

CGI-100-170

Electric Centric Gripper



Selection Method

Serie	Gripping Force	Stroke	Brake	Cable Direction	Communication Protocol	Cable Selection	Fingertip Selection	Flange Selection	Robot Cable
CGI	100	170	O	S	M1	L5	J1	F1	00
			O Without Brake W With Brake	S 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)	LX Without Extend Cable L1 1m Cable L3 3m Cable L5 5m Cable L10 10m Cable	J1 Standard Fingertip	F1 Standard Fingertip	Table Below

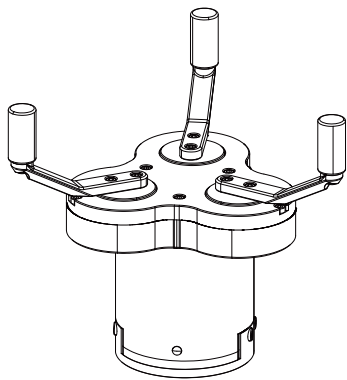
★①:		00	01	SIASUN	DOBOT CR	02	AUBO	04	JAKA	06	ROKAE SR	09	Doosan A	11	Elite EC	13	Neuromeka	15	Hanwha HCR
I/O(NN): NPN/NPN		Without Robot Cable	Elite CS	Hanwha A	DOBOT Nova					ROKAE ER									
I/O(PP): PNP/PNP			UR CB	UR E															
I/O(NP): NPN/PNP																			
I/O(PN): PNP/NPN																			

*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.

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

TECHNICAL SPECIFICATIONS



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.

*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, 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.

Product Parameter

Gripping force (per jaw)	30~100 N
Recommended workpiece weight *②	1.5 kg
Recommended workpiece diameter (inward)	Φ40~Φ170 mm
Full stroke opening/closing time	1.35 s
Repeat accuracy (position)	± 0.03 mm
Weight	1.5 kg
Size	158.4mmx124.35mmx116mm (without brake/with brake,same size)
Noise emission	< 50 dB
Driving method	Precise planetary gears + 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	0.4 A(Rated)/ 1 A(Peak) *④
Rated power	9.6 W
IP class	IP 40
Recommended environment	0~40℃, under 85% RH
Certification	CE, FCC, RoHS



Built-in Controller



Gripping Force Adjustable



Position Adjustable



Speed Adjustable

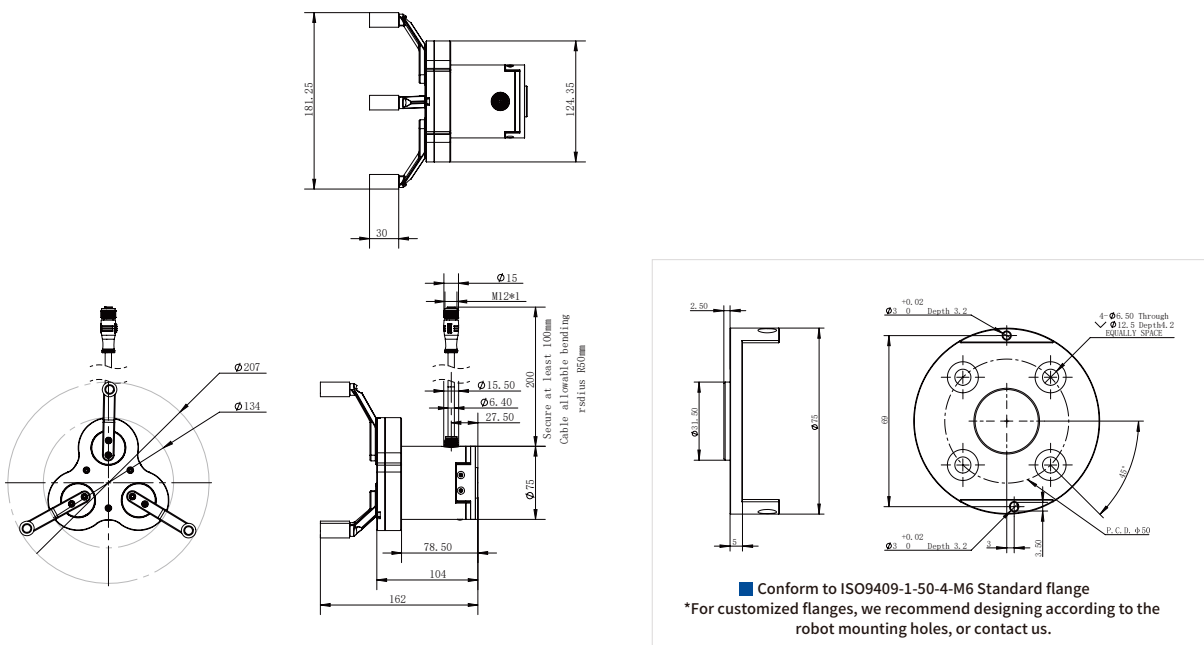


Drop Detection



Self-locking Mechanism

Technical Drawings



Conform to ISO9409-1-50-4-M6 Standard flange

*For customized flanges, we recommend designing according to the robot mounting holes, or contact us.