

## **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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Slim-type Electric Parallel Gripper



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### **PGSE Series**

Slim-type Electric Parallel Gripper



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### **CG Series**

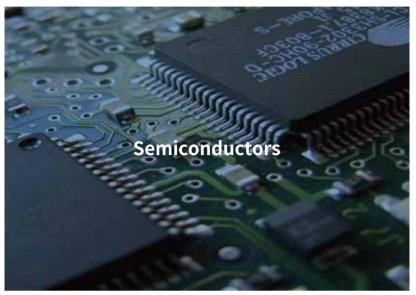
**Electric Centric Gripper** 



50
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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**



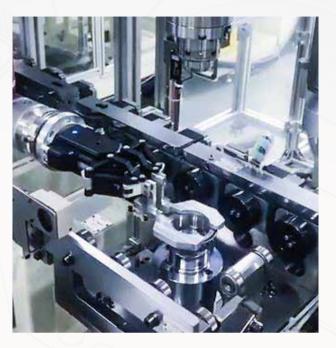
PGC-50-35 Automation

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.

Support electric gripper models	UR CB Series	UR E Series	UR E Series	DOBOT CR Series	Aubo	Jaka	Elite CS Series	Elite EC Series	TECHMAN ROBOT	Doosan A Series	Doosan M Series	Elephant	SINSUN	ROKAE	Han's Robot	Neuro meka	Hanwha	FAIRINO
Small current electric gripper (Peak current≤0.6A)	Wo																	
Small current electric gripper (Peak current < 1.5A)		Wa		Wa	Wc	Wg	Wa		Wh			Wd	Wa	Wi			Wa	
High current electric claw (Peak current>1.5A)			Wb															
In common (Support large and small current electric gripper)								Wj		We	Wf				Wk	Wl		Wm

**DH-Robotics' Gripper and Cylinder Communication Protocol Conversion Box**The communication within DH-Robotics' Servo Gripper and Servo Electric Cylinder defaults to Modbus RTU (RS485) and a small number of I/O. If customers choose other communication protocols, they will need to use the communication protocol conversion box. The following communication protocol conversion boxes are available for selection:

Communication Protocol Conversion Box Name	Ordering Model
EtherCAT 1-1	FG-M2E-B1-1
EtherCAT 1-4	FG-M2E-B1-4
EtherCAT转 I/O 1-More	Please contact our technical staff confirm the specific parameters

	Communication Protocol Conversion Box Name	Ordering Model
	TCP/IP 1-1	FG-M2T-B1-1-YBT
C.	PROFINET 1-2	FG-M2P2-B1-2-HJ
	PROFINET 1-11	FG-M2P-B1-11-9

### **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>			i i	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



Example: DH-Robotics PC software

\* Please consult sales person for specific applicable models

## **Products Brief Parameters**

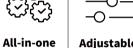
### **PGE Series** Slim-type Electric Parallel Gripper

Precision force control

**Small Size** 

Fast Response







Intelligent



**Self-locking** 









PGE-2-12







Design

Adjustable **Parameters** 

Feedback

Replaceable Fingertip

Mechanism

26

PGF-15-26

PGE-50-26

0.5

PGE-50-40

PGE-100-26

	Gripping Force (N)	Recommended workpiece weight(kg)	Stroke (mm)	Opening/closing time(s)	IP Class
PGE-2-12	0.8~2	0.05	12	0.15	IP40
PGE-5-26	0.8~5	0.1	26	0.3	IP40
PGE-8-14	2~8	0.1	14	0.3	IP40
PGE-15-10	6~15	0.25	10	0.3	IP40
PGE-15-26	6~15	0.25	26	0.5	IP40
PGE-50-26	15~50	1	26	0.45	IP40
PGE-50-40	15~50	1	40	0.45	IP40

### **PGSE Series** Slim-type Electric Parallel Gripper

**Small Size** 

Fast Response

30~100



PGE-100-26

All-in-one Design



Replaceable **Fingertip** 



IP40

PGE-15-7

PGS	E-1	L5-7	

Gripping Force (N)	Recommended workpiece weight(kg)	Stroke (mm)	Opening/closing time(s)	IP Class
6~15	0.25	7	0.15	IP40

### RGI Series Electric Rotary Gripper

Infinite Rotation Dual Servo System Compact Type



All-in-one Design



Adjustable Parameters



Intelligent Feedback



Replaceable Fingertip



RGIC-35-12 RGIC-100-35







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

RGIC-35-12
<b>RGIC-100-35</b>
RGI-100-14
RGI-100-22
RGI-100-30

	Gripping Force (N)	Recommended workpiece weight(kg)	Stroke (mm)	Opening/closing time(s)	IP Class	
2	13~35	0.5	12	0.6	IP40	
35	40~100	1	35	0.9	IP40	
ŀ	30~100	1.5	14	0.6	IP40	
2	30~100	1.5	22	0.65	IP40	
)	30~100	1.5	30	0.7	IP40	

### RGD Series Electric Direct Drive Rotaty Gripper

Zero Backlash Infinite Rotation Precise Positioning



All-in-one Design Adjustable Parameters



Intelligent Feedback



Replaceable Fingertip



Self-locking Mechanism



RGD-5-14



RGD-5-30



700



RGD-35-14 RGD-35-30

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

Gripping Force (N)	Recommended workpiece weight(kg)	Stroke (mm)	Opening/closing time(s)	IP Class
2~5.5	0.05	14	0.5	IP40
2~5.5	0.05	30	0.5	IP40
10~35	0.35	14	0.5	IP40
10~35	0.35	30	0.7	IP40

### **PGI Series**

### **Electric Parallel Gripper**



High Protection Grade

**Parameters** 

**Long Stroke** 







Intelligent

Feedback



Fingertip



Mechanism



**PGI-140-80** 

All-in-one Design

PGI-140-80

	Gripping Force (N)	Recommended workpiece weight(kg)	Stroke (mm)	Opening/closing time(s)	IP Class
)	40~140	3	80	1.1	IP54

### **PGHL Series**

### **Heavy-Load Long-Stroke Electric Parallel Gripper**

**High Load** 

High Protection Grade

**Long Stroke** 



All-in-one Design



Adjustable

**Parameters** 



Intelligent Feedback



Replaceable . Fingertip



**Self-locking** Mechanism



**PGHL-400-80** 

	Gripping Force (N)	Recommended workpiece weight(kg)	Stroke (mm)	Opening/closing time(s)	IP Class
PGHL-400-80	140~400	8	80	1.0/1.1	IP40

### **PGS Series**

### **Miniature Electro-magnetic Gripper**

**Small Size** 

High Frequency

Easy Operation



Replaceable Fingertip



**Self-locking** Mechanism



**PGS-5-5** 

**PGS-5-5** 

Gripping Force (N)	Recommended workpiece weight(kg)	Stroke (mm)	Opening/closing time(s)	IP Class
3~5.5	0.05	5	0.03	IP40

### **PGC Series**

### **Electric Collaborative Parallel Gripper**

**Plug and Play** 

High Protection Grade

**High Load** 







**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)	Recommended workpiece weight(kg)	Stroke (mm)	Opening/closing time(s)	IP Class
15~50	1	37	0.7	IP54
40~140	3	50	0.6	IP67
80~300	6	60	0.8	IP67

### **AG Series**

### **Electric Adaptive Gripper**

Plug and Play

Envelope Adaptive Gripping

**Long Stroke** 



All-in-one Design



**Adjustable Parameters** 



Intelligent Feedback



Replaceable Fingertip



**Self-locking** Mechanism



AG-160-95



AG-105-145



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

Gripping Force (N)	Recommended workpiece weight(kg)	Stroke (mm)	Opening/closing time(s)	IP Class
45~160	3	95	0.9	IP54
35~105	2	145	0.9	IP54
10~65	1.8	106(parallel)/122(centric)	0.7	IP40

### **CG Series Electric Centric Gripper**

Centric Gripping



All-in-one Design



**Adjustable Parameters** 



Intelligent Feedback



Replaceable Fingertip



**Self-locking** Mechanism



CGE-10-10





CGC-80-10 CGI-100-170

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

	Gripping Force (N)	Recommended workpiece weight(kg)	Stroke (mm)	Opening/closing time(s)	IP Class
	3~10	0.1	10 (Single jaw)	0.3	
0	30~100	1.5	φ40~φ170 (Inward work-piece diameter)	0.5	IP40
	20~80	1.5	10 (Single jaw)	0.2	IP67

## PGE Series Slim-type Electric Parallel Gripper

PGE-2-12 PGE-15-26 PGE-5-26 PGE-50-26 PGE-8-14 PGE-50-40 PGF-15-10 PGF-100-26

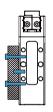


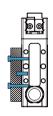
The PGE series is an industrial slim-type electric parallel gripper. With its precise force control, compact size and highly working speed, it has become a "Hot sell product" in the field of industrial electric gripper.

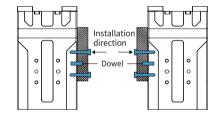
### **Installation**

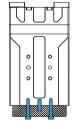


- 1. Front installation: use front screw holes for installation
- 2. Rear installation: use rear screw holes for installation
- 3. Right installation: use right screw holes for installation
- 4. Left installation: use left screw holes for installation
- 5. Bottom installation: use bottom screw holes 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  $0.15 \, \text{s} \, / \, 0.15 \, \text{s}$ , 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.



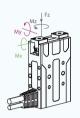


### **Application**

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

### **Allowable Loading Moment**

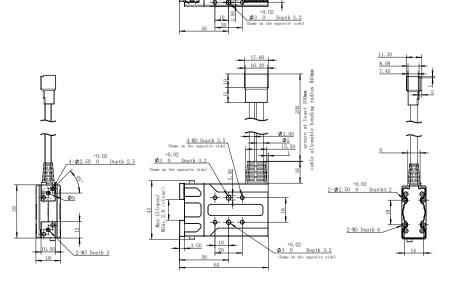
Mx	0.2 N⋅m
Му	0.17 N·m
Mz	0.2 N·m

 $<sup>^*</sup>$ ① 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 Par	ameter	
Gripping for	ce (per jaw)	0.8~2 N
Stroke		12 mm
Recommend	ed workpiece wei	ght * <sup>®</sup> 0.05 kg
Opening/clo	sing time	0.15 s/0.15 s
Repeat accu	racy (position)	$\pm$ 0.02 mm
Noise emissi	on	< 40 dB
Weight		0.15 kg
Driving meth	od Rack and p	inion + Cross roller guide
Size		er Size:65 mm x 39 mm x 18 mm ize:78 mm x 52.4 mm x 27.2 mm
Working En	vironment	
Communicatior interface		ndard: Modbus RTU (RS485), Digital I/O USB2.0, CAN2.0A, PROFINET, EtherCAT *②
Rated voltag	e	24 V DC $\pm$ 10%
Rated curren	it	0.2 A
Peak current		0.5 A
IP class		IP 40
Recommend	ed 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



 $<sup>^{\</sup>star} \ensuremath{\mathfrak{D}}$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## **PGE-5-26**



### **Static Vertical Allowable Load**

### **Allowable Loading Moment**

Mx	0.3 N·m
Му	0.25 N·m
Mz	0.3 N·m

 $<sup>^*\</sup>mbox{\footnote{$^{\circ}$}}$  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.

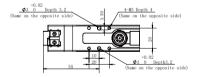
### **Parameters**

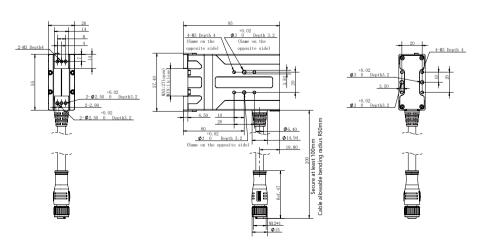
Product Paramete	er	
Gripping force (per	jaw)	0.8~5 N
Stroke		26 mm
Recommended wor	kpiece weight * <sup>®</sup>	0.1 kg
Opening/closing tir	ne	0.3 s/0.3 s
Repeat accuracy (p	osition)	$\pm$ 0.02 mm
Noise emission		< 40 dB
Weight		0.4 kg
Driving method	Rack and pinion + C	ross roller guide
Size		x 26 mm(without brake) nm x 30 mm(with brake)

Working Enviro	onment	
Communication interface	Sta Optional: TCP/IP,	ndard: Modbus RTU (RS485), Digital I/O USB2.0, CAN2.0A, PROFINET, EtherCAT *②
Rated voltage		24 V DC $\pm$ 10%
Rated current		0.4 A
Peak current		0.7 A
IP class		IP 40
Recommended	environment	0~40°C, under 85% RH
Certification		CE, FCC, RoHS

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

### **Technical Drawings**





 $<sup>^*\@</sup>ifnextchar[{\@monoscrip}{@{\@m$ 

## **PGE-8-14**



### Static Vertical Allowable Load

### **Allowable Loading Moment**

Mx	0.55 N·m
Му	0.45 N·m
Mz	0.55 N·m

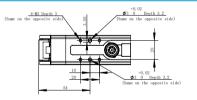
 $<sup>^*</sup>$ ① It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

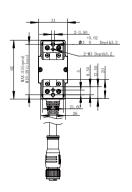
### **Parameters**

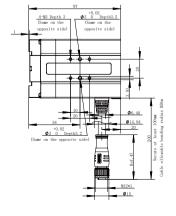
Product Paramete	er	
Gripping force (per	jaw)	2~8 N
Stroke		14 mm
Recommended wo	rkpiece weight * <sup>①</sup>	0.1 kg
Opening/closing tir	ne	0.3 s/0.3 s
Repeat accuracy (position)		$\pm$ 0.02 mm
Noise emission		< 40 dB
Weight		0.4 kg
Driving method	Rack and pinion + C	ross roller guide
Size	97 mm x	62 mm x 31 mm

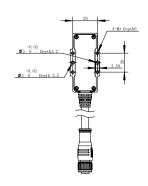
<b>Working Environ</b>	ment
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT *②
Rated voltage	24 V DC $\pm$ 10%
Rated current	0.4 A
Peak current	0.7 A
IP class	IP 40
Recommended er	vironment 0~40°C, under 85% RH
Certification	CE, FCC, RoHS

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









 $<sup>^{\</sup>star} \ensuremath{\mathfrak{D}}$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## **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

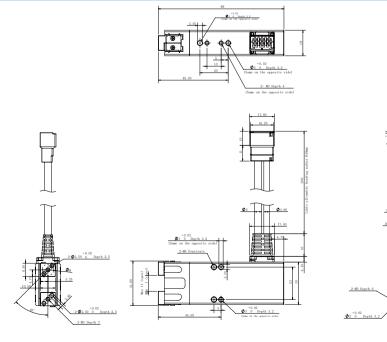
 $<sup>^*</sup>$ ① It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

### **Parameters**

Product Parame	ter	
Gripping force (pe	erjaw)	6~15 N
Stroke		10 mm
Recommended w	orkpiece weight * <sup>®</sup>	0.25 kg
Opening/closing	time	0.3 s/0.3 s
Repeat accuracy	(position)	$\pm$ 0.02 mm
Noise emission		< 60 dB
Weight		0.155 kg
Driving method	Precise planetary gears	+ Rack and pinion
Size		9 mm x 30 mm x 18 mm m x 52.4 mm x 27.2 mm

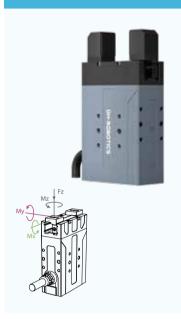
<b>Working Environ</b>	ment	
Communication interface		andard: Modbus RTU (RS485), Digital I/O , USB2.0, CAN2.0A, PROFINET, EtherCAT *②
Rated voltage		24 V DC $\pm$ 10%
Rated current		0.1 A
Peak current		0.22 A
IP class		IP 40
 Recommended er	vironment	0~40°C, under 85% RH
Certification		CE, FCC, RoHS

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



 $<sup>^*\@</sup>ifnextchar[{\@monoscrip}{@{\@m$ 

## **PGE-15-26**



### **Static Vertical Allowable Load**

Fz	70 N
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### **Allowable Loading Moment**

Mx	0.9 N·m
Му	0.75 N⋅m
Mz	0.9 N·m

 $<sup>^*</sup>$ ① 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.

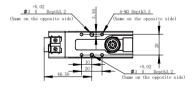
### **Parameters**

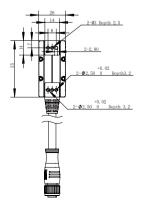
Product Parame	eter	
Gripping force (p	er jaw)	6~15 N
Stroke		26 mm
Recommended w	orkpiece weight * <sup>⊕</sup>	0.25 kg
Opening/closing	time	0.5 s/0.5 s
Repeat accuracy (position)		$\pm$ 0.02 mm
Noise emission		< 40 dB
Weight		0.33 kg
Driving method	Precise planetary gears +	Rack and pinion
Size		26 mm(without brake) n x 26 mm(with brake)

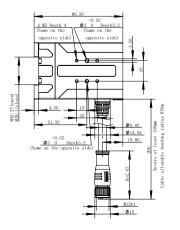
<b>Working Environ</b>	ment
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT *◎
Rated voltage	24 V DC $\pm$ 10%
Rated current	0.25 A
Peak current	0.5 A
IP class	IP 40
Recommended er	ovironment 0~40°C, under 85% RH
Certification	CE,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

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

### **Technical Drawings**







 $<sup>^{\</sup>star} \ \!\!\! 2$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## CG Series

## **PGE-50-26**



### Static Vertical Allowable Load

Fz	Z	150 N	J

### **Allowable Loading Moment**

Mx	2.5 N·m
Му	2 N·m
Mz	3 N⋅m

 $<sup>^*\</sup>mbox{\footnote{$^{\circ}$}}$  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.

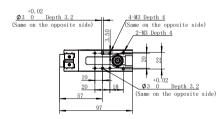
### **Parameters**

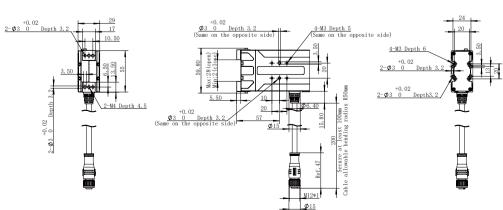
<b>Product Parame</b>	ter		
Gripping force (pe	er jaw)		15~50 N
Stroke			26 mm
Recommended workpiece weight		eight * <sup>®</sup>	1 kg
Opening/closing time			0.45 s/0.45 s
Repeat accuracy	(position)		$\pm$ 0.02 mm
Noise emission			< 40 dB
Weight			0.4 kg
Driving method	Precise pla	netary gears + I	Rack and pinion
Size	g		mm(without brake) x 29 mm(with brake)

)

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

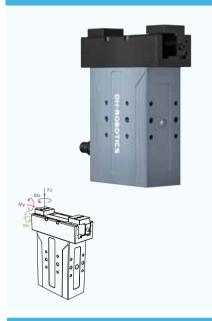
### **Technical Drawings**





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## **PGE-50-40**



### Static Vertical Allowable Load

Fz	150	Ν
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### **Allowable Loading Moment**

Mx	2.5 N·m
Му	2 N·m
Mz	3 N⋅m

 $<sup>^*\</sup>mbox{\Large \begin{tabular}{l} $^*\mbox{\Large \begin{tabular}{l} $t$ 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. }$ 

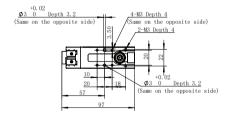
### **Parameters**

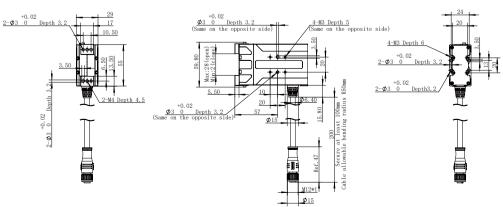
Product Parame	eter	
Gripping force (p	erjaw)	15~50 N
Stroke		40 mm
Recommended w	orkpiece weight * <sup>®</sup>	1 kg
Opening/closing	time	0.6 s/0.6 s
Repeat accuracy	(position)	$\pm$ 0.02 mm
Noise emission		< 40 dB
Weight		0.51 kg
Driving method	Precise planetary gears	+ Rack and pinion
Size		29 mm(without brake) m x 29 mm(with brake)

Working Environment				
Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT *②				
24 V DC $\pm$ 10%				
0.25 A				
0.5 A				
IP 40				
ovironment 0~40°C, under 85% RH				
CE, FCC, RoHS				

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

### **Technical Drawings**





 $<sup>^{\</sup>star} \ensuremath{\textcircled{2}}$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## **PGE-100-26**



### Static Vertical Allowable Load

Fz	150 N
ГΖ	TOUN

### **Allowable Loading Moment**

Mx	2.5 N·m
Му	3 N·m
Mz	4 N·m

 $<sup>^*\</sup>mbox{\Large \begin{tabular}{ll} $^*\mbox{\Large \begin{tabular}{ll}$ 

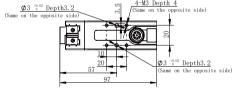
### **Parameters**

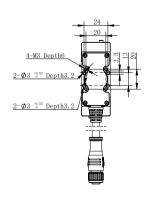
Product Parameter	
Gripping force (per jaw)	30~100 N
Stroke	26 mm
Recommended workpiece weight * <sup>©</sup>	2 kg
	0.5 s/0.5 s
Repeat accuracy (position)	$\pm$ 0.02 mm
Noise emission	< 60 dB
Weight	0.55 kg
Driving method Precise planetary gears	+ Rack and pinion
Size 125 mm x	57 mm x 30 mm

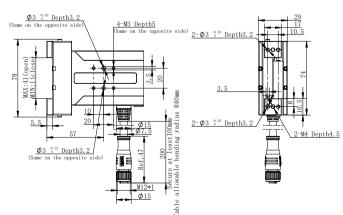
Working Enviro	Working Environment			
Communication interface		ndard: Modbus RTU (RS485), Digital I/O USB2.0, CAN2.0A, PROFINET, EtherCAT *②		
Rated voltage		24 V DC $\pm$ 10%		
Rated current		0.3 A		
Peak current		1.2 A		
IP class		IP 40		
Recommended	environment	0~40°C, under 85% RH		
Certification		CE, FCC, RoHS		

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

### **Technical Drawings**







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## PGSE Series Slim-type Electric Parallel Gripper

PGSE-15-7

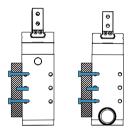


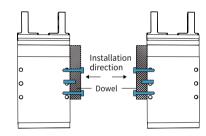
The PGSE Industrial Parallel Gripper is a miniature electric gripper specifically designed to meet the demand for quick grasping in narrow and compact installation spaces in industrial settings.

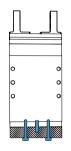
### **Installation**



- 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**

### Ultimate Slimness

The PGSE gripper features a compact and intricate design, with dimensions of only 85.6 x 38 x 23.2 mm (length x width x height), making it extremely slim and compact.

### High-Speed Response

The PGSE gripper offers rapid opening and closing times, with a minimum response time of as fast as 0.15 seconds for both opening and closing actions. This allows for quick grasping cycles, meeting the high-speed gripping requirements of production lines.

### Flexible Installation

The gripper body of the PGSE model provides multiple mounting options, allowing for versatile installation in compact spaces. Coupled with its compact size, it facilitates easy installation in tight spaces.

### **Application**

The PGSE gripper is suitable for compact production environments, such as the semiconductor and 3C electronics industries, where it can be utilized for gripping, sorting, loading, and unloading of small-sized components.



## **PGSE-15-7**



### 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

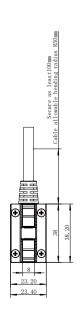
 $<sup>^*(\</sup>underline{)}$  . It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

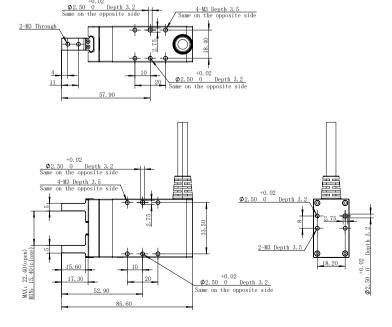
### **Parameters**

Product Parame	ter	
Gripping force (p	erjaw)	6~15 N
Stroke		7 mm
Recommended w	orkpiece weight * <sup>®</sup>	0.25 kg
Opening/closing	time	0.15 s/0.15 s
Noise emission		< 60 dB
Weight		0.15 kg
Driving method	Precise planetary gears +	Rack and pinion
Size	85.6 mm x 38	mm x 23.2 mm

Working Environme	nt
Communication interface	Modbus RTU (RS485)、Digital I/O*◎
Rated voltage	24 V DC $\pm$ 10%
Rated current	0.15 A
Peak current	0.8 A
IP class	IP 40
Recommended enviro	onment 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





 $<sup>^{\</sup>star}@$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## RGI Series Electric Rotary Gripper

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

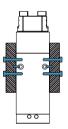


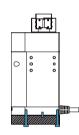
RGI series is the first fully self-developed infinite rotating gripper with a compact and precise structure on the market. It is widely applied in medical automation industry to grip and rotate the test tubes as well as other industries like electronics and New energy industry.

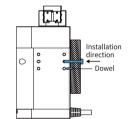


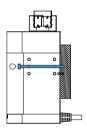
### Installation

- 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.

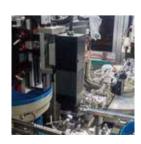
## CompactDouble Servo System

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 mix 1 and 20 mix 1 size tubes to meet the needs of large-scale nucleic acid sampling.

Fz

## **RGIC-35-12**



### Static Vertical Allowable Load

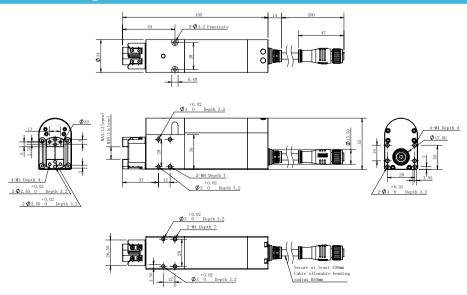
100 N

Allowable Loa	ding Moment
Mx	1.5 N⋅m

My 1.1 N·m Mz 2.1 N·m

### **Parameters**

Prod	uct Para	meter					
						25 N	
	Gripping force (per jaw)					~35 N	
Strok	(e				12 mm		
Rate	d torque				0.2 N⋅m		
Peak	torque				0.5	N·m	
Rota	ry range			In	finite Rot	ating	
Reco	mmende	d workpie	ece weigh	nt *1	0.5 kg		
Мах.	rotation s	speed			210	60 °/s	
Repe	at accura	cy (swive	ling)		± (	0.05°	
Repe	at accura	cy (positi	on)		$\pm 0.02$	2 mm	
Oper	ning/closi	ng time			0.6 s/0.6 s		
Weig	ht				0.	64 kg	
Size					nm x 53 mm x taty Diamete		
Work	king Envi	ronment	:		-		
Comm interfa	nunication ace	Ор	Sta tional: TCP/IP, I	ndard: Modbus USB2.0, CAN2.0	RTU (RS485), D A, PROFINET, E	igital I/O therCAT* <sup>②</sup>	
Rate	d voltage				24 V DC ±	10%	
Rate	d current					1.7 A	
Peak	current					2.5 A	
IP class IP 40					IP 40		
Recommended environment 0~40°C, under 85% RH							
Certification CE, FCC, RoHS				RoHS			
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	X Self-locking Mechanism	



 $<sup>^*(\</sup>underline{)}$  . 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.

 $<sup>^{\</sup>star} @$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## **RGIC-100-35**



### Static Vertical Allowable Load

200 N

Allowable Loading Moment				
Mx	3 N·m			

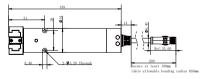
Fz

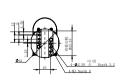
Му  $3 N \cdot m$ Μz 2.5 N·m

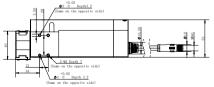
### **Parameters**

Product Parameter	
Gripping force (per jaw)	40~100 N
Stroke	35 mm
Rated torque	0.35 N·m
Peak torque	1.5 N⋅m
Rotary range	Infinite Rotating
Recommended workpiece weight * <sup>®</sup>	1 kg
Max. rotation speed	1400 °/s
Repeat accuracy (position)	± 0.02 mm
Opening/closing time	0.9 s/0.9 s
Weight	0.65 kg
Size	159 mm x 53 mm x 34 mm Rotaty Diameter:41mm

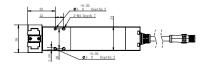
Working Environment						
Comm interfa	mmunication Standard: Modbus RTU (RS485), Digital I/O erface Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT*					igital I/O therCAT* <sup>②</sup>
Rate	d voltage			2	24 V DC ±	: 10%
Rate	d current					2.0 A
Peak	Peak current 5.0 A					5.0 A
IP cla	ISS					IP 40
Reco	Recommended environment 0~40°C, under 85% RH					% RH
Certi	fication				CE, FCC,	RoHS
•	•	•	•	•	•	×
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism











 $<sup>^*\</sup>mbox{\Large \hsuremath{\textcircled{\hsuremath{\ooffinee}}}}$  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.

<sup>\*</sup>② Use optional communication, need external communication conversion box, please consult the sales staff for details

## **RGI-100-14**



### **Static Vertical Allowable Load**

Fz	150 N
Allowable Loading M	oment

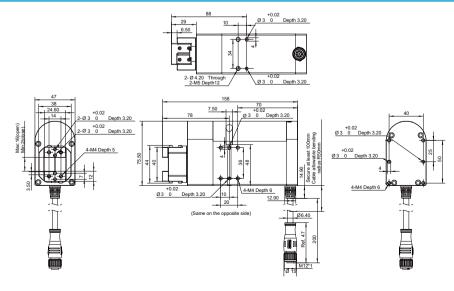
 Mx
 2.5 N⋅m

 My
 3 N⋅m

 Mz
 4 N⋅m

### **Parameters**

Product Parameter							
Gripp	Gripping force (per jaw)				30~.	100 N	
Strok	Stroke				14 mm		
Rate	d torque				0.5 N·m		
Peak	torque				1.5	N·m	
Rota	ry range			In	finite Rot	ating	
Reco	mmende	d workpie	ece weigh	ıt *¹	¹¹ 1.5 kg		
Мах.	rotation s	speed			2160 °/s		
Repe	at accura	cy (swive	ling)		<u>±</u>	0.05°	
Repe	at accura	cy (positi	on)		± 0.02	2 mm	
Oper	ning/closi	ng time			0.6 s/0.6 s		
Weig	ht				1.28 kg		
Size					n x 75.5 mm x ity Diameter:		
Worl	Working Environment						
Comm interfa	nunication ace	Ор	Sta tional: TCP/IP, I	ndard: Modbus JSB2.0, CAN2.0	RTU (RS485), D A, PROFINET, E	oigital I/O therCAT *②	
Rate	d voltage			2	24 V DC ±	: 10%	
Rate	d current					1.0 A	
Peak	current					4.0 A	
IP class IP 40					IP 40		
Reco	Recommended environment 0~40°C, under 85% RH					% RH	
Certification CE, FCC, RoH				RoHS			
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism	



 $<sup>^*\</sup>mbox{\Large \begin{tabular}{l} $^*\mbox{\Large \begin{tabular}{l} $t$ 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.}$ 

 $<sup>^{\</sup>star} \textcircled{2}$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## **RGI-100-22**



### Static Vertical Allowable Load

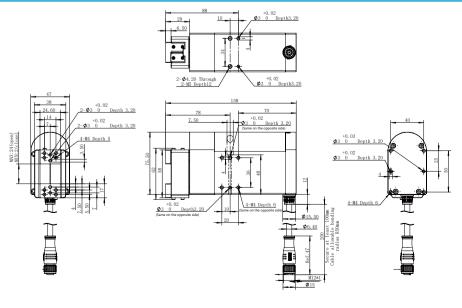
Fz		200	N

## Allowable Loading Moment Mx 3.5 N·m

My 4 N⋅m Mz 5.5 N⋅m

### **Parameters**

Produ	ct Paraı	neter					
Grippir	Gripping force (per jaw) 30~100 N					100 N	
Stroke					22 mm		
Rated t	torque				0.5	N·m	
Peak to	orque				1.5	N·m	
Rotary	range			ln	finite Rot	ating	
Recom	mended	d workpie	ece weigh	t * <sup>1</sup>		L.5 kg	
Max. rc	otation s	peed			21	60 °/s	
Repeat	t accura	cy (swive	ling)		土	0.05°	
Repeat accuracy (position) ± 0.02 mm					2 mm		
Opening/closing time 0.65 s/0.65 s				0.65 s			
Weight 1.4 kg				l.4 kg			
Size 158 mm x 75.5 mm x 47 mm Rotaty Diameter:67.1mm							
Working Environment							
Communication Standard: Modbus RTU (RS485), Digital I/O interface Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT *②					igital I/O therCAT *②		
Rated voltage $24\mathrm{V}\mathrm{DC}\pm10\%$							
Rated current 1.0 A							
Peak current 4.0 A							
IP class IP 40					IP 40		
Recommended environment 0~40°C, under 85% RH					% RH		
Certification CE, FCC, RoHS					RoHS		
The second secon	ipping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	X Self-locking Mechanism	



 $<sup>^*(\</sup>underline{)}$  . 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.

<sup>\*</sup>② Use optional communication, need external communication conversion box, please consult the sales staff for details

## **RGI-100-30**



### Static Vertical Allowable Load

	Fz	250 N
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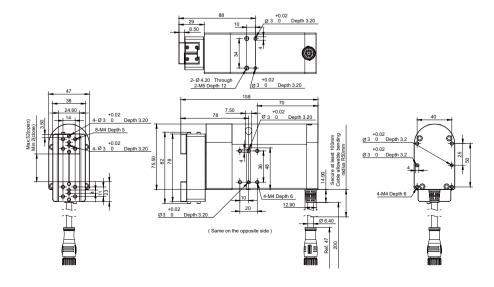
### Allowable Loading Moment

Mx	4.5 N·m
Му	5 N⋅m
Mz	7 N⋅m

 $<sup>^*(\</sup>underline{)}$  . 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) 30~100 N					
Strok	ке			30 mm		
Rate	d torque			0.5 N·m		
Peak	torque				1.5	N·m
Rota	ry range			In	finite Rot	ating
Reco	mmende	d workpie	ece weigh	nt * <sup>①</sup>	1	L.5 kg
Мах.	rotation s	speed			21	60 °/s
Repe	at accura	cy (swive	ling)		<u>+</u>	0.05°
Repeat accuracy (position) ± 0.02 mm					2 mm	
Opening/closing time				0.7 s/0.7 s		
Weig	Weight			1.5 kg		
Size 158 mm x 75.5 mm x 47 m Rotaty Diameter:84.8m						
Working Environment						
Comm interfa	nunication ace	Ор			RTU (RS485), D A, PROFINET, E	
Rate	d voltage			2	24 V DC ±	: 10%
Rated current 1.0 A					1.0 A	
Peak current 4.0 A					4.0 A	
IP class IP 40					IP 40	
Recommended environment 0~40°C, under 85% RH					% RH	
Certification CE, FCC, RoF					RoHS	
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	X Self-locking Mechanism



 $<sup>^{*}\@</sup>ifnextchar[{\@model{2}}\@ifnextchar[{\$ 

## RGD Series Electric Direct Drive Rotaty Gripper

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

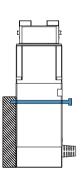


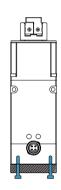
The RGD direct-drive electric rotary gripper of DH-Robotics adopts a direct-drive backlash-free rotation module to improve the rotary accuracy, and thus is perfectly suited for high-precision manufacturing applications.



### 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 <u>semiconductors</u>.

## **RGD-5-14**



### Static Vertical Allowable Load

Fz 150 N

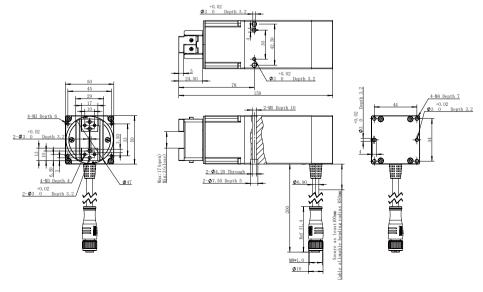
### **Allowable Loading Moment**

Mx	2 N·m
Му	1.5 N·m
Mz	2.5 N⋅m

 $<sup>^* \</sup>odot$  . The peak torque can be increased up to 0.5N  $\cdot$  m. Please consult the technical support staff for details.

### **Parameters**

Product Parame	ter				
Gripping force (per jaw)				2-	-5.5 N
Stroke			14 mm		
Rated torque			0.1 N·m		
Peak torque *®			0.25 N·m		
Rotary range Infinite Rotat				ating	
Recommended workpiece weight *® 0.05 l				05 kg	
Max. rotation spe	ed			15	00 °/s
Rotary backlash				Zero bac	klash
Repeat accuracy (swiveling) $\pm$ 0.1 °				0.1°	
Repeat accuracy (position) ± 0.02 mm			2 mm		
Opening/closing time 0.5 s/0.			/0.5 s		
Weight 0.86 kg(witho			nout brake) 0.88 kg(with brake)		
Size 149 mm x 50 mm x 50 mm Rotaty Diameter:48.7mm					
Working Enviror	nment				
Communication i	interfa	ce	Mod	bus RTU (F	RS485)
Rated voltage				24 V DC ±	10%
Rated current					1.2 A
Peak current 2.5 A			2.5 A		
IP class IP 40			IP 40		
Recommended environment 0~40°C, under 85% RH			% RH		
Certification CE, FCC,			RoHS		
	osition justable	Speed Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism



 $<sup>^*</sup>$ ② 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.

## **RGD-5-30**



### **Static Vertical Allowable Load**

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

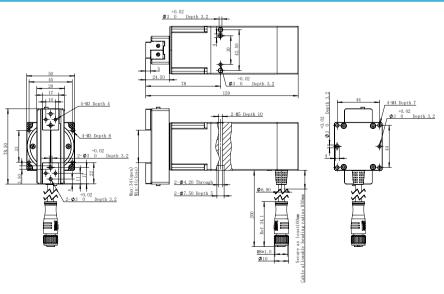
### Allowable Loading Moment

Мx	2 N·m
Му	1.5 N·m
Mz	 2.5 N·m

<sup>\*</sup>① The peak torque can be increased up to 0.5N  $\cdot$  m. Please consult the technical support staff for details.

### **Parameters**

Prod	uct Para	meter					
Gripp	oing force	(per jaw)			2-	-5.5 N	
Strok	ке				30	0 mm	
Rate	d torque				0.1	N·m	
Peak	torque *	D			0.25	N·m	
Rota	ry range				nfinite Rot	ating	
Reco	mmende	d workpie	ece weigh	it *®	0.	05 kg	
Мах.	rotation	speed			15	00 °/s	
Rota	ry backlas	sh			Zero bac	klash	
Repe	at accura	cy (swive	ling)		<u>+</u>	0.1°	
Repe	at accura	cy (positi	on)		± 0.02	2 mm	
Oper	ning/closi	ng time			0.5 s	/0.5 s	
Weig	ht		1 kg(without brake) 1.02 kg(with brake)			n brake)	
Size					mm x 50 mm x taty Diameter:8		
Work	Working Environment						
Communication interface Modbus RTU (RS485					RS485)		
Rate	Rated voltage $24  \text{V DC} \pm 10\%$					: 10%	
Rate	Rated current 1.2 A					1.2 A	
Peak current 2.5 A					2.5 A		
IP class IP 40					IP 40		
Recommended environment 0~40°C, under 85% RH						% RH	
Certi	fication				CE, FCC,	RoHS	
•	•	•	•	•	•	•×	
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism	



<sup>\*</sup>② 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.

## **RGD-35-14**



### **Static Vertical Allowable Load**

Fz 1!	50	N
-------	----	---

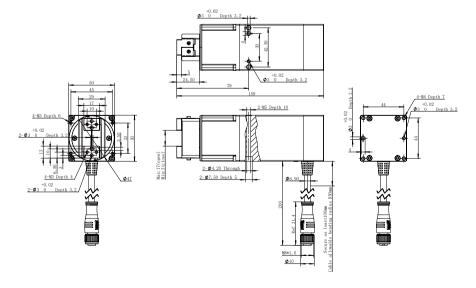
### **Allowable Loading Moment**

Mx	2 N·m
Му	1.5 N·m
Mz	2.5 N·m

<sup>\*</sup>① The peak torque can be increased up to 0.5N  $\cdot$  m. Please consult the technical support staff for details.

### **Parameters**

Product Parameter							
Gripping force (per jaw)	10-35 N						
Stroke	14 mm						
Rated torque	0.1 N·m						
Peak torque * <sup>®</sup>	0.25 N⋅m						
Rotary range	Infinite Rotating						
Recommended workpiece weight	* <sup>©</sup> 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(withou	out brake) 0.88 kg(with brake)						
Size	149 mm x 50 mm x 50 mm Rotaty Diameter:48.7mm						
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 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						



 $<sup>^*</sup>$ ② 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.

## **RGD-35-30**



### Static Vertical Allowable Load

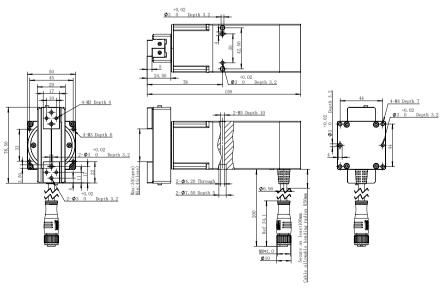
### Allowable Loading Moment

Mx	2 N·m
Му	1.5 N·m
Mz	2.5 N·m

<sup>\*</sup>① The peak torque can be increased up to 0.5N  $\cdot$  m. Please consult the technical support staff for details.

### **Parameters**

Prod	Product Parameter								
Gripp	Gripping force (per jaw)				10-35 N				
Strok	Stroke				30 mm				
Rate	Rated torque				0.1 N·m				
Peak	Peak torque * <sup>0</sup>				0.25 N⋅m				
Rota	Rotary range				Infinite Rotating				
Reco	Recommended workpiece weight *®					0.35 kg			
Мах.	Max. rotation speed				1500 °/s				
Rota	Rotary backlash					Zero backlash			
Repe	Repeat accuracy (swiveling)					± 0.1 °			
Repe	Repeat accuracy (position) ± 0.02 mm					2 mm			
Oper	Opening/closing time 0.7 s/0.7 s								
Weig	Weight 1 kg(without bral			ut brake)	e) 1.02 kg(with brake)				
Size	Size 149 mm x 50 mm x 50 mm Rotaty Diameter:83.6mr								
Working Environment									
Com	Communication interface Mo				odbus RTU (RS485)				
Rate	Rated voltage 24 V DC $\pm$ 10%								
Rate	Rated current 1.2 A								
Peak	Peak current 2.5 A								
IP cla	IP class IP 40								
Recommended environment 0~40°C, under 85% RH									
Certification C					CE, FCC,	CE, FCC, RoHS			
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism			



 $<sup>^*</sup>$ ② 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.

## PGI Series Electric Parallel Gripper

PGI-140-80

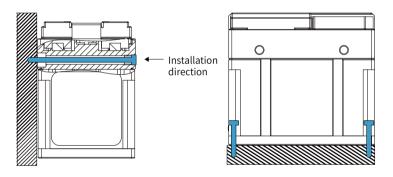


Based on the industrial requirements of "long stroke, high load, and high protection level", DH-Robotics independently developed the PGI series of industrial electric parallel gripper. The PGI series is widely used in various industrial scenarios with positive feedback.



### 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.

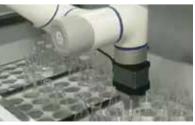
### High Protection Level

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**

#### Allowable Loading Moment

Mx	7 N⋅m
Му	7 N⋅m
Mz	7 N·m

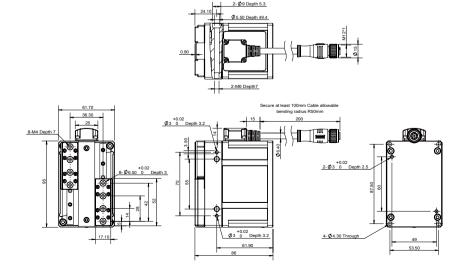
<sup>\*</sup>① It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

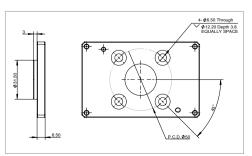
#### **Parameters**

Product Parameter		
Gripping force (per jaw)	40~140 N	
Stroke	80 mm	
Recommended workpiece weight *	<sup>©</sup> 3 kg	
Opening/closing time	1.1 s/1.1 s	
Repeat accuracy (position)	$\pm$ 0.03 mm	
Noise emission	< 50 dB	
Weight 1	. kg (exclude fingers)	
Driving method Precise planetary g	ears + Rack and pinion	
Size 95 mm >	( 67.1 mm x 92.5 mm	

Working Envi	ronment	
Communication interface		d: Modbus RTU (RS485), Digital I/O 2.0, CAN2.0A, PROFINET, EtherCAT *②
Rated voltage		24 V DC $\pm$ 10%
Rated current		0.5 A
Peak current		1.2 A
IP class		IP 54
Recommende	d 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





 $<sup>\</sup>dot{}^*\mbox{@}$  Use optional communication, need external communication conversion box, please consult the sales staff for details

# PGHL Series Heavy-Load Long-Stroke Electric Parallel Gripper

PGHL-400-80

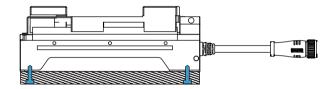


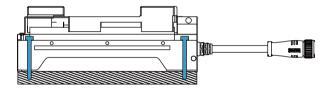
PGHL series is an industrial flat electric gripper developed and produced by DH-Robotics. With its compact design, heavy load and high force control accuracy, it can be applied to heavier load clamping requirements and more application scenarios.



#### **Installation**

Bottom installation: use bottom screw holes for installation





#### **Product Features**

## Flat Electric GripperHigh Energy density

PGHL-400-80 industrial flat electric gripper, the structure of which is delicate and meticulous. The length, width and height dimensions is only  $194 \times 73 \times 70$ mm. This model can provide large clamping force and fast clamping beat, coming with mechanical self-locking mechanism, challenge the limit of large load and thin size.

#### High Force Control Accurancy

The force repeatability is  $\pm 40 \text{N}(\pm 10\%)$ . Far better than ordinary products in the market by  $\pm 10\% \sim \pm 20\%$  of force control accuracy.

#### Quick Response Intelligent planning speed

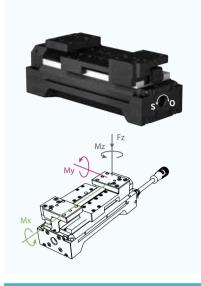
Opening/closing time up to 1.0s/1.1s, with speed control optimization and mechanical self-locking mechanism function, it can meet fast and stable gripping needs of the production line



#### **Application**

Applied in industrial production of large weight and large volume workpieces gripping and handling, such as lithium batteries in the new energy industry package gripping, large machined parts in automobile assembly production in automotive assembly.

## **PGHL-400-80**



#### Static Vertical Allowable Load

#### Allowable Loading Moment

Mx	50 N⋅m
Му	50 N⋅m
Mz	15 N·m

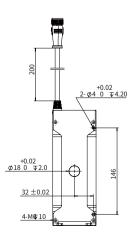
 $<sup>^*\</sup>mbox{\Large \begin{tabular}{l} $^*\mbox{\Large \begin{tabular}{l} $t$ depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.}$ 

#### **Parameters**

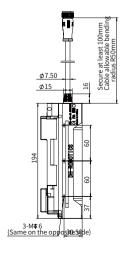
Product Parameter	
Gripping force (per jaw)	140~400 N
Stroke	80 mm
Recommended workpiece	weight * <sup>0</sup> 8 kg
Opening/closing time	1.0 s/ 1.1 s
Repeat accuracy (position)	$\pm$ 0.02 mm
Weight	2.2 kg
Driving method	Precise planetary gears + Tshaped lead screw+Rack and pinion
Size	194 mm x 73 mm x 70 mm

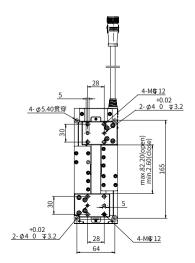
Working Environment			
Communication interface		ard: Modbus RTU (RS485), Digital I/O B2.0, CAN2.0A, PROFINET, EtherCAT *®	
Rated voltage		DC 24 V $\pm$ 10%	
Rated current		1.0 A	
Peak current		3.0 A	
IP class		IP 40	
Recommended	l environment	0~40°C, under 85% RH	
Certification		CE、FCC、RoHS	

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









 $<sup>\ ^*\</sup>textcircled{2}\$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## PGS Series Miniature Electro-magnetic Gripper

**PGS-5-5** 

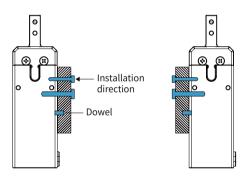


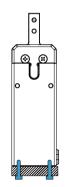
The PGS series is a miniature electromagnetic gripper with high working frequency. Based on a split design, the PGS series could be applied in space-limited environment with the ultimate compact size and simple configuration.



#### 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.

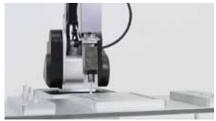


The opening/closing time could reach 0.03s to meet the needs of fast grasping.

#### 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
Mz	0.62 N·m

 $<sup>^{*}</sup>$  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**

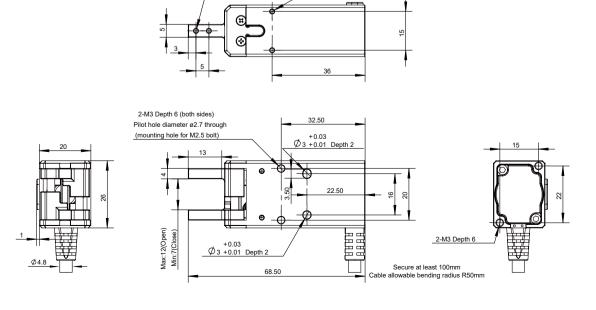
Product Parameter		
Gripping force (per jaw	v)	3.5-5 N
Stroke		5 mm
Recommended workp	iece weight *	0.05 kg
Opening/closing time		0.03 s/0.03 s
Repeat accuracy (posi	tion)	$\pm$ 0.01 mm
Noise emission		< 50 dB
Weight		0.2 kg
Driving method	Electro	omagnet + Spring
Size		.5 mm x 26 mm x 20 mm nm x 66.8 mm x 29.6 mm

<b>Working Environment</b>	
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

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

2-M2 Depth 2.5

#### **Technical Drawings**



2-M2 Through
Same on the opposite side

## PGC Series Predot winner 2021 Electric Collaborative Parallel Gripper

PGC-50-35

PGC-140-50

PGC-300-60

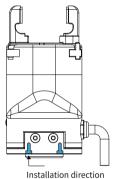


DH-Robotics PGC series of collaborative parallel electric grippers is an electric gripper mainly used in cooperative manipulators. It has the advantages of high protection level, plug and play, large load and so on. The PGC series combines precision force control and industrial aesthetics. In 2021, it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

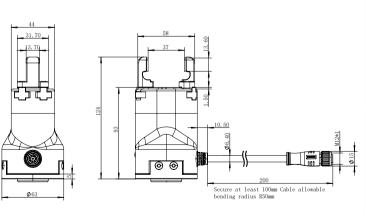
 $<sup>^*\</sup>mbox{\Large \begin{tabular}{ll} $^*\mbox{\Large \begin{tabular}{ll}$ 

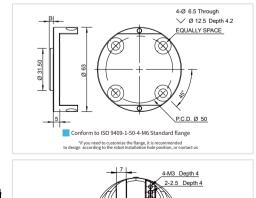
#### **Parameters**

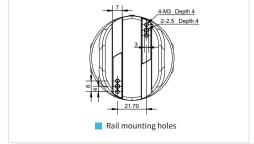
Product Parameter	
Gripping force (per jaw)	15~50 N
Stroke	37 mm
Recommended workpiece weight * <sup>0</sup>	1 kg
Opening/closing time	0.7 s/0.7 s
Repeat accuracy (position)	$\pm$ 0.03 mm
Noise emission	< 50 dB
Weight	0.5 kg
Driving method Precise planetary gears + R	ack and pinion
Size 124 mm x 63	mm x 63 mm

Working Enviro	onment	
Communication interface		rd: Modbus RTU (RS485), Digital I/O 2.0, CAN2.0A, PROFINET, EtherCAT *②
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

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







## 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

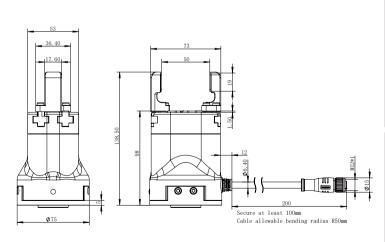
 $<sup>^*\</sup>mbox{\footnote{$^{\circ}$}}$  It depends on the shape of the grasping object, the material and friction of the contact surface,and the acceleration of the motion, If you have any questions, please contact us.

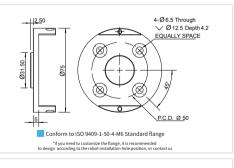
#### **Parameters**

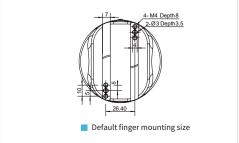
Product Paramet	ter	
Gripping force (pe	rjaw)	40~140 N
Stroke		50 mm
Recommended wo	orkpiece weight * <sup>®</sup>	3 kg
Opening/closing t	ime	0.6 s/0.6 s
Repeat accuracy (	position)	$\pm$ 0.03 mm
Noise emission		< 50 dB
Weight		1 kg
Driving method	Precise planetary gears	+ Rack and pinion
Size	138.5 mm x	75 mm x 75 mm

Working Environment					
Communication interface		ard: Modbus RTU (RS485), Digital I/O 32.0, CAN2.0A, PROFINET, EtherCAT *②			
Rated voltage		24 V DC $\pm$ 10%			
Rated current		0.4 A			
Peak current		1.0 A			
IP class		IP 67			
Recommended	d 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







 $<sup>^{\</sup>star} (\!\!\!2\!\!\!)$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## **PGC-300-60**



#### Static Vertical Allowable Load

E	z	600 N
Г	· <b>L</b>	000 11

#### Allowable Loading Moment

Mx	15 N·m
Му	15 N·m
Mz	15 N⋅m

 $<sup>^*\</sup>textcircled{1}$  . 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.

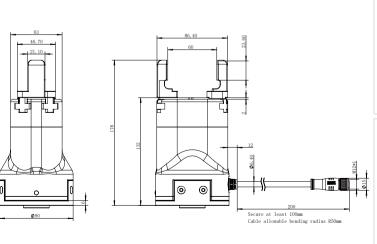
#### **Parameters**

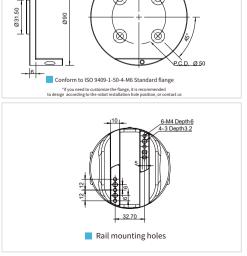
Product Parameter	
Gripping force (per jaw)	80~300 N
Stroke	60 mm
Recommended workpiece weight * ®	6 kg
Opening/closing time	0.8 s/0.8 s
Repeat accuracy (position)	$\pm$ 0.03 mm
Noise emission	< 50 dB
Weight	1.5 kg
Driving method Precise planetary gears	+ Rack and pinion
Size 178 mm x	90 mm x 90 mm

Working Environment				
Communication interface		ırd: Modbus RTU (RS485), Digital I/O 2.0, CAN2.0A, PROFINET, EtherCAT *②		
Rated voltage		24 V DC $\pm$ 10%		
Rated current		0.4 A		
Peak current		2.0 A		
IP class		IP 67		
Recommended	d environment	0~40°C, under 85% RH		
Certification		CE, FCC, RoHS		

Certification CE, FCC, RoHS					RoHS	
•	•	•	•	•	•	•
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Plug & Play	Self-locking Mechanism

#### **Technical Drawings**





4-Ø 6.5 Through ✓Ø 12.5 Depth 4.2 EQUALLY SPACE

 $\otimes$ 

 $<sup>^*(2)</sup>$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## AG Series Product award 2019 Product award 2010 Pro

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

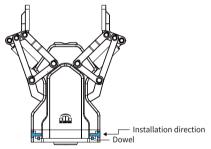


The AG series is a linkage-type adaptive electric gripper which is independently developed by DH-Robotics. With Plug& Play software many and exquisite structural design, AG series is a perfect solution to be applied with collabrative robots to grip work-pieces with different shapes in different industries.



#### 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	300	Ν
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#### **Allowable Loading Moment**

Mx	4.75 N⋅m
Му	4.75 N·m
Mz	4.75 N⋅m

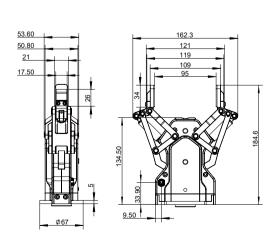
 $<sup>^*\</sup>mbox{\Large (1)}$  It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

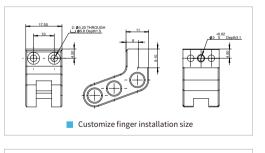
#### **Parameters**

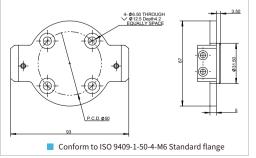
<b>Product Parameter</b>		
Gripping force (per jaw)		45~160 N
Stroke		95 mm
Recommended workpie	ce weight * <sup>®</sup>	3 kg
Opening/closing time		0.9 s/0.9 s
Repeat accuracy (position	on)	$\pm$ 0.03 mm
Noise emission		< 50 dB
Weight		1 kg
Driving method	Screw drive	+ Linkage system
Size	184.6 mm x 1	62.3 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			
Recommende	d 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







 $<sup>^*\</sup>ensuremath{{@|}}$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## AG-105-145



#### **Static Vertical Allowable Load**

Fz	200 N
1 4	300 N

#### **Allowable Loading Moment**

Mx	1.95 N⋅m
Му	1.95 N·m
Mz	1.95 N⋅m

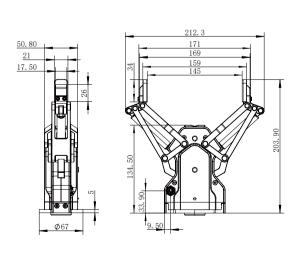
 $<sup>^*\</sup>textcircled{1}$  . It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

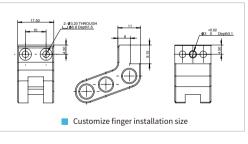
#### **Parameters**

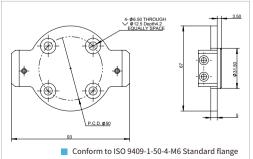
<b>Product Parameter</b>		
Gripping force (per jaw	<b>(</b> )	35~105 N
Stroke		145 mm
Recommended workpi	iece weight * <sup>①</sup>	2 kg
Opening/closing time		0.9 s/0.9 s
Repeat accuracy (posit	tion)	$\pm$ 0.03 mm
Noise emission		< 50 dB
Weight		1.3 kg
Driving method	Screw drive +	Linkage system
Size	203.9 mm x 212	2.3 mm x 67 mm

<b>Working Envir</b>	ronment	
Communication interface		rd: Modbus RTU (RS485), Digital I/O 2.0, CAN2.0A, PROFINET, EtherCAT *②
Rated voltage		24 V DC $\pm$ 10%
Rated current		0.8 A
Peak current		1.5 A
IP class		IP 54
Recommended	d 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







 $<sup>\</sup>ensuremath{^*}\xspace$  Use optional communication, need external communication conversion box, please consult the sales staff for details

Self-locking

Mechanism

## **DH-3**



#### Static Vertical Allowable Load

Fz	150 N
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#### **Allowable Loading Moment**

Mx	2.5 N⋅m
Му	2 N·m
Mz	3 N⋅m

 $<sup>^*(\</sup>underline{)}$  . 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**

<b>Product Parameter</b>		
Gripping force (per jav	v)	10∼65 N
Stroke 1	06 mm (parallel)	122 mm (centric)
Recommended workp	iece weight *®	1.8 kg
Opening/closing time		0.7 s/0.7 s
Repeat accuracy (posi	tion)	$\pm$ 0.03 mm
Noise emission		< 50 dB
Weight		1.68 kg
Driving method	Si	crew nut + gear drive + linkage mechanism
Size	213.5 mm x 1	70 mm x 118 mm

Working Environment					
Communication interface	Standard: TCP/IP, USB2.0, CAN2.0A Optional: EtherCAT*②				
Rated voltage	24 V DC $\pm$ 10%				
Rated current	0.5 A				
Peak current	1 A				
IP class	IP 40				
Recommended environmen	nt 0~40°C, under 85% RH				
Certification	CE, FCC, RoHS				
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Speed

Adjustable

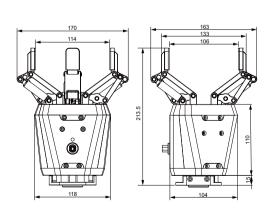
Drop

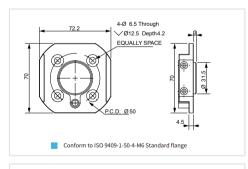
Detection

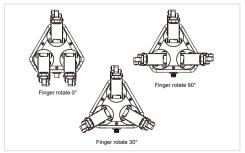
Plug &

Play

### Technical Drawings







Build-in

Controller

Gripping Force

Adjustable

Position

Adjustable

 $<sup>^{\</sup>star} \ @$  Use optional communication, need external communication conversion box, please consult the sales staff for details

## **CG Series Electric Centric Gripper**

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

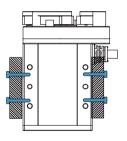


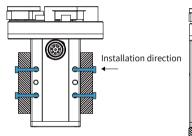
The CG series is a three-finger centric gripper independently developed by DH-Robotics. The three-finger gripping method can better cope with the grasping task of cylindrical workpieces. The CG series is available in a variety of models for a variety of scenarios, stroke and end devices.

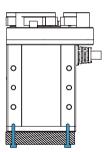


#### Installation

- 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
1 4	130 14

#### **Allowable Loading Moment**

Mx	0.62 N·m
Му	0.62 N·m
Mz	0.62 N⋅m

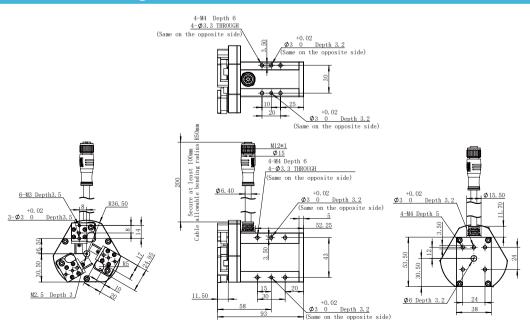
 $<sup>^*\</sup>mbox{\Large \begin{tabular}{l} $^*\mbox{\Large \begin{tabular}{l} $0$} \mbox{\Large \begin{tabular}{l} $t$} \mbox{\Large \begin{tabular}{l} $$ 

#### **Parameters**

Product Parameter	
Gripping force (per jaw)	3~10 N
Stroke	10 mm
Recommended workpiece w	eight * <sup>®</sup> 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 planeta	ary gear reducer + Rack and pinion
Size	94 mm x 53.5 mm x 38 mm

Working Environment				
Communication interface	rd: Modbus RTU (RS485), Digital I/O 2.0, CAN2.0A, PROFINET, EtherCAT *②			
Rated voltage		24 V DC $\pm$ 10%		
Rated current		0.3 A		
Peak current		0.6 A		
Recommende	d environment	0~40°C, under 85% RH		
Certification		CE, FCC, RoHS		

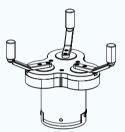
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Build-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism



<sup>\*</sup>② Use optional communication, need external communication conversion box, please consult the sales staff for details

## 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.

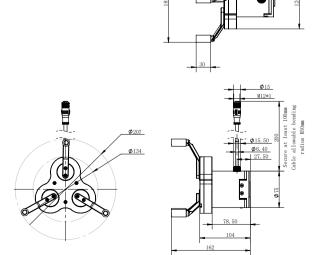
- $^{\star} \boxdot$  It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.
- \*② Use optional communication, need external communication conversion box, please consult the sales staff for details

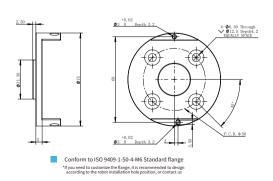
#### **Parameters**

Product Parameter				
Gripping force (per jaw)	30~100 N			
Recommended workpiece diameter (inward)	ф40~ф170 mm			
Recommended workpiece weight * <sup>0</sup>	1.5 kg			
Opening/closing time	0.5 s/0.5 s			
Repeat accuracy (position)	$\pm$ 0.03 mm			
Noise emission	< 50 dB			
Weight	1.5 kg			
Driving method Precise planetary gears	s + Rack and pinion			
Size 158.4 mm x 124.35 mm x 116 mm(without brak	e/with brake, same size)			

Working Environment				
Communication interface				
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 $ imes$
Build-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism





## **CGC-80-10**



#### Static Vertical Allowable Load

F-	200 N
<b>⊢</b> Z	200 N

#### Allowable Loading Moment

Mx	2.5 N·m
Му	2 N·m
Mz	3 N⋅m

 $<sup>^*</sup>$ ① 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.

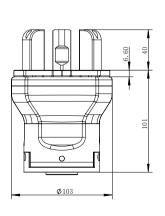
#### **Parameters**

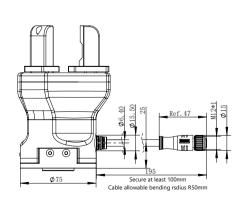
Product Parameter	
Gripping force (per jaw)	20~80 N
Single jaw	10 mm
Recommended workpiece wei	ght * <sup>0</sup> 1.5 kg
Opening/closing time	0.2 s/0.2 s
Repeat accuracy (position)	$\pm$ 0.03 mm
Noise emission	<50 dB
Weight	1.5 kg
Driving method Precise planetary	gear reducer + Rack and pinion
Size 1	41 mm x 103 mm x 75 mm

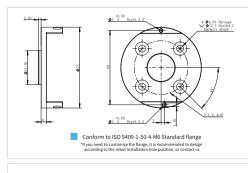
Working Environment			
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT *♡		
Rated voltage	24 V DC $\pm$ 10%		
Rated current	0.3 A		
Peak current	1 A		
IP class	IP 67		

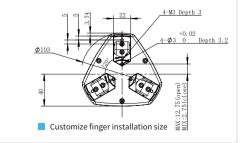
Recommended environment 0~40°C, under 85% RH
Certification CE, FCC, RoHS

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









<sup>\*</sup>② Use optional communication, need external communication conversion box, please consult the sales staff for details

## **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

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## **Our Customers**

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













































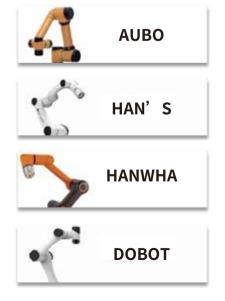






## **Our Eco-Partners**

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







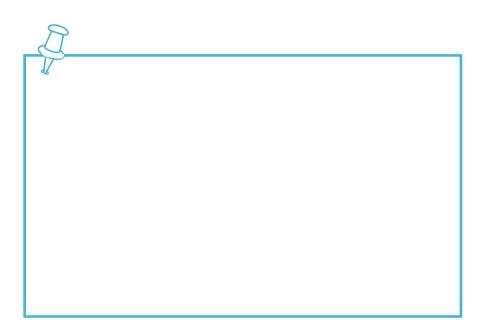
# DH-ROBOTICS

is committed to provide first-class core components of precision motion control.









## **DH-Robotics Technology Co.,Ltd.**



en.dh-robotics.com info@dh-robotics.com

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