

PGLS Series Industrial Flat Electric Grippers

New
Arrival

PGLS-700



Product Features

➤ Thin | High energy density

The PGLS-700 heavy-duty electric gripper is compact in design and only 50mm thick. It has high gripping force, fast gripping cycle and built-in power-off hold function. This gripper challenges the limits of large load, compactness and thinness.

➤ High force control accuracy

The force repeatability is $\pm 70N(\pm 10\%)$, 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(100 stroke), with speed control optimization and mechanical self-locking mechanism function, it can meet fast and stable gripping needs of the production line.

PGLS-700-100

Product Parameter

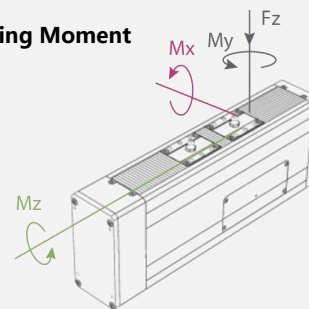
Gripping force(per jaw)	240~700 N
Total stroke	100 mm
Recommend payload*①	8 kg
Opening/closing time	1.0 s/1.1 s
Repeat accuracy(position)	± 0.02 mm
Operating noise	< 75 dB
Weight	2.7 kg
Diving method	Precision reduction box + ball screw + built-in guide rail
Size	262 mm x 98 mm x 50 mm

Static Vertical Allowable Load

FZ 2000 N

Allowable Loading Moment

Mx 94 N·m
My 94 N·m
Mz 24 N·m



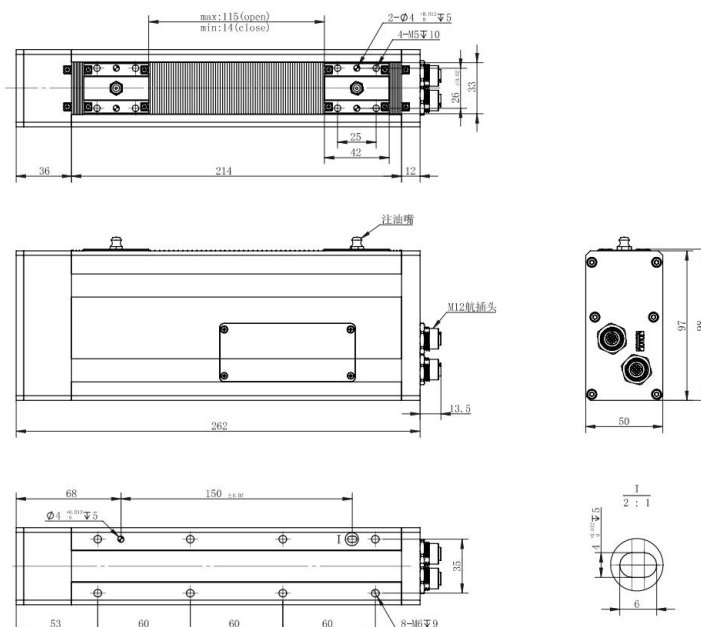
*① It depends on factors such as the shape of the grasped object, the contact surface material and friction, and the acceleration of the movement; the center of gravity offset of the grasped object will also affect the load. If you have any questions, please consult us.

*② Using the optional communication protocol, an external communication conversion box is required. Please consult the sales staff for details.

Working Environment

Communication interface	Standard: IO-Link Modbus RTU (RS485), Optional: TCP/IP、USB2.0、CAN2.0A、PROFINET、EtherCAT *②
Rated voltage	24 V DC ± 10%
Rated current	4.5 A
Peak current	13.5 A
IP class	IP 40
Recommend environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS

Technical Drawings



PGLS-700-200

Product Parameter

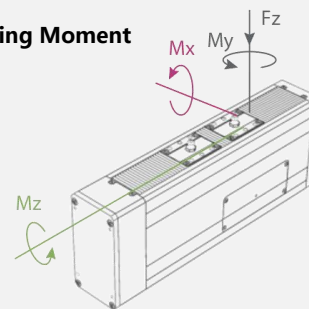
Gripping force(per jaw)	240~700 N
Total stroke	200 mm
Recommend payload*①	8 kg
Opening/closing time	2.0 s/2.1 s
Repeat accuracy(position)	± 0.02 mm
Operating noise	< 75 dB
Weight	3.7 kg
Diving method	Precision reduction box + ball screw + built-in guide rail
Size	382 mm x 98 mm x 50 mm

Static Vertical Allowable Load

FZ 2000 N

Allowable Loading Moment

Mx 94 N·m
My 94 N·m
Mz 24 N·m



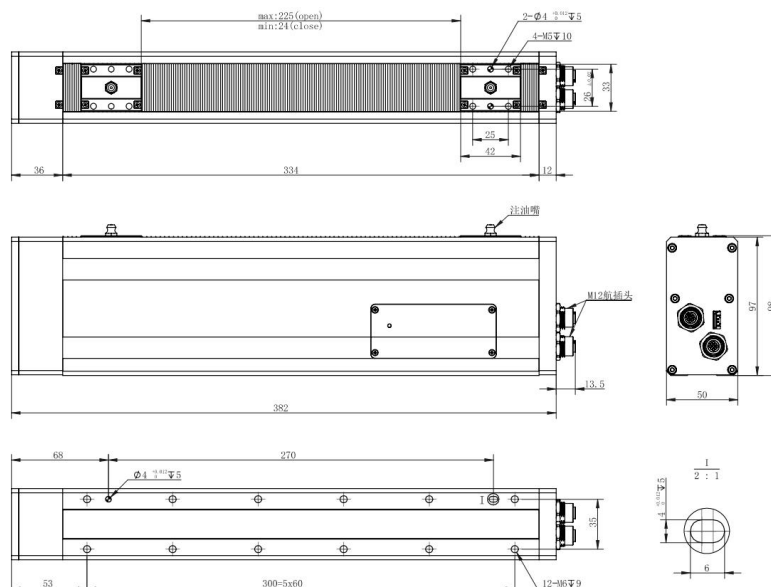
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Communication interface	Standard: IO-Link Modbus RTU (RS485)、 Optional: TCP/IP、USB2.0、CAN2.0A、PROFINET、EtherCAT *②
Rated voltage	24 V DC ± 10%
Rated current	4.5 A
Peak current	13.5 A
IP class	IP 40
Recommend environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS

Technical Drawings



PGLS Series Industrial Flat Electric Grippers

New
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PGLS-1200



Product Features

➤ Thin | High energy density

The PGLS-1200 heavy-duty electric gripper is compact in design and only 50mm thick. It has high gripping force, fast gripping cycle and built-in power-off hold function. This gripper challenges the limits of large load, compactness and thinness.

➤ High force control accuracy

The force repeatability is $\pm 120\text{N}(\pm 10\%)$, 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 2.0s/2.2s(100 stroke), with speed control optimization and mechanical self-locking mechanism function, it can meet fast and stable gripping needs of the production line.

PGLS-1200-100

Product Parameter

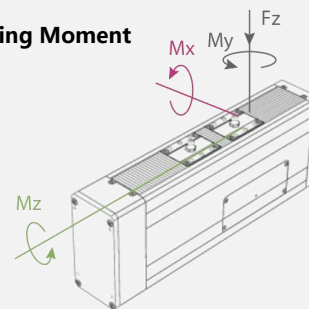
Gripping force(per jaw)	400~1200 N
Total stroke	100 mm
Recommend payload*①	12 kg
Opening/closing time	2.0 s/2.2 s
Repeat accuracy(position)	± 0.02 mm
Operating noise	< 75 dB
Weight	3.2 kg
Diving method	Precision reduction box + ball screw + built-in guide rail
Size	262 mm x 98 mm x 50 mm

Static Vertical Allowable Load

FZ 2000 N

Allowable Loading Moment

Mx 94 N·m
My 94 N·m
Mz 24 N·m



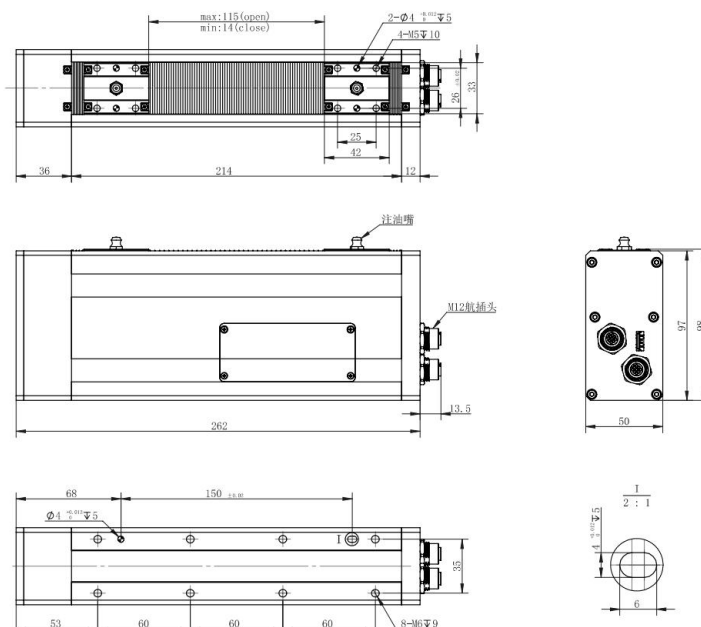
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Working Environment

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Rated voltage	24 V DC ± 10%
Rated current	4.5 A
Peak current	13.5 A
IP class	IP 40
Recommend environment	0~40°C, under 85% RH
Certification	CE, FCC, RoHS

Technical Drawings



PGLS-1200-200

Product Parameter

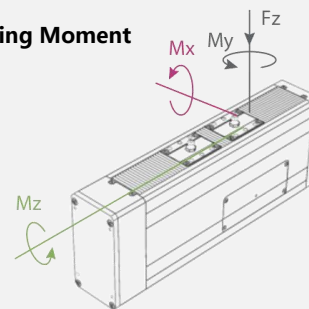
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Operating noise	< 75 dB
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Diving method	Precision reduction box + ball screw + built-in guide rail
Size	382 mm x 98 mm x 50 mm

Static Vertical Allowable Load

FZ 2000 N

Allowable Loading Moment

Mx 94 N·m
My 94 N·m
Mz 24 N·m



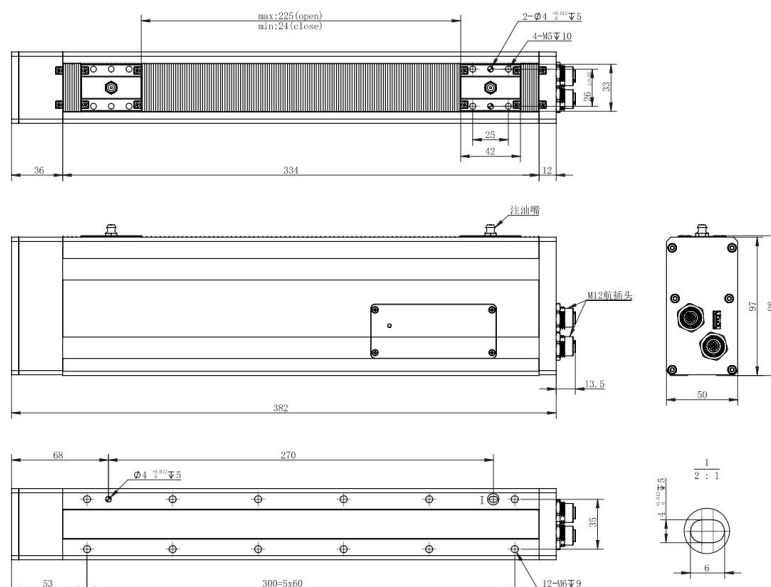
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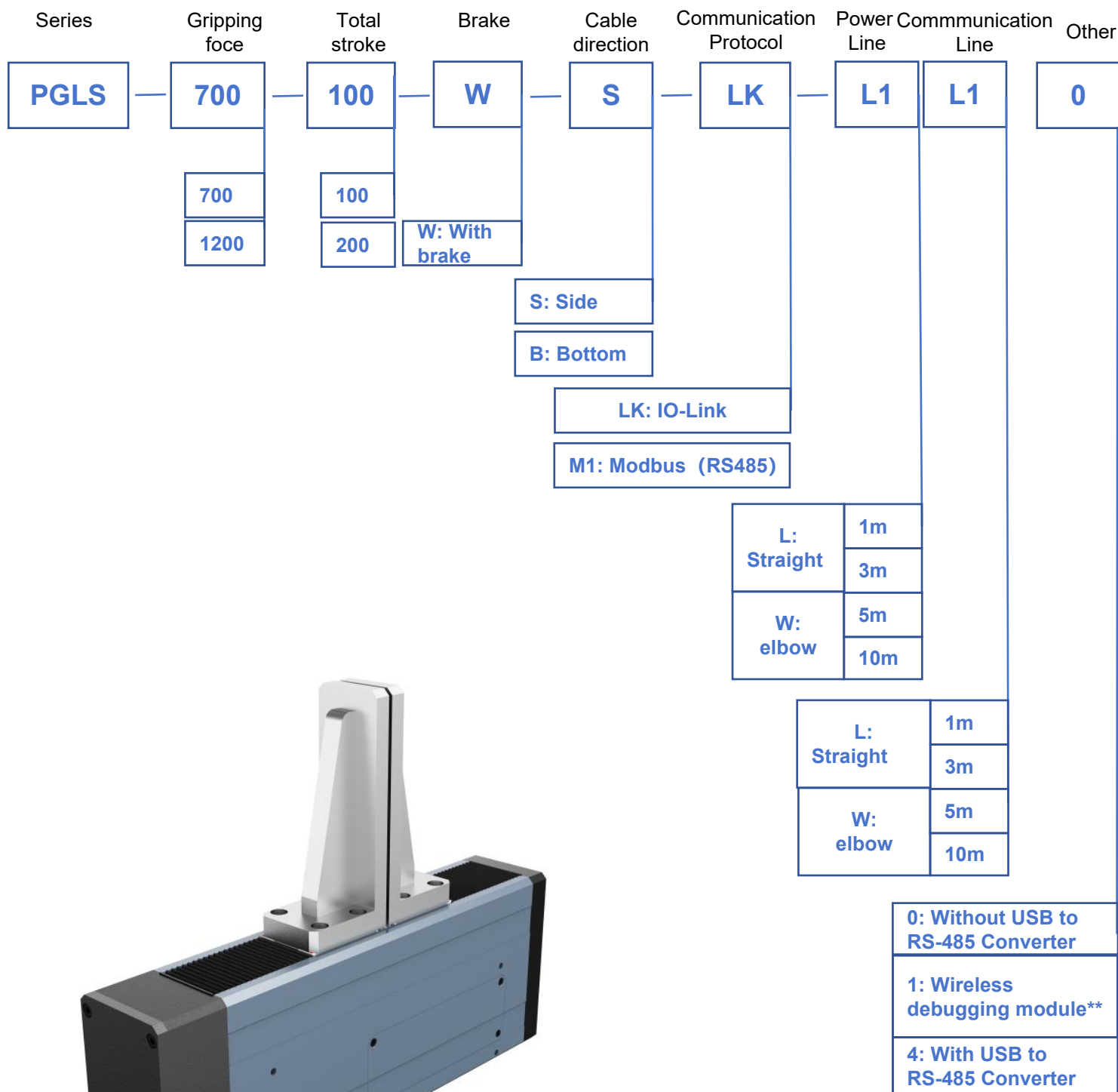
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Model Selection Method



*Note: IO-Link communication protocol recommends configuring a wireless debugging module