AG Series Electric Adaptive Gripper

AG-160-95 AG-105-145 DH-3

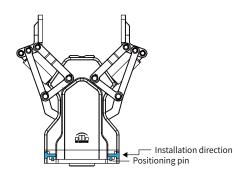


The AG series is a linkage-type adaptive electric gripper which is independently developed by DH-Robotics. With Plug& Play software many and exquisite structural design, AG series is a perfect solution to be applied with collabrative robots to grip work-pieces with different shapes in different industries.



Installation

1. Bottom installation: use bottom screw holes for installation



Product Features

Envelope Adaptive Capture

The gripper linkage mechanism supports envelope adaptive grasping, which is more stable to grip round, spherical or special-shaped objects.

Plug & Play

It supports plug & play with most collaborative robot brands on the market which is easier to control and program.

Long Stroke

The biggest stroke of the AG series is up to 145 mm. One gripper can meet the grasping needs of objects of different sizes with good compatibility.

Application

Cooperate with collaborative robot or industrial robot to complete material handling, loading and unloading, assembly, testing, sorting and other tasks in auto parts, automation equipment, new energy and other industries.





Parameters

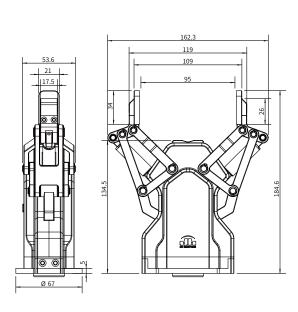
Product Parameter							
Gripping force (per jaw)				45~160 N			
Stroke				95 mm			
Reco	Recommended workpiece wei				* 3 kg		
Open	ing/Closir	ng time		0.7 s/0.7 s			
Repe	Repeat accuracy (position)			\pm 0.03 mm			
Noise emission				< 50 dB			
Weig	Weight					1 kg	
Drivii	Driving method			Screw drive + Linkage system			
Size	Size 18			34.6 mm x 162.3 mm x 67 mm			
Worl	Working Environment						
Communication interface Standard: Modbus RTU (RS485), Digital I/O Optional: TCP/IP, USB2.0, CAN2.0A, PROFINET, EtherCAT							
Rated voltage 24 V D			24 V DC ±	10%			
Rated current				0.8 A			
Peak current				1.5 A			
IP class IP 5				IP 54			
Recommended environment 0~40°C, under 85% RH							
Certification CE, FCC, RoHS				RoHS			
Build-in Controller	Gripping Force Adjustable	Position Adjustable	Speed Adjustable	Drop Detection	Plug & Play	Self-locking Mechanism	

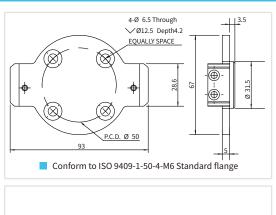


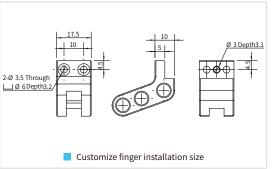
Vertical Maxim	um Force		
Fz:	300 N		
Allowable Mon	nent		
Mx:	4.75 N·m		
Му:	4.75 N⋅m		
Mz:	4.75 N⋅m		

^{*}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







Parameters

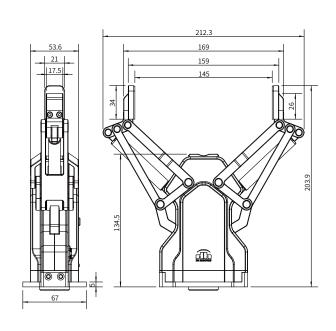
Product Parameter					
Gripping force (per jaw)		35~	105 N	
Stroke			14	5 mm	
Recommended workpi	ece weight	*	2 kg		
Opening/Closing time			0.7 s/0.7 s		
Repeat accuracy (posit	ion)	± 0.03 mm			
Noise emission			<	50 dB	
Weight				1.3 kg	
Driving method	Scre	w drive +	Linkage sy	/stem	
Size	203.9	mm x 212	.3 mm x 6	7 mm	
Working Environmen	t				
Communication interface	Sta Optional: TCP/I	andard: Modbus P, USB2.0, CAN2			
Rated voltage			24 V DC ±	10%	
Rated current				0.8 A	
Peak current				1.5 A	
IP class				IP 54	
Recommended environment 0~40°C, under 85% RH					
Certification CE, FCC			CE, FCC,	RoHS	

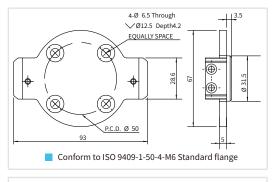


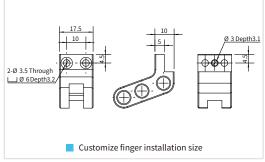
Force		
300 N		
t		
1.95 N·m		
1.95 N⋅m		
1.95 N·m		

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Technical Drawings







Parameters

Product Parameter						
Gripping force (10~65 N				
Stroke	Stroke 106 mm (parallel) 122 mm (centric				ntric)	
Recommended	Recommended workpiece v				1.8 kg	
Opening/Closin	Opening/Closing time			0.7 s/0.7 s		
Repeat accuracy	Repeat accuracy (position)			\pm 0.03 mm		
Noise emission	Noise emission			< 50 dB		
Weight	Weight			1.	.68 kg	
Driving method	Driving method Screw nut + gear drive + linkage mechanism			anism		
Size	Size 213.5 mm x 170 mm x 118 mi			8 mm		
Working Enviro	Working Environment					
Communication	e	Standard: TCP/IP, USB2.0, CAN2.0A Optional: EtherCAT				
Rated voltage		24 V DC \pm 10%				
Rated current		0.5 A				
Peak current				1 A		
IP class				IP 40		
Recommended environment 0~40°C, under 85% RH					% 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 Maximu	ım Force
Fz:	150 N
Allowable Mom	ent
Mx:	2.5 N·m
My:	2 N·m
Mz:	3 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

