Recommended er	nvironment 0~40°C, under 85% RH		
Certification	CE, FCC, RoHS		

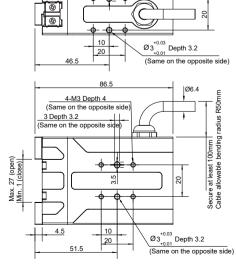
•	•	•	•	•	•0
Build-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism

4-M3 Depth 3.5 (Same on the opposite side)

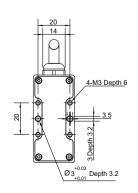
Technical Drawings

This drawing is for the gripper without the brake. If you need the drawing for the gripper with the brake, please download it from our official website or contact our sales.



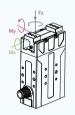


3 Depth 3.2 (Same on the opposite side)



PGE-50-26





Static Vertical Allowable Load

Fz 150 N

Allowable Loading Moment

Mx	2.5 N·m
Му	2 N·m
Mz	3 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.

Parameters

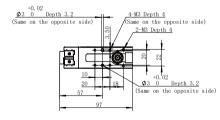
Product Parame	ter	
Gripping force (pe	er jaw)	15~50 N
Stroke		26 mm
Recommended w	orkpiece weight *	1 kg
Opening/closing	time	0.3 s/0.3 s
Repeat accuracy	(position)	\pm 0.02 mm
Noise emission		< 40 dB
Weight		0.4 kg
Driving method	Precise planetary gears	+ Rack and pinion
Size		x 29 mm(without brake) nm x 29 mm(with brake)

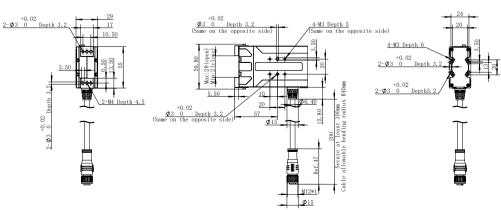
Working Environment		
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT	
Rated voltage	24 V DC \pm 10%	
Rated current	0.25 A	
Peak current	0.5 A	
IP class	IP 40	
Recommended e	nvironment 0~40°C, under 85% RH	
Certification	CE, FCC, RoHS	

•	•	•	•	•	•0
Build-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism

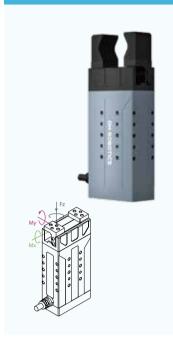
Technical Drawings

This drawing is for the gripper without the brake. If you need the drawing for the gripper with the brake, please download it from our official website or contact our sales.





PGE-100-26



Static Vertical Allowable Load

Fz 150 N

Allowable Loading Moment

Mx	2.5 N·m
Му	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.

Parameters

Product Parameter	
Gripping force (per jaw)	30~100 N
Stroke	26 mm
Recommended workpiece weight *	2 kg
Opening/closing time	0.5 s/0.5 s
Repeat accuracy (position)	\pm 0.02 mm
Noise emission	< 60 dB
Weight	0.53 kg
Driving method Precise planetary gears +	Rack and pinion
Size 125 mm x 5	57 mm x 30 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 \pm 10%	
Rated current	0.3 A	
Peak current	0.8 A	
IP class	IP 40	
Recommended e	nvironment 0~40°C, under 85% RH	
Certification	CE, FCC, RoHS	

•	•	•	•	•	•0
Build-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism

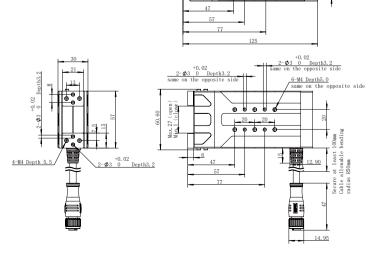
+0.02 2-**Ø**3 0 Depth3.2 same on the opposite side

6-M4 Depth5.0 same on the opposite side

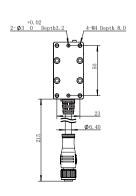
0

Technical Drawings

This drawing is for the gripper without the brake. If you need the drawing for the gripper with the brake, please download it from our official website or contact our sales.



0 0



RGI Series Electric Rotary Gripper

RGI-35-12 RGI-100-14

RGI-35-14 RGI-100-22

RGI-35-30 RGI-100-30

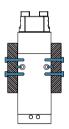


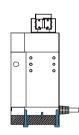
RGI series is the first fully self-developed infinite rotating gripper with a compact and precise structure on the market. It is widely applied in medical automation industry to grip and rotate the test tubes as well as other industries like electronics and New energy industry.

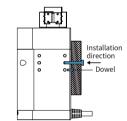


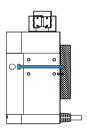
Installation

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









Product Feature

Gripping & Infinite Rotation

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

CompactDouble 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 Gripping Force and Torque

The maximum single-sided gripping force is 100N, and the maximum torque is 1.5N·m. Though 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, scaning code detection, etc.;

RGI-100 series comes standard with fingertips and can be adapted to $10 \, \text{mix} \, 1$ and $20 \, \text{mix} \, 1$ size tubes to meet the needs of large-scale nucleic acid sampling.

RGI-35-12



Static Vertical Allowable Load

Fz 100 N

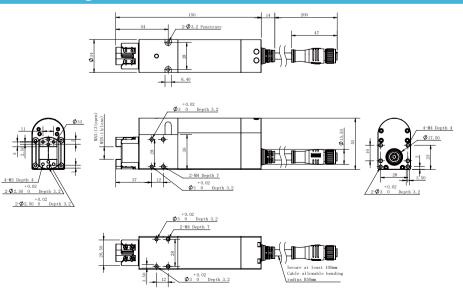
Allowable Loading Moment

Mx	1.5 N⋅m
Му	1.1 N·m
Mz	2.1 N·m

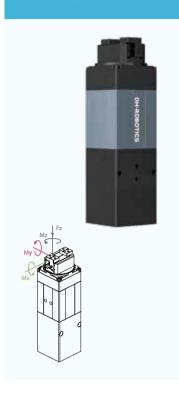
^{*}It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

Parameters

Product Parameter			
Gripping force (per jaw)	10~35 N		
Stroke	12 mm		
Rated torque	0.35 N⋅m		
Peak torque	0.5 N⋅m		
Rotary range	Infinite Rotating		
Recommended workpiece weight *	t * 0.5 kg		
Max. rotation speed	2160 °/s		
Repeat accuracy (swiveling)	± 0.02 °		
Repeat accuracy (position)	\pm 0.02 mm		
Opening/closing time	0.6 s/0.6 s		
Weight	0.62 kg		
Size 150 mm	0 mm x 53 mm x 34 mm		
Working Environment			
	Modbus RTU (RS485), Digital I/O , CAN2.0A, PROFINET, EtherCAT		
Rated voltage	$24\mathrm{V}\mathrm{DC}\pm10\%$		
Rated current	1.7 A		
Peak current	2.5 A		
IP class IP 40			
Recommended environment 0~40°C, under 85% RH			
Certification CE, FCC, RoHS			
Build-in Gripping Force Position Speed Droc Controller Adjustable Adjustable Adjustable Detection	, ,		



RGI-35-14



Static Vertical Allowable Load

Fz	150 N
	200.1

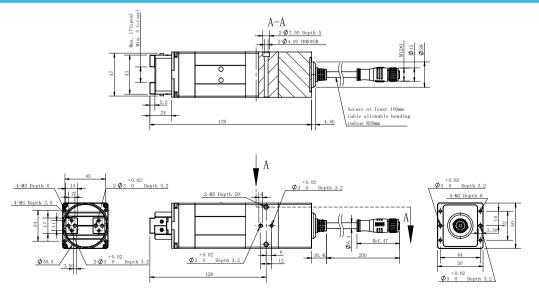
Allowable Loading Moment

Mx	2 N·m
Му	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.

Parameters

Product Parameter						
Gripp	oing force	(per jaw)			10	~35 N
Strok	ке				14	4 mm
Rate	d torque				0.25	N·m
Peak	torque			0.4 N·m		
Rota	ry range			ln	finite Rot	ating
Reco	mmende	d workpie	ece weigh	nt *	().7 kg
Мах.	rotation s	speed			15	00 °/s
Repe	at accura	cy (swive	ling)		土	0.02°
Repe	at accura	cy (positi	on)		± 0.02	2 mm
Oper	Opening/closing time			0.3 s/0.3 s		
Weig	Weight			1.0 kg		
Size	Size			8 mm x 50	0 mm x 50) mm
Working Environment						
	Communication interface				RTU (RS485), D DA, PROFINET, E	
Rate	Rated voltage			2	24 V DC ±	10%
Rate	Rated current 1.1 A				1.1 A	
Peak current						2.0 A
IP cla	IP class IP 40				IP 40	
Recommended environment 0~40°C, under 85% RH				% RH		
Certification				CE, FCC,	RoHS	
•	•	•	•	•	•	0
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism



RGI-35-30



Static Vertical Allowable Load

Fz	250 N
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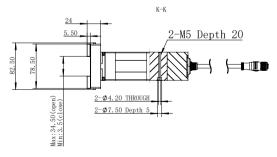
Allowable Loading Moment

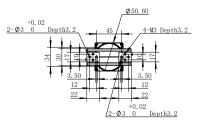
MX	3.5 N·m
Му	2.5 N·m
Mz	4.5 N⋅m

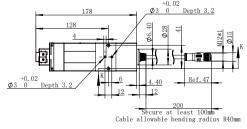
^{*}It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

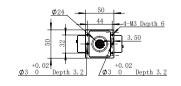
Parameters

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 wei	ght * 0.7 kg		
Max. rotation speed	1500 °/s		
Repeat accuracy (swiveling)	± 0.02°		
Repeat accuracy (position)	± 0.02 mm		
Opening/closing time	0.4 s/0.4 s		
Weight	1.2 kg		
Size	78 mm x 50 mm x 50 mm		
Working Environment			
Communication interface Optional: TCF	Standard: Modbus RTU (RS485), Digital I/O P/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT		
Rated voltage	24 V DC \pm 10%		
Rated current	1.1 A		
Peak current	2.0 A		
IP class	IP 40		
Recommended environment 0~40°C, under 85% RH			
Certification	CE, FCC, RoHS		
Build-in Gripping Force Position Speed Controller Adjustable Adjustable Adjustable	Drop Rotary Self-locking Mechanism		

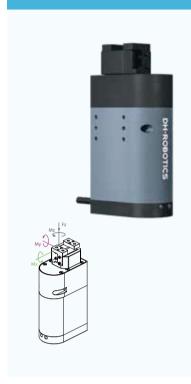








RGI-100-14



Static Vertical Allowable Load

Fz	150	Ν

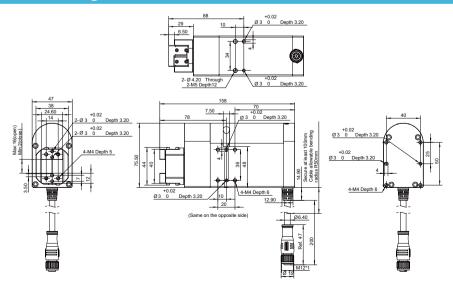
Allowable Loading Moment

Mx	2.5 N⋅m
Му	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.

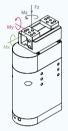
Parameters

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 wei	ght * 1.5 kg		
Max. rotation speed	2160 °/s		
Repeat accuracy (swiveling)	± 0.02°		
Repeat accuracy (position)	\pm 0.02 mm		
Opening/closing time	0.6 s/0.6 s		
Weight	1.28 kg		
Size 15	8 mm x 75.5 mm x 47 mm		
Working Environment			
	Standard: Modbus RTU (RS485), Digital I/O (IP, USB2.0, CAN2.0A, PROFINET, EtherCAT		
Rated voltage	24 V DC \pm 10%		
Rated current	1.0 A		
Peak current	4.0 A		
IP class IP 40			
Recommended environment	0~40°C, under 85% RH		
Certification	CE, FCC, RoHS		
Build-in Gripping Force Position Speed Controller Adjustable Adjustable Adjustable	Drop Rotary Self-locking Mechanism		



RGI-100-22





Static Vertical Allowable Load

Fz 200 N

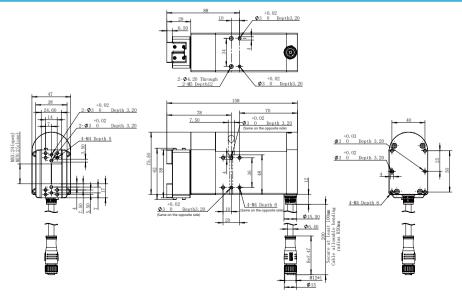
Allowable Loading Moment

Mx	3.5 N·m
Му	4 N·m
Mz	5.5 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.

Parameters

Product Paramet	er			
Gripping force (per jaw)			30~:	100 N
Stroke			22	2 mm
Rated torque			0.5	N·m
Peak torque			1.5	N·m
Rotary range		In	finite Rot	ating
Recommended wo	rkpiece weigl	nt *	1	L.5 kg
Max. rotation spee	d		21	60 °/s
Repeat accuracy (s	swiveling)		<u>±</u>	0.02°
Repeat accuracy (p	oosition)		± 0.02	2 mm
Opening/closing ti	me		0.65 s/0	0.65 s
Weight			1	L.4 kg
Size	158	mm x 75.	5 mm x 4 ⁻	7 mm
Working Environr	ment			
Communication interface	Sta Optional: TCP/IP	andard: Modbus , USB2.0, CAN2.		
Rated voltage		_	24 V DC ±	: 10%
Rated current				1.0 A
Peak current				4.0 A
IP class				IP 40
Recommended en	vironment	0~40°C,	under 85	% RH
Certification			CE, FCC,	RoHS
• • •	•	•	•	0
	ition Speed stable Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism



RGI-100-30



Static Vertical Allowable Load

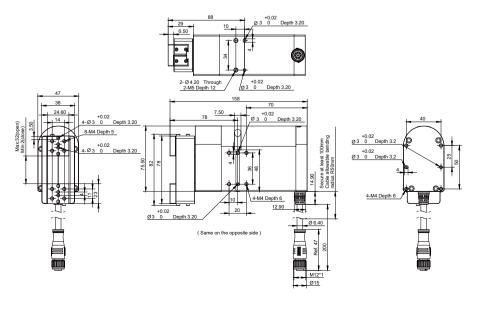
Allowable Loading Moment

Mx	4.5 N⋅m
Му	5 N⋅m
Mz	7 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.

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 wei	ght * 1.5 kg
Max. rotation speed	2160 °/s
Repeat accuracy (swiveling)	± 0.02°
Repeat accuracy (position)	\pm 0.02 mm
Opening/closing time	0.7 s/0.7 s
Weight	1.5 kg
Size 15	58 mm x 75.5 mm x 47 mm
Working Environment	
Communication interface Optional: TCP	Standard: Modbus RTU (RS485), Digital I/O VIP, USB2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage	24 V DC \pm 10%
Rated current	1.0 A
Peak current	4.0 A
IP class	IP 40
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS
Build-in Gripping Force Position Speed Controller Adjustable Adjustable Adjustable	Drop Rotary Self-locking Adjustable Mechanism



RGD Series Direct Drive Rotary Gripper

RGD-5-14 RGD-35-14 RGD-5-30 RGD-35-30



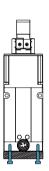
The RGD direct-drive electric rotary gripper of DH-Robotics adopts a direct-drive backlash-free rotation module to improve the rotary accuracy, and thus is perfectly suited for high-precision manufacturing applications.



Installation

- 1. Front installation: use front screw holes for installation
- 2. Bottom installation: use bottom screw holes for installation





Product Features

Zero Rotary Backlash High Repeatability

The RGD series adopts direct-drive rotary motors to realize zero rotary backlash and a rotary resolution of up to 0.01°, which applies to rotary positioning scenarios in semiconductor production.

High Dynamic Response High-speed Stability

The precision direct-drive technology, coupled with DH-Robotics' excellent drive control, realizes perfect control of gripping and rotation. The rotation speed is up to 1500° per second.

All-in-one Design Power-off Protection

The gripper adopts the design of integrating the dual servo system of gripping and rotation with the drive control module, which is smaller and more compact, and applies to more scenarios. Brakes are optional to meet the requirements of various applications.



Application

With the direct-drive technology, the RGD gripper can provide greatly improved rotary accuracy, which can be used in scenarios such as the high-precision positioning assembly, transport, and deflection correction of 3C electronics and semiconductors.

RGD-5-14



Static Vertical Allowable Load

Fz 150 N

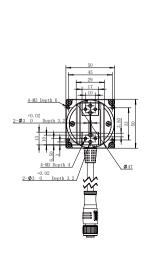
Allowable Loading Moment

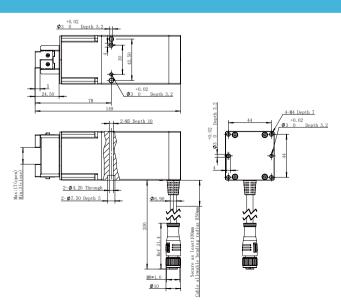
Mx	2 N·m
Му	1.5 N·m
Mz	2.5 N·m

^{*}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.

Parameters

 Product Parameter		
Gripping force (per jaw)		2-5.5 N
 Stroke		14 mm
 Rated torque		0.25 N⋅m
Peak torque		0.5 N·m
Rotary range		nfinite Rotating
 Recommended workpiece we	eight *	0.05 kg
Max. rotation speed		1500 °/s
Rotary backlash		Zero backlash
 Repeat accuracy (swiveling)		± 0.1°
Repeat accuracy (position)		\pm 0.02 mm
Opening/closing time		0.5 s/0.5 s
Weight 0.86 kg	without brake)	0.88 kg(with brake)
Size 149 mm x 50 mm x 50	0 mm(without b	rake/with brake, same size)
Working Environment		
 Communication interface	Mod	bus RTU (RS485)
 Rated voltage		24 V DC \pm 10%
Rated current		1.2 A
Peak current		2.5 A
IP class		IP 40
Recommended environment	0~40°C	C, under 85% RH
Certification		CE, FCC, RoHS
 uild-in Gripping Force Position Speed ntroller Adjustable Adjustable Adjustable Adjustable		Rotary Self-locking Adjustable Mechanism





RGD-5-30



Static Vertical Allowable Load

Fz 150 N

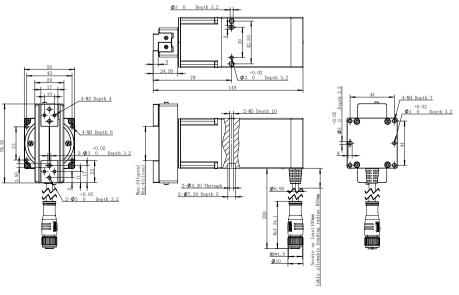
Allowable Loading Moment

Mx	2 N·m
Му	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.

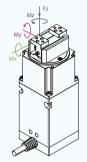
Parameters

Product Parameter	
Gripping force (per jaw)	2-5.5 N
Stroke	30 mm
Rated torque	0.25 N⋅m
Peak torque	0.5 N⋅m
Rotary range	Infinite Rotating
Recommended workpiece w	veight * 0.05 kg
Max. rotation speed	1500°/s
Rotary backlash	Zero backlash
Repeat accuracy (swiveling)	± 0.1 °
Repeat accuracy (position)	± 0.02 mm
Opening/closing time	0.5 s/0.5 s
Weight 1 kg(without brake) 1.02 kg(with brake)
Size 149 mm x 50(82.5) mm x 5	0 mm(without brake/with brake, same size)
Working Environment	
Communication interface	Modbus RTU (RS485)
Rated voltage	24 V DC \pm 10%
Rated current	1.2 A
Peak current	2.5 A
IP class	IP 40
Recommended environmen	t 0~40°C, under 85% RH
Certification	CE, FCC, RoHS
Build-in Gripping Force Position Spe Controller Adjustable Adjustable Adjust	



RGD-35-14





Static Vertical Allowable Load

Fz 150 N

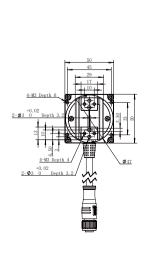
Allowable Loading Moment

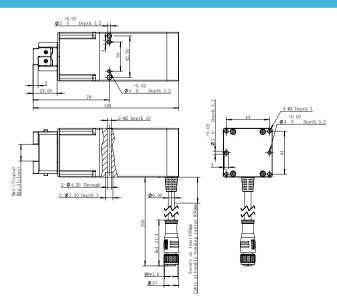
Mx	2 N·m
Му	1.5 N⋅m
Mz	2.5 N⋅m

^{*}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.

Parameters

Product Parameter	
Gripping force (per jaw)	10-35 N
Stroke	14 mm
Rated torque	0.25 N·m
Peak torque	0.5 N·m
Rotary range	Infinite Rotating
Recommended workpiece w	veight * 0.35 kg
Max. rotation speed	1500°/s
Rotary backlash	Zero backlash
Repeat accuracy (swiveling)	± 0.1°
Repeat accuracy (position)	± 0.02 mm
Opening/closing time	0.5 s/0.5 s
Weight 0.86 kg	g(without brake) 0.88 kg(with brake)
Size 149 mm x 50 mm x 5	50 mm(without brake/with brake, same size)
Working Environment	
Communication interface	Modbus RTU (RS485)
Rated voltage	$24\mathrm{V}\mathrm{DC}\pm10\%$
Rated current	1.2 A
Peak current	2.5 A
IP class	IP 40
Recommended environmen	t 0~40°C, under 85% RH
Certification	CE, FCC, RoHS
Build-in Gripping Force Position Spe Controller Adjustable Adjustable Adjus	,





RGD-35-30



Static Vertical Allowable Load

Fz 150 N

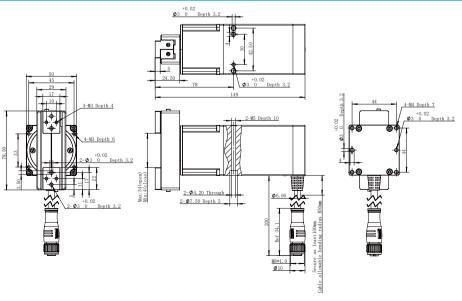
Allowable Loading Moment

Mx	2 N·m
Му	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.

Parameters

Prod	uct Para	meter					
Gripp	Gripping force (per jaw)				10-35 N		
Strok	Stroke				30 mm		
Rate	d torque				0.25 N·m		
Peak	Peak torque				0.5 N⋅m		
Rota	ry range			l	Infinite Rotating		
Recommended workpiece weight * 0.35 kg				35 kg			
Мах.	Max. rotation speed				1500 °/s		
Rota	Rotary backlash				Zero backlash		
Repe	Repeat accuracy (swiveling)				± 0.1°		
Repeat accuracy (position) \pm 0.02 mm				2 mm			
Opening/closing time 0.7 s/0.7 s				/0.7 s			
Weig	Weight 1 kg			ithout brake) 1.02 kg(with brake)			
Size	Size 149 mm x 50(82.5) mm x 50 mm(without brake/with brake, same size)					ame size)	
Work	king Envi	ronment					
Com	Communication interface Modbus RTU (RS485)				(S485)		
Rate	Rated voltage $24\mathrm{V}\mathrm{DC}\pm10\%$						
Rated current 1.2 A							
Peak current 2.5 A							
IP class IP 40							
Reco	mmende	d environ	ment	0~40°C	C, under 85	% RH	
Certification CE, FCC, RoHS							
•	•	•	•	•	•	•0	
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism	



PGI Series Electric Parallel Gripper

PGI-140-80

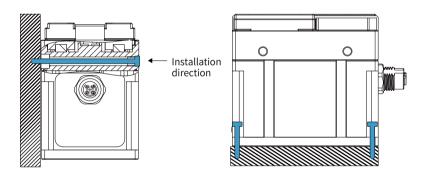


Based on the industrial requirements of "long stroke, high load, and high protection level", DH-Robotics independently developed the PGI series of industrial electric parallel gripper. The PGI series is widely used in various industrial scenarios with positive feedback.



Installation

- 1. Front and rear installation: use front and rear screw holes for installation
- 2. Bottom installation: use bottom screw holes for installation



Product Features

Long Stroke

Long stroke reach to 80 mm. With the customization fingertips, it can stably grasp the medium and large objects below 3kg and suitable for lots of industrial scenes.

High Protection Level

The protection level of PGI-140-80 reaches to IP54, which is able to work under harsh environment with dust and liquid splash.

High Load

The maximum single-sided gripping force of PGI-140-80 is 140 N, and the maximum recommended load is 3 kg, which can meet more diverse gripping needs.



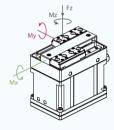


Application

In industrial scenarios, it is used for gripping, handling and assembly of heavy workpieces. Mostly used in new energy, auto parts, machining, 3C electronics and other industries.

PGI-140-80





Static Vertical Allowable Load

Fz 300 N

Allowable Loading Moment

Mx	7 N·m
Му	7 N⋅m
Mz	7 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.

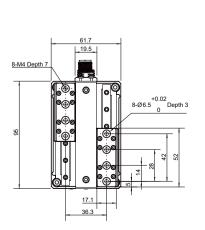
Parameters

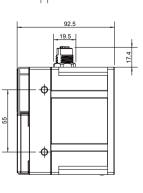
Product Parameter				
Gripping force (pe	40~140 N			
Stroke	80 mm			
Recommended w	3 kg			
Opening/closing t	0.7 s/0.7 s			
Repeat accuracy (\pm 0.03 mm			
Noise emission		< 50 dB		
Weight	=	1 kg (exclude fingers)		
Driving method	Precise planetary g	gears + Rack and pinion		
Size	95 mm :	x 67.1 mm x 92.5 mm		

Working Environment					
	rd: Modbus RTU (RS485), Digital I/O B2.0, CAN2.0A, PROFINET, EtherCAT				
Rated voltage	24 V DC \pm 10%				
Rated current	0.5 A				
Peak current	1.2 A				
IP class	IP 54				
Recommended environment	0~40°C, under 85% RH				
Certification	CE, FCC, RoHS				

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

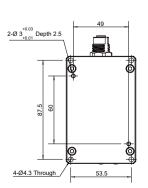
Technical Drawings





2-Ø9 Depth 5.3 Ø5.5 Depth 49.4

2-M6 Depth 7



PGS Series Miniature Electro-magnetic Gripper

PGS-5-5

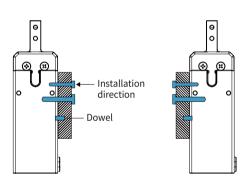


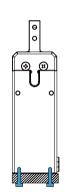
The PGS series is a miniature electromagnetic gripper with high working frequency. Based on a split design, the PGS series could be applied in space-limited environment with the ultimate compact size and simple configuration.



Installation

- 1. Front and rear installation: use front and rear screw holes for installation
- 2. Bottom installation: use bottom screw holes for installation





Product Features

Small Size

Compact size with 20×26 mm, it can be deployed in a relatively small environment.

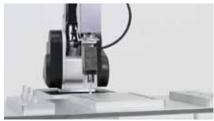


The opening/closing time could reach 0.03s to meet the needs of fast grasping.

Easy to Use

The configuration is simple with the Digital I/O communication protocol.

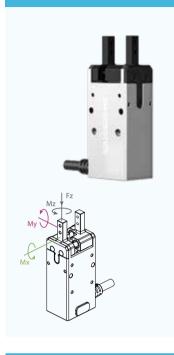




Application

High-frequency fast capture, detection, adjustment and other scenarios in 3C electronics, medical automation, semiconductor and other industries.

PGS-5-5



Static Vertical Allowable Load

Fz 150 N

Allowable Loading Moment

Mx	0.62 N·m
Му	0.62 N·m
M <i>7</i>	0.62 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.

Parameters

Product Parameter	
Gripping force (per jaw)	3.5-5 N
Stroke	5 mm
Recommended workpiece w	eight * 0.05 kg
Opening/closing time	0.03 s/0.03 s
Repeat accuracy (position)	\pm 0.01 mm
Noise emission	< 50 dB
Weight	0.2 kg
Driving method	Electromagnet + Spring
Size	68.5 mm x 26 mm x 20 mm

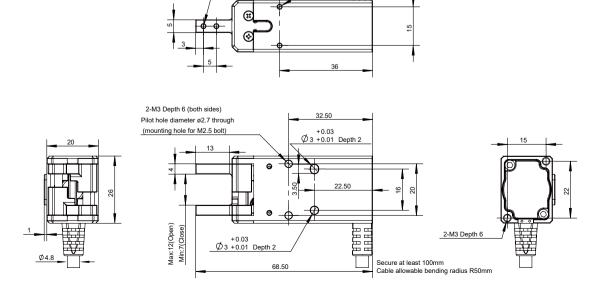
Working Environment	
Communication interface	Digital I/O
Rated voltage	24 V DC \pm 10%
Rated current	0.1 A
Peak current	3.0 A
IP class	IP 40
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS

0	0	0	0	0	•
Build-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism

2-M2 Depth 2.5

Same on the opposite side

Technical Drawings



2-M2 Through

Same on the opposite side

PGC Series Freddo Winner 2021 Electric Collaborative Parallel Gripper

PGC-50-35

PGC-140-50

PGC-300-60

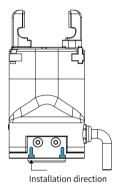


DH-Robotics PGC series of collaborative parallel electric grippers is an electric gripper mainly used in cooperative manipulators. It has the advantages of high protection level, plug and play, large load and so on. The PGC series combines precision force control and industrial aesthetics. In 2021, it won two industrial design awards, the Red Dot Award and the IF Award.



Installation

1. Bottom installation: use bottom screw holes for installation



Product Features

High protection level

The protection level of PGC series is up to IP67, so the PGC series is able to work under harsh conditions such as machine tending environment.

Plug & Play

PGC series supports plug & play with most collaborative robot brands on the market which is easier to control and program.

High Load

The gripping force of the PGC series could reach 300 N, and the maximum load can reach 6 kg, which can meet more diverse gripping needs.





Application

With collaborative robots, it can complete a series of complex processes including gripping, handling, and assembly in scenarios such as medical automation, 3C electronics, new energy, and new robot retail.

PGC-50-35



Static Vertical Allowable Load

Allowable Loading Moment

Mx	2.5 N·m
Му	2 N·m
Mz	3 N·m

[&]quot;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.

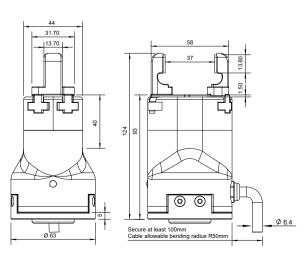
Parameters

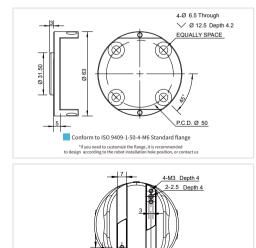
Product Parameter	
Gripping force (per jaw)	15~50 N
Stroke	37 mm
Recommended workpiece weight *	1 kg
Opening/closing time	0.7 s/0.7 s
Repeat accuracy (position)	\pm 0.03 mm
Noise emission	< 50 dB
Weight	0.5 kg
Driving method Precise planetary gears +	Rack and pinion
Size 124 mm x 6	3 mm x 63 mm

Working Environment			
Communication interface		ard: Modbus RTU (RS485), Digital I/O BB2.0, CAN2.0A, PROFINET, EtherCAT	
Rated voltage		24 V DC \pm 10%	
Rated current		0.25 A	
Peak current		0.5 A	
IP class		IP 54	
Recommended	environment	0~40°C, under 85% RH	
Certification		CE, FCC, RoHS	

•	•	•	•	•	•	0
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Plug & Play	Self-locking Mechanism

Technical Drawings





Rail mounting holes

PGC-140-50



Static Vertical Allowable Load

Fz 300 N

Allowable Loading Moment

Mx	7 N⋅m
Му	7 N⋅m
Mz	7 N⋅m

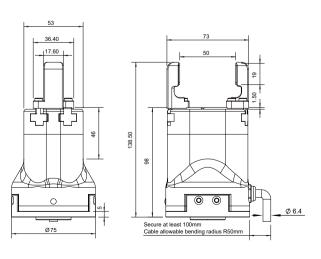
^{*}It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

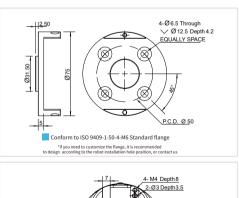
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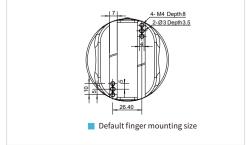
Product Parame	eter	
Gripping force (p	erjaw)	40~140 N
Stroke		50 mm
Recommended w	vorkpiece weight *	3 kg
Opening/closing time		0.6 s/0.6 s
Repeat accuracy (position)		\pm 0.03 mm
Noise emission		< 50 dB
Weight		1 kg
Driving method	Precise planetary gears	+ Rack and pinion
Size	138.5 mm x	75 mm x 75 mm

Working Environment		
Communication interface		ard: Modbus RTU (RS485), Digital I/O B2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage		24 V DC \pm 10%
Rated current		0.4 A
Peak current		1.0 A
IP class		IP 67
Recommended	environment	0~40°C, under 85% RH
Certification		CE, FCC, RoHS
	·	

•	•	•	•	•	•	•
Build-in	Gripping Force	Position	Speed	Drop	Plug &	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Play	Mechanism







PGC-300-60



Static Vertical Allowable Load

Allowable Loading Moment

Mx	15 N·m
Му	15 N·m
Mz	15 N·m

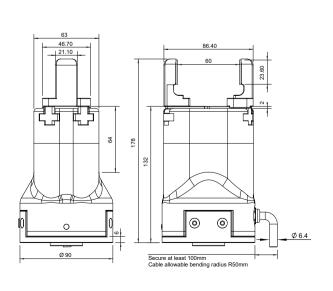
^{*}It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

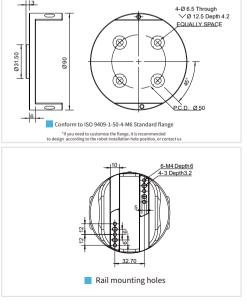
Parameters

Product Parameter	
Gripping force (per jaw)	80~300 N
Stroke	60 mm
Recommended workpiece weight *	6 kg
Opening/closing time	0.8 s/0.8 s
Repeat accuracy (position)	\pm 0.03 mm
Noise emission	< 50 dB
Weight	1.5 kg
Driving method Precise planetary gears +	Rack and pinion
Size 178 mm x S	90 mm x 90 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 \pm 10%			
Rated current		0.4 A			
Peak current		2.0 A			
IP class		IP 67			
Recommended	environment	0~40°C, under 85% RH			
Certification		CE, FCC, RoHS			

_			_		_	
			•		•	
Build-in	Gripping Force	Position	Speed	Drop	Plug &	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Play	Mechanism





AG Series Profes Adaptive Gripper

AG-160-95 AG-105-145 DH-3

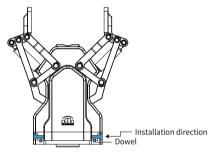


The AG series is a linkage-type adaptive electric gripper which is independently developed by DH-Robotics. With Plug& Play software many and exquisite structural design, AG series is a perfect solution to be applied with collabrative robots to grip work-pieces with different shapes in different industries.



Installation

1. Bottom installation: use bottom screw holes for installation



Product Features

Envelope Adaptive Capture

The gripper linkage mechanism supports envelope adaptive grasping, which is more stable to grip round, spherical or special-shaped objects.

Plug & Play

It supports plug & play with most collaborative robot brands on the market which is easier to control and program.

Long Stroke

The biggest stroke of the AG series is up to 145 mm. One gripper can meet the grasping needs of objects of different sizes with good compatibility.





Application

Cooperate with collaborative robot or industrial robot to complete material handling, loading and unloading, assembly, testing, sorting and other tasks in auto parts, automation equipment, new energy and other industries.

AG-160-95



Static Vertical Allowable Load

Fz	200 N
ΓZ	300 N

Allowable Loading Moment

Mx	4.75 N·m		
Му	4.75 N⋅m		
Mz	4.75 N⋅m		

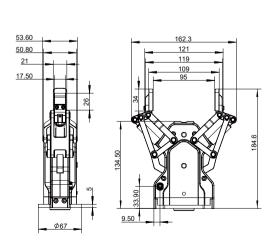
^{*}It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

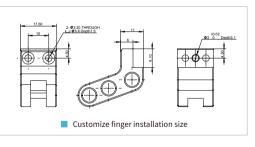
Parameters

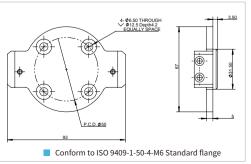
Product Parameter	
Gripping force (per jaw)	45~160 N
Stroke	95 mm
Recommended workpie	ce weight * 3 kg
Opening/closing time	0.7 s/0.7 s
Repeat accuracy (position	on) ± 0.03 mm
Noise emission	< 50 dB
Weight	1 kg
Driving method	Screw drive + Linkage system
Size	184.6 mm x 162.3 mm x 67 mm

Working Environment				
Communication interface		ard: Modbus RTU (RS485), Digital I/O B2.0, CAN2.0A, PROFINET, EtherCAT		
Rated voltage		24 V DC \pm 10%		
Rated current		0.8 A		
Peak current		1.5 A		
IP class		IP 54		
Recommended	environment	0~40°C, under 85% RH		
Certification		CE, FCC, RoHS		

Certi	ncation				CE, FCC,	конз
•	•	•	0	•	•	•
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Plug & Play	Self-locking Mechanism

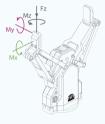






AG-105-145





Static Vertical Allowable Load

_	
Fz	300 N

Allowable Loading Moment

Mx	1.95 N·m
Му	1.95 N·m
Mz	1.95 N⋅m

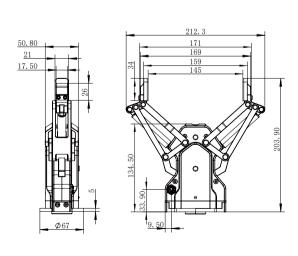
^{*}It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

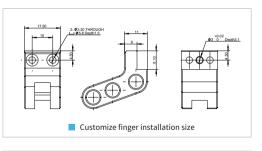
Parameters

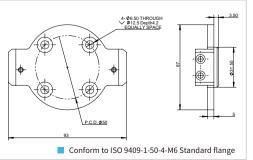
Product Parameter	
Gripping force (per jaw)	35~105 N
Stroke	145 mm
Recommended workpied	ce weight * 2 kg
Opening/closing time	0.7 s/0.7 s
Repeat accuracy (positio	n) \pm 0.03 mm
Noise emission	< 50 dB
Weight	1.3 kg
Driving method	Screw drive + Linkage system
Size	203.9 mm x 212.3 mm x 67 mm

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 \pm 10%						
Rated current	0.8 A						
Peak current	1.5 A						
IP class	IP 54						
Recommended	environment 0~40°C, under 85% RH						
Certification	CE, FCC, RoHS						

•	•	•	0	•	•	•
Build-in	Gripping Force	Position	Speed	Drop	Plug &	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Play	Mechanism







DH-3



Static Vertical Allowable Load

Fz	150 N
	130 14

Allowable Loading Moment

Mx	2.5 N·m
Му	2 N·m
Mz	3 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.

Parameters

Product Parameter								
Gripping force (per jaw)	10~65 N							
Stroke 106 r	nm (parallel) 122 mm (centric)							
Recommended workpie	ce weight * 1.8 kg							
Opening/closing time	0.7 s/0.7 s							
Repeat accuracy (position	on) ± 0.03 mm							
Noise emission	< 50 dB							
Weight	1.68 kg							
Driving method	Screw nut + gear drive + linkage mechanism							
Size	213.5 mm x 170 mm x 118 mm							

V	V	0	r	k	Ĭ	n	g	,	E	r	ľ	V	ľ	r	C	Ì	1	n	1	e	ľ)	t
	_			_	_			_	_	_	_	_	_	_	_	_			_	_	_	_	_

Communication	Standard: Modbus RTU (RS485), Digital I/O
interface	Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT
- · · · · ·	041100 4001

Rated voltage $24\,\mathrm{V}\,\mathrm{DC}\pm10\%$

Rated current 0.5 A

Peak current 1 A

IP class IP 40

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

Certification CE, FCC, RoHS

•
Build-in
Controller

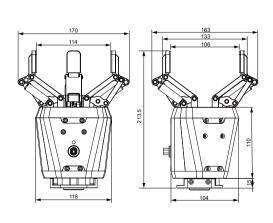


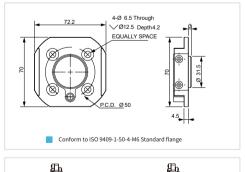


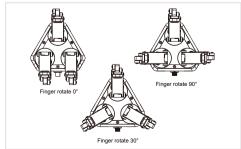




Self-locking Mechanism







CG Series Electric Centric Gripper

CGE-10-10 CGI-100-170 CGC-80-10

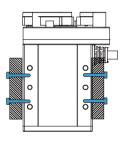


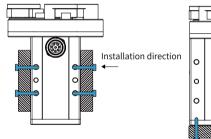
The CG series is a three-finger centric gripper independently developed by DH-Robotics. The three-finger gripping method can better cope with the grasping task of cylindrical workpieces. The CG series is available in a variety of models for a variety of scenarios, stroke and end devices.

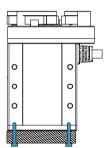


Installation

- 1. Front and rear installation: use front and rear screw holes for installation
- 2. Side installation: use side screw holes for installation
- 3. Bottom installation: use bottom screw holes for installation







Product Features

High Performance

Realize high-precision centering and grasping, the process structure meets the requirements of high rigidity, and the energy density exceeds that of similar products

Long Lifetime

Continuous and stable work above 10 millions times without maintenance.

Overload Protection

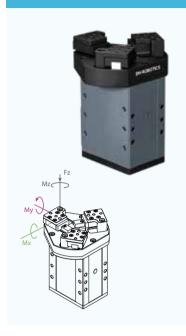
The high-performance servo motor can provide instantaneous overload protection



Application

Accurate and stable grasping of cylindrical workpieces in the fields of auto parts, automation equipment, precision machining and assembly, etc.

CGE-10-10



Static Vertical Allowable Load

Fz 150 N

Allowable Loading Moment

Mx	0.62 N·m
Му	0.62 N·m
Mz	0.62 N·m

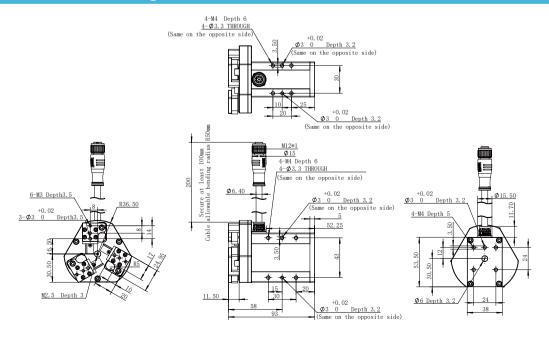
^{*}It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

Parameters

Product Parameter	
Gripping force (per jaw)	3~10 N
Stroke	10 mm
Recommended workpiece weight *	0.1 kg
Opening/closing time	0.3 s/0.3 s
Repeat accuracy (position)	\pm 0.03 mm
Noise emission	< 40 dB
Weight	0.43 kg
Driving method Precise planetary gear redu	icer + Rack and pinion
Size 94 mm x	53.5 mm x 38 mm

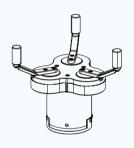
Working Envir	onment			
Communication interface				
Rated voltage		24 V DC \pm 10%		
Rated current		0.3 A		
Peak current		0.6 A		
Recommended	d environment	0~40°C, under 85% RH		
Certification		CE, FCC, RoHS		

•	•	•		•	0
Build-in	Gripping Force	Position	Position Speed		Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism



CGI-100-170





This type of gripper is recommended to use the standard finger. If you need to replace it in the application, please contact us for confirmation.

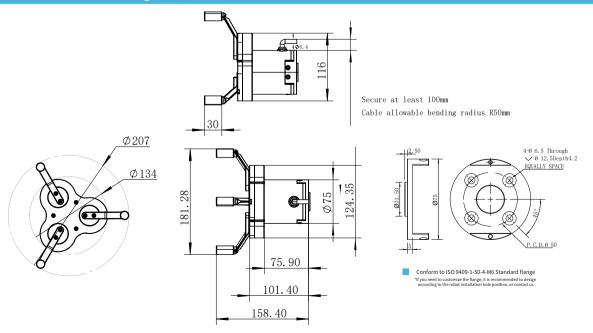
* lt depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

Parameters

Product Pa	arameter	
Gripping fo	orce (per jaw)	30~100 N
Recommende diameter (inw	ed workpiece vard)	ф40~ф170 mm
Recommer	nded workpiece weight	* 1.5 kg
Opening/cl	losing time	0.5 s/0.5 s
Repeat acc	curacy (position)	\pm 0.03 mm
Noise emis	sion	< 50 dB
Weight		1.5 kg
Driving me	thod Precise planetary	gears + Rack and pinion
Size 158.4 r	mm x 124.35 mm x 116 mm(witho	out brake/with brake, same size)

Working Envir	Working Environment				
Communication interface		ard: Modbus RTU (RS485), Digital I/O BB2.0, CAN2.0A, PROFINET, EtherCAT			
Rated voltage		24 V DC \pm 10%			
Rated current		0.4 A			
Peak current		1 A			
IP class		IP 40			
Recommended	l environment	0~40°C, under 85% RH			
Certification		CE, FCC, RoHS			

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



CGC-80-10



Static Vertical Allowable Load

Fz 200 N

Allowable Loading Moment

Mx	2.5 N·m
Му	2 N·m
Mz	3 N⋅m

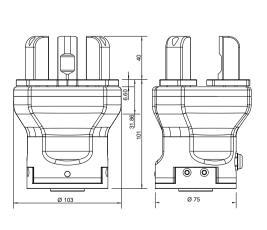
^{*}It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

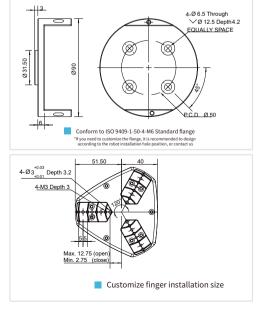
Parameters

Product Parameter	
Gripping force (per jaw)	20~80 N
Single jaw	10 mm
Recommended workpied	e weight * 1.5 kg
Opening/closing time	0.2 s/0.2 s
Repeat accuracy (positio	n) ± 0.03 mm
Noise emission	< 50 dB
Weight	1.5 kg
Driving method Precise pla	anetary gear reducer + Rack and pinion
Size	141 mm x 103 mm x 75 mm

Working Envir	onment	
Communication interface		rd: Modbus RTU (RS485), Digital I/O B2.0, CAN2.0A, PROFINET, EtherCAT
Rated voltage		24 V DC \pm 10%
Rated current		0.3 A
Peak current		1 A
IP class		IP 67
Recommended	l environment	0~40°C, under 85% RH
Certification		CE, FCC, RoHS

Reco	mmenae	a environ	0~40 C,	under 85	% KH		
Certification CE, FCC,						RoHS	
	•	•	•	•	•	•	
Build-in	Gripping Force	Position	Speed	Drop	Plug &	Self-locking	
Controller	Adjustable	Adjustable	Adjustable	Detection	Play	Mechanism	





Honors and Certificates

- Some of Our Certificates











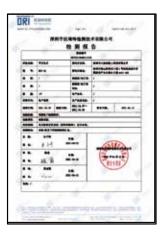








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- 1. CE Ceritficate
- 2. IP Class Ceritficate
- 3. RoHS Ceritficate
- 4.EMC Ceritficate
- 5. FCC Ceritficate
- 6.Low Temperature Test Report
- 7. Intellectual Property Management System Certification

6 7

Our Customers

More than 500 customers around the world are using DH-Robotics products The number of customers continues to grow rapidly...













































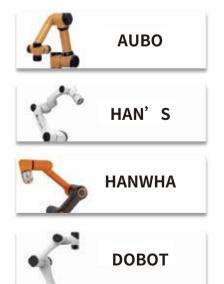


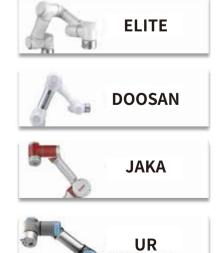




Our Eco-Partners

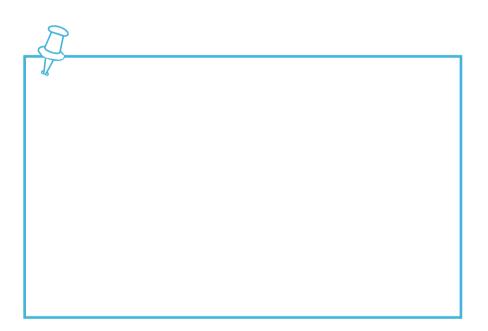
DH-Robotics is a high-quality partner of global collaborative robots











DH-Robotics Technology Co.,Ltd



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