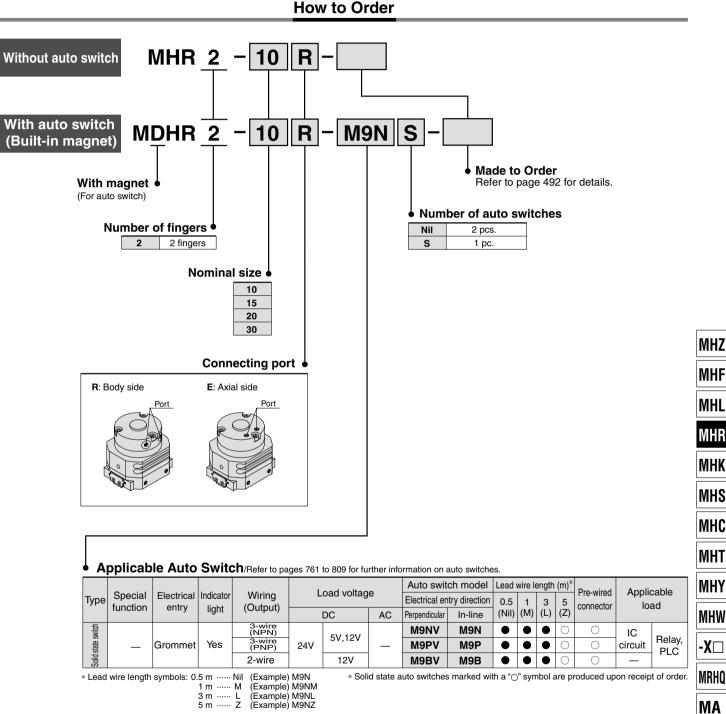
Rotary Actuated Air Gripper/2-Finger Type Series MHR2/MDHR2

Size: 10, 15, 20, 30



(Example) M9NZ

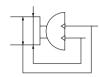


D-□

Series MHR2/MDHR2



JIS Symbol





Nominal s	size	10	15	20	30		
Action		Double acting					
Gripping force (N) (1) (Effective value)	External grip	12	24	33	58		
at 0.5 MPa	Internal grip	12	25	34	59		
Opening/	Finger closing width (mm)	10	14	16	19		
Closing stroke	Finger opening width (mm)	16	22	28	37		
(Both sides)	Stroke (mm)	6	8	12	18		
Mass (g) (2)		100 (95)	180 (175)	390 (380)	760 (740)		
Connection port		M3 X 0.5 M5 X 0.8			6.0 (0.8		
Repeatability		\pm 0.01mm					
Fluid		Air					
Operating pressur	е	0.2 to 0.6 MPa 0.15 to 0.6 MPa					
Ambient and fluid	temperature	0 to 60°C					
Max. operating fre	quency	180 c.p.m					
Lubrication		Non-lube					



Note 1) Refer to page 494 "Effective Gripping Force" for details of Gripping force at each gripping point. Value of effective gripping force is measured at the middle of opening/closing stroke.

Note 2) () Value shows MDHR mass, but it does not include auto switch mass.

When the finger opening/closing speed is set as the total stroke of 0.2 seconds or more, it may cause the product to stick or completely stop its movement.



Made to Order

(Refer to pages 683 to 713 for details.)

Symbol	Specifications/Description
-X32	Countermeasure for condensation
-X63	Fluorine grease



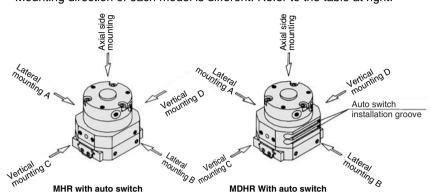


Series MHR2, MDHR2/MHR3, MDHR3 Specific Product Precautions

Be sure to read before handling.

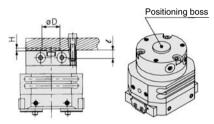
Mounting Air Grippers/MHR2/MHR3

Mounting direction of each model is different. Refer to the table at right.



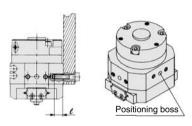
	Axial side	Lateral r	nounting	Vertical mounting	
Model	mounting	Α	В	С	D
MHR2-□	•	•	_	•	
MHR3-□	•	_		_	_
MDHR2-□	•	•	_	•	
MDHR3-□	•	•	•	_	

Axial side mounting



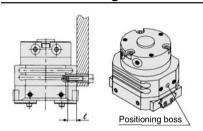
Model		A !! - -	Max.	Max. screw-in depth tmm	Positioning boss		
		Applicable tightenin torque N·m	torque		D mm	Hmm	
		-10	M3 x 0.5	0.88	6	9h9 _0.036	1
MHR	2	-15	IVIO X U.S		0	12h9 _0.043	1.5
WHK	_	-20	M4 x 0.7	2.1	8	14h9 _0.043	1.5
MDHR		-30	M5 x 0.8	4.3	10	16h9 _0.043	2
WIDTHI	3 -1	-10	M3 x 0.5	0.88	6	9h9 _0.036	1
ာ	-15	M3 X 0.5	0.00	"	12h9 _0,043	1.5	

Lateral mounting



Model		Applicable bolt	Max. tightening torque N·m	Max. screw-in depth ℓmm	Positionin Bore Depth d mm	g boss Bore Depth h mm	
	•	-10 -15	M3 x 0.5	0.88	6	3 +0.02	6
MHR	_	-20	M4 x 0.7	2.1	8	4 +0.02	8
MDHR		-30	M5 x 0.8	4.3	10	5 +0.02	10
WOIII	3	-10 -15	M3 x 0.5	0.88	6	3 +0.02	6

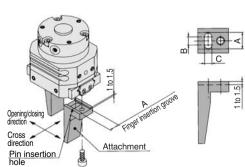
Vertical mounting



	Model		Annliaghla	. Max.	Max. screw-in depth ℓmm		Positioning boss	
Мо			Applicable bolt	torque N·m		Bore Depth d mm	Bore Depth h mm	
	2	-10 -15	M3 x 0.5	0.88	6	3 +0.02	6	
MHR	_	-20	M4 x 0.7	2.1	8	4 +0.02	8	
MDHR		-30	M5 x 0.8	4.3	10	5 ^{+0.02}	10	
WOIII	3	-10 -15	M3 x 0.5	0.88	6	3 +0.02	6	

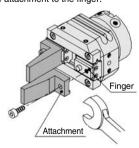
How to Locate Finger and Attachment

- Positioning in the finger's open/close direction
 Position the finger and the attachment by inserting
 the finger's pin into the attachment's pin insertion hole.
 Provide the following pin insertion hole dimensions:
 shaft-basis fitting dimension C for the open/close
 direction; slotted hole with relief B for the cross direction
- Positioning in the finger's cross direction
 Position the finger and the attachment by placing the finger's width into the attachment's finger insertion groove A.



How to Mount the Attachment to the Finger

- To mount the attachment to the finger, make sure to use a wrench to support the attachment so as not to apply undue strain on the finger.
- Refer to the table below for the proper tightening torque on the bolt used for securing the attachment to the finger.



Model			Applicable bolt	Max. tightening torque N⋅m	
	2	-10 -15	M3 x 0.5	0.59	
MHR		2	-20	M4 x 0.7	1.4
MDHR			-30	M5 x 0.8	2.8
	3	-10 -15	M3 x 0.5	0.59	

Finger opening/closing speed: MHR2/MHR3

When the finger opening/closing speed is set as the total stroke of 0.2 seconds or more, it may cause the product to stick or completely stop its movement.

