

MHW2 Series



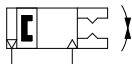
Specifications

Fluid	Air
Operating pressure	0.15 to 0.7 MPa
Ambient and fluid temperature	-10 to 60°C
Repeatability	±0.2 mm
Max. operating frequency	ø20, 25: 60 c.p.m. ø32 to 50: 30 c.p.m.
Lubrication	Not required
Action	Double acting
Auto switch (Option) ^{Note)}	Solid state auto switch (3-wire, 2-wire)

Note) Refer to pages 797 to 850 for further information on auto switches.

Symbol

Double acting: External grip



Made to Order
[Click here for details](#)

Symbol	Specifications/Description
-X4	Heat resistance
-X5	Fluororubber seal
-X50	Without magnet
-X53	EPDM for seals, Fluorine grease
-X63	Fluorine grease
-X79	Grease for food processing machines, Fluorine grease
-X79A	Grease for food processing machines

Model

Model	Bore size (mm)	Effective gripping force (N·m)	Opening angle (Both sides)		Weight ⁽²⁾ (g)
			Opening	Closing	
MHW2-20D	20	0.30	180°	-5°	300
MHW2-20D1					320
MHW2-25D	25	0.73		-6°	510
MHW2-25D1					540
MHW2-32D	32	1.61		-5°	910
MHW2-32D1					950
MHW2-40D	40	3.70		-5°	2140
MHW2-40D1					2270
MHW2-50D	50	8.27		-4°	5100
MHW2-50D1					5350

Note 1) At the pressure of 0.5 MPa

Note 2) Except auto switch

- Refer to "How to Select the Applicable Model" on page 700
- Refer to pages 700 and 701 for the details on effective holding force and allowable overhanging distance.

⚠ Precautions

Be sure to read this before handling the products.

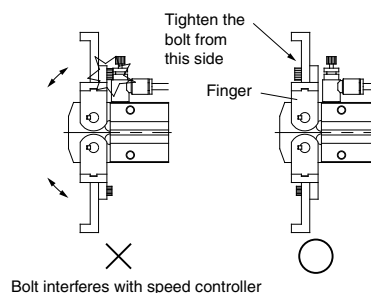
Refer to back page 50 for Safety Instructions and pages 366 to 374 for Air Gripper and Auto Switch Precautions.

Mounting

MHW

⚠ Warning

When using right angle finger tap mounting type, monitor the interference of the bolt with the speed controller.



180° Angular Type Air Gripper Rack & Pinion Type

MHW2 Series

ø20, ø25, ø32, ø40, ø50

How to Order

MHW2 - 20 D 1 - M9BW

Number of fingers
2 2 fingers

Bore size

20	20 mm
25	25 mm
32	32 mm
40	40 mm
50	50 mm

Port thread type

Symbol	Type	Size
Nil	M thread	ø20, ø25
TN	Rc	ø32
TF	NPT	ø40
TF	G	ø50

Action
D Double acting

Made to Order
Refer to page 712 for details.

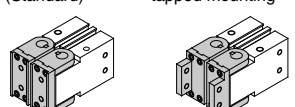
Number of auto switches

Nil	2 pcs.
S	1 pc.
n	n pc.

Auto switch
Nil Without auto switch (Built-in magnet)

*For the applicable auto switch model, refer to the table below.

Finger option
Nil: Flat type fingers (Standard) 1: Right angle type fingers tapped mounting



Applicable Auto Switches / Refer to pages 797 to 850 for further information on 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	Electrical entry direction		0.5 (Nil)	1 (M)	3 (L)	5 (Z)				
							Perpendicular	In-line								
Solid state auto switch	—	Grommet	Yes	3-wire(NPN)	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay PLC	
				3-wire(PNP)			M9PV	M9P	●	●	●	○	○			
				2-wire			M9BV	M9B	●	●	○	○	○			
	Diagnosis (2-color indicator)			3-wire(NPN)	5 V, 12 V		M9NVV	M9NW	●	●	●	○	○	IC circuit		
				3-wire(PNP)			M9PWV	M9PW	●	●	●	○	○			
				2-wire			M9BVV	M9BW	●	●	●	○	○			○
	Water resistant (2-color indicator)			3-wire(NPN)	5 V, 12 V		M9NAV**	M9NA**	○	○	●	○	○	IC circuit		
				3-wire(PNP)			M9PAV**	M9PA**	○	○	○	○	○			
				2-wire			M9BAV**	M9BA**	○	○	●	○	○			○
				—			—	—	—	—	—	—	—			—

** Water resistant type auto switches can be mounted on the above models, but in such case SMC cannot guarantee water resistance.

* Lead wire length symbols: 0.5 m Nil (Example) M9NW
1 m M (Example) M9NWM
3 m L (Example) M9NWL
5 m Z (Example) M9NWZ

* Auto switches marked with a "○" symbol are produced upon receipt of order.

Note 1) When using the 2-color indicator type, please make the setting so that the indicator is lit in red to ensure the detection at the proper position of the air gripper.

Note 2) When ordering the air gripper with the auto switch, the auto switch mounting bracket is included.
When ordering the auto switch separately, the auto switch mounting bracket (BMG2-012) is required.

MHZ

MHF

MHL

MHR

MHK

MHS

MHC

MHT

MHY

MHW

-X□

MRHQ

MA

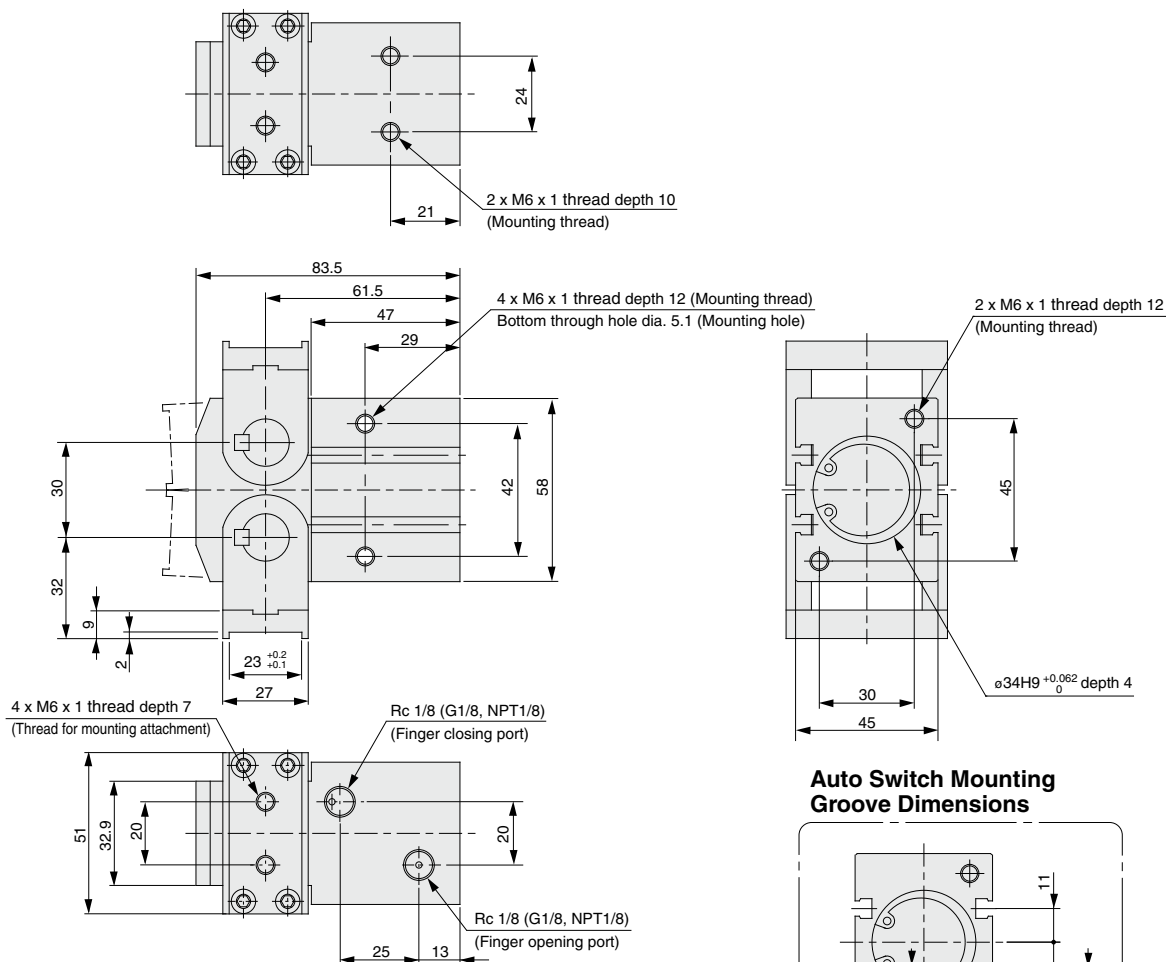
D-□

MHW2 Series

Dimensions

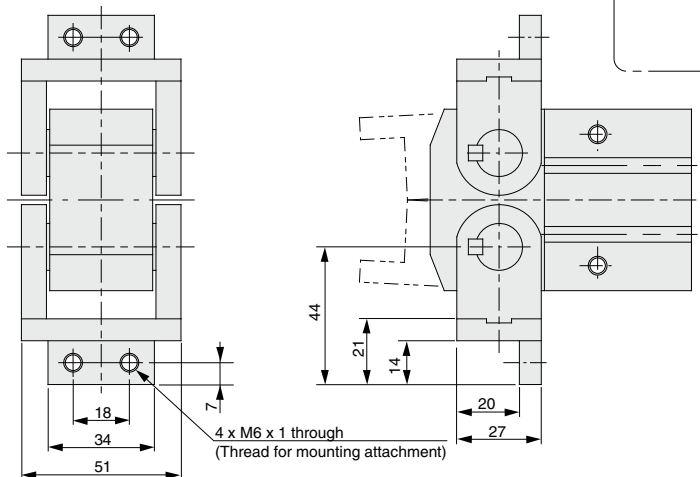
MHW2-32D

Flat finger type (Standard)



MHW2-32D1

Right angle finger type





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PRODUCT: MHW2-32D / MHW2 180-Degree Angular Air Gripper

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