

180° Angular Style Air Gripper Rack & Pinion Style Series *MHW2* 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
	Rc	ø32
TN	NPT	ø40
TF	G	ø50

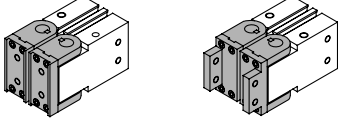
Action
D Double acting

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 Switch / Refer to pages 761 to 809 for further information on auto switches.

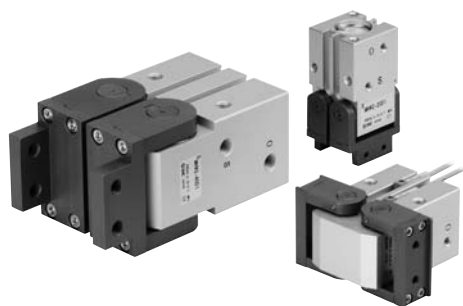
Type	Special function	Electrical entry	Indicator light	Wiring (Output)	Load voltage		Auto switch model		Lead wire length (m)*				Pre-wired connector	Applicable load		
					DC	AC	Electrical entry direction		0.5 (Nil)	1 (M)	3 (L)	5 (Z)				
							Perpendicular	In-line								
Solid state switch	—	Grommet	Yes	3-wire(NPN)	24 V	5 V, 12 V	—	M9NV	M9N	●	●	●	○	○	IC circuit	Relay, PLC
				3-wire(PNP)				M9PV	M9P	●	●	●	○	○		
	2-wire			24 V	12 V	—	M9BV	M9B	●	●	●	○	○	—		
	3-wire(NPN)				5 V, 12 V		M9NWV	M9NW	●	●	●	○	○			
	3-wire(PNP)						M9PWV	M9PW	●	●	●	○	○			
	2-wire				12 V		M9BWV	M9BW	●	●	●	○	○			

* 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.

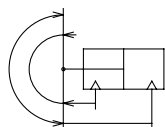
Note 1) Take note of hysteresis with 2-color indication type switches.

Series MHW2



JIS Symbol

Double acting



Made to Order

(Refer to pages 683 to 713 for the 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

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 761 to 809 for further information on auto switches.

Model

Model	Bore size (mm)	Effective gripping force (N·m)	Opening angle (Both sides)		Mass ⁽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 658
- Refer to pages 658 and 659 for the details on effective holding force and allowable overhanging distance.



Precautions

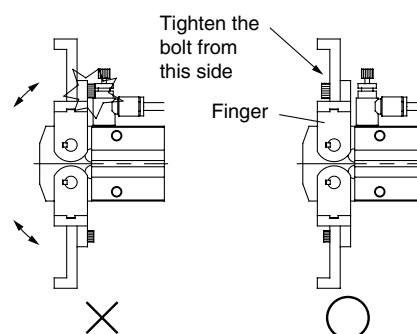
- Be sure to read before handling.
- Refer to front matters 38 and 39 for Safety Instructions and pages 358 to 365 for Air Gripper and Auto Switch Precautions.

Mounting

MHW

Warning

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



Bolt interferes with speed controller