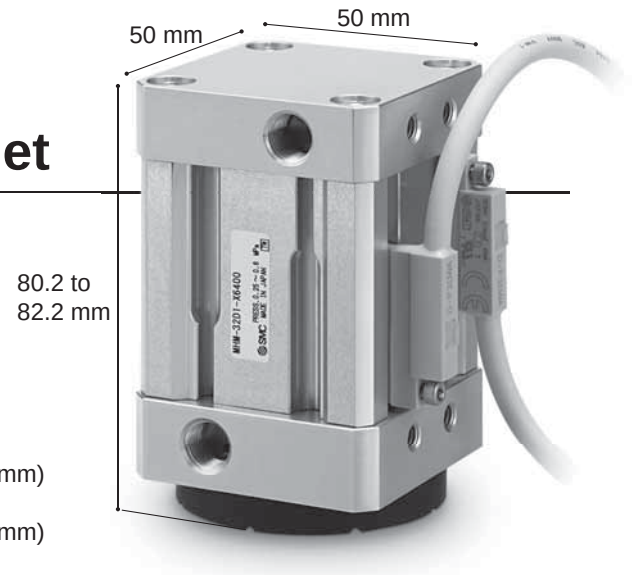
Magnet Gripper

Adsorbs and Holds with a Magnet



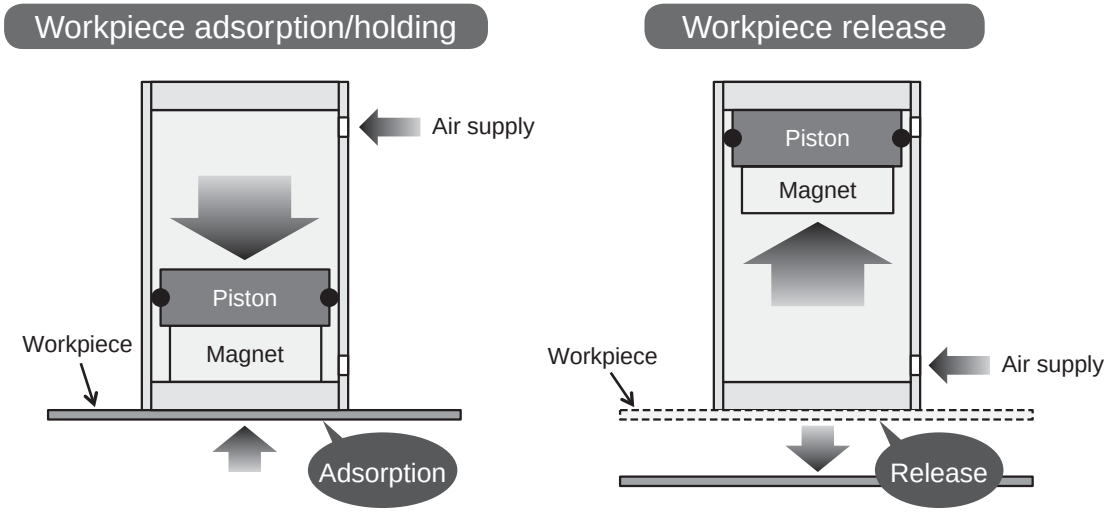
■Steel plates can be transferred without a vacuum.

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 (Workpiece plate thickness: 1.4 mm)

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



■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

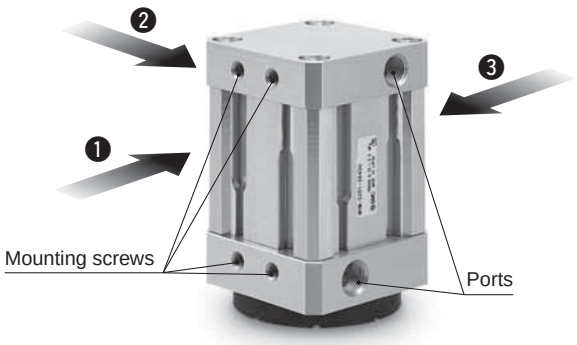
Prevents deformation of workpieces and accidental adsorption of a second piece. Fluororubber with excellent oil resistance is used. Has a contact surface structure which reduces sideslip. Bumper can be replaced without a tool.

■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

SMC

Magnet Gripper
MHM-X6400

How to Order

MHM−32D [1] − [P3DWAL] [ ] − X6400

Holding force

Symbol	Holding force
1	80 N
2	50 N
3	30 N

Number of auto switches

—	2
S	1

Auto switch

—	Without auto switch
P3DWA□	D-P3DWA□
M9□V	D-M9□V□

∗: For applicable auto switches, refer to the table below.

Applicable Auto Switches: Refer to Auto Switch Guide on **www.smc.eu** for further information on auto switches.

Magnetic Field Resistant Auto Switches

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

Small Auto Switches

Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage			Auto switch model	Lead wire length [m]				Pre-wired connector	Applicable load	
					DC		AC	Perpendicular	0.5 (—)	1 (M)	3 (L)	5 (Z)			
Solid state auto switch	—	Grommet	Yes	3-wire (NPN)	24 V	5 V, 12 V	—	**M9NV**	●	●	●	○	○	IC circuit	Relay, PLC
				3-wire (PNP)				**M9PV**	●	●	●	○	○		
				2-wire		12 V		**M9BV**	●	●	●	○	○	—	
	Diagnostic indication (2-colour indicator)			3-wire (NPN)		5 V, 12 V		**M9NWV**	●	●	●	○	○	IC circuit	
				3-wire (PNP)				**M9PWV**	●	●	●	○	○		
				2-wire		12 V		**M9BWV**	●	●	●	○	○	—	
	Water resistant (2-colour indicator)			3-wire (NPN)		5 V, 12 V		**M9NAV**	○	○	●	○	○	IC circuit	
				3-wire (PNP)				**M9PAV**	○	○	●	○	○		
				2-wire		12 V		**M9BAV**	○	○	●	○	○	—	

∗: Solid state auto switches marked with "○" are produced upon receipt of order.
∗: For details about auto switches with pre-wired connectors, refer to Auto Switch Guide.
∗: Auto switches are shipped together, but not assembled.

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

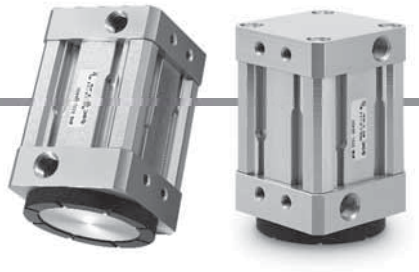
Specifications

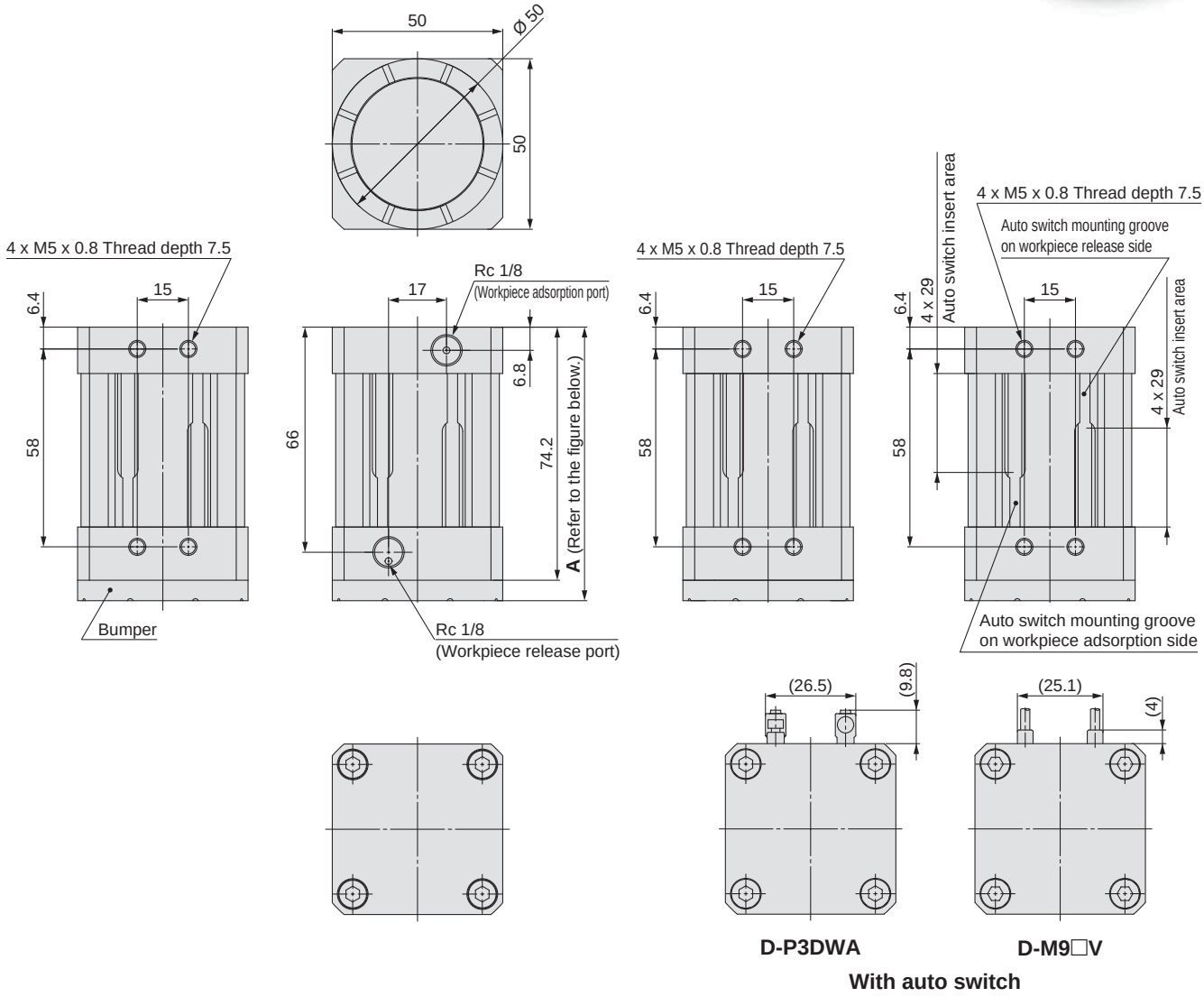
Action		Double acting
Fluid		Air
Operating pressure		0.25 to 0.6 MPa
Ambient and fluid temperature		-10 to 60 °C (No freezing)
Holding force (Workpiece thickness: 0.6 mm)	**MHM-32D1-X6400**	80 N
	MHM-32D2-X6400	50 N
	MHM-32D3-X6400	30 N
Residual holding force		0.3 N or less
Lubrication		Non-lube
Weight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

Bumper Order No.

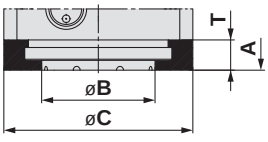
Symbol	Holding force	Model
1	**80 N**	MHM-A3201-1-X6400
2	**50 N**	MHM-A3201-2-X6400
3	**30 N**	MHM-A3201-3-X6400

Dimensions





With auto switch



Symbol	Part number	A	Ø B	Ø C	T
1	**MHM-32D1-X6400**	80.2	39	50	(6)
2	**MHM-32D2-X6400**	81.2	30		(7)
3	**MHM-32D3-X6400**	82.2			(8)

Bumper dimensions

⚠ Caution

- 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 catalogue on **www.smc.eu**.

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Specifications are subject to change without prior notice and any obligation on the part of the manufacturer.