PGHL-400-80

Heavy-Load Long-Stroke Electric Parallel Gripper

Bottom installation

Selection Method

Serie	Gripping Force	Stroke	Brake	Cable Direction	Communication Protocol	Cable Selection	Fingertip Selection	Flange Selection
PGHL	400	80	W	S	M1	L5	J0	F0

Brake	
W	With Brake

Cable Direction	
S	Side

Communication Protocol ★①★⑤	
M1	Modbus (RS485)+I/O (NN)
M2	Modbus (RS485)+I/O (PP)
M3	Modbus (RS485)+I/O (NP)
M4	Modbus (RS485)+I/O (PN)

Cable Selection	
LX	Without Extend Cable
L1	1m Cable
L3	3m Cable
L5	5m Cable
L10	10m Cable
L15	15m Cable

Fingertip Selection	
J0	Without Fingertip

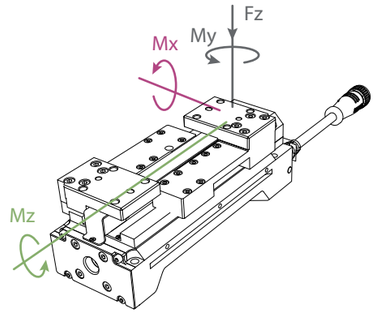
Flange Selection	
F0	Without Flange

★①:
I/O(NN): NPN/NPN
I/O(PP): PNP/PNP
I/O(NP): NPN/PNP
I/O(PN): PNP/NPN

*⑤ It is recommended that no more than 4units 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.

The Modbus RTU (RS485) to USB module will no longer be provided for free. Please place a separate order if needed.

TECHNICAL SPECIFICATIONS



Static Vertical Allowable Load	
Fz	1000 N

Allowable Loading Moment	
Mx	50 N·m
My	50 N·m
Mz	15 N·m

*② The recommended load calculation is based on pure friction force gripping, with a friction coefficient of 0.2 and a safety factor of 4. The center of gravity shift of the gripped object will also affect the load. If you have any questions, please consult us.
*③ Requires external communication convertor or customization, pleass 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.

Product Parameter	
Gripping force (per jaw)	140~400 N
Recommended workpiece weight *②	8 kg
Stroke	80 mm
Full stroke opening/closing time	1.0 s/1.1 s
Repeat accuracy (position)	± 0.02 mm
Weight	2.2 kg
Size	194 mm x 73 mm x 70 mm
Noise emission	< 60 dB
Driving method	Precise planetary gears+ Tshaped lead screw+Rack and pinion

Working Environment	
Communication interface	Standard: Modbus RTU (RS485)、Digital I/O(2 inputs 2 outputs) Optional: TCP/IP、USB2.0、CAN2.0A、PROFINET、EtherCAT *③
Rated voltage	24 V DC ± 10%
Current	1 A(Rated)/ 3 A(Peak) *④
Rated power	24 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

Technical Drawings