Magnet Gripper

Adsorbs and Holds with a Magnet

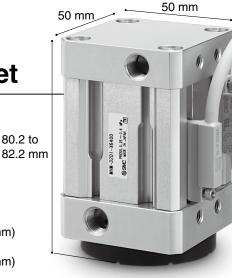
■Steel plates can be transferred without a vacuum.

Supports workpieces with holes and uneven surfaces where a vacuum pad cannot be used.

■Holds workpieces even when air is shut off.

■ High holding force 80 N (Workpiece plate thickness: 0.6 mm) $120\ N\ \text{(Workpiece plate thickness: 1.4 mm)}$

■ Residual holding force 0.3 N or less (Reduces workpiece release time)



Workpiece adsorption/holding Air supply **Piston** Workpiece Magnet

Piston Magnet Workpiece Air supply

Workpiece release

■Holding force can be adjusted with a bumper with 3 types of thicknesses.

Thickness	Holding force
6 mm	80 N
7 mm	50 N
8 mm	30 N

Prevents deformation of workpieces and accidental adsorption of a second piece. Fluororubber with excellent oil resistance is used. Has a contact surface structure which reduces sideslip. Bumper can be replaced without a tool.

Adsorption





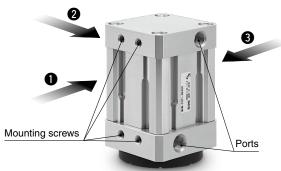
Auto switches can be mounted on 4 surfaces.

Magnetic field resistant auto switch:

D-P3DWA

Small auto switch: D-M9□V

Mountable on 3 surfaces.

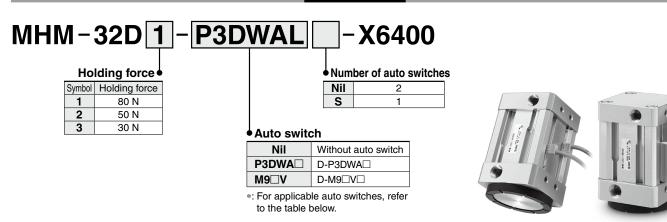


MHM-X6400



Magnet Gripper MHM-X6400

How to Order



Applicable Auto Switches: Refer to Best Pneumatics No. 3 for further information on auto switches. **Magnetic Field Resistant Auto Switches**

Туре	Auto switch model	Applicable magnetic field	Electrical entry	Indicator light	Wiring (Pin no. in use)	Load voltage	Lead wire length	Applicable load
P3DWASC 1.0			Pre-wired		2-wire (3-4)		0.3 m	
Solid state auto switch	P3DWASE	AC magnetic field (Single-phase AC welding magnetic field)	connector	2-color	2-wire (1-4)		0.3 111	Relay, PLC
	P3DWA		Grommet		2-wire	24 VDC	0.5 m	
	P3DWAL						3 m	
	P3DWAZ						5 m	

Small Auto Switches

		Electrical Indic		Wiring	Load voltage		Auto switch model	Auto switch model Lead wire length [m]			Pre-wired	Applicable						
Туре	Special function	entry	light			DC	AC	Perpendicular	0.5 (Nil)	1 (M)	3 (L)	5 (Z)	connector	loa				
ج				3-wire (NPN)		5 V, 12 V		M9NV	•	•	•	0	0	IC				
switch	_			3-wire (PNP)] °] [5 V, 12 V		M9PV	•	•	•	0	0	circuit	
			2-wire		12 V		M9BV	•	•	•	0	0	_					
auto	9		3-wire (NPN))	E V 10 V	5 V, 12 V	M9NWV	•	•	•	0	0	IC	Dolov				
a a	Diagnostic indication (2-color indicator)	Grommet	Yes	3-wire (PNP) 24 \	24 V 5 V, 12 V	(PNP) 24 V	24 V 3 V, 12 V	24 V 3	_	M9PWV	•	•	•	0	0	circuit	Relay, PLC	
state	(2-color indicator)				2-wire		12 V		M9BWV	•	•	•	0	0	_	1 LO		
Water resistant (2-color indicator)	Water registers	3-wire (NPN)	5 V 10 V	5 V, 12 V		5 V 10 V		M9NAV	0	0	•	0	0	IC				
			3-wire (PNP)		5 V, 12 V		M9PAV	0	0	•	0	0	circuit					
	(2-color malcator)			2-wire		12 V	M9BAV	0	0	•	0	0	_					

- *: Solid state auto switches marked with "O" are produced upon receipt of order.
- *: For details about auto switches with pre-wired connectors, refer to Best Pneumatics No. 3.
- *: Auto switches are shipped together, but not assembled.

- *: Lead wire length symbols: 0.5 mNil (Example) M9NWV
 - 1 m ······ M (Example) M9NWVM 3 m ······ L (Example) M9NWVL
 - 5 m Z (Example) M9NWVZ

Specifications

Action		Double acting				
Fluid		Air				
Operating pressur	е	0.25 to 0.6 MPa				
Ambient and fluid	temperature	-10 to 60°C (No freezing)				
Holding force	MHM-32D1-X6400	80 N				
(Workpiece thickness:	MHM-32D2-X6400	50 N				
0.6 mm)	MHM-32D3-X6400	30 N				
Residual holding f	orce	0.3 N or less				
Lubrication		Non-lube				
Weight		475 g				

Bumper Order No.

Symbol	Holding force	Model				
1	80 N	MHM-A3201-1-X6400				
2	50 N	MHM-A3201-2-X6400				
3	30 N	MHM-43201-3-X6400				

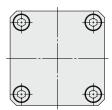


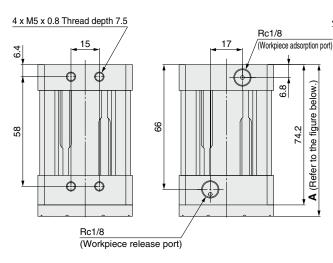


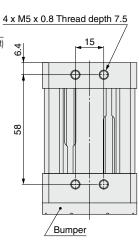
Magnet Gripper MHM-X6400

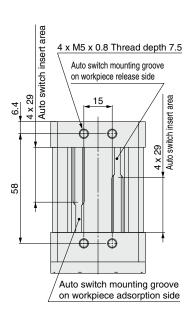
Dimensions

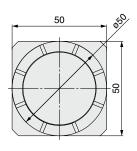


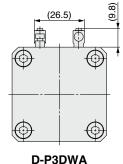


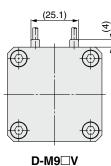




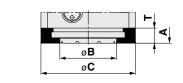








With auto switch



Symbol	Part number	Α	øΒ	øС	T
1	MHM-32D1-X6400	80.2	39	50	(6)
2	MHM-32D2-X6400	81.2	30		(7)
3	MHM-32D3-X6400	82.2	30		(8)

Bumper dimensions

- Since a thin plate is used for the metal surface on the end, damage may occur when an impact load is applied due to contact with a workpiece. Be sure to attach a bumper before use, and check and adjust operation so that no impact load is applied to the metal surface.
- When operating an actuator with a small diameter and a short stroke at a high frequency, dew condensation (water droplets) may occur inside the piping depending on the conditions.

Simply connecting the moisture control tube (IDK series) to the actuator will prevent dew condensation from occurring. For details, refer to the IDK series in the **WEB catalog**.

