

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

CONTENTS

5 **Applications** 8 Selection Reference **Products Brief Parameters** 10

PGE Series

PGE-50-40

PGE-100-26

Slim-type Electric **Parallel Gripper**



PGE-2-12	14
PGE-5-26	15
PGE-8-14	16
PGE-15-10	17
PGE-15-26	18
PGE-50-26	19

PGSE Series

Slim-type Electric **Parallel Gripper**



PGSE-15-7 23

RGI Series

Electric Rotary Gripper



20

21

RGIC-35-12	25
RGIC-100-35	26
RGI-100-14	27
RGI-100-22	28
RGI-100-30	29

RGD Series

Electric Direct Drive Rotaty Gripper



RGD-5-14	31
RGD-5-30	32
RGD-35-14	33
RGD-35-30	34



PGI Series

Electric Parallel Gripper



PGI-140-80 36

PGHL Series

Electric Parallel Gripper



PGHL-400-80 38

PGS Series

Miniature Electromagnetic Gripper



PGS-5-5 40

PGC Series

Electric Collaborative Parallel Gripper



PGC-50-35 42 PGC-140-50 43 PGC-300-60 44

AG Series

Electric Adaptive Gripper



AG-160-95	46
AG-105-145	47
DH-3	48

CG Series

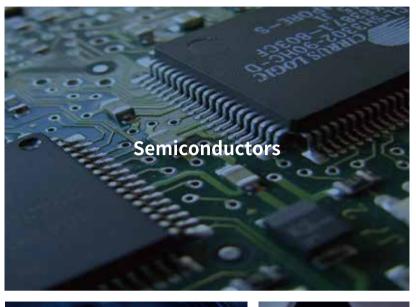
Electric Centric Gripper



CGE-10-10	50
CGI-100-170	51
CGC-80-10	52

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 tableOur gripper can directly connect to the end interface of each brand of collaborative robot through a short wire. (The serial number represent the short wire type.)

Support electric gripper models	UR CB Series	UR E Series	Elite CS Series	SIASUN	Hanwha A Series	ROKAE CR Series	DOBOT CR Series	DOBOT Nova Series	Aubo	Elephant	Jaka	ECHMAN	ROKAE SR Series	ROKAE ER Series	DOBOT MG400	UR E Series	Doosan A Series	Doosan M Series	Elite EC Series	Han's Robot	Neuromeka	FAIRINO	Hanwha HCR	UF xArm
Small current electric gripper (Peak current≤0.6A)	01																							
Small current electric gripper (Peak current<1.5A)		01	01	01	01				02	03	04	05	06	06	07									
High current electric claw (Peak current>1.5A)																08								
In common (Support large and small current electric gripper)						01	01	01									09	10	11	12	13	14	15	16

DH-Robotics' Gripper and Cylinder Communication Protocol Conversion BoxThe 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
TE .	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
				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
- 3 clamp 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









PGE-5-26

PGE-8-14

















All-in-one Design

Adjustable Parameters

Intelligent Feedback

Replaceable Fingertip

Self-locking Mechanism

PGE-15-10 PGE-15-26 PGE-50-26 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
PGE-100-26	30~100	2	26	0.5	IP40

PGSE Series Slim-type Electric Parallel Gripper

Small Size

Fast Response









Replaceable **Fingertip**



PGE-15-7

PGSE-15-7

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

Dual Servo System

Compact Type



All-in-one Design



Adjustable **Parameters**



Intelligent Feedback



Replaceable Fingertip



RGIC-35-12



RGIC-100-35







RGI-100-22



RGI-100-30

RGIC-35-12
RGIC-100-35
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	
4	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

 \circ

Adjustable Parameters



Intelligent Feedback



Replaceable Fingertip



Self-locking Mechanism



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
RGD-5-14	2~5.5	0.05	14	0.5	IP40
RGD-5-30	2~5.5	0.05	30	0.5	IP40
RGD-35-14	10~35	0.35	14	0.5	IP40
RGD-35-30	10~35	0.35	30	0.7	IP40

PGI Series

Electric Parallel Gripper



High Protection Grade

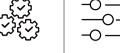
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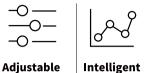
Long Stroke



All-in-one

Design





Feedback







Replaceable Fingertip

Self-locking Mechanism

PGI-140-80

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







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



DH-3

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



CGE-100-170



CGC-80-10

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	
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 PGE-15-10 PGE-100-26

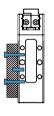


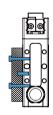
The PGE series is an industrial slim-type electric parallel gripper. With its precise force control, compact size and highly working speed, it has become a "Hot sell product" in the field of industrial electric gripper.

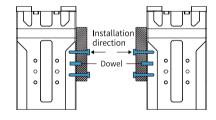
Installation

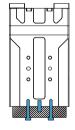


- 1. Front installation: use front screw holes for installation
- 2. Rear installation: use rear screw holes for installation
- 3. Right installation: use right screw holes for installation
- 4. Left installation: use left screw holes for installation
- 5. Bottom installation: use bottom screw holes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



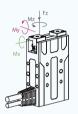


Application

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	Ν

Allowable Loading Moment

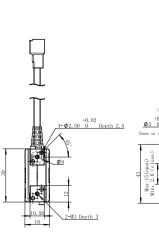
Mx	0.2 N⋅m
Му	0.17 N·m
Mz	0.2 N·m

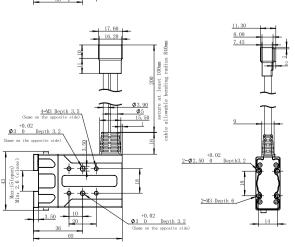
 $^{^*\}mbox{\Large 0}$. It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

Parameters

Product Paramet	er	
Gripping force (pe	rjaw)	0.8~2 N
Stroke		12 mm
Recommended wo	orkpiece weig	ht * [©] 0.05 kg
Opening/closing t	ime	0.15 s/0.15 s
Repeat accuracy (oosition)	\pm 0.02 mm
Noise emission		< 40 dB
Weight		0.15 kg
Driving method	Rack and p	inion + Cross roller guide
Size		r Size:65 mm x 39 mm x 18 mm ze:78 mm x 52.4 mm x 27.2 mm
Working Environ	ment	
Communication interface		dard: Modbus RTU (RS485), Digital I/O JSB2.0, CAN2.0A, PROFINET, EtherCAT *②
Rated voltage		24 V DC \pm 10%
Rated current		0.2 A
Peak current		0.5 A
IP class		IP 40
Recommended en	vironment	0~40°C, under 85% RH
Certification		CE, FCC, RoHS

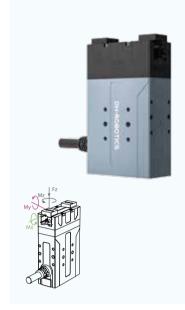
×	•	•	•	•	×
Built-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism





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

PGE-5-26



Static Vertical Allowable Load

F	Z	50	Ν

Allowable Loading Moment

Mx	0.3 N·m
Му	0.25 N⋅m
Mz	0.3 N·m

 $^{^*\}mbox{\Large \begin{tabular}{ll} $^*\mbox{\Large \begin{tabular}{ll}$

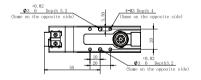
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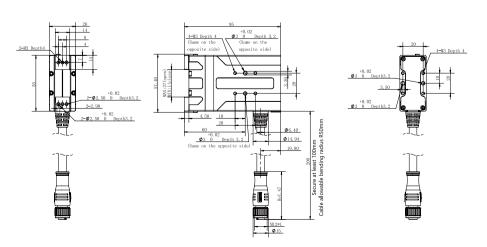
er	
jaw)	0.8~5 N
Stroke	
rkpiece weight * [®]	0.1 kg
me	0.3 s/0.3 s
osition)	\pm 0.02 mm
	< 40 dB
	0.4 kg
Rack and pinion +	Cross roller guide
	n x 26 mm(without brake) mm x 30 mm(with brake)
	95 mm x 55 mr

Working Environ	ment		
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		0.4 A	
Peak current		0.7 A	
IP class		IP 40	
Recommended en	vironment	0~40°C, under 85% RH	
Certification		CE, FCC, RoHS	_

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

Technical Drawings





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

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

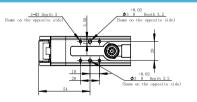
 $^{^*\}mbox{\Large 0}$. It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

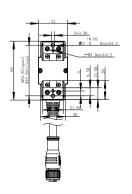
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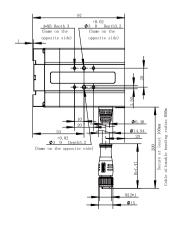
Product Paramete	er	
Gripping force (per	jaw)	2~8 N
Stroke		14 mm
Recommended wo	rkpiece weight * [®]	0.1 kg
Opening/closing tir	Opening/closing time	
Repeat accuracy (p	osition)	\pm 0.02 mm
Noise emission		< 40 dB
Weight		0.4 kg
Driving method	Rack and pinion + C	ross roller guide
Size	97 mm x	62 mm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

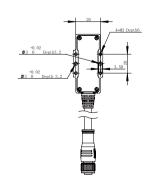
Working Enviro	Working Environment			
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT *◎			
Rated voltage	24 V DC \pm 10%			
Rated current	0.4 A			
Peak current	0.7 A			
IP class	IP 40			
Recommended e	nvironment 0~40°C, under 85%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

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









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

PGE-15-10



Static Vertical Allowable Load

F	Z	35 N

Allowable Loading Moment

0.45 N·m
0.4 N·m
0.45 N⋅m

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

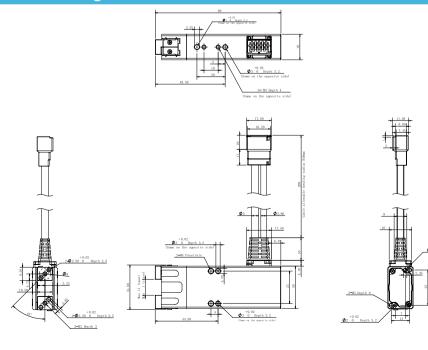
Parameters

Product Parame	ter	
Gripping force (pe	erjaw)	6~15 N
Stroke		10 mm
Recommended w	orkpiece weight * [®]	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

W	or	kir	ng	En	vir	oni	men	t

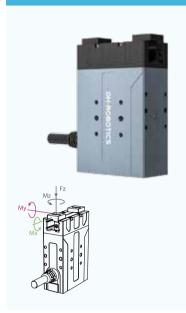
WOIKING LIIVIIOIII	illelit	
Communication interface		dard: Modbus RTU (RS485), Digital I/O ISB2.0, CAN2.0A, PROFINET, EtherCAT *◎
Rated voltage		24 V DC \pm 10%
Rated current		0.1 A
Peak current		0.22 A
IP class		IP 40
Recommended en	vironment	0~40°C, under 85% RH
Certification		CE, FCC, RoHS

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



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

PGE-15-26



Static Vertical Allowable Load

Fz 7

Allowable Loading Moment Mx 0.9 N·m

MIX	0.5 11 111
Му	0.75 N⋅m
M 7	0 9 N·m

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

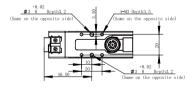
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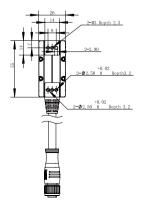
Product Parame	ter	
Gripping force (pe	er jaw)	6~15 N
Stroke		26 mm
Recommended w	orkpiece weight * [©]	0.25 kg
Opening/closing	time	0.5 s/0.5 s
Repeat accuracy	(position)	\pm 0.02 mm
Noise emission		< 40 dB
Weight		0.33 kg
Driving method	Precise planetary gears	Rack and pinion
Size		26 mm(without brake)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

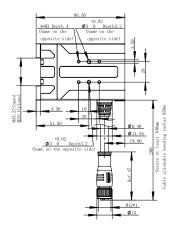
Working Enviror	nment
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT *◎
Rated voltage	24 V DC \pm 10%
Rated current	0.25 A
Peak current	0.5 A
IP class	IP 40
Recommended e	nvironment 0~40°C, under 85% RH
Certification	CE, FCC, RoHS

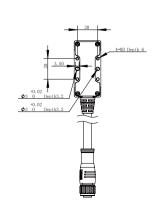
•	•	•	•	•	•×
Built-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism

Technical Drawings









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

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

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

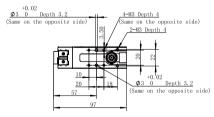
Parameters

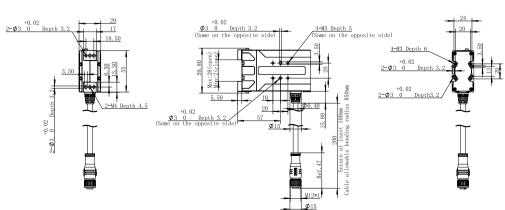
Product Parame	ter	
Gripping force (pe	erjaw)	15~50 N
Stroke		26 mm
Recommended w	orkpiece weight * [®]	1 kg
Opening/closing	time	0.45 s/0.45 s
Repeat accuracy	(position)	\pm 0.02 mm
Noise emission		< 40 dB
Weight		0.4 kg
Driving method	Precise planetary gears	Rack and pinion
Size		29 mm(without brake) n x 29 mm(with brake)

Working Enviro	Working Environment			
Communication interface		nndard: Modbus RTU (RS485), Digital I/O , USB2.0, 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 40		
Recommended e	environment	0~40°C, under 85% RH		
Certification		CE, FCC, RoHS		

•	•	•	•	•	$ullet$ \times
Built-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism

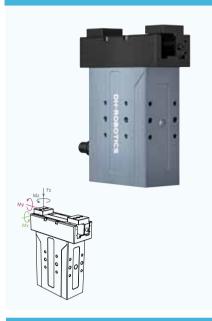
Technical Drawings





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

PGE-50-40



Static Vertical Allowable Load

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

Allowable Loading Moment

Mx	2.5 N⋅m
Му	2 N·m
Mz	3 N⋅m

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

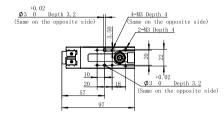
Parameters

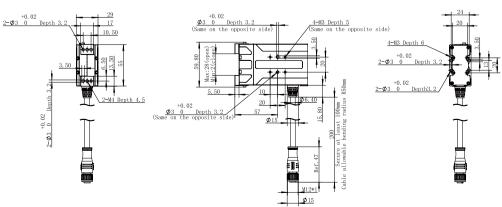
Product Parame	eter	
Gripping force (p	erjaw)	15~50 N
Stroke		40 mm
Recommended w	vorkpiece weight * [⊕]	1 kg
Opening/closing	Opening/closing time	
Repeat accuracy	(position)	\pm 0.02 mm
Noise emission		< 40 dB
Weight		0.51 kg
Driving method	Precise planetary gears +	Rack and pinion
Size		29 mm(without brake) n 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 er	nvironment 0~40°C, under 85% RH		
Certification	CE, FCC, RoHS		

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

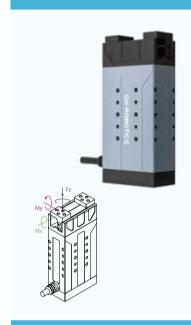
Technical Drawings





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

PGE-100-26



Static Vertical Allowable Load

F	-	150	ĸi
г	Z	130	IN

Allowable Loading Moment

Mx	2.5 N·m
Му	3 N⋅m
Mz	4 N·m

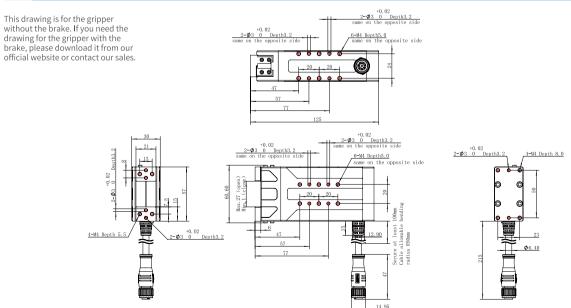
 $^{^* \}mbox{\Large \begin{tabular}{l} $^* \mbox{\Large \begin{tabular}{l} 0} \mbox{\Large \begin{tabular}{l} t depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.$

Parameters

Product Parameter	
Gripping force (per jaw)	30~100 N
Stroke	26 mm
Recommended workpiece wei	ght * [®] 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 plane	tary gears + Rack and pinion
Size 1	.25 mm x 57 mm x 30 mm

Working Environ	ment	
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		0.3 A
Peak current		1.2 A
IP class		IP 40
Recommended er	nvironment	0~40°C, under 85% RH
Certification		CE, FCC, RoHS

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



 $[\]ensuremath{^*}\xspace$. Use optional communication, need external communication conversion box, please consult the sales staff for details

PGSE Series Slim-type Electric Parallel Gripper

PGSE-15-7

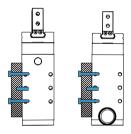


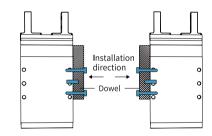
The PGSE Industrial Parallel Gripper is a miniature electric gripper specifically designed to meet the demand for quick grasping in narrow and compact installation spaces in industrial settings.

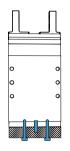
Installation



- 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

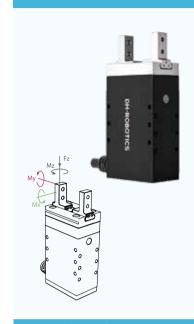
The gripper body of the PGSE model provides multiple mounting options, allowing for versatile installation in compact spaces. Coupled with its compact size, it facilitates easy installation in tight spaces.

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

Allowable Loading Moment

Mx	0.9 N·m
Му	0.75 N⋅m
Mz	0.9 N⋅m

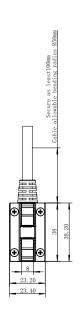
 $^{^*\}mbox{\Large \begin{tabular}{l} $^*\mbox{\Large \begin{tabular}{l} 0} \mbox{\Large \begin{tabular}{l} t} \mbox{\Large \begin{tabular}{l} $$

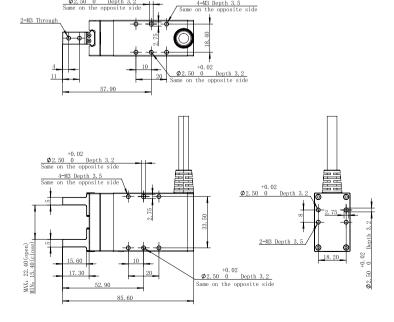
Parameters

Product Parame	ter	
Gripping force (po	er jaw)	6~15 N
Stroke		7 mm
Recommended w	vorkpiece weight * [∞]	0.25 kg
Opening/closing	Opening/closing time	
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 envir	onment 0~40°C, under 85% RH
Certification	CE, FCC, RoHS

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





 $^{^{\}star} @$ 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

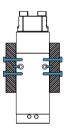


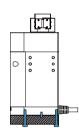
RGI series is the first fully self-developed infinite rotating gripper with a compact and precise structure on the market. It is widely applied in medical automation industry to grip and rotate the test tubes as well as other industries like electronics and New energy industry.

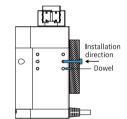


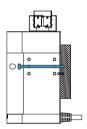
Installation

- 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 $10 \, \text{mix} \, 1$ and $20 \, \text{mix} \, 1$ size tubes to meet the needs of large-scale nucleic acid sampling.

RGIC-35-12



Static Vertical Allowable Load

Fz	100 N
Allowable Loading Mo	oment

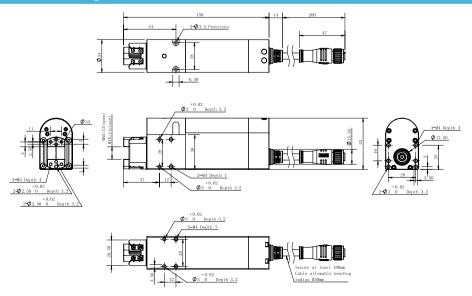
Mx 1.5 N⋅m My 1.1 N⋅m

 $2.1~N\cdot m$

Μz

Parameters

Product Parameter				
Gripping force (per jaw)	13~35 N			
Stroke	12 mm			
Rated torque	0.2 N⋅m			
Peak torque	0.5 N⋅m			
Rotary range	Infinite Rotating			
Recommended workpiece weight	* [⊙] 0.5 kg			
Max. rotation speed	2160 °/s			
Repeat accuracy (swiveling)	± 0.05 °			
Repeat accuracy (position)	\pm 0.02 mm			
Opening/closing time	0.6 s/0.6 s			
Weight	0.64 kg			
Size	150 mm x 53 mm x 34 mm Rotaty Diameter:33mm			
Working Environment				
	ard: Modbus RTU (RS485), Digital I/O 32.0, CAN2.0A, PROFINET, EtherCAT* ^②			
Rated voltage	24 V DC \pm 10%			
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			
Built-in Gripping Force Position Speed Controller Adjustable Adjustable I	Drop Rotary Self-locking Adjustable Mechanism			



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

 $^{^*}$ ② Use optional communication, need external communication conversion box, please consult the sales staff for details

RGIC-100-35



Static Vertical Allowable Load

200 N

2.5 N·m

Allowable Loading Moment		
Mx	3 N·m	
Му	3 N⋅m	

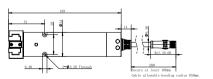
Fz

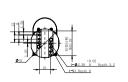
Μz

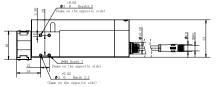
Parameters

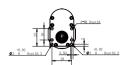
Product Parameter	
Gripping force (per jaw)	40~100 N
Stroke	35 mm
Rated torque	0.35 N·m
Peak torque	1.5 N⋅m
Rotary range	Infinite Rotating
Recommended workpiece weight * [®]	1 kg
Max. rotation speed	1400 °/s
Repeat accuracy (position)	\pm 0.02 mm
Opening/closing time	0.9 s/0.9 s
Weight	0.65 kg
Size	159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

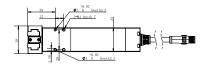
Working Environment						
	Communication Standard: Modbus RTU (RS485), Digital I/C interface Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT					
Rate	d voltage			2	24 V DC ±	: 10%
Rate	d current					2.0 A
Peak current 5.0 A					5.0 A	
IP class IP 40					IP 40	
Recommended environment 0~40°C, under 85% RH					% RH	
Certification CE, FCC, RoHS					RoHS	
•	•	•	•	•	•	×
Built-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism











 $^{^*}$ 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.

^{*}② Use optional communication, need external communication conversion box, please consult the sales staff for details

RGI-100-14



Static Vertical Allowable Load

Allowable Loading Moment

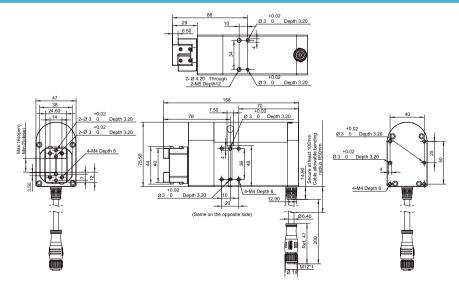
 Mx
 2.5 N⋅m

 My
 3 N⋅m

 Mz
 4 N⋅m

Parameters

Prod	uct Para	meter				
Gripping force (per jaw)				30~100 N		
Strok	се			14 mm		
Rate	d torque			0.5 N⋅m		
Peak	torque			1.5 N⋅m		
Rota	ry range			Infinite Rotating		
Reco	mmende	d workpie	ece weigh	nt * ¹⁾	-	1.5 kg
Мах.	rotation s	speed			21	60 °/s
Repe	at accura	cy (swive	ling)		土	0.05°
Repeat accuracy (position) \pm 0.02 m			2 mm			
Oper	Opening/closing time			0.6 s/0.6 s		
Weight				1.28 kg		
Size 158 mm x 75.5 mm x 47 mm Rotaty Diameter:47.1mm						
Working Environment						
Comm interfa	unication ice	Ор			RTU (RS485), D A, PROFINET, E	
Rate	d voltage			2	24 V DC ±	10%
Rate	d current					1.0 A
Peak	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, RoHS			RoHS			
Built-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	X Self-locking Mechanism



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

 $^{^*}$ 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

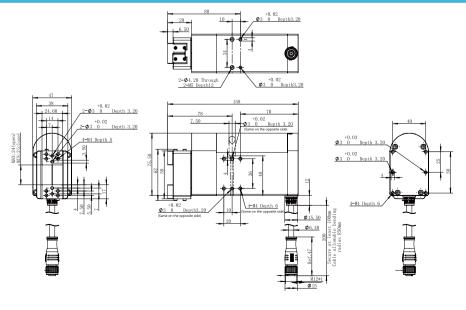
 Mx
 3.5 N⋅m

 My
 4 N⋅m

 Mz
 5.5 N⋅m

Parameters

Prod	uct Para	meter					
Gripp	Gripping force (per jaw) 30~100 N				100 N		
Strok	ке				22 mm		
Rated	d torque				0.5	N·m	
Peak	torque				1.5	N·m	
Rotai	ry range			In	finite Rot	ating	
Reco	mmende	d workpie	ece weigh	ıt * ¹⁾		1.5 kg	
Мах.	rotation s	peed			21	60 °/s	
Repe	at accura	cy (swive	ling)		±	0.05°	
Repe	Repeat accuracy (position) \pm 0.02 mm			2 mm			
Open	Opening/closing time 0.65 s/0.65 s			0.65 s			
Weig	Weight 1.4 kg			1.4 kg			
Size	Size 158 mm x 75.5 mm x 47 mm Rotaty Diameter:67.1mm						
Work	king Envi	ronment	:				
Comm interfa	unication ice	Ор	Sta tional: TCP/IP, I		RTU (RS485), D A, PROFINET, E		
Rated	d voltage			2	24 V DC ±	10%	
Rated	Rated current 1.0 A						
Peak	Peak current 4.0 A						
IP cla	IP class IP 40						
Recommended environment 0~40°C, under 85% RH							
Certi	Certification CE, FCC, RoHS						
Built-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	X Self-locking Mechanism	



^{*}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.

^{*}② Use optional communication, need external communication conversion box, please consult the sales staff for details

RGI-100-30



Static Vertical Allowable Load

250 N

Allowable Lo	ading Moment
Mv	4 5 N · m

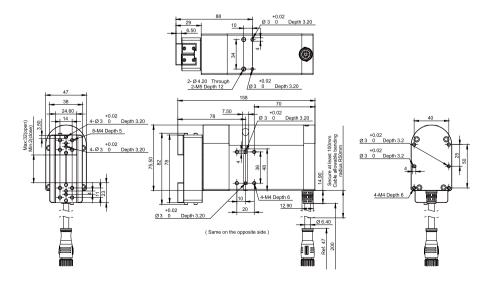
Fz

My 5 N⋅m

Mz 7 N⋅m

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			Infinite Rotating			
Reco	mmende	d workpie	ece weigh	nt * ®	-	1.5 kg	
Мах.	rotation s	speed			21	60 °/s	
Repe	at accura	cy (swive	ling)		土	0.05°	
Repeat accuracy (position) ± 0.02 mr				2 mm			
Oper	Opening/closing time			0.7 s/0.7 s			
Weight				1.5 kg			
Size 158 mm x 75.5 mm x 47 Rotaty Diameter:84.8							
Working Environment							
Comm interfa	nunication ace	Ор			RTU (RS485), E A, PROFINET, E		
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			
Recommended environment 0~40°C, under 85% RH				% RH			
Certi	fication				CE, FCC,	RoHS	
Built-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	X Self-locking Mechanism	



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

 $^{^*}$ ② Use optional communication, need external communication conversion box, please consult the sales staff for details

RGD Series Electric Direct Drive Rotaty Gripper

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

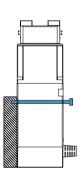


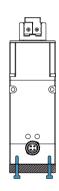
The RGD direct-drive electric rotary gripper of DH-Robotics adopts a direct-drive backlash-free rotation module to improve the rotary accuracy, and thus is perfectly suited for high-precision manufacturing applications.



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 DesignPower-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

150 N

Allowable Loading Moment

Mx	2 N·m
Му	1.5 N·m
Mz	2.5 N⋅m

a. The peak torque can be increased to a maximum of 0.5 N·m. For specific details, please consult with technical support personnel.

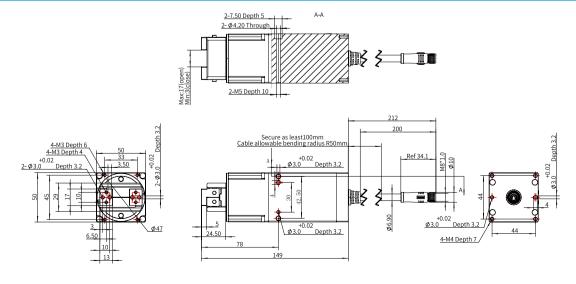
b. The gripping force on objects depends on factors such as the shape of the object, the material and friction of the contact surface, and the acceleration of movement. The displacement of the center of gravity of the grasped object can also affect the load. If you have any questions, please contact us.

c. When using the optional communication protocol, an external communication box is required. For details, you can consult with our sales representatives.

d. It is recommended to power the device with a power supply that matches the peak current. In cases where the power supply is insufficient, there is a possibility of unintentional triggering of the brake.

Parameters

Product Parameter	
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 Rotating
Recommended workpiece weight *®	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 b	rake) 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 V DC \pm 10%
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
11 0	Orop Rotary Self-locking Mechanism



RGD-5-30



Static Vertical Allowable Load

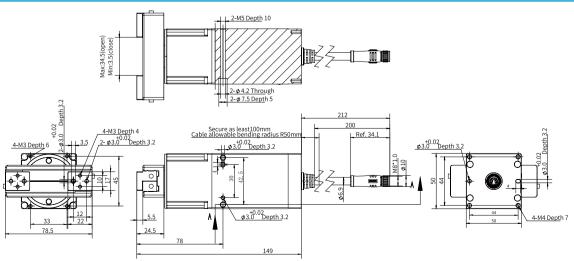
Fz	150	Ν

Allowable Loading Moment

Mx	2 N·m
Му	1.5 N⋅m
Mz	2.5 N·m

Parameters

Product Parameter			
Gripping force (per jaw)	2-5.5 N		
Stroke	30 mm		
Rated torque	0.1 N·m		
Peak torque * [®]	0.25 N⋅m		
Rotary range	Infinite Rotating		
Recommended workpiece weight	.* [®] 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 mm x 50 mm Rotaty Diameter:83.6mm		
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 environment	0~40°C, under 85% RH		
Certification	CE, FCC, RoHS		
Built-in Gripping Force Position Speed Controller Adjustable Adjustable Adjustable	Drop Rotary Self-locking Mechanism		



a. The peak torque can be increased to a maximum of 0.5 N·m. For specific details, please consult with technical support personnel.

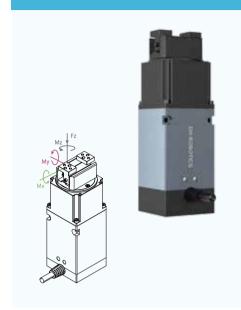
b. The gripping force on objects depends on factors such as the shape of the object, the material and friction of the contact surface, and the acceleration of movement. The displacement of the center of gravity of the grasped object can also affect the load. If you have any questions, please contact us.

contact us.

c. When using the optional communication protocol, an external communication box is required. For details, you can consult with our sales representatives.

d. It is recommended to power the device with a power supply that matches the peak current. In cases where the power supply is insufficient, there is a possibility of unintentional triggering of the brake.

RGD-35-14



Static Vertical Allowable Load

F:	7	150	N
		100	

Allowable Loading Moment

Mx	2 N·m
Му	1.5 N·m
Mz	2.5 N·m

a. The peak torque can be increased to a maximum of 0.5 N·m. For specific details, please consult with technical support personnel.

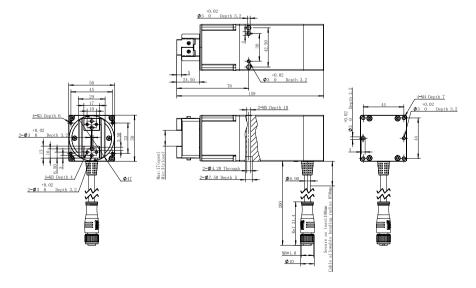
b. The gripping force on objects depends on factors such as the shape of the object, the material and friction of the contact surface, and the acceleration of movement. The displacement of the center of gravity of the grasped object can also affect the load. If you have any questions, please contact us.

c. When using the optional communication protocol, an external communication box is required. For details, you can consult with our sales representatives.

d. It is recommended to power the device with a power supply that matches the peak current. In cases where the power supply is insufficient, there is a possibility of unintentional triggering of the brake.

Parameters

Prod	uct Para	meter					
Gripp	Gripping force (per jaw)				10-35 N		
Strok	Stroke				14 mm		
Rate	Rated torque				0.1 N·m		
Peak	Peak torque *®				0.25 N⋅m		
Rota	ry range			l	Infinite Rotating		
Reco	Recommended workpiece weight *®			nt *®	0.35 kg		
Мах.	Max. rotation speed				1500°/s		
Rota	Rotary backlash				Zero backlash		
Repe	Repeat accuracy (swiveling)				± 0.1 °		
Repe	Repeat accuracy (position)				± 0.0	2 mm	
Oper	Opening/closing time				0.5 s	/0.5 s	
Weig	Weight 0.86 kg(without br			out brake)	ake) 0.88 kg(with brake)		
Size	Size 159 mm x 50 mm x 50 mm Rotaty Diameter:48.7mm						
Work	king Envi	ronment					
Com	Communication interface Modbus RTU (RS485)				RS485)		
Rate	Rated voltage 24 V DC \pm 10%						
Rate	Rated current 1.2 A					1.2 A	
Peak current 2.5 A				2.5 A			
IP class IP 40				IP 40			
Reco	Recommended environment 0~40°C, under 85% RH					% RH	
Certi	Certification CE, FCC, RoHS					RoHS	
Built-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Rotary Adjustable	Self-locking Mechanism	



RGD-35-30



Static Vertical Allowable Load

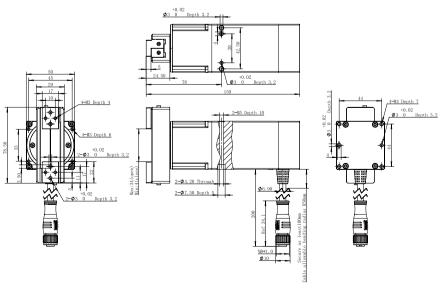
F	z	1	5(0	N	

Allowable Loading Moment

Mx	2 N·m
Му	1.5 N·m
Mz	2.5 N·m

Parameters

Product Parameter				
Gripping force (per jaw)		10-35 N		
Stroke		30 mm		
Rated torque		0.1 N·m		
Peak torque * [®]		0.25 N⋅m		
Rotary range		Infinite Rotating		
Recommended workpi	ece weight *®	0.35 kg		
Max. rotation speed		1500 °/s		
Rotary backlash	Rotary backlash			
Repeat accuracy (swiveling) \pm 0.1 $^{\circ}$				
Repeat accuracy (position) \pm 0.02 r				
Opening/closing time		0.7 s/0.7 s		
Weight	1 kg(without brak	ke) 1.02 kg(with brake)		
Size		159 mm x 50 mm x 50 mm Rotaty Diameter:83.6mm		
Working Environment	:			
Communication interfa	ce M	lodbus RTU (RS485)		
Rated voltage 24 V DC \pm 10%				
Rated current 1.2 A				
Peak current	Peak current 2.5 A			
IP class		IP 40		
Recommended enviror	ment 0~4	ŀ0°C, under 85% RH		
Certification		CE, FCC, RoHS		
Built-in Gripping Force Position Controller Adjustable Adjustable	Speed Dr. Adjustable Dete	op Rotary Self-locking Adjustable Mechanism		



a. The peak torque can be increased to a maximum of 0.5 N · m. For specific details, please consult with technical support personnel.
b. The gripping force on objects depends on factors such as the shape of the object, the material and friction of the contact surface, and the acceleration of movement. The displacement of the center of gravity of the grasped object can also affect the load. If you have any questions, please contact us.
c. When using the optional communication protocol, an external communication box is required. For details, you can consult with our sales representatives.
d. It is recommended to power the device with a power supply that matches the peak current. In cases where the power supply is insufficient, there is a possibility of unintentional triggering of the brake.

PGI Series Electric Parallel Gripper

PGI-140-80

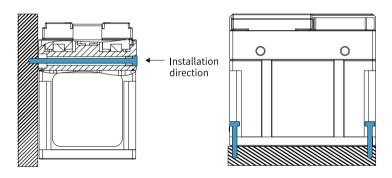


Based on the industrial requirements of "long stroke, high load, and high protection level", DH-Robotics independently developed the PGI series of industrial electric parallel gripper. The PGI series is widely used in various industrial scenarios with positive feedback.



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

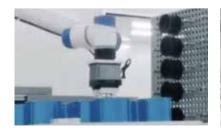
Long stroke reach to 80 mm. With the customization fingertips, it can stably grasp the medium and large objects below 3kg and suitable for lots of industrial scenes.

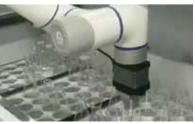
High Protection Level

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.



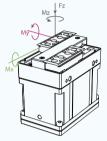


Application

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

F	z	300	N
•	_	500	

Allowable Loading Moment

Mx	7 N⋅m
Му	7 N⋅m
Mz	7 N⋅m

 $^{^{\}star} \ \, \bigcirc \,$ 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

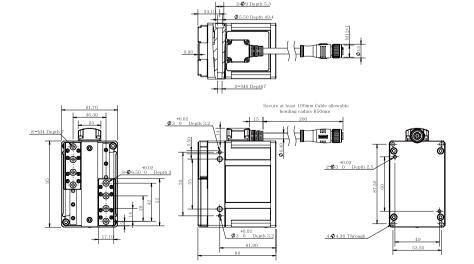
Product Parame	ter			
Gripping force (pe	erjaw)		40~140 N	
Stroke			80 mm	
Recommended w	orkpiece weight	* ①	3 kg	
Opening/closing	time		1.1 s/1.1 s	
Repeat accuracy	(position)		\pm 0.03 mm	
Noise emission			< 50 dB	
Weight		1 kg (exc	lude fingers)	
Driving method	Precise planetary	gears + Ra	ck and pinion	
Size	95 m	nm x 67.1 r	mm x 86 mm	

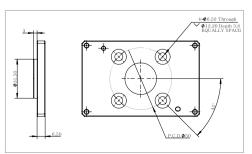
Working Environment				
Communication interface		rd: Modbus RTU (RS485), Digital I/O 2.0, CAN2.0A, PROFINET, EtherCAT *②		
Rated voltage		24 V DC \pm 10%		
Rated current		0.5 A		
Peak current		1.2 A		
IP class		IP 54		
Recommende	d environment	0~40°C, under 85% RH		
Certification		CE, FCC, RoHS		

Speed

Adjustable

Technical Drawings





Drop

Detection

Self-locking

Mechanism

Built-in

Controller

Gripping Force

Adjustable

Position

Adjustable

 $^{^\}star @$ 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

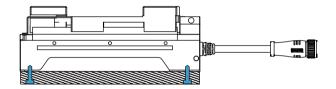


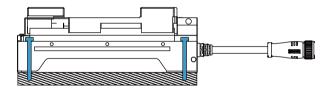
PGHL series is an industrial flat electric gripper developed and produced by DH-Robotics. With its compact design, heavy load and high force control accuracy, it can be applied to heavier load clamping requirements and more application scenarios.



Installation

Bottom installation: use bottom screw holes for installation





Product Features

Flat Electric Gripper High 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

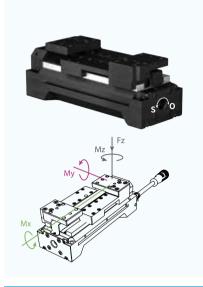


Application

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.

CG Series

PGHL-400-80



Static Vertical Allowable Load

Fz	1000 N
1 4	100014

Allowable Loading Moment

Mx	50 N⋅m
Му	50 N⋅m
Mz	15 N·m

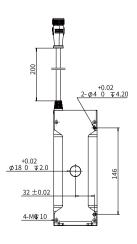
 $^{^*\}bigcirc$. It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

Parameters

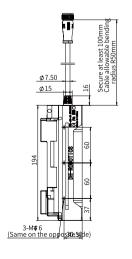
Product Parameter	
Gripping force (per jaw)	140~400 N
Stroke	80 mm
Recommended workpiece	weight * [®] 8 kg
Opening/closing time	1.0 s/ 1.1 s
Repeat accuracy (position)	\pm 0.02 mm
Weight	2.2 kg
Driving method	Precise planetary gears + Tshaped lead screw+Rack and pinion
Size	194 mm x 73 mm x 70 mm

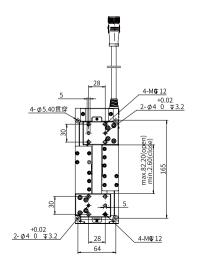
Working Environment			
Communication interface Optional: To	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT *®		
Rated voltage	DC 24 V \pm 10%		
Rated current	1.0 A		
Peak current	3.0 A		
IP class	IP 40		
Recommended environr	ment 0~40°C, under 85% RH		
Certification	CE、FCC、RoHS		

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









 $[\]ensuremath{^{\star}}\xspace$ Use optional communication, need external communication conversion box, please consult the sales staff for details

PGS Series Miniature Electro-magnetic Gripper

PGS-5-5

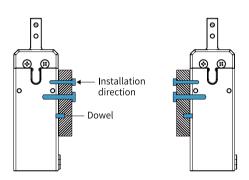


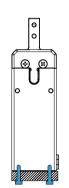
The PGS series is a miniature electromagnetic gripper with high working frequency. Based on a split design, the PGS series could be applied in space-limited environment with the ultimate compact size and simple configuration.



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.

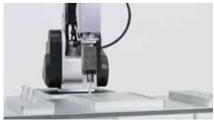


The opening/closing time could reach 0.03s to meet the needs of fast grasping.

Easy to Use

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

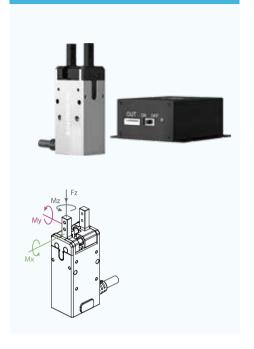




Application

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
M 7	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)		3.5-5 N
Stroke		5 mm
Recommended workpie	ece weight *	0.05 kg
Opening/closing time		0.03 s/0.03 s
Repeat accuracy (positi	on)	\pm 0.01 mm
Noise emission		< 50 dB
Weight		0.2 kg
Driving method	Electr	omagnet + Spring
Size		68.5 mm x 26 mm x 20 mm mm x 66.8 mm x 29.6 mm

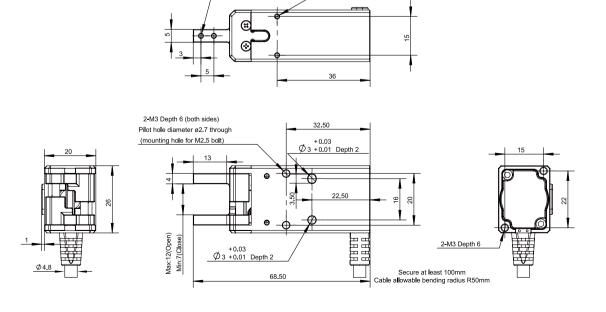
Working Environment	
Communication interface	Digital I/O
Rated voltage	24 V DC \pm 10%
Rated current	0.1 A
Peak current	3.0 A
IP class	IP 40
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS

×	×	×	×	×	•
Built-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 Predot winner 2021 Electric Collaborative Parallel Gripper

PGC-50-35

PGC-140-50

PGC-300-60

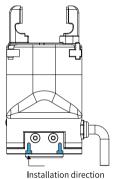


DH-Robotics PGC series of collaborative parallel electric grippers is an electric gripper mainly used in cooperative manipulators. It has the advantages of high protection level, plug and play, large load and so on. The PGC series combines precision force control and industrial aesthetics. In 2021, it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

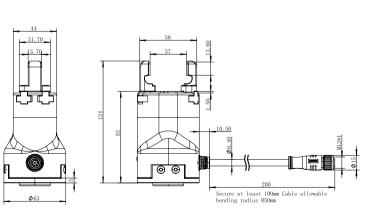
 $^{^* \}mbox{\Large \hsupe of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.$

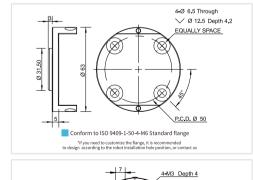
Parameters

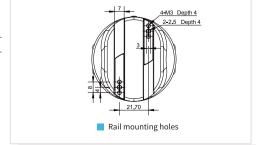
Product Parame	eter	
Gripping force (po	erjaw)	15~50 N
Stroke		37 mm
Recommended w	⁄orkpiece weight * [⊕]	1 kg
Opening/closing	time	0.7 s/0.7 s
Repeat accuracy	(position)	\pm 0.03 mm
Noise emission		< 50 dB
Weight		0.5 kg
Driving method	Precise planetary gears	+ Rack and pinion
Size	124 mm x	63 mm x 63 mm

Working Envi	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		0.25 A
Peak current		0.5 A
IP class		IP 54
Recommende	d environment	0~40°C, under 85% RH
Certification		CE, FCC, RoHS

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







^{*}② Use optional communication, need external communication conversion box, please consult the sales staff for details

ries ¦ AG

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

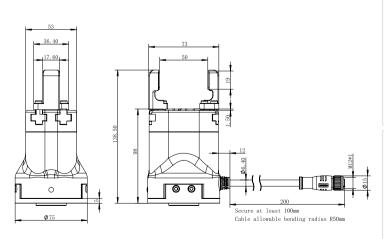
 $^{^* \}bigcirc$. It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.

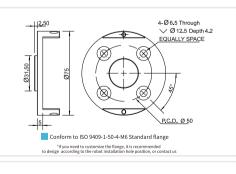
Parameters

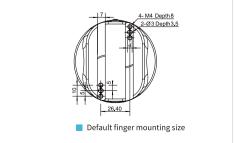
Product Parame	ter	
Gripping force (pe	erjaw)	40~140 N
Stroke		50 mm
Recommended w	orkpiece weight * [®]	3 kg
Opening/closing t	ime	0.6 s/0.6 s
Repeat accuracy (position)	\pm 0.03 mm
Noise emission		< 50 dB
Weight		1 kg
Driving method	Precise planetary gears	s + Rack and pinion
Size	138.5 mm >	x 75 mm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

Working Envi	ronment	
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

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







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

PGC-300-60



Static Vertical Allowable Load

Fz	600 N
1 4	000 11

Allowable Loading Moment

Mx	15 N⋅m
Му	15 N·m
Mz	15 N·m

 $^{^* \}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)	80~300 N
Stroke	60 mm
Recommended workpiece weig	;ht * [⊕] 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 planet	ary gears + Rack and pinion
Size 1	78 mm x 90 mm x 90 mm

Working Envi	ronment	
Communication interface		ard: Modbus RTU (RS485), Digital I/O 32.0, 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
Recommende	d environment	0~40°C, under 85% RH
Certification		CE, FCC, RoHS

Speed

Adjustable

Drop

Detection

Plug &

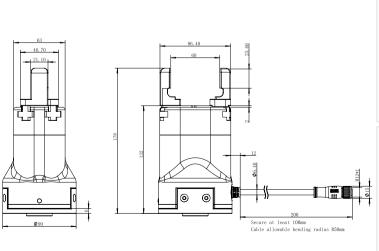
Play

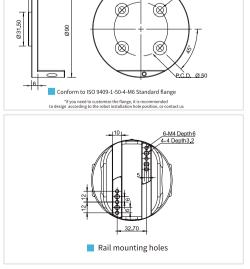
4-Ø 6.5 Through VØ 12.5 Depth 4.2 EQUALLY SPACE

Self-locking

Mechanism

Technical Drawings





Built-in

Controller

Gripping Force

Adjustable

Position

Adjustable

^{*}② Use optional communication, need external communication conversion box, please consult the sales staff for details

AG Series Continued 2019 Continued 2020 Continued 2

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

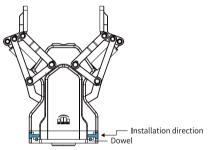


The AG series is a linkage-type adaptive electric gripper which is independently developed by DH-Robotics. With Plug& Play software many and exquisite structural design, AG series is a perfect solution to be applied with collabrative robots to grip work-pieces with different shapes in different industries.



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	30	00	Ν
----	----	----	---

Allowable Loading Moment

Mx	4.75 N⋅m
Му	4.75 N·m
Mz	4.75 N⋅m

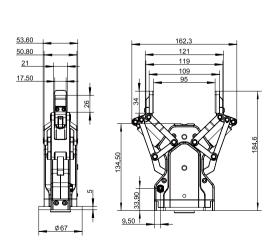
 $^{^*\}mbox{\Large \begin{tabular}{l} $^*\mbox{\Large \begin{tabular}{l} t depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.$

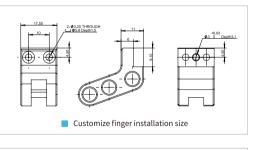
Parameters

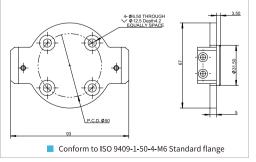
Product Parameter		
Gripping force (per jaw)		45~160 N
Stroke		95 mm
Recommended workpie	ce weight * [®]	3 kg
Opening/closing time		0.9 s/0.9 s
Repeat accuracy (position	on)	\pm 0.03 mm
Noise emission		< 50 dB
Weight		1 kg
Driving method	Screw drive	+ Linkage system
Size	184.6 mm x 1	62.3 mm x 67 mm

Working Envi	onment
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	0.8 A
Peak current	1.5 A
IP class	IP 54
Recommende	d environment 0~40°C, under 85% RH
Certification	CE, FCC, RoHS
	• × • • •

Built-in Gripping Force Position Speed Drop Plug & Self-locking Adjustable Adjustable Adjustable Detection Play Mechanism







^{*}② Use optional communication, need external communication conversion box, please consult the sales staff for details

AG-105-145



Static Vertical Allowable Load

Fz	300	N
	300	. 4

Allowable Loading Moment

Mx	1.95 N⋅m
Му	1.95 N⋅m
Mz	1.95 N⋅m

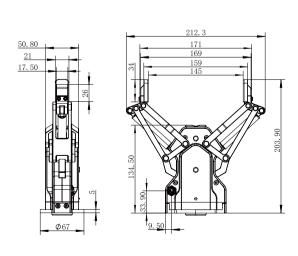
 $^{^*\}mbox{\Large \begin{tabular}{l} $^*\mbox{\Large \begin{tabular}{l} \mathbb{R} is the problem of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.$

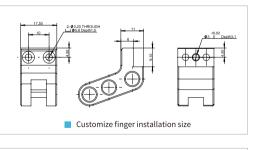
Parameters

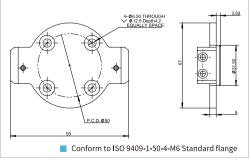
Product Parameter		
Gripping force (per jaw)		35~105 N
Stroke		145 mm
Recommended workpie	ece weight * [®]	2 kg
Opening/closing time		0.9 s/0.9 s
Repeat accuracy (positi	on)	\pm 0.03 mm
Noise emission		< 50 dB
Weight		1.3 kg
Driving method	Screw drive +	· Linkage system
Size	203.9 mm x 21	2.3 mm x 67 mm

Working Environ	ment
Communication opt	Standard: Modbus RTU (RS485), Digital I/O ional: 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 en	vironment 0~40°C, under 85% RH
Certification	CE, FCC, RoHS

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







 $^{^*\@}ifnextchar[{\@monosuperschar}{\@monosupers$

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

 $^{^*\}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)		10~65 N
Stroke 106	mm (parallel)	122 mm (centric)
Recommended workpied	ce weight *®	1.8 kg
Opening/closing time		0.7 s/0.7 s
Repeat accuracy (positio	n)	\pm 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

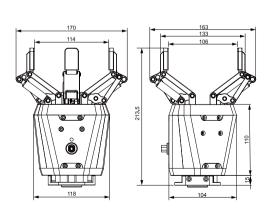
Working Environment				
Communication interface	Standard: TCP/IP, USB2.0, CAN2.0A Optional: EtherCAT* ^②			
Rated voltage	24 V DC \pm 10%			
Rated current	0.5 A			
Peak current	1 A			
IP class IP 40				
Recommended environment	0~40°C, under 85% RH			
Certification	CE, FCC, RoHS			
	× •			

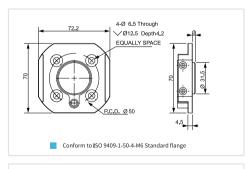
Plug &

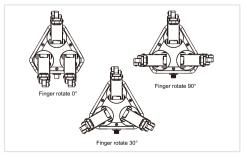
Play

Self-locking Mechanism

•	•	•	×	×	
Built-in	Gripping Force	Position	Speed	Drop	
Controller	Adjustable	Adjustable	Adjustable	Detection	







 $^{^{\}star} \ensuremath{\mathfrak{D}}$ 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

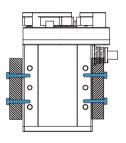


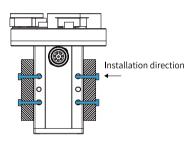
The CG series is a three-finger centric gripper independently developed by DH-Robotics. The three-finger gripping method can better cope with the grasping task of cylindrical workpieces. The CG series is available in a variety of models for a variety of scenarios, stroke and end devices.

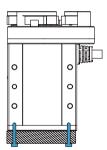


Installation

- 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

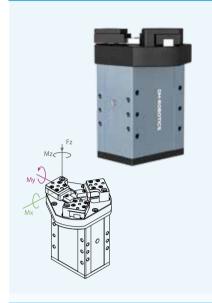
The high-performance servo motor can provide instantaneous overload protection



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	100 14

Allowable Loading Moment

Mx	0.62 N⋅m
Му	0.62 N·m
Mz	0.62 N⋅m

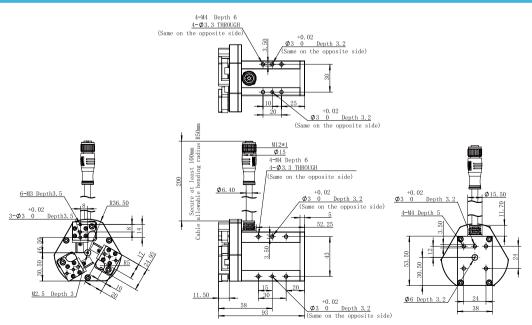
 $^{^*\}mbox{\Large \begin{tikzpicture}(1,0) \put(0,0){\line(0,0){1.5}} \put(0,0){\$

Parameters

Product Parameter	
Gripping force (per jaw)	3~10 N
Stroke	10 mm
Recommended workpiece weight * ⁰	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 reducer	+ Rack and pinion
Size 94 mm x 53.	5 mm x 38 mm

Working Environment				
Communication interface	Standa Optional: TCP/IP, USE	ard: Modbus RTU (RS485), Digital I/O 32.0, 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		

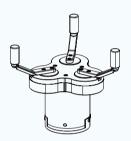
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Built-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism



^{*}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.

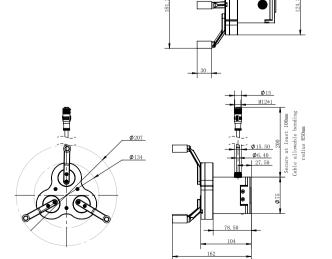
- *① It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion, If you have any questions, please contact us.
- *② Use optional communication, need external communication conversion box, please consult the sales staff for details

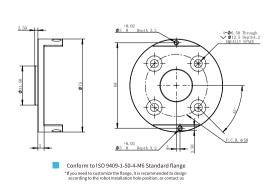
Parameters

Product Parameter	
Gripping force (per jaw)	30~100 N
Recommended workpiece diameter (inward)	ф40~ф170 mm
Recommended workpiece weight * [®]	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	+ Rack and pinion
Size 158.4 mm x 124.35 mm x 116 mm(without brake	e/with brake, same size)

Working Envi	ronment	
Communication interface		ard: Modbus RTU (RS485), Digital I/O 32.0, CAN2.0A, PROFINET, EtherCAT *®
Rated voltage		24 V DC \pm 10%
Rated current		0.4 A
Peak current		1 A
IP class		IP 40
Recommende	d environment	0~40°C, under 85% RH
Certification		CE, FCC, RoHS

•	•	•	•	•	$ullet$ \times
Built-in	Gripping Force	Position	Speed	Drop	Self-locking
Controller	Adjustable	Adjustable	Adjustable	Detection	Mechanism





CGC-80-10



Static Vertical Allowable Load

F7	200 N

Allowable Loading Moment

Mx	2.5 N·m
Му	2 N·m
Mz	3 N·m

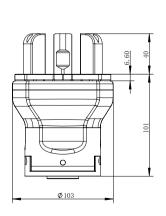
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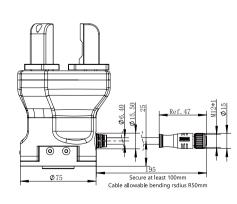
Parameters

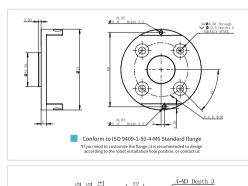
Product Parameter	
Gripping force (per jaw)	20~80 N
Single jaw	10 mm
Recommended workpiece w	eight * [®] 1.5 kg
Opening/closing time	0.2 s/0.2 s
Repeat accuracy (position)	\pm 0.03 mm
Noise emission	< 50 dB
Weight	1.5 kg
Driving method Precise planeta	ry gear reducer + Rack and pinion
Size	141 mm x 103 mm x 75 mm

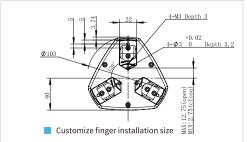
Working Environment					
Communication interface		rd: Modbus RTU (RS485), Digital I/O 2.0, CAN2.0A, PROFINET, EtherCAT *②			
Rated voltage		24 V DC \pm 10%			
Rated current		0.3 A			
Peak current		1 A			
IP class		IP 67			
Recommended	d environment	0~40°C, under 85% RH			
Certification		CE, FCC, RoHS			

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









^{*}② Use optional communication, need external communication conversion box, please consult the sales staff for details

Honors and Certificates

- Some of Our Certificates

















TEST REPORT

WHITE AND ADDRESS OF THE STREET OF THE STREET





- 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

5 6 7

Our Customers

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













































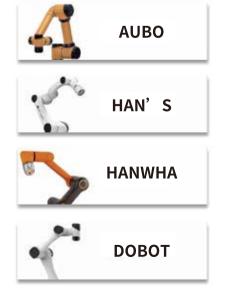






Our Eco-Partners

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







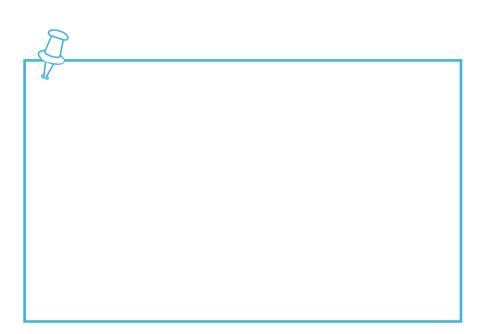
DH-ROBOTICS

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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