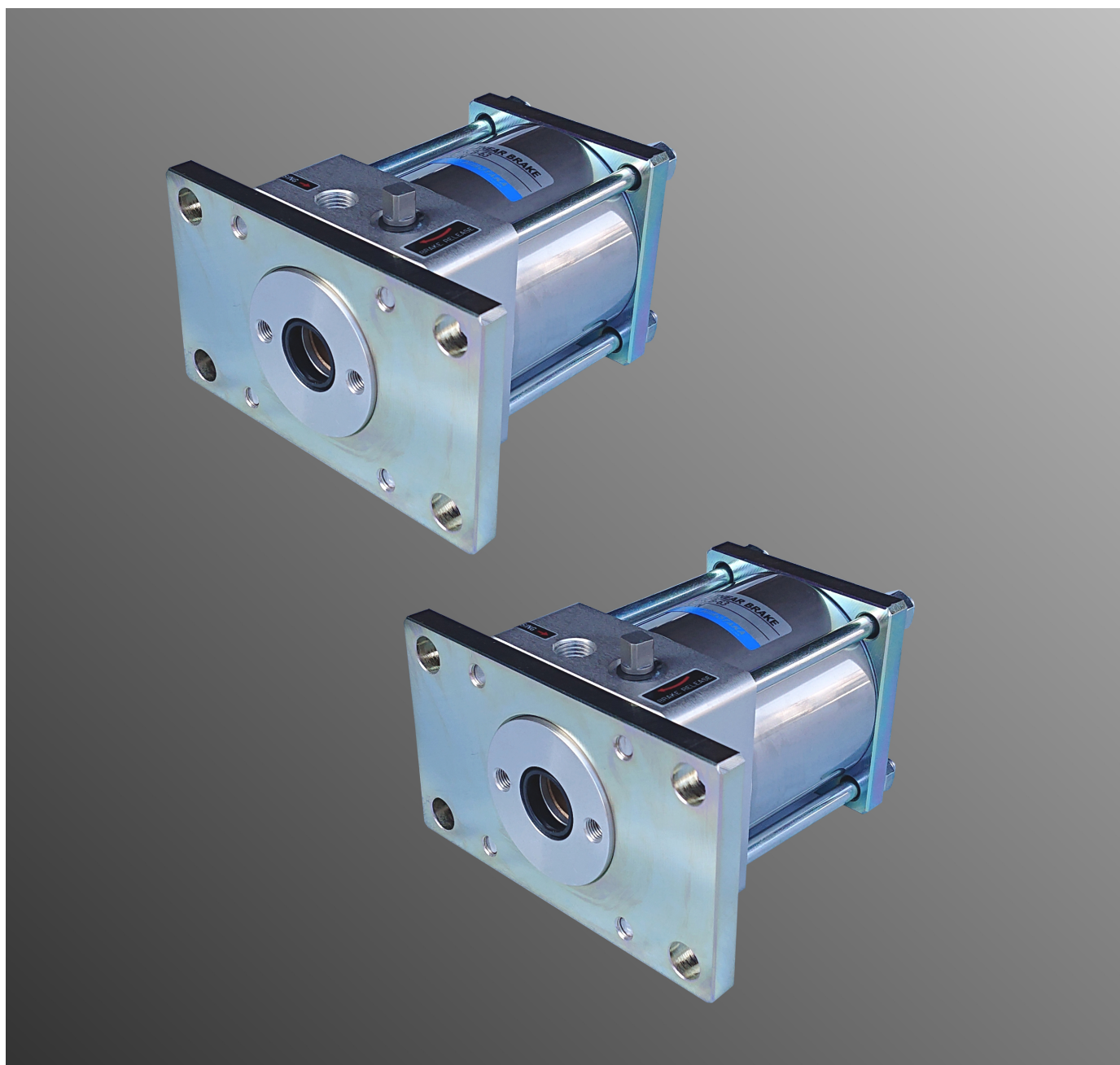


Mechanical lock type brake for linear shaft

## **LINEAR BRAKE**

Reliable control of intermediate stops, emergency stops, drop prevention, and positioning.



Can be easily retrofitted to existing equipment.  
Braking force is 900 to 9200 N.  
Space saving with simple design.

## Overview

Space-saving mechanical lock unit that utilizes the braking performance of an air cylinder with brake. (Sellock cylinder).

The brake releases when compressed air is supplied and the brake locks when the compressed air is exhausted.

It is used for transported equipment, self-weight drop prevention, intermediate stop holding, etc.

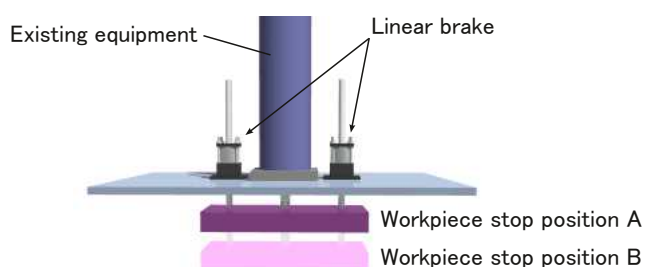
It can also be used as a safety device because it locks when the air pressure supply is interrupted.

## Feature

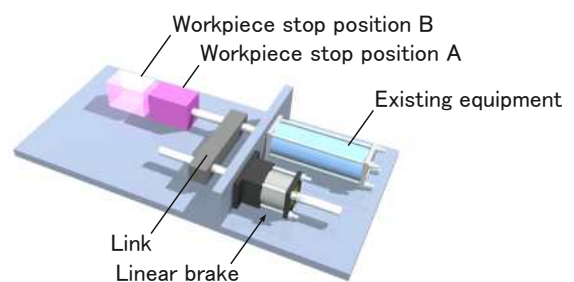
- 1 Mounting position is free. It can be installed in a position away from drive equipment such as cylinders. Installation is easy with a guide shaft that synchronizes with the drive unit.
- 2 Both the brake mechanism and the brake metal have a long service life and excellent reliability.
- 3 Manual release lever is standard equipment.
- 4 Stopping accuracy is  $\pm 1$  mm. (Theoretical value at 300mm/sec)
- 5 Space saving due to slim body.

### Example of installation

#### Vertical installation



#### Horizontal installation



# MRCB - 63

| Series      |
|-------------|
| Linea brake |

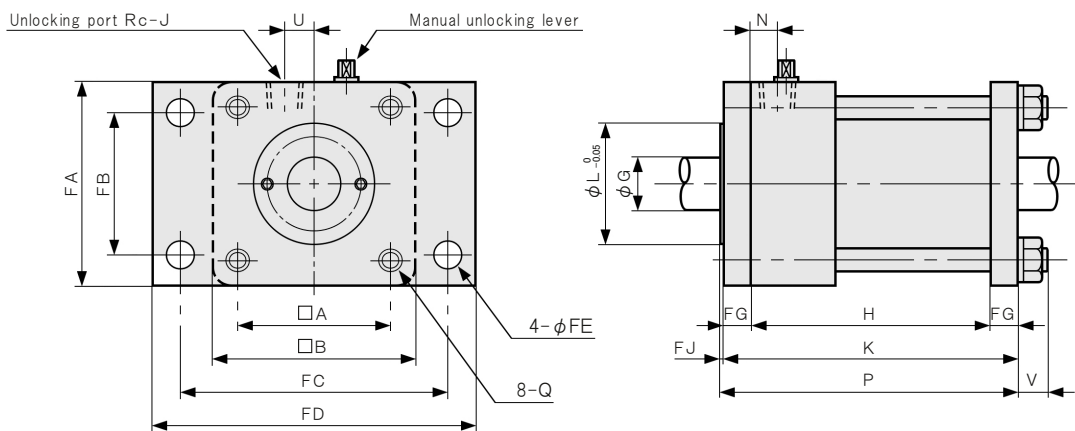
| Symbol | Bore size |
|--------|-----------|
| 40     | 40 mm     |
| 50     | 50 mm     |
| 63     | 63 mm     |
| 80     | 80 mm     |
| 100    | 100 mm    |
| 125    | 125 mm    |

## Specification

|                     |                          |
|---------------------|--------------------------|
| Fluid               | Air                      |
| Operating pressure  | 0.3~0.99MPa              |
| Proof pressure      | 1.5MPa                   |
| Unlocking pressure  | 0.3MPa or more           |
| Ambient temperature | -5 to 80°C (No frozen)   |
| Operating speed     | 50 to 1000mm/sec         |
| Lubrication         | No required (Note 1)     |
| Locking force       | Refer to the table below |

Note 1 : If lubricating, additive-free turbine oil ISO VG 32 or VG 46 is recommended.

## Dimention and Locking force



| Model    | Symbol | A   | B   | FA  | FB  | FC  | FD         | FE | FG | FJ                | G  | H   |
|----------|--------|-----|-----|-----|-----|-----|------------|----|----|-------------------|----|-----|
| MRCB- 40 |        | 48  | 65  | 65  | 35  | 90  | 110        | 10 | 10 | 0                 | 47 | 74  |
| MRCB- 50 |        | 55  | 70  | 70  | 45  | 90  | 115        | 10 | 10 | 2                 | 55 | 90  |
| MRCB- 63 |        | 63  | 80  | 80  | 60  | 112 | 135        | 12 | 10 | 2                 | 55 | 104 |
| MRCB- 80 |        | 76  | 96  | 96  | 71  | 132 | 160        | 15 | 14 | 0                 | 60 | 121 |
| MRCB-100 |        | 92  | 116 | 116 | 85  | 150 | 180        | 15 | 14 | 0                 | 65 | 144 |
| MRCB-125 |        | 114 | 140 | 140 | 100 | 190 | 230        | 19 | 14 | 1                 | 80 | 180 |
| Model    | Symbol | J   | K   | L   | N   | P   | Q          | U  | V  | Locking force (N) |    |     |
| MRCB- 40 |        | 1/4 | 94  | 16  | 10  | 94  | M8 × 1.25  | 10 | 13 | 942               |    |     |
| MRCB- 50 |        | 1/4 | 110 | 20  | 12  | 112 | M8 × 1.25  | 10 | 13 | 1472              |    |     |
| MRCB- 63 |        | 1/4 | 124 | 20  | 13  | 126 | M8 × 1.25  | 12 | 13 | 2337              |    |     |
| MRCB- 80 |        | 3/8 | 149 | 25  | 14  | 149 | M12 × 1.75 | 15 | 17 | 3770              |    |     |
| MRCB-100 |        | 3/8 | 172 | 30  | 14  | 172 | M12 × 1.75 | 15 | 17 | 5890              |    |     |
| MRCB-125 |        | 3/8 | 208 | 35  | 14  | 209 | M12 × 1.75 | 15 | 17 | 9203              |    |     |



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●LINE UP●

**PNEUMATIC POWER CYLINDER**

**PNEUMATIC BOOSTER**

**POWER PACK CYLINDER**

**RUSH BOOSTER**

**HYDRAULIC CYLINDER**

**FREE LOCK PAD**

**SELLOCK CYLINDER**

**FLOATING CONNECTOR**

**AUTO CLAMPER**

**SEL NUT**

**LINEA BRAKE**

**PNEUMATIC AND HYDRAULIC  
EQUIPMENT**