

# 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

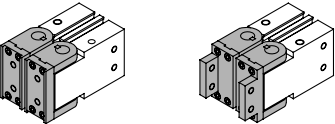
**Action**  
D Double acting

**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	●	●	●	○	○	IC circuit			
	3-wire(PNP)					M9PWV	M9PW	●	●	●	○	○				
	Diagnosis (2-color indication)			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.

MHZ

MHF

MHL

MHR

MHK

MHS

MHC

MHT

MHY

MHW

-X□

MRHQ

MA

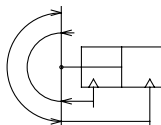
D-□

# 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) <sup>Note)</sup>	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 <sup>(2)</sup> (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

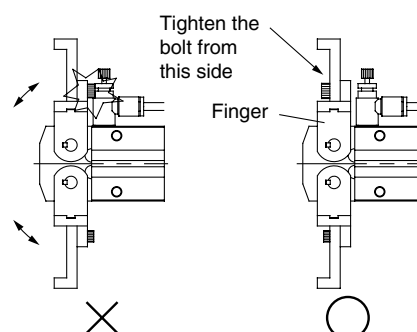
- Be sure to read before handling.
- Refer to front matters 38 and 39 for Safety Instructions and pages 358 to 365 for Air Gripper and Auto Switch Precautions.

## 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