

PGSE Series Slim-type Electric Parallel Gripper

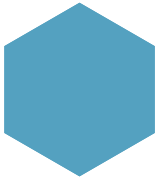
PGSE-15-7

Cost-effective solution for
replacing pneumatic
gripper with electric gripper.

Cost-effective

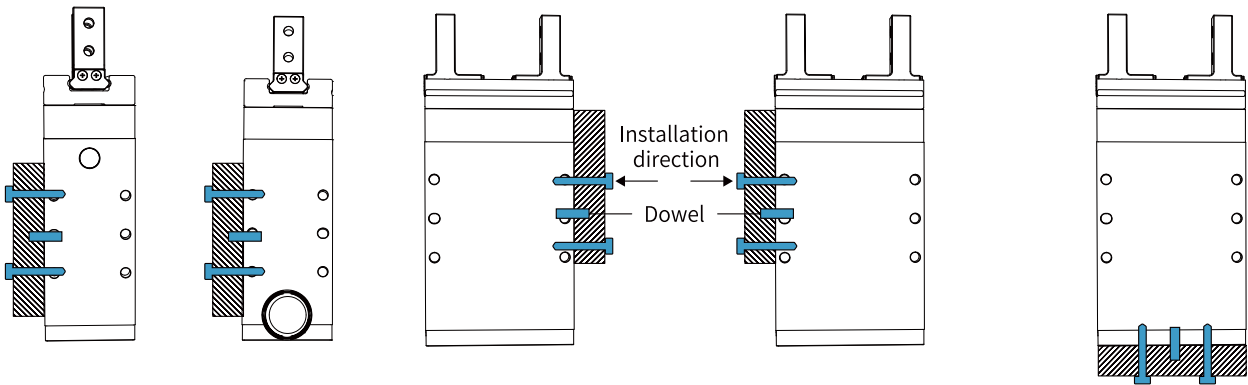


The PGSE Industrial Parallel Gripper is a miniature electric gripper specifically designed to meet the demand for quick grasping in narrow and compact installation spaces in industrial settings.



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.





Selection Method

Serie	Gripping Force	Stroke	Brake	Cable Direction	Communication Protocol	Cable Selection	Fingertip Selection	FLange selection	Other
PGSE	15	7	O	S	M1	L5	J0	F0	0
			Without Brake	Side	M1 Modbus (RS485)+I/O (NN) M2 Modbus (RS485)+I/O (PP) M3 Modbus (RS485)+I/O (NP) M4 Modbus (RS485)+I/O (PN)	L1 1m Cable L3 3m Cable L5 5m Cable L10 10m Cable	Without Fingertip	Without Flange	0 Without USB to RS-485 Converter 4 USB to RS-485 Converter

*⑤ It is recommended that no more than 4 units of DH-Robotics products be accessed on a single 485 bus, otherwise 485 communication anomalies may occur. If you need to access more than 4 devices, it is recommended to contact the sales staff for product adjustment.

Parameters

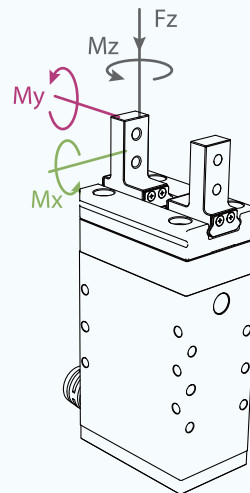
Product Parameter

Gripping force (per jaw)	6~15 N
Stroke	7 mm
Recommended workpiece weight ^{★②}	0.25 kg
Opening/closing time	0.15 s/0.15 s
Noise emission	< 50 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 Environment

Communication interface	Modbus RTU (RS485)、Digital I/O ^{★③}
Rated voltage	24 V DC \pm 10%
Current	0.15 A (Rated)/ 0.8 A (Peak) ^{★④}
Rated Power	3.6 W
IP class	IP 40
Recommended environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS

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



Static Vertical Allowable Load

Fz	70 N
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Allowable Loading Moment

Mx	0.9 N·m
My	0.75 N·m
Mz	0.9 N·m

^{★②} It depends on the shape of the grasping object, the material and friction of the contact surface, and the acceleration of the motion. If you have any questions, please contact us.
^{★③} Requires external communication convertor or customization, please contact sales or technical support.
^{★④} When selecting the power supply, please select according to the peak current. If the current is lower than the parameter, it will cause the product can not work normally.

Technical Drawings

