



Air Gripper Unit

for Collaborative Robots

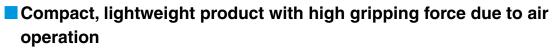
YASKAWA Electric Corporation collaborative robots MOTOMAN-HC10/HC10DT compliant



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An air gripper that realizes high rigidity and high precision due to its guide-integrated construction

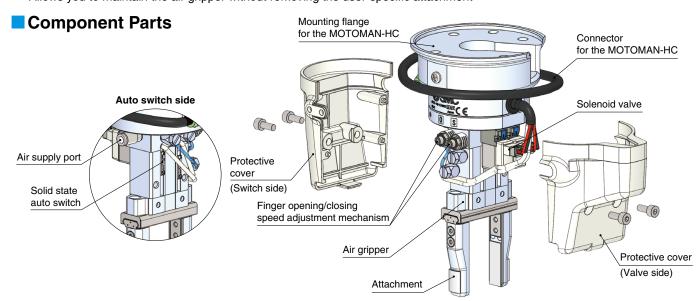
With high-precision linear guide

Repeatability: ± 0.01 mm

Linear guide of the higher rigidity and precision is used.

Higher rigidity (Compared with the same size of the existing MHZ2)

- 1 air supply tube and the electric wiring can be operated simply by connecting the annex cable.
- Integrated solenoid valve, speed adjustment mechanism, and auto switch
- A split protective cover for easy air gripper maintenance
 Allows you to maintain the air gripper without removing the user-specific attachment



How to Order



JMHZ2-16D-X7400B-HC10-P

Compatible robot •

	-		
	HC10	MOTOMAN-HC10	
	HC10DT	MOTOMAN-HC10DT	

The supplied flange differs depending on the product number.

Auto switch output type

Symbol	Auto switch model	Output type		
N	D-M9N-5	NPN		
Р	D-M9P-5	PNP		

Specifications

Bore size [mm]	16					
Fluid	Air					
Action	Double acting					
Operating pressure [MPa]	0.1 to 0.7					
Repeatability [mm]	±0.01					
Number of fingers	2					
Gripping force	External	32.7				
Effective value per finger [N]	Internal	43.5				
Opening/Closing stroke (Both	10					
Weight [g]	720					

■ Included parts: Robot mounting flange, piping tube, cable fixture, accessory cable



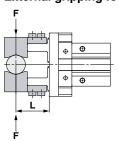
Model Selection

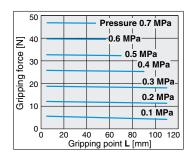
Gripping force

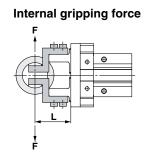
Indication of effective gripping force

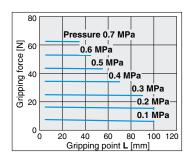
The gripping force shown in the graphs below represents the gripping force of one finger when all fingers and attachments are in contact with the workpiece. $\mathbf{F} = \text{One}$ finger thrust

External gripping force





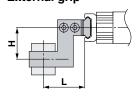


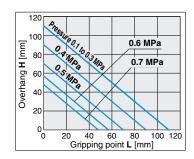


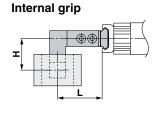
Gripping point

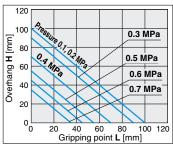
- The air gripper should be operated so that the workpiece gripping point "L" and the amount of overhang "H" stay within the range shown for each operating pressure given in the graphs below.
- If the workpiece gripping point goes beyond the range limits, this will have an adverse effect on the life of the air gripper.

External grip









Metering valve with silencer

on the finger opening side

Metering valve

For speed adjustment

with silencer

on the finger

closing side

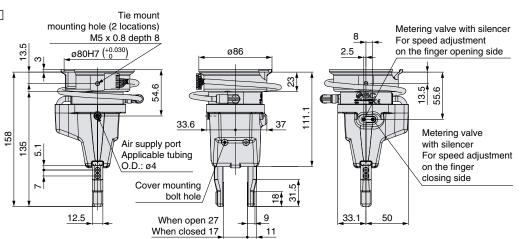
For speed adjustment

56.6

Dimensions

JMHZ2-16D-X7400B-HC10-□

Air gripper unit for the MOTOMAN-HC10



JMHZ2-16D-X7400B-HC10DT Air gripper unit mounting to M5 x 0.8 d more the MOTOMAN-HC10DT

mounting hole (2 locations) ø74 M5 x 0.8 depth 8 ø34H7 (_0,025) 2.5 52. 33.6 159 Air supply port 135 Applicable tubing 5.1 O.D.: ø4 Cover mounting 8 31.5 3.5 bolt hole 12.5 9 33.1 When open 27 When closed 17 11





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