PGC Series Electric Collaborative Parallel Gripper

PGC-50-35 PGC-140-50 PGC-300-60

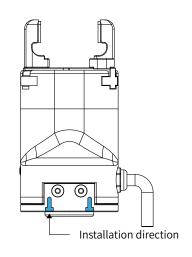


DH-Robotics PGC series of collaborative parallel electric grippers is an electric gripper mainly used in cooperative manipulators. It has the advantages of high protection level, plug and play, large load and so on. The PGC series combines precision force control and industrial aesthetics. In 2021, it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

to IP67, so the PGC series is able to work under harsh conditions such as machine tending environment.

Plug & Play

The protection level of PGC series is up 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.





Parameters

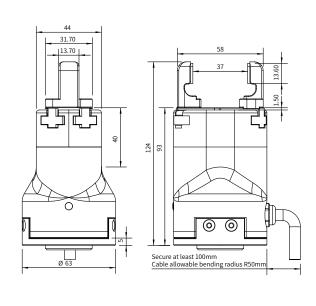
Prod	Product Parameter						
Gripp	Gripping force (per jaw)			15~50 N			
Strok	Stroke			35 mm			
Reco	Recommended workpiece weight *				1 kg		
Open	Opening/Closing time				0.7 s/0.7 s		
Repe	Repeat accuracy (position)			± 0.03 mm			
Noise emission			< .	50 dB			
Weight 0.5			0.5 kg				
Drivir	Driving method Precise planetary gears + Rack and pinio			oinion			
Size	Size 124 mm x 63 mm x 63 mm			3 mm			
Work	Working Environment						
Comm	Communication interface Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT						
Rated	Rated voltage 24 V DC \pm 10%			10%			
Rated	Rated current 0.25 A).25 A		
Peak	Peak current 0.5 A				0.5 A		
IP cla	IP class IP 54				IP 54		
Recommended environment 0~40°C, under 85% RH							
Certi	Certification CE, FCC, RoHS			RoHS			
Build-in	Gripping Force	Position	Speed	Drop	Plug &	Self-locking	

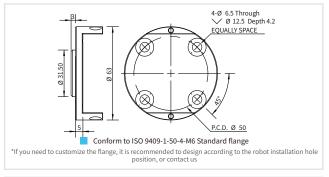


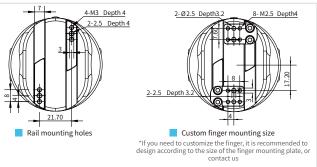
vertical maximum Force			
Fz:	150 N		
Allowable Moment			
Mx:	2.5 N⋅m		
My:	2 N·m		
Mz:	3 N⋅m		

[&]quot;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.

Technical Drawings







Parameters

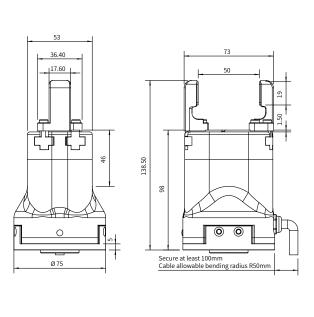
Product Parameter						
Gripping force (per jaw)			40~140 N			
Stroke	Stroke			50 mm		
Recommended workpiece weight *				3 kg		
Opening/Closing		0.6 s/0.6 s				
Repeat accuracy (position) \pm				± 0.03	3 mm	
Noise emission < 50			50 dB			
Weight 1 k			1 kg			
Driving method Precise planetary gears + Rack and pinion				oinion		
Size 138.5 mm x 75 mm x 75 mm			5 mm			
Working Environment						
Communication interfa	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%				10%		
Rated current 0.4 A				0.4 A		
Peak current 1 A				1 A		
IP class IP 67				IP 67		
Recommended environment 0~40°C, under 85% RH						
Certification	Certification CE, FCC, RoHS				RoHS	
Build-in Gripping Force Controller Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Plug & Play	Self-locking Mechanism	

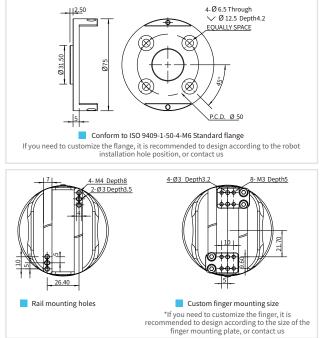


Vertical Maximum F	orce
Fz:	300 N
Allowable Moment	
Mx:	7 N⋅m
My:	7 N⋅m
Mz:	7 N·m

^{*}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.

Technical Drawings





PGE Series

Parameters

Product Parameter					
Gripping force (per jaw) 40~30				300 N	
Stroke		60 mm			
Recommended workpiece weight * 6 kg				6 kg	
Opening/Closing time 0.8 s/0.8 s				/0.8 s	
Repeat accuracy (position) \pm 0.03 mm				3 mm	
Noise emission < 50 dB				50 dB	
Weight 1.5 kg				1.5 kg	
Driving method Precise planetary gears + Rack and pinion				oinion	
Size 178 mm x 90 mm x 90 mm				0 mm	
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%				10%	
Rated current 0.4 A				0.4 A	
Peak current 2 A				2 A	
IP class IP 67				IP 67	
Recommended environment 0~40°C, under 85% RH					
Certification CE, FCC, RoHS				RoHS	
	Position Adjustable	Speed Adjustable	Drop Detection	Plug & Play	Self-locking Mechanism



Vertical Maximu	m Force
Fz:	600 N
Allowable Mome	ent
Mx:	15 N·m
My:	15 N·m
Mz:	15 N·m

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Technical Drawings

