

## Long stroke

One unit can handle workpieces with various diameters.

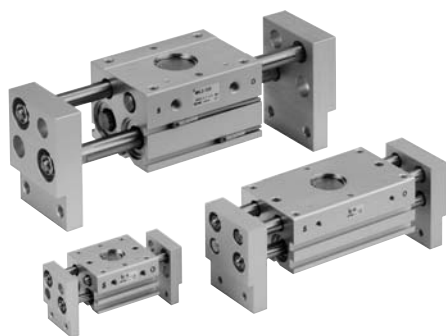
A large amount of gripping force is provided through the use of a double piston mechanism, while maintaining a compact design.

Double-end type oil-impregnated resin bearings with a metal backing are used for all shafts.

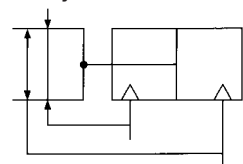
Built-in dust-protection mechanism

A high degree of freedom for mounting

Auto switch mountable



## JIS Symbol



**Made to Order**

(Refer to pages 683 to 713 for details.)

| Symbol | Specifications/Description                      |
|--------|-------------------------------------------------|
| -X4    | Heat resistance (100°C)                         |
| -X5    | Fluororubber seal                               |
| -X28   | With adjuster bolts for adjusting closing width |
| -X50   | Without magnet                                  |
| -X53   | EPDM seal/Fluorine grease                       |
| -X63   | Fluorine grease                                 |
| -X79   | Grease for food                                 |

## Specifications

| Bore size (mm)                                              | 10            | 16         | 20 | 25  | 32  | 40  |
|-------------------------------------------------------------|---------------|------------|----|-----|-----|-----|
| Fluid                                                       | Air           |            |    |     |     |     |
| Action                                                      | Double acting |            |    |     |     |     |
| Operating pressure (MPa)                                    | 0.15 to 0.6   | 0.1 to 0.6 |    |     |     |     |
| Ambient and fluid temperature                               | -10 to 60°C   |            |    |     |     |     |
| Repeatability                                               | ± 0.1         |            |    |     |     |     |
| Lubrication                                                 | Not required  |            |    |     |     |     |
| Effective gripping force (N) <sup>Note)</sup><br>at 0.5 MPa | 14            | 45         | 74 | 131 | 228 | 396 |



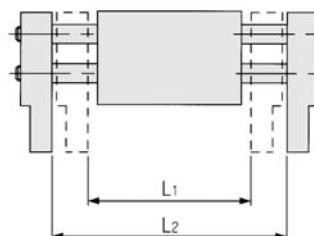
Note) Gripping point = Bore size 10, 16, 20, 25: 40 mm, Bore size 32, 40: 80 mm.

## Model/Stroke

| Model     | Bore size (mm) | Max. operating frequency c.p.m | Opening/Closing stroke (mm) (L2-L1) | Width at closing (mm) (L1) | Width at opening (mm) (L2) | Mass (g) |
|-----------|----------------|--------------------------------|-------------------------------------|----------------------------|----------------------------|----------|
| MHL2-10D  | 10             | 60                             | 20                                  | 56                         | 76                         | 280      |
| MHL2-10D1 |                | 40                             | 40                                  | 78                         | 118                        | 345      |
| MHL2-10D2 |                |                                | 60                                  | 96                         | 156                        | 425      |
| MHL2-16D  | 16             | 60                             | 30                                  | 68                         | 98                         | 585      |
| MHL2-16D1 |                | 40                             | 60                                  | 110                        | 170                        | 795      |
| MHL2-16D2 |                |                                | 80                                  | 130                        | 210                        | 935      |
| MHL2-20D  | 20             | 60                             | 40                                  | 82                         | 122                        | 1025     |
| MHL2-20D1 |                | 40                             | 80                                  | 142                        | 222                        | 1495     |
| MHL2-20D2 |                |                                | 100                                 | 162                        | 262                        | 1690     |
| MHL2-25D  | 25             | 60                             | 50                                  | 100                        | 150                        | 1690     |
| MHL2-25D1 |                | 40                             | 100                                 | 182                        | 282                        | 2560     |
| MHL2-25D2 |                |                                | 120                                 | 200                        | 320                        | 2775     |
| MHL2-32D  | 32             | 30                             | 70                                  | 150                        | 220                        | 2905     |
| MHL2-32D1 |                | 20                             | 120                                 | 198                        | 318                        | 3820     |
| MHL2-32D2 |                |                                | 160                                 | 242                        | 402                        | 4655     |
| MHL2-40D  | 40             | 30                             | 100                                 | 188                        | 288                        | 5270     |
| MHL2-40D1 |                | 20                             | 160                                 | 246                        | 406                        | 6830     |
| MHL2-40D2 |                |                                | 200                                 | 286                        | 486                        | 7905     |



Note) The open and close time spans represent the value when the exterior of the workpiece is being held.



## ⚠ 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.

## ⚠ Warning

If a workpiece is hooked onto the attachment, make sure that excessive impact will not be created at the start and the end of the movement. Failure to observe this precaution may result in shifting or dropping the workpiece, which could be dangerous.

MHZ

MHF

MHL

MHR

MHK

MHS

MHC

MHT

MHY

MHW

-X□

MRHQ

MA

D-□