

Electric Grippers

SG 150 2-Finger

SG is a 2-finger electric gripper with serial interface that optimizes the sensitive handling of the various products and devices in the laboratory automation as well as a wide range of applications in the general industry.

Advantages

- Precise positioning of the gripper fingers
- Programmable gripping force and speed
- High positioning speed
- Simple integration in laboratory and process automation
- Grip actuation via embedded controller
- Easy cleaning
- IP30 protection class (IP68 optional)
- Additional accessories: connection cable, mounting interfaces, gripping fingers



SPECIFICATIONS

Model	Stroke per Jaw	Min. Cycle Time	Gripping Force per Jaw	Total Gripping Force	Speed	Recommended Workpiece Weight*	Position Accuracy	Repeatability	Weight
SG 150	50 mm 1.97 in	280 ms	50 N 11.24 lb	100 N 22.48 lb	175 mm/s	0.5 kg 1.10 lb	± 0.05 mm ± 0.002 in	± 0.01 mm ± 0.0004 in	0.43 kg 0.95 lb

* Recommended workpiece weight depends on the shape of the part, the material and friction of the contact surface and the acceleration of the motion.

Communication Interface **RX/TX (RS232 or RS485)**

Nominal Voltage **24 V DC**

Maximum Power Consumption **0.7 Amp**

Noise Emission (Sound Pressure) **≤ 40 dB(A) in any direction**

Recommended operating environment **-20 - +60°C (-4 - +104 °F)**

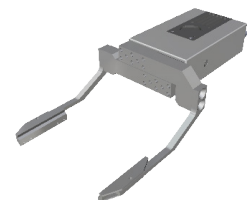
Example of configuration:



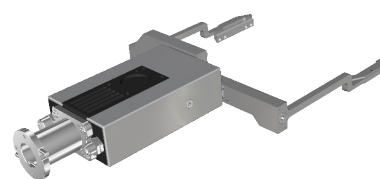
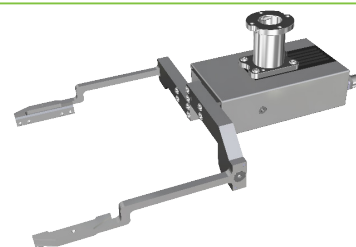
BASIC GRIPPER		
STEP 1	SG 050	
INTERFACE		
STEP 2	R [1/2]	[1] RS 232 [2] RS 485
PICK & PLACE FUNCTION		
STEP 3	P	SG 050 Pick & Place (25N)
IP68 AND H ² O ² PROTECTION		
STEP 4	W	IP68 waterproof
	H	IP68 waterproof and H ² O ² resistant
SAFETYGRIP - MAGNETIC BRAKE		
STEP 5	S [1/2]	[1] SG with mounting from above [2] SG with mounting from behind
CLEAN ROOM ISO 14644		
STEP 6	C [1/3]	[1] Clean room class ISO 6 [2] Clean room class ISO 5 [3] Clean room class ISO 1

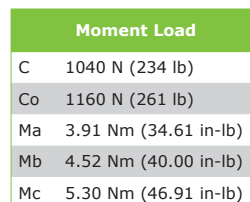
Interface RS232 or RS485

- 24 volts
- 100 mm gripping stroke
- 50 N closing force



Safetygrip - Magnetic brake





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