



Air Gripper Unit for Collaborative Robots







More information can be viewed here.

Air Gripper Unit for Collaborative Robots

YASKAWA Electric Corporation collaborative robots

MOTOMAN-HC10/HC10DT compliant

Compact, lightweight product with high gripping force due to air operation An air gripper that realizes high rigidity and high precision due to its guide-integrated construction With high-precision linear guide Linear guide of the higher rigidity and precision is used. Repeatability: ±0.01 mm 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 Component Parts Mounting flange for the MOTOMAN-HC Connector for the MOTOMAN-HC Auto switch side Solenoid valve Co Air supply port Protective cover (Switch side) Solid state 0 auto switch Finger opening/closing (0) speed adjustment mechanism Air gripper

How to Order

(E RoHS 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 Auto switch model Output type Symbol Ν D-M9N-5 NPN Ρ D-M9P-5 PNP 1

Specifications

Attachment

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 Effective value per finger [N]	External	32.7
	Internal	43.5
Opening/Closing stroke (Both sides) [mm]		10
Weight [g]		720

0

Protective cover (Valve side)

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

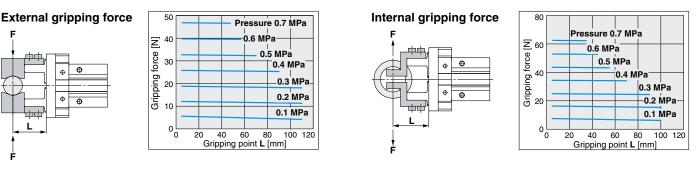


Model Selection

Gripping force

Indication of effective gripping force

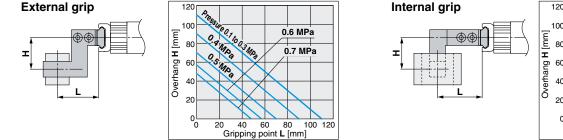
The gripping force shown in the graphs below represents the gripping force of one finger when all fingers and attachments are in contact with the workpiece. \mathbf{F} = One finger thrust

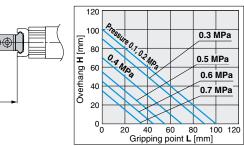


Gripping point

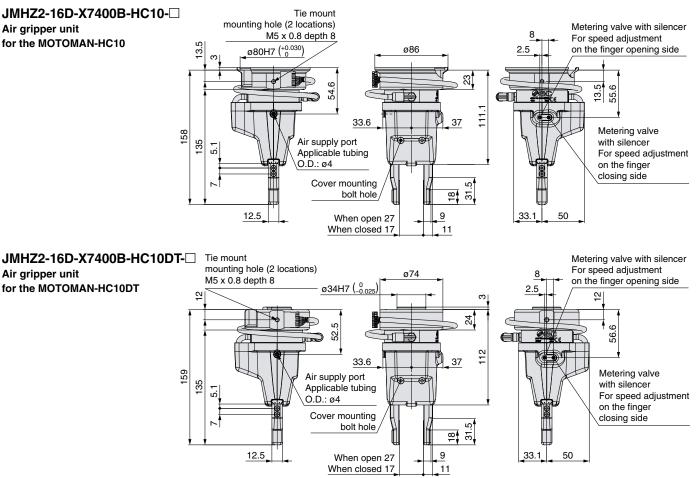
- The air gripper should be operated so that the workpiece gripping point "L" and the amount of overhang "H" stay within the range shown for each operating pressure given in the graphs below.
- If the workpiece gripping point goes beyond the range limits, this will have an adverse effect on the life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

External grip





Dimensions





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Safety Instructions Be sure to read the "Handling Precautions for SMC Products" (M-E03-3) and "Operation Manual" before use.