DH-ROBOTICS

Servo-Electric Grippers

DH ROBOTICS

en.dh-robotics.com

DH-ROBOTICS

DH-Robotics Technology Co.,Ltd., dedicates in developing and providing electric gripping products/solutions for robots and automation equipments.

The company specializes in the development and application of multiple gripping technologies, aiming to improve the grasping versatility and capability of robots/equipments used in different scenarios. DH-Robotics offers a series of compact, robust and easy-to-use electric grippers with innovative design, precise control and gripping feedbacks, to better facilitate industrial applications，increase the productivity and automate your grasping process in a better way.

Contents

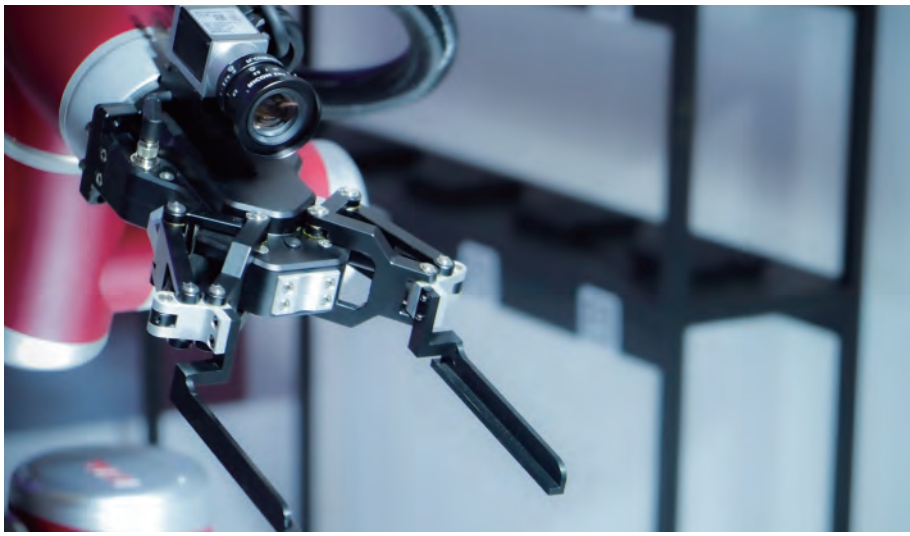
Application scenarios

Electronics handling

Laboratory automation

New Energy

Widely used in industrial fields



Semiconductor

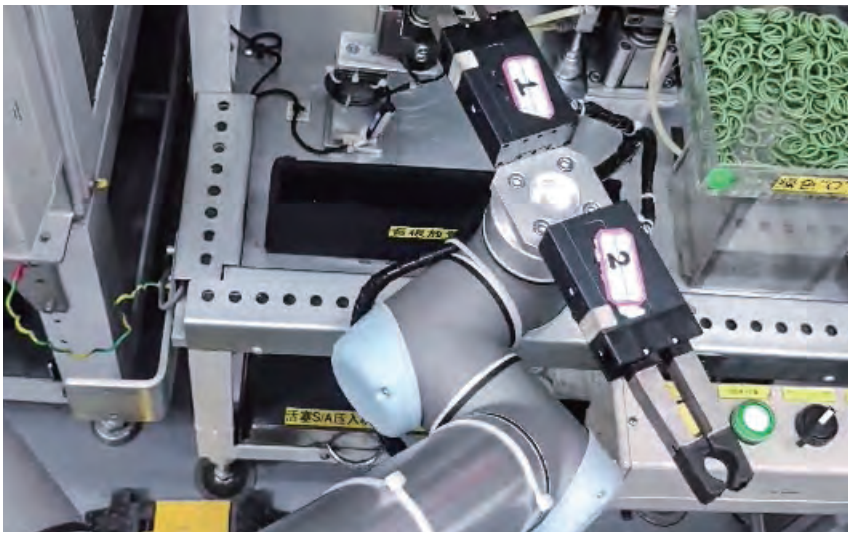
Car Parts

Precision Assembly

Packaging

New Retailing

Education



PGE/CGE Series
Slim-type parallel grippers

Application Fields

Electronics, medical and laboratory automation, auto parts, new energy, semiconductors, home appliances and other industries, for various applications of small and medium-sized parts assembly, sorting, pick and place.

Features

Integrated design
The drive controller and communication are integrated inside the gripper, and can be used without external controller.

Precise force control
With the special transmission design and driving algorithm compensation, the PGE is able to adjust the force continuously and achieve the force repeatability of 0.1N.

Small size
With compact structure and flexible installation, the PGE is able to save the design space

Intelligent feedback
The PGE series is easy to monitor the gripping process according to the functions such as grasping status detection, real-time position detection and drop detection.

Adjustable parameters
The PGE series is able to meet the requirements from different applications with the adjustable of the gripping position, force, and speed.

PGE —— Parallel Gripper Electronics
CGE —— Centric Gripper Electronics

PGI/CGI Series
Industrial parallel grippers

Application Fields

Mechanical processing, electronics, auto parts, new energy, home appliances, packaging and other industries, for the pick & place and assembly of medium-sized parts

Features

Integrated design
The drive controller and communication are integrated inside the gripper, and can be used without external controller.

Self-locking
The PGI series is able to maintain the gripping of the workpiece when the power is off, and improve the safety of the gripping process

Long stroke and adjustable gripping force
With 80mm stroke, the PGI-140 is compatible to grip objects with different size

High protection level
The PGI series is designed for harsh environment

Intelligent feedback
The PGI series is easy to monitor the gripping process according to the functions such as grasping status detection, real-time position detection and drop detection.

PGI —— Parallel Gripper Industrial
CGI —— Centric Gripper Industrial

PGE-2

Slim-type parallel grippers

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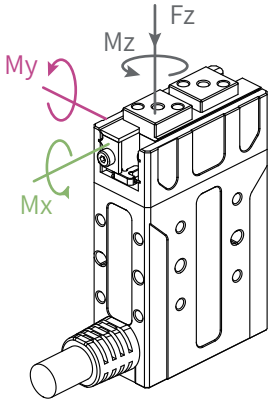


Allowable vertical load (static)	
Fz：	35 N

Allowable vertical load (static)	
Mx：	0.2 N·m
My:	0.17 N·m
Mz:	0.2 N·m

Gripping force(per jaw)

0.8~2 N

Stroke

12 mm

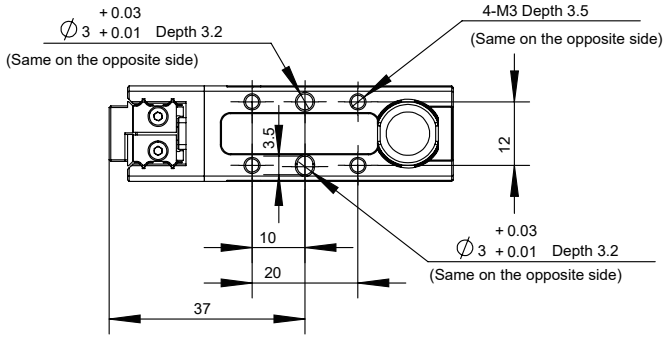
Mechanical specifications

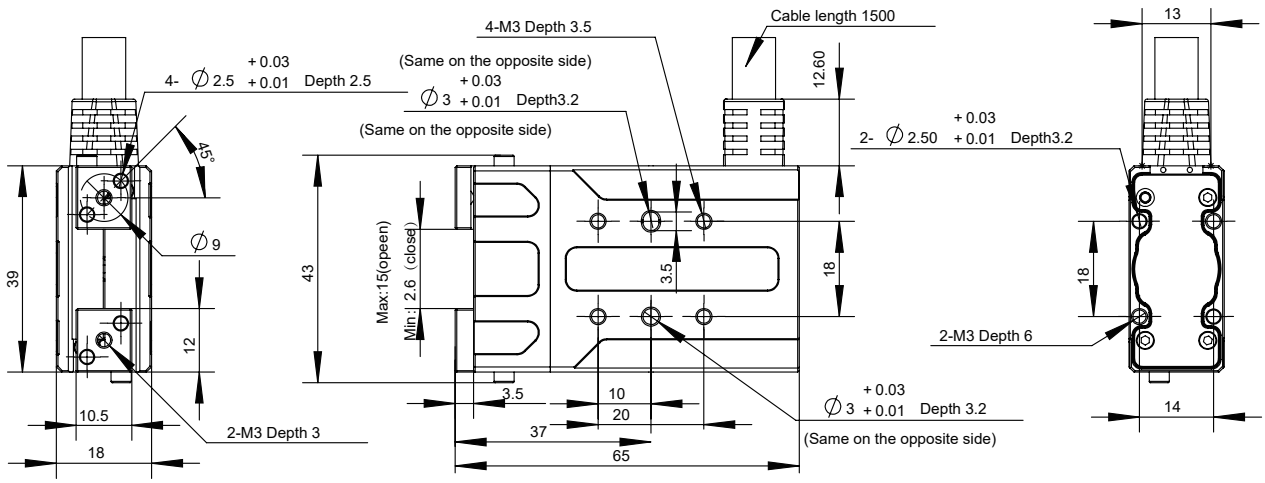
Recommended workpiece weight*	0.05 kg
Repeat accuracy (positioning)	± 0.02 mm
Opening/closing time	0.2 s/0.2 s
Driving method	Rack and pinion + Cross roller guide
Weight	0.3 kg
Noise emission	< 40 dB

Electrical specifications

Communication Interface	Standard:Modbus RTU (RS485), Digital I/O Optional:TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nomital current	0.2 A
Max. current	0.5 A
IP protection class	IP 40
Recommended operating environment	0~40°C，＜85% RH

*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 consult us.

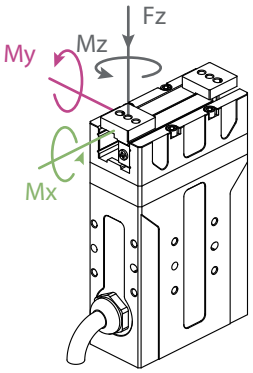




PGE-5

Slim-type parallel grippers

Gripping force(per jaw)	Stroke
0.8~5 N	14 mm



Allowable vertical load (static)	
Fz:	50 N
Allowable vertical load (static)	
Mx:	0.3 N·m
My:	0.25 N·m
Mz:	0.3 N·m

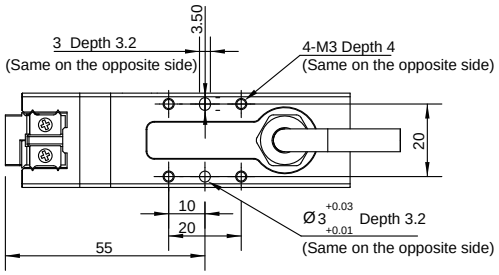
Mechanical specifications

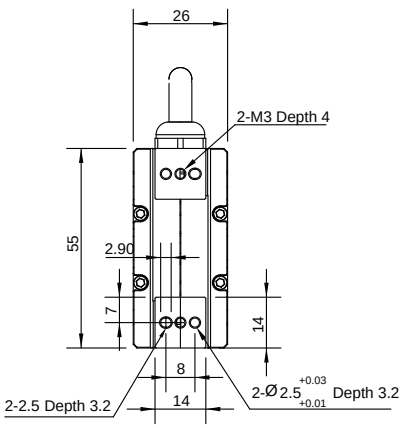
Recommended workpiece weight*	0.1 kg
Repeat accuracy (gripping)	± 0.3 N
Repeat accuracy (positioning)	± 0.02 mm
Opening/closing time	0.2 s/0.2 s
Driving method	Rack and pinion + Cross roller guide
Weight	0.4 kg
Noise emission	< 40 dB

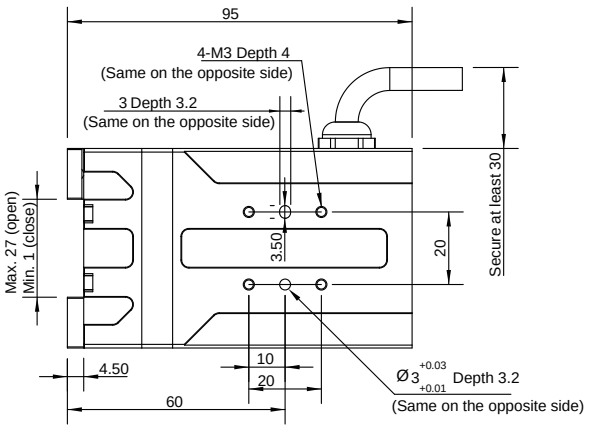
Electrical specifications

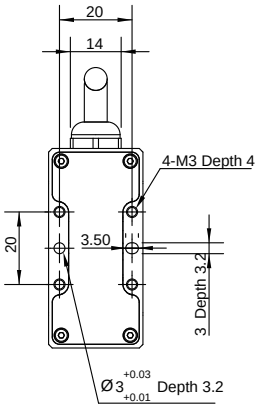
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.4 A
Max. current	0.7 A
IP protection class	IP 40
Recommended operating environment	0~40°C, < 85% RH

*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 consult us.









PGE-8

Slim-type parallel grippers

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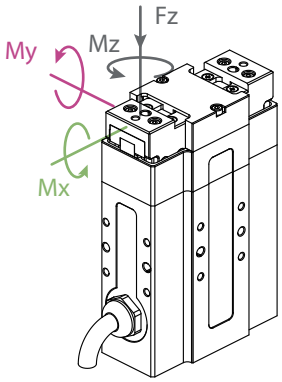
Gripping force(per jaw)	Stroke
2~8 N	14 mm



Allowable vertical load (static)	
Fz:	90 N
Allowable vertical load (static)	
Mx:	0.55 N·m
My:	0.45 N·m
Mz:	0.55 N·m

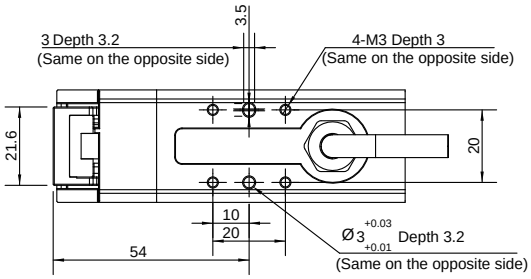
Mechanical specifications

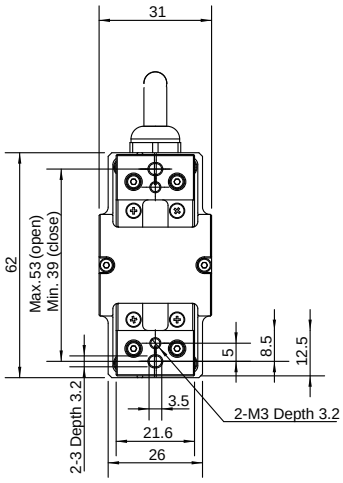
Recommended workpiece weight*	0.1 kg
Repeat accuracy (gripping)	± 0.3 N
Repeat accuracy (positioning)	± 0.02 mm
Opening/closing time	0.2 s/0.2 s
Driving method	Rack and pinion + Linear guide
Weight	0.4 kg
Noise emission	< 40 dB

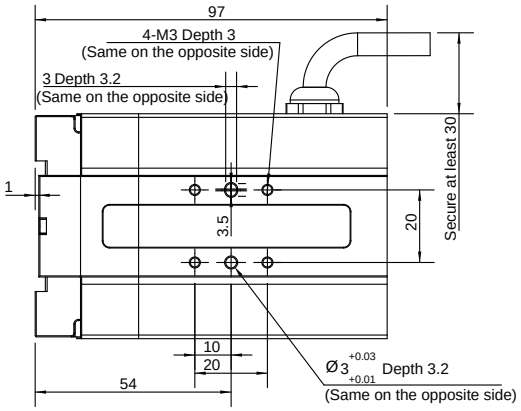
Electrical specifications

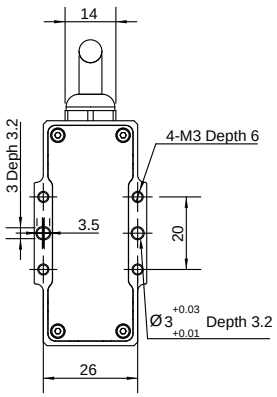
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.4 A
Max. current	0.7 A
IP protection class	IP 40
Recommended operating environment	0~40°C,<85% RH

*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 consult us.





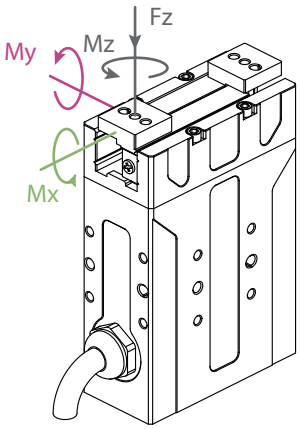




PGE-15

Slim-type parallel grippers

Gripping force(per jaw)	Stroke
6~15 N	26 mm



Allowable vertical load (static)	
Fz:	70 N
Allowable vertical load (static)	
Mx:	0.9 N·m
My:	0.75 N·m
Mz:	0.9 N·m

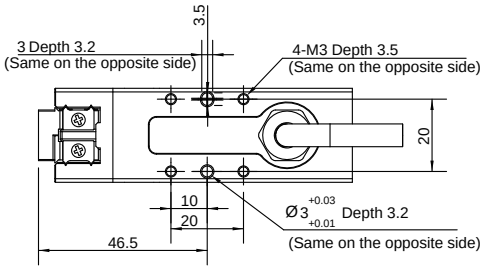
Mechanical specifications

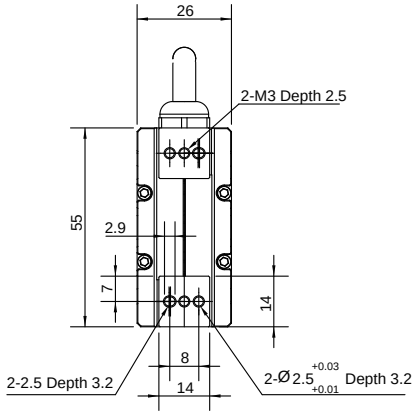
Recommended workpiece weight*	0.25 kg
Repeat accuracy (positioning)	± 0.02 mm
Opening/closing time	0.5 s/0.5 s
Driving method	Rack and pinion + Cross roller guide
Weight	0.4 kg
Noise emission	< 40 dB

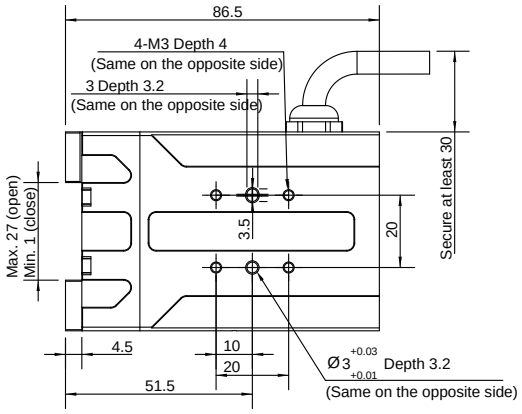
Electrical specifications

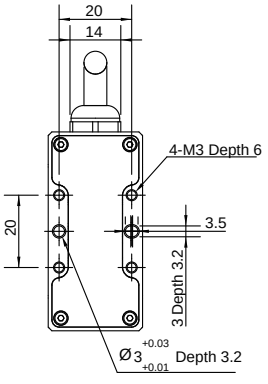
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.25 A
Max. current	0.5 A
IP protection class	IP 40
Recommended operating environment	0~40°C, <85% RH

*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 consult us.



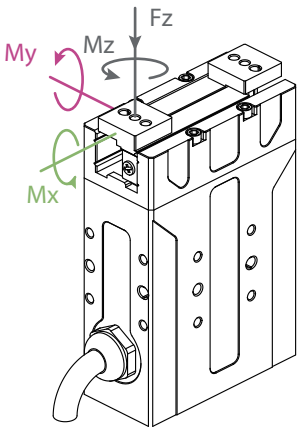






PGE-50

Slim-type parallel grippers



Allowable vertical load (static)	
Fz:	150 N

Allowable vertical load (static)	
Mx:	2.5 N·m
My:	2 N·m
Mz:	3 N·m

Gripping force(per jaw)

15~50 N

Stroke

26 mm

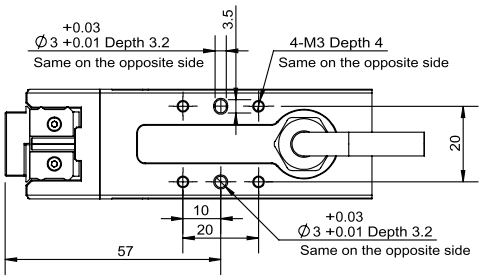
Mechanical specifications

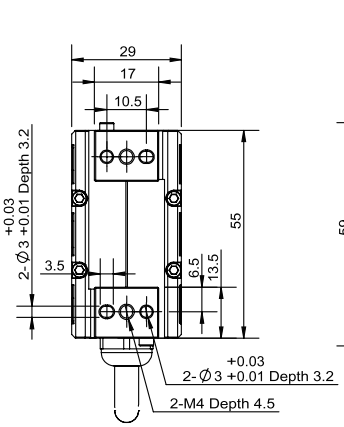
Recommended workpiece weight*	1 kg
Repeat accuracy (positioning)	± 0.02 mm
Opening/closing time	0.3 s/0.3 s
Driving method	Rack and pinion + Cross roller guide
Weight	0.4 kg
Noise emission	< 40 dB

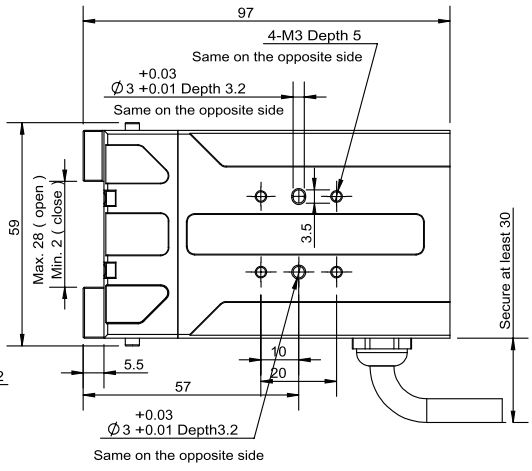
Electrical specifications

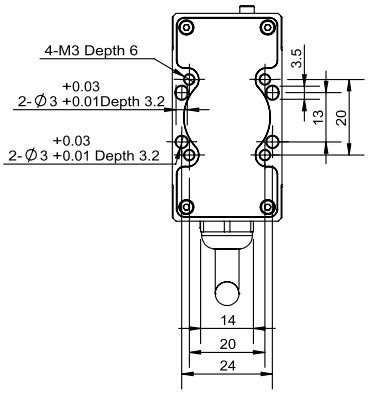
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.25 A
Max. current	0.5 A
IP protection class	IP 40
Recommended operating environment	0~40°C, <85% RH

*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 consult us.



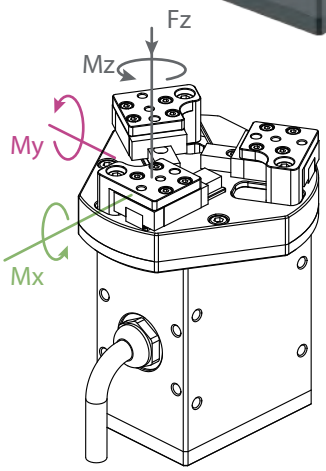






CGE-10

Centric grippers



Allowable vertical load (static)	
Fz:	150 N
Allowable vertical load (static)	
Mx:	0.62 N·m
My:	0.62 N·m
Mz:	0.62 N·m

Gripping force(per jaw)

3~10 N

Stroke (per jaw)

10 mm

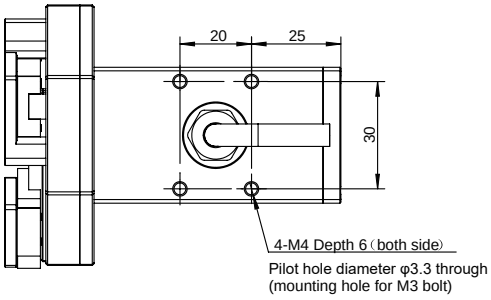
Mechanical specifications

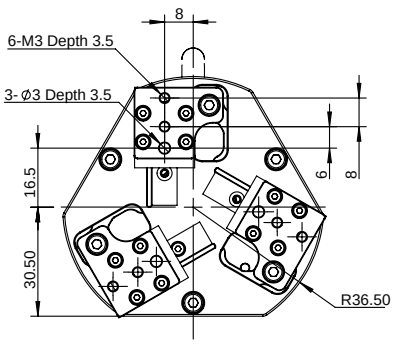
Recommended workpiece weight*	0.1 kg
Repeat accuracy (positioning)	± 0.03 mm
Opening/closing time	0.3 s/0.3 s
Driving method	Rack and pinion + Linear guide
Weight	0.43 kg
Noise emission	< 40 dB

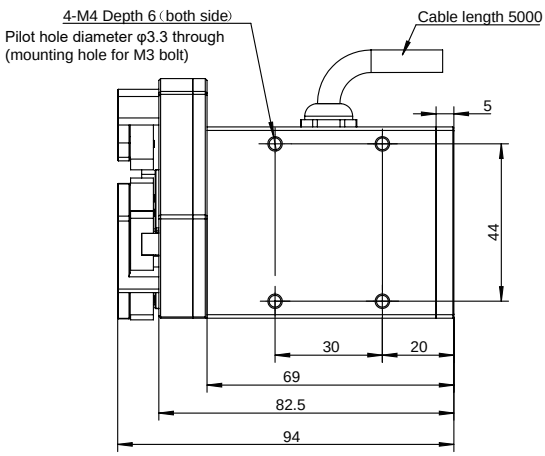
Electrical specifications

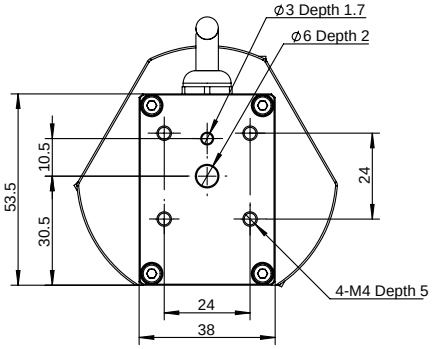
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.3 A
Max. current	0.6 A
Recommended operating environment	0~40°C, <85% RH

*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 consult us.



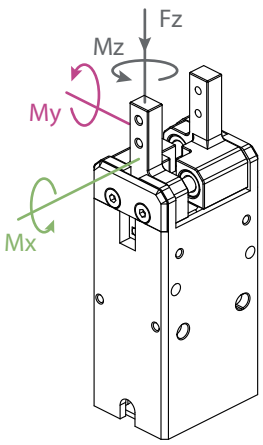






PGS-5

Miniature electromagnet grippers



Allowable vertical load (static)	
Fz:	150 N

Allowable vertical load (static)	
Mx:	0.62 N·m
My:	0.62 N·m
Mz:	0.62 N·m

Gripping force(per jaw)

3.5~5 N

Stroke

4 mm

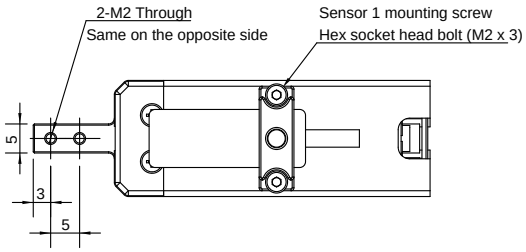
Mechanical specifications

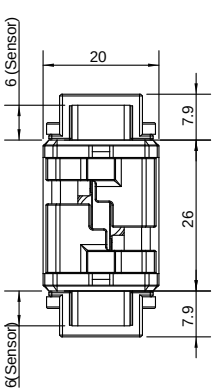
Recommended workpiece weight*	0.05 kg
Repeat accuracy (positioning)	± 0.01 mm
Opening/closing time	0.03 s/0.03 s
Driving method	Electromagnet + Spring
Weight	0.2 kg
Noise emission	< 50 dB

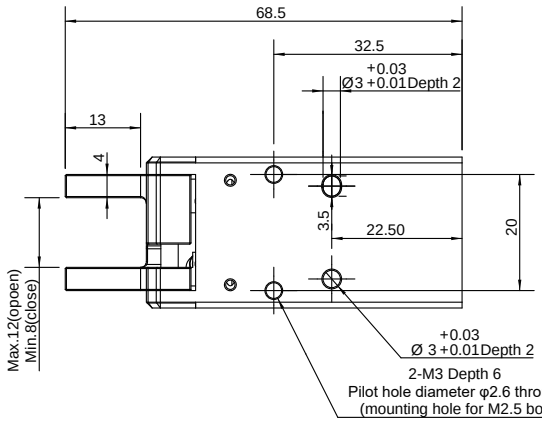
Electrical specifications

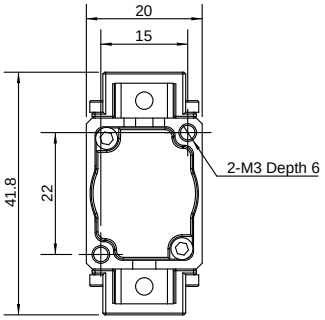
Communication interface	Digital I/O
Nominal voltage	24 V DC ± 10%
Nominal current	0.1 A
Max. current	3 A
IP protection class	IP 40
Recommended operating environment	0~40°C，<85% RH

*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 consult us.









PGI-140

Industrial parallel grippers

Gripping force(per jaw)	Stroke
40~140 N	80 mm

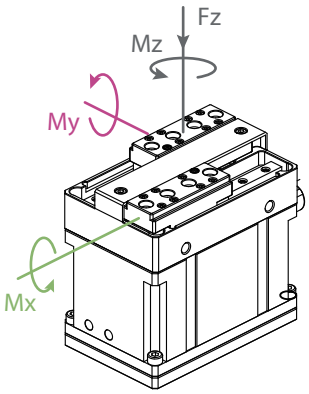
Mechanical specifications

Recommended workpiece weight*	3 kg
Repeat accuracy (positioning)	± 0.03 mm
Opening/closing time	0.7 s/0.7 s
Driving method	Rack and pinion + Linear guide
Weight	1 kg(exclude fingers)
Noise emission	< 50 dB

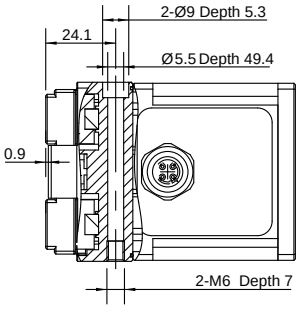
Electrical specifications

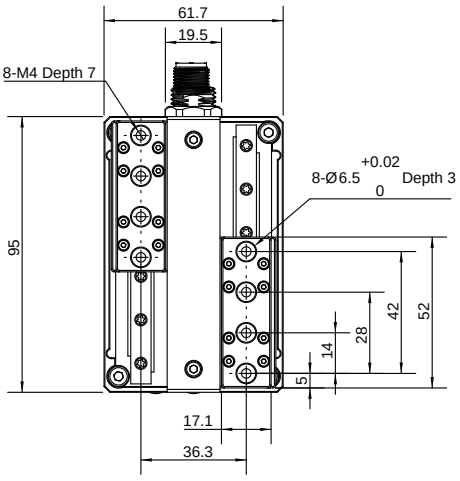
Communication interface	Standard: Modbus RTU(RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.5 A
Max. current	1.2 A
IP protection class	IP 54
Recommended operating environment	0~40°C, <85% RH

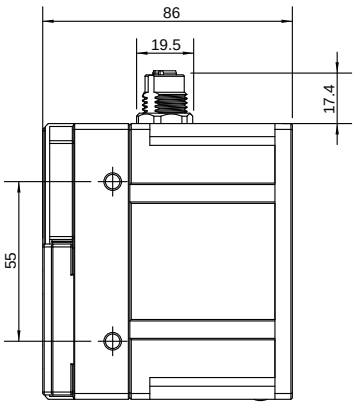
*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion,If you have any questions, please consult us.

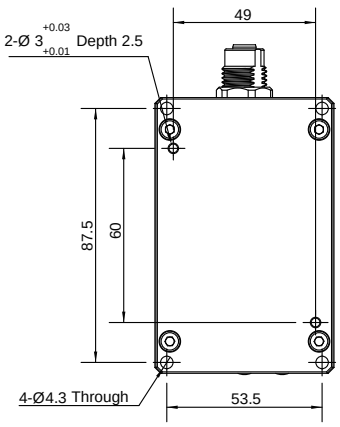


Allowable vertical load (static)	
Fz:	300 N
Allowable vertical load (static)	
Mx:	7 N·m
My:	7 N·m
Mz:	7 N·m









CGI-100

Centric grippers

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.

Gripping force
30~100 N

Recommended workpiece diameter (inward)
φ40~φ170 mm

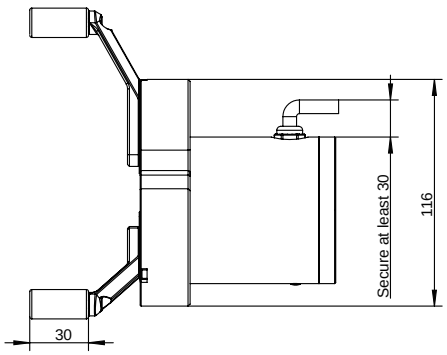
Mechanical specifications

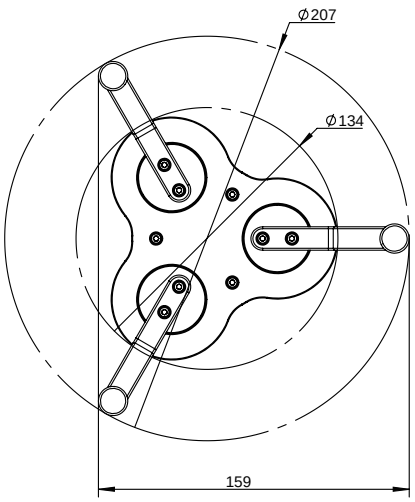
Recommended workpiece weight*	1.5 kg
Repeat accuracy (positioning)	± 0.03 mm
Opening/closing time	0.5 s/0.5 s
Driving method	Pinion
Weight	1.5 kg
Noise emission	< 50 dB

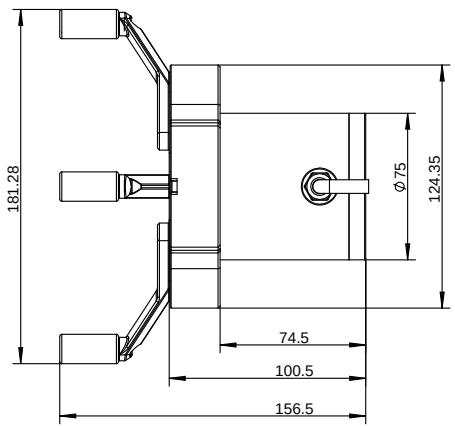
Electrical specifications

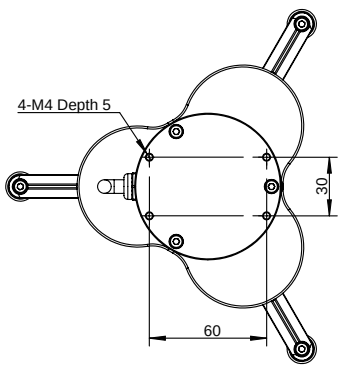
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.4 A
Max. current	1 A
IP protection class	IP 40
Recommended operating environment	0~40°C, <85% RH

*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 consult us.









RGI Series
Servo rotary grippers

Application field

Test tube opening and closing, parts assembly, widely used in medical and laboratory automation, electron-ics, home appliances, packaging, auto parts and other industries.

Features

Gripping and infinite rotation
with the unique structural design, the RGI series is able to achieve the independent movement of gripping and infinite rotation, which is solving the non-standard design of the equipment and the winding problem of infinite rotation. It is stable and easy to use.

Adjustable parameters
The RGI series is able to adjust the gripping force, position, speed as well as the rotation parameters like torque, speed and angle.

Integrated design
with 50*50mm size, the RGI series is integrated with 2 sets of servo systems and the drive controller.

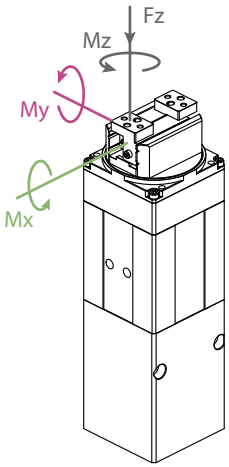
Easy deployment
The RGI series use the standardized communication and command interfaces which is easy to work with equipment.

Intelligent feedback
The RGI series is easy to monitor the gripping and rotation process with the intelligent feedback of gripping & rotation status and drop detection

RGI —— Rotary Gripper Industrial

RGI-14

Servo rotary grippers



Allowable vertical load (static)	
Fz:	150 N

Allowable vertical load (static)	
Mx:	2 N·m
My:	1.5 N·m
Mz:	2.5 N·m

Gripping force(per jaw)

10~35 N

Stroke

14 mm

Rotation torque

0.25 N•m

Max. angle of rotation

Infinite

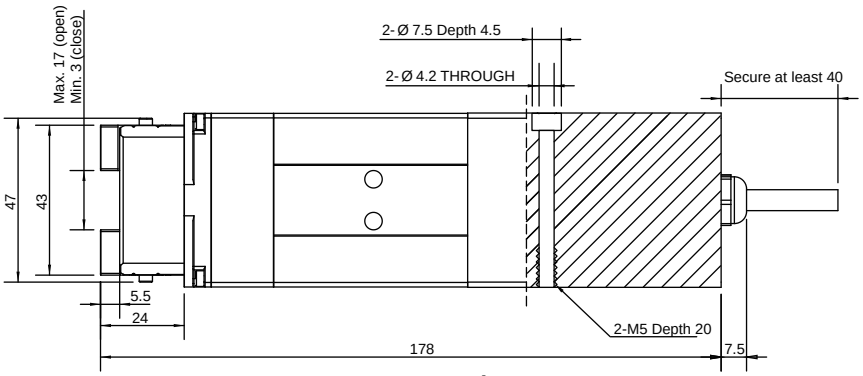
Mechanical specifications

Recommended workpiece weight*	0.7 kg
Max. rotation speed	1500 deg/s
Repeat accuracy (swiveling)	± 0.02 deg
Repeat accuracy (positioning)	± 0.02 mm
Opening/closing time	0.3 s/ 0.3 s
Weight	1.0 kg

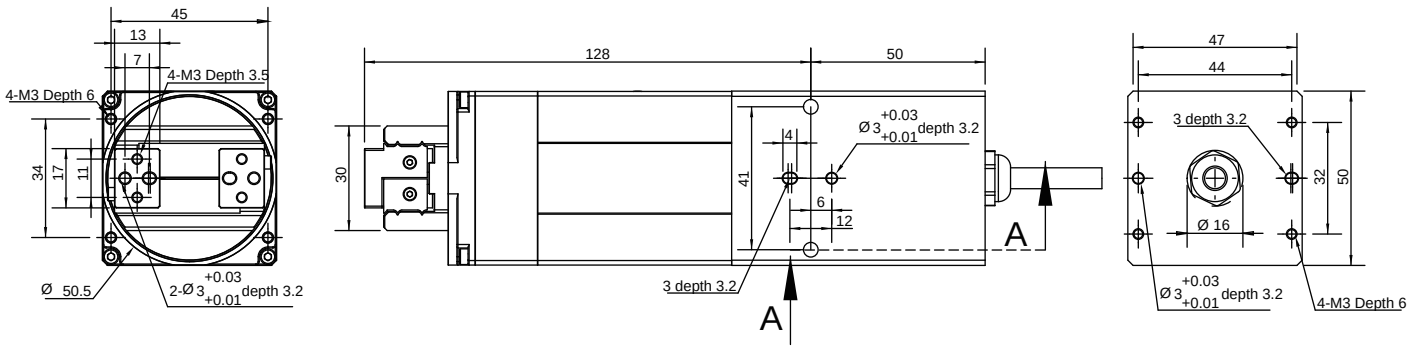
Electrical specifications

Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	1.1 A
Max. current	2 A
IP protection class	IP 20
Recommended operating environment	0~40°C, <85% RH

*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 consult us.

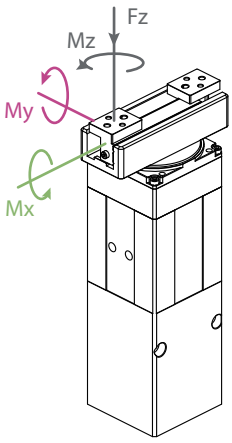


A-A Section



RGI-30

Servo rotary grippers



Allowable vertical load (static)	
Fz:	150 N
Allowable vertical load (static)	
Mx:	2 N·m
My:	1.5 N·m
Mz:	2.5 N·m

Gripping force(per jaw)

10~35 N

Stroke

30 mm

Rotation torque

0.25 N•m

Max. angle of rotation

Infinite

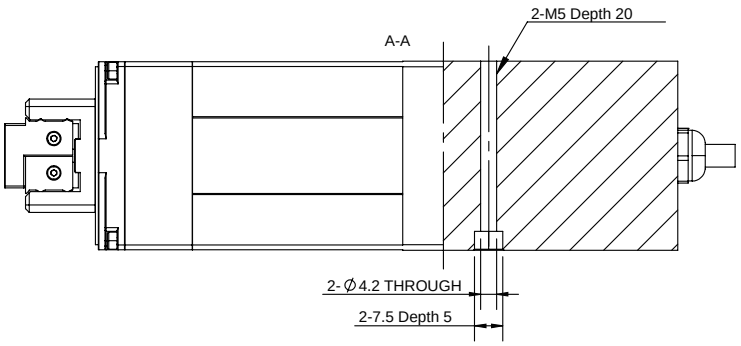
Mechanical specifications

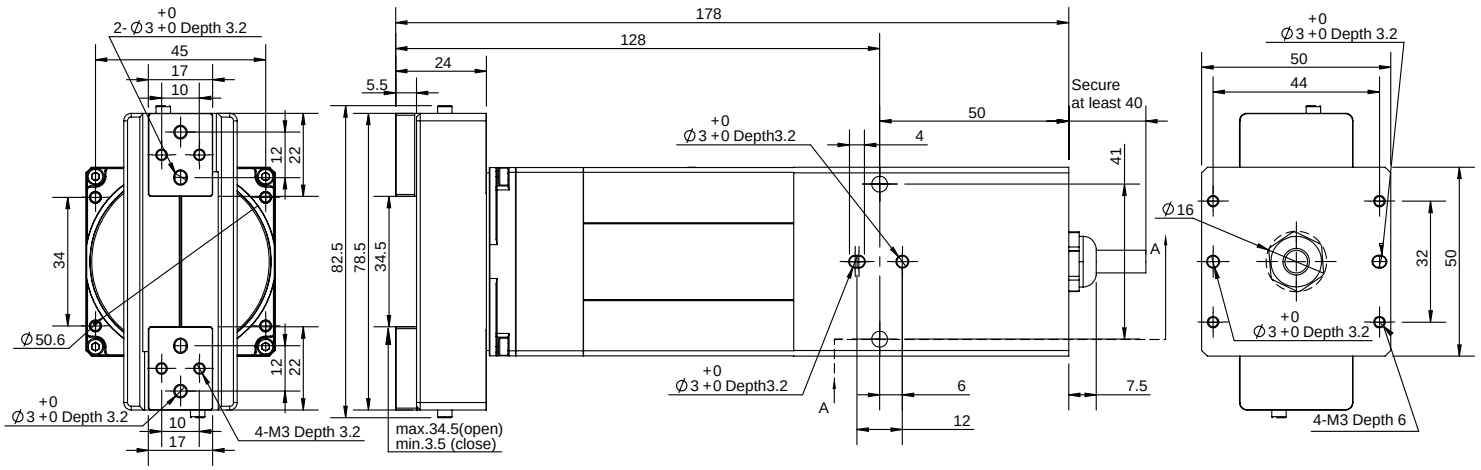
Recommended workpiece weight*	0.7 kg
Max. rotation speed	1500 deg/s
Repeat accuracy (swiveling)	± 0.02 deg
Repeat accuracy (positioning)	± 0.02 mm
Opening/closing time	0.3 s/ 0.3 s
Weight	1.2 kg

Electrical specifications

Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	1.1 A
Max. current	2 A
IP protection class	IP 20
Recommended operating environment	0~40°C, <85% RH

*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 consult us.





PGC Series
Collaborative parallel grippers

Application field

The PGC series is able to applied with collabrative and industrial robots for loading, pick&place, assembly, inspection in machining, electronics, medical... etc. industries.

Features

Plug and Play
The PGC series support the Plug & Play with most brands of collabrative robot.

High protection level
The PGC series is suitable for harsh working environment with the high protection level of IP54 and IP67.

Integrated design
The drive controller and communication are integrated inside the gripper, and can be used without external controller.

Self-locking*
The PGC series is able to maintain the gripping of the workpiece when the power is off, and improve the safety of the gripping process

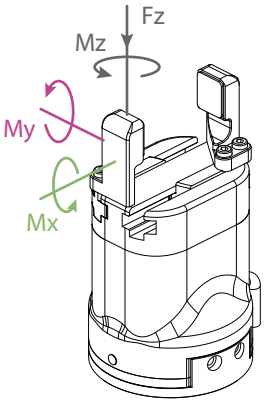
Intelligent feedback
The PGC series is easy to monitor the gripping and rotation process with the intelligent feedback of gripping & rotation status and drop detection

*PGC-50 Excepted

PGC —— Parallel Gripper Collaborative

PGC-50

Collaborative parallel grippers



Allowable vertical load (static)	
Fz:	150 N

Allowable vertical load (static)	
Mx:	2.5 N·m
My:	2 N·m
Mz:	3 N·m

Gripping force(per jaw)

15~50 N

Stroke

35 mm

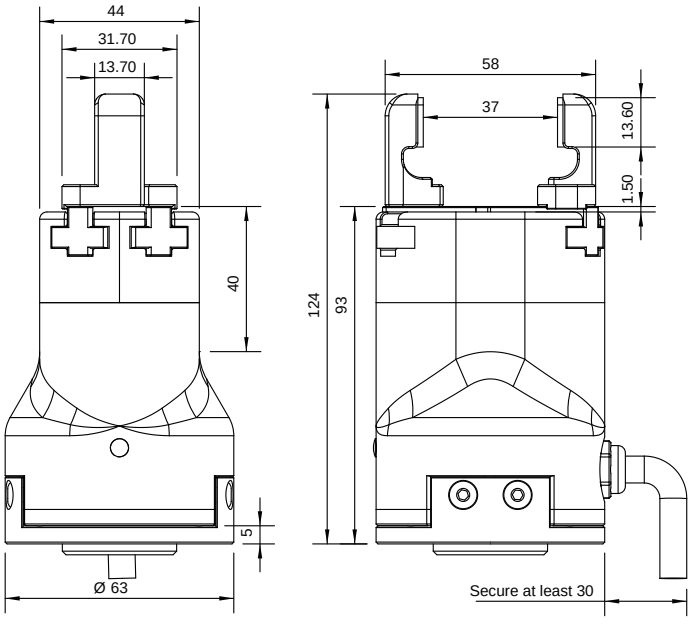
Mechanical specifications

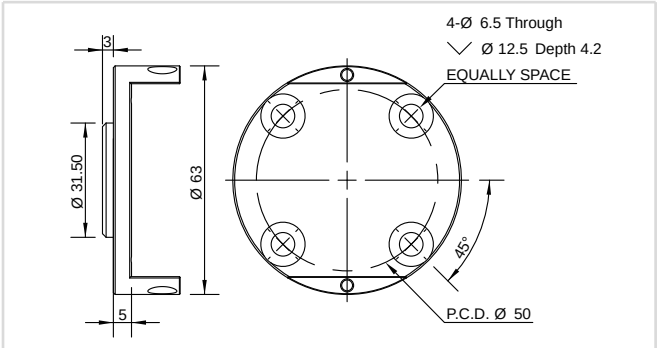
Recommended workpiece weight*	1 kg
Repeat accuracy (positioning)	± 0.03 mm
Opening/closing time	0.7 s/0.7 s
Driving method	Rack and pinion + T-slot guide
Weight	0.5 kg
Noise emission	< 50 dB

Electrical specifications

Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.25 A
Max. current	0.5 A
IP protection class	IP 54
Recommended operating environment	0~40°C, <85% RH

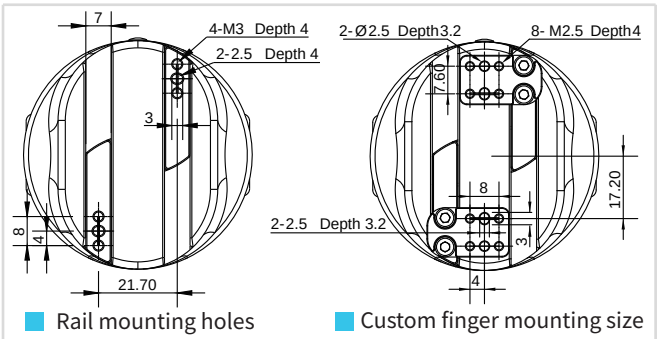
*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion,If you have any questions, please consult us.





Conform to ISO 9409-1-50-4-M6 Standard flange

*If you need to customize the flange, it is recommended to design according to the robot installation hole position, or contact us



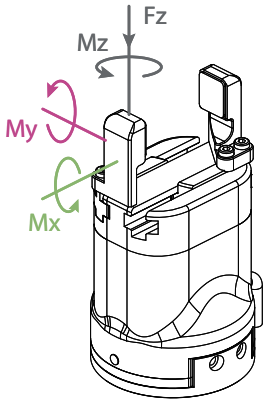
Rail mounting holes

Custom finger mounting size

*If you need to customize the finger, it is recommended to design according to the size of the finger mounting plate, or contact us

PGC-140

Collaborative parallel grippers



Allowable vertical load (static)	
Fz:	300 N
Allowable vertical load (static)	
Mx:	7 N·m
My:	7 N·m
Mz:	7 N·m

Gripping force(per jaw)

40~140 N

Stroke

50 mm

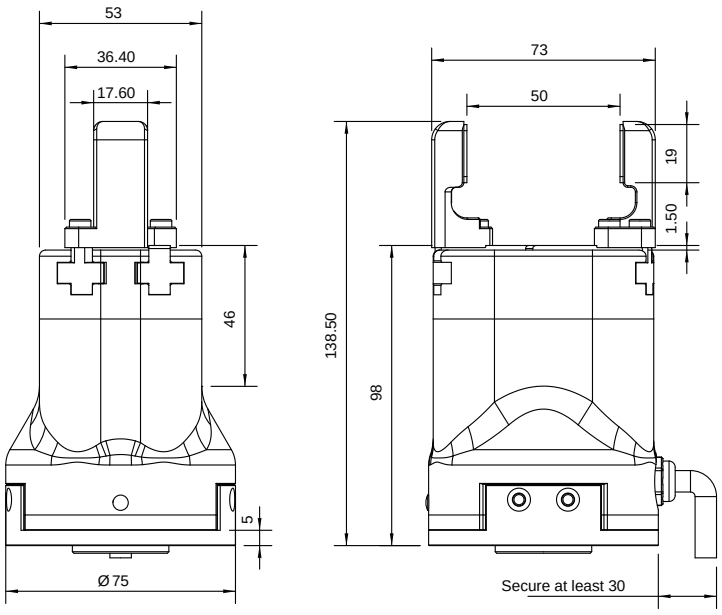
Mechanical specifications

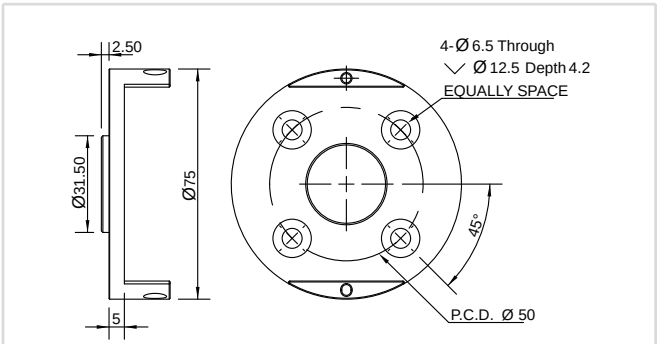
Recommended workpiece weight*	3 kg
Repeat accuracy (positioning)	± 0.03 mm
Opening/closing time	0.6 s/0.6 s
Driving method	Rack and pinion + T-slot guide
Weight	1 kg
Noise emission	< 50 dB

Electrical specifications

Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.4 A
Max. current	1 A
IP protection class	IP 67
Recommended operating environment	0~40°C, <85% RH

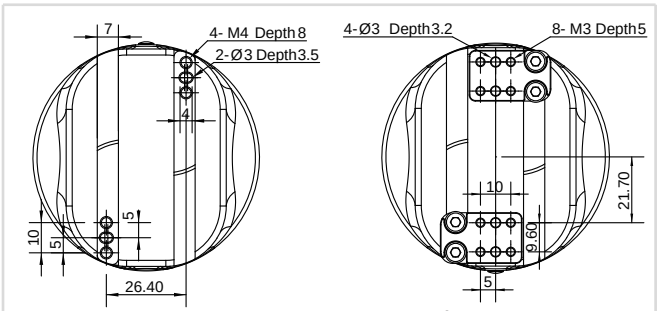
*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion,If you have any questions, please consult us.





Conform to ISO 9409-1-50-4-M6 Standard flange

*If you need to customize the flange, it is recommended to design according to the robot installation hole position, or contact us



Rail mounting holes

Custom finger mounting size

*If you need to customize the finger, it is recommended to design according to the size of the finger mounting plate, or contact us

PGC-300

Collaborative parallel grippers

reddot winner 2021

Gripping force(per jaw)	Stroke
40~300 N	60 mm

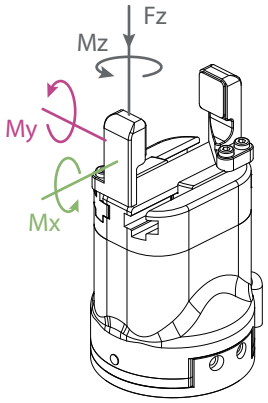
Mechanical specifications

Recommended workpiece weight*	6 kg
Repeat accuracy (positioning)	± 0.03 mm
Opening/closing time	0.8 s/0.8 s
Driving method	Rack and pinion + T-slot guide
Weight	1.5 kg
Noise emission	< 50 dB

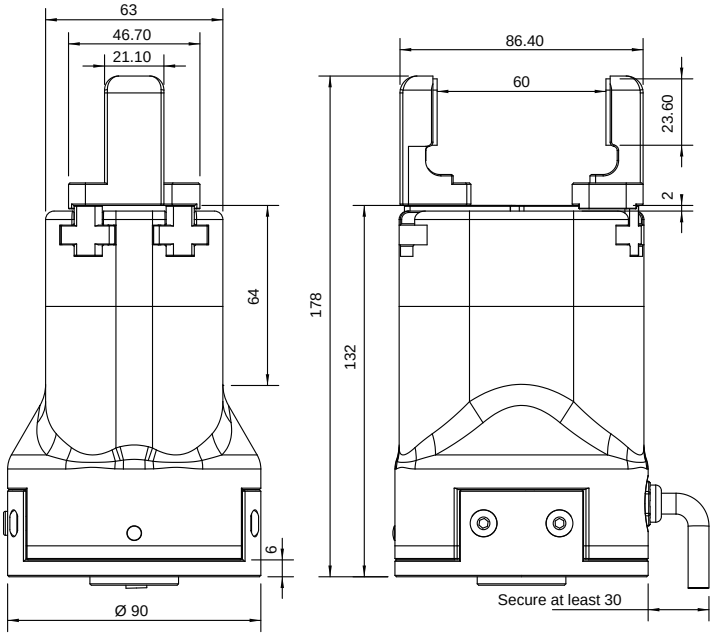
Electrical specifications

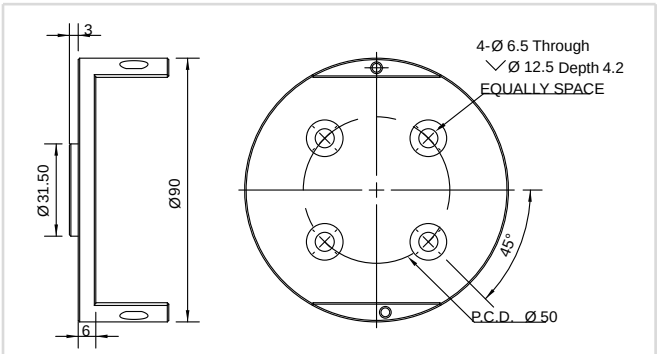
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.4 A
Max. current	2 A
IP protection class	IP 67
Recommended operating environment	0~40°C, <85% RH

*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 consult us.



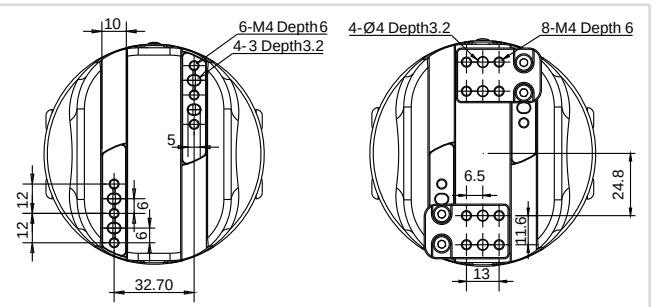
Allowable vertical load (static)	
Fz:	600 N
Allowable vertical load (static)	
Mx:	15 N·m
My:	15 N·m
Mz:	15 N·m





Conform to ISO 9409-1-50-4-M6 Standard flange

*If you need to customize the flange, it is recommended to design according to the robot installation hole position, or contact us



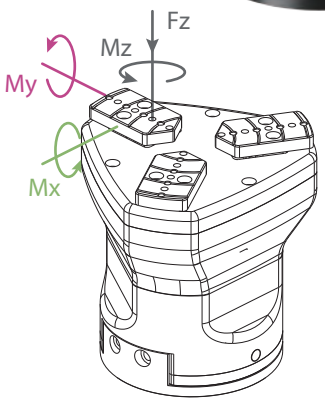
Rail mounting holes

Custom finger mounting size

*If you need to customize the finger, it is recommended to design according to the size of the finger mounting plate, or contact us

CGC-80

Centric grippers



Allowable vertical load (static)	
Fz:	200 N
Allowable vertical load (static)	
Mx:	2.5 N·m
My:	2 N·m
Mz:	3 N·m

Gripping force(per jaw)

20~80 N

Stroke(per jaw)

10 mm

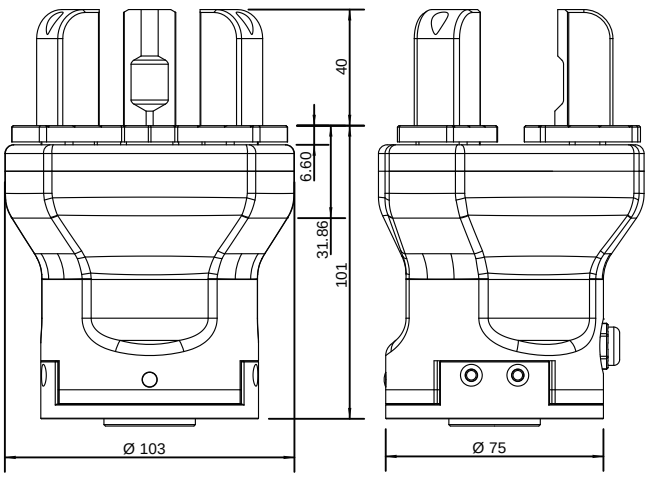
Mechanical specifications

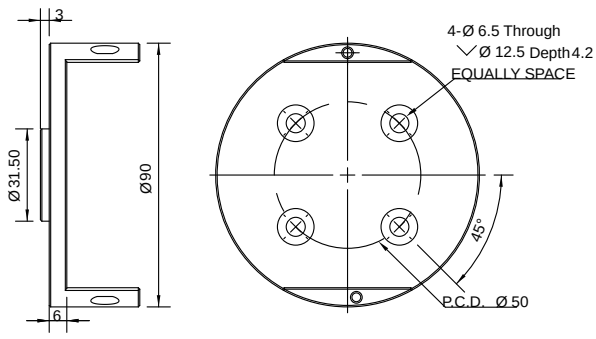
Recommended workpiece weight*	1.5 kg
Repeat accuracy (positioning)	± 0.03 mm
Opening/closing time	0.2 s/0.2 s
Driving method	Rack and pinion + Linear guide
Weight	1.5 kg
Noise emission	< 50 dB

Electrical specifications

Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.3 A
Max. current	1 A
IP protection class	IP 67
Recommended operating environment	0~40°C, <85% RH

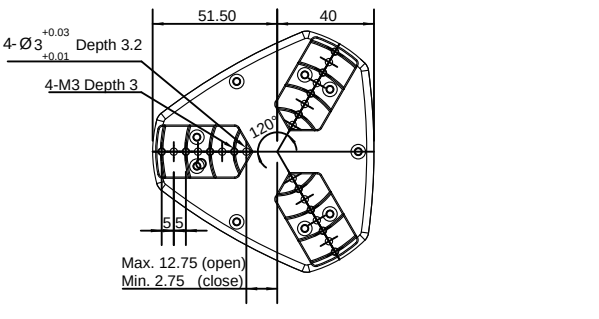
*It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion,If you have any questions, please consult us.





Conform to ISO 9409-1-50-4-M6 Standard flange

*If you need to customize the flange, it is recommended to design according to the robot installation hole position, or contact us



Customize finger installation size

AG Series
Linkage-type adaptive grippers

Application field

The AG/DH seriesis able to applied with collabrative and industrial robots for loading, pick&place, assembly, inspection in machining, electronics, medical... etc. industries.

Features

Plug and Play
The linkage-type adaptive grippers support the Plug & Play with most brands of collabrative robot.

Parallel & adaptive gripping
The linkage-type adaptive grippers is able to grip round, spherical or heterosexual workpieces with the flexible fingers.

Integrated design
The drive controller and communication are integrated inside the gripper, and can be used without external controller.

Long stroke and adjustable gripping force
With 145 mm stroke in maximum, the AG series is compatible to grip objects with different size

Self-locking
The AG series is able to maintain the gripping of the workpiece when the power is off, and improve the safety of the gripping process

Intelligent feedback
The AG/DH series is easy to monitor the gripping process according to the functions such as grasping status detection, real-time position detection and drop detection.

AG —— Adaptive Gripper

AG-95

Linkage-type adaptive grippers

reddot award 2019 winner

Gripping force(per jaw)	Stroke
45~160 N	95 mm

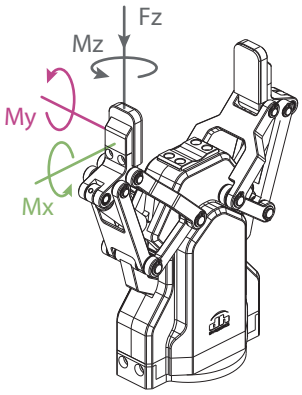
Mechanical specifications

Recommended workpiece weight*	3 kg
Repeat accuracy (positioning)	± 0.03 mm
Opening/closing time	0.7 s/0.7 s
Driving method	Screw drive +Linkage system
Weight	1 kg
Noise emission	< 50 dB

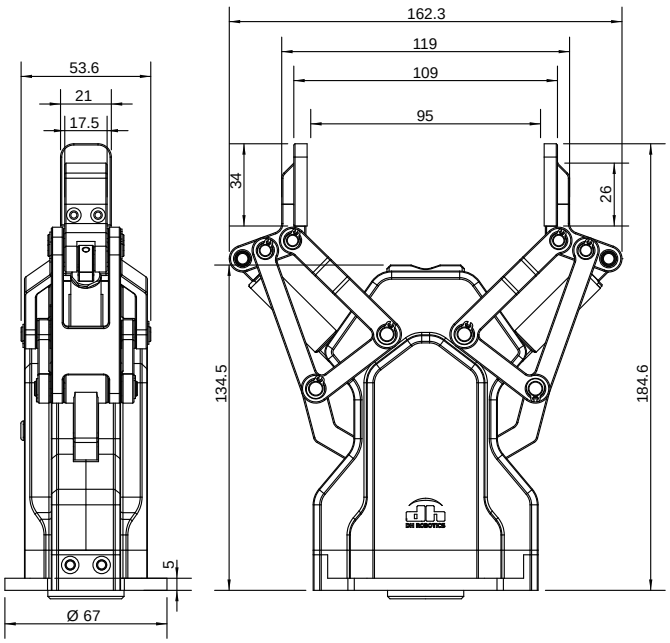
Electrical specifications

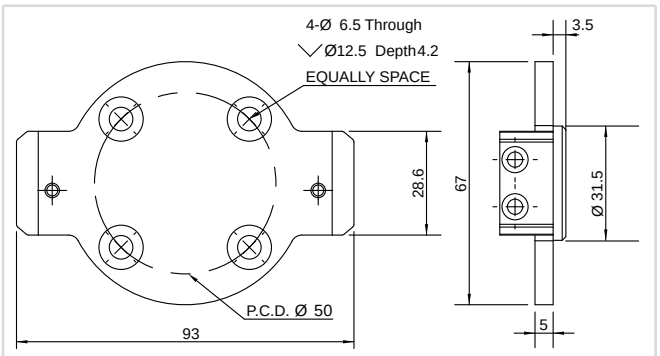
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.8 A
Max. current	1.5 A
IP protection class	IP 54
Recommended operating environment	0~40°C, <85% RH

*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 consult us.

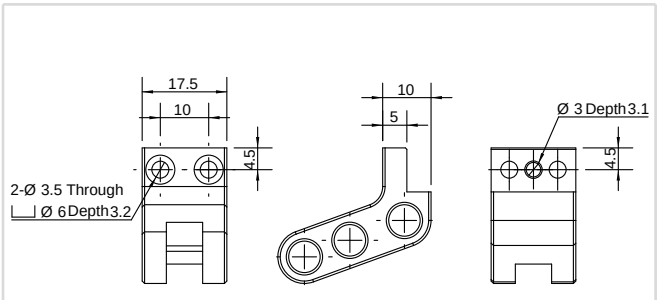


Allowable vertical load (static)	
Fz:	300 N
Allowable vertical load (static)	
Mx:	4.75 N·m
My:	4.75 N·m
Mz:	4.75 N·m





Conform to ISO 9409-1-50-4-M6 Standard flange



Customize finger installation size

AG-145

Linkage-type adaptive grippers

DH-ROBOTICS

Gripping force(per jaw)

35~105 N

Stroke

145 mm

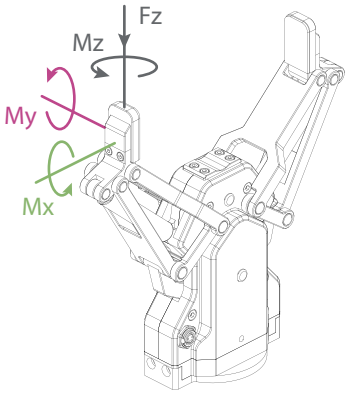
Mechanical specifications

Recommended workpiece weight*	2 kg
Repeat accuracy (positioning)	± 0.03 mm
Opening/closing time	0.7 s/0.7 s
Driving method	Screw drive + Linkage system
Weight	1.3 kg
Noise emission	< 50 dB

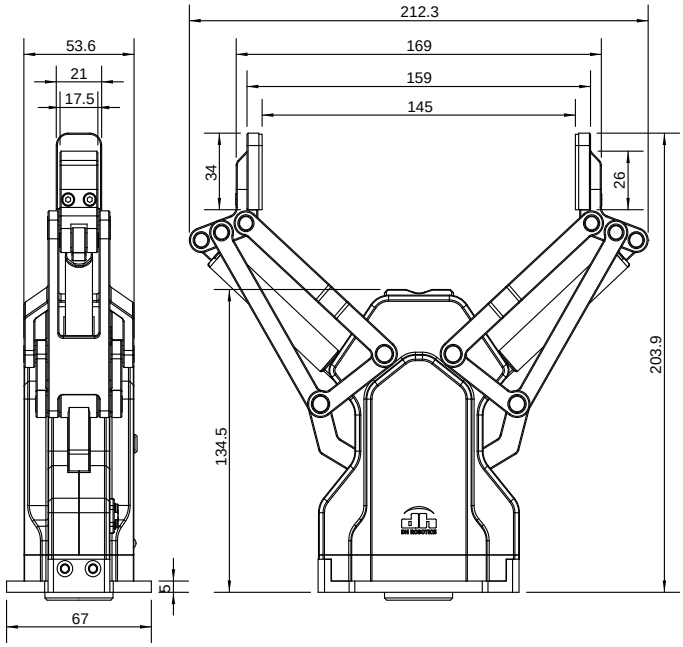
Electrical specifications

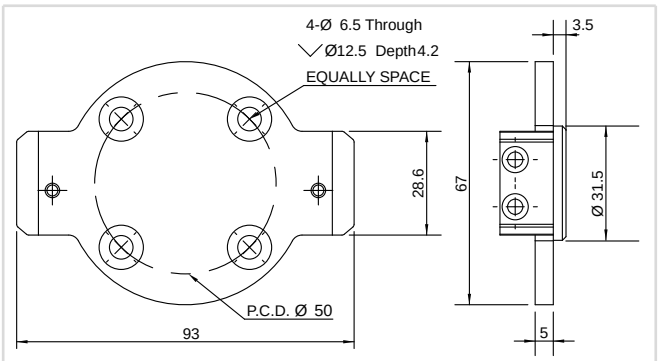
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.8 A
Max. current	1.5 A
IP protection class	IP 54
Recommended operating environment	0~40°C, <85% RH

*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 consult us.

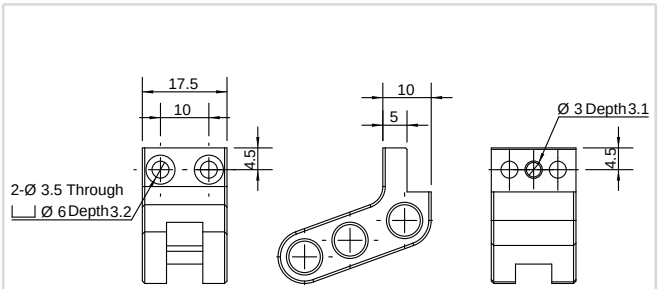


Allowable vertical load (static)	
Fz:	300 N
Allowable vertical load (static)	
Mx:	1.95 N·m
My:	1.95 N·m
Mz:	1.95 N·m





Conform to ISO 9409-1-50-4-M6 Standard flange

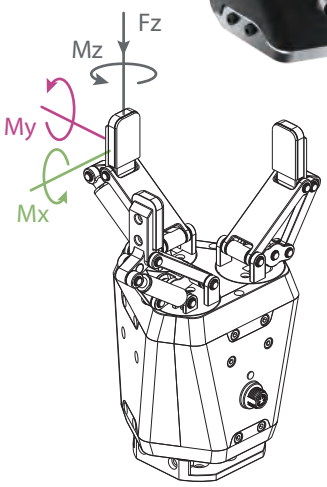


Customize finger installation size

DH-3

Linkage-type adaptive grippers

reddot winner 2020



Allowable vertical load (static)	
Fz:	300 N
Allowable vertical load (static)	
Mx:	2.5 N·m
My:	2 N·m
Mz:	3 N·m

Gripping force(per jaw) **10~65 N**

Stroke **106 mm(parallel) 122 mm(centric)**

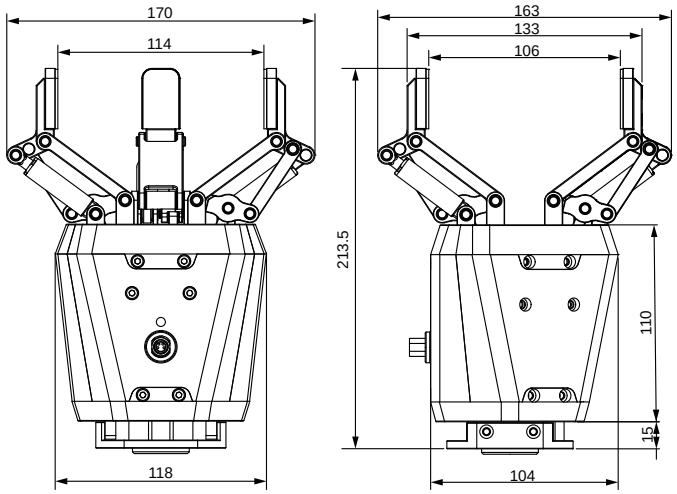
Mechanical specifications

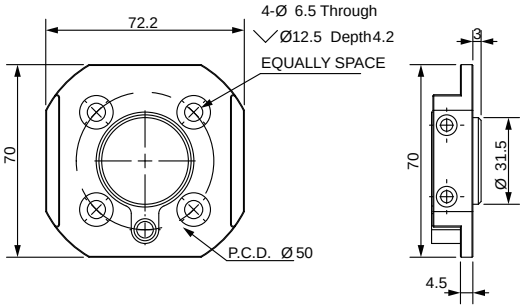
Recommended workpiece weight*	1.8 kg
Repeat accuracy (positioning)	± 0.03 mm
Opening/closing time	0.7 s/0.7 s
Driving method	Screw nut + gear drive + linkage mechanism
Weight	1.68 kg
Noise emission	< 50 dB

Electrical specifications

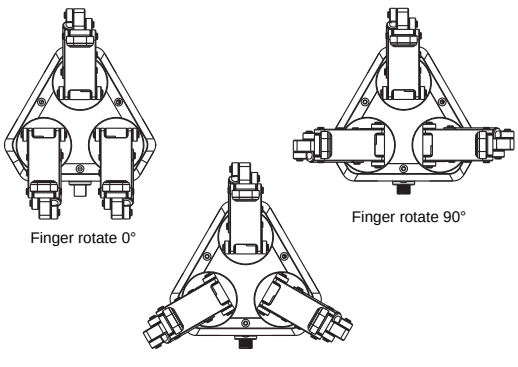
Communication interface	Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A,PROFINET,EtherCAT
Nominal voltage	24 V DC ± 10%
Nominal current	0.5 A
Max. current	1 A
Recommended operating environment	0~40°C, <85% RH

*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 consult us.





Conform to ISO 9409-1-50-4-M6 Standard flange



Robot ecosystem partner (in alphabetical order) :

ABB
遨博智能 AUBO
DOBOT
DOOSAN
ELITE ROBOT 艾利特机器人
EPSON EXCEED YOUR VISION
FLEXIV
FANUC
HAN'S ROBOT
Hanwha
JAKA 节卡
MITSUBISHI ELECTRIC
ROKAE
SIASUN
TM ROBOT
UNIVERSAL ROBOTS
YASKAWA

DH-ROBOTICS client (in alphabetical order) :

BOE 京东方
BOSCH
BGI
BYD
CASC
DJI
FAW-VOLKSWAGEN
FOXCONN
Greatwall
GREE
HELLA
HUAWEI
Lenovo
LENS
LUXSHARE ICT
Lyric Robot
mindray 迈瑞
molex
SAIC MOTOR
SAIC VOLKSWAGEN
SAMSUNG
TOYOTA
周大福 CHOW TAI FOOK

All products strictly follow the standard of CE, FCC, RoHS.

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