

# Mini Cylinder **RCD**



# Ultra-Compact Motorized Cylinder with 12mm Cross-Section



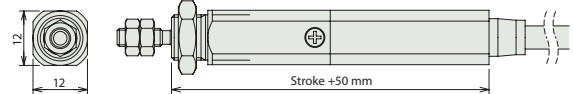
RCD actuators

## Features

### 1. Ultra-compact size makes it a good replacement for compact air cylinders.

Ultra-compact size has been achieved, with a cross-section of only 12 mm and a body length as short as 60 mm.

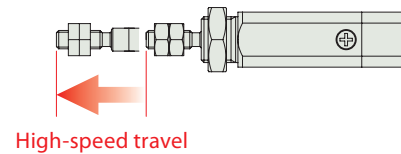
The Mini Cylinder RCD is small enough to replace compact air cylinders used for short-stroke travel, pressing, hoisting, etc.



Slim actuator

### 2. High-speed performance with maximum acceleration/deceleration of 1 G and maximum speed of 300 mm/s

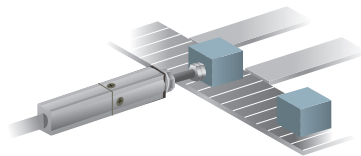
The Mini Cylinder RCD incorporates a newly developed brushless DC motor that generates sufficient torque despite its compact size. Its high-speed performance with maximum acceleration/deceleration of 1 G and maximum speed of 300 mm/s is highly effective in reducing cycle time in a variety of systems.



High-speed travel

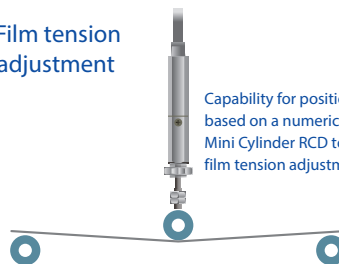
## Application Examples

#### 1. Part push-out



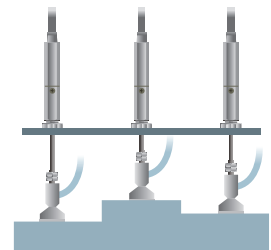
Setting the appropriate acceleration/deceleration rate enables the Mini Cylinder RCD to push out a workpiece without intense impact.

#### 2. Film tension adjustment



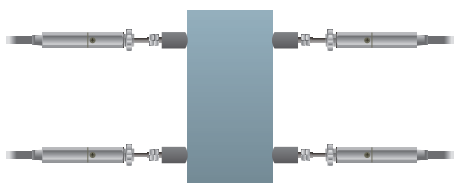
Capability for position adjustment based on a numeric value allows the Mini Cylinder RCD to achieve precise film tension adjustment.

#### 3. Suction pads for height adjustment



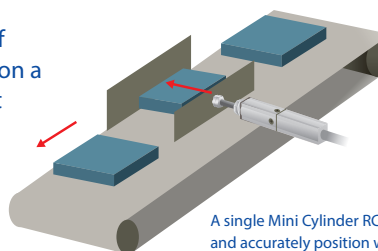
Three-point positioning enables the Mini Cylinder RCD to handle a workpiece with variable height dimensions.

#### 4. Workpiece positioning



Multiple Mini Cylinder RCDs can be used to position a workpiece precisely by pushing it from both sides.

#### 5. Positioning workpieces of varying sizes on a conveyor belt



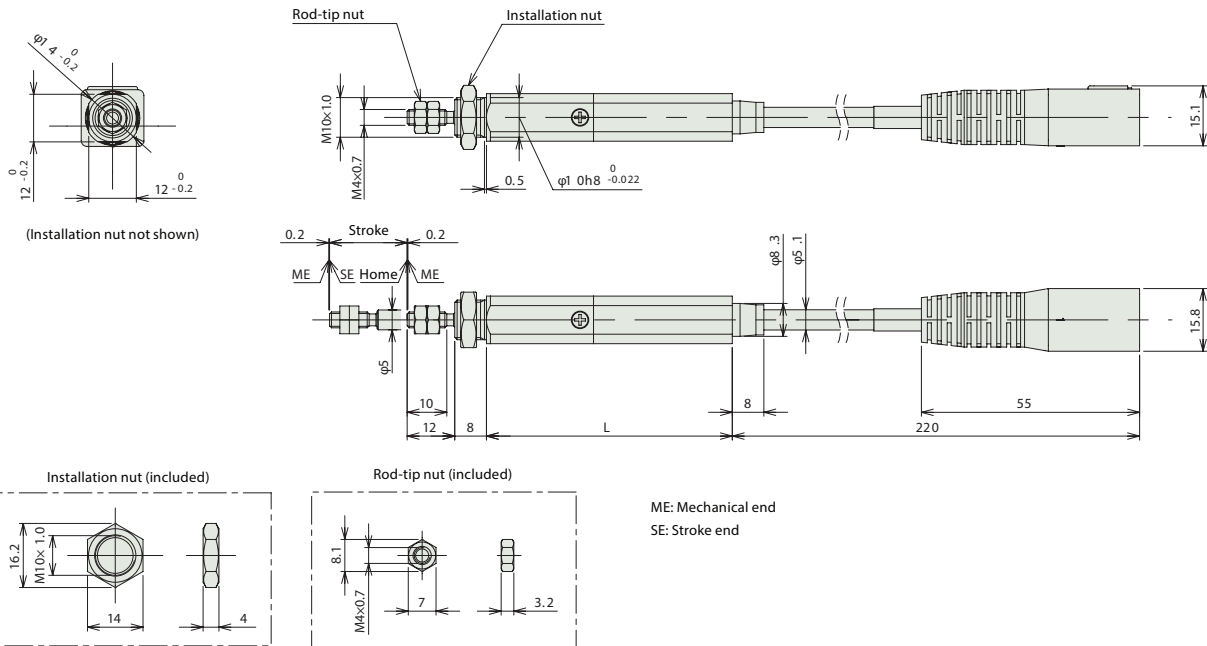
A single Mini Cylinder RCD can push and accurately position workpieces of different sizes.



**Dimensional Drawings**

CAD drawings can be downloaded from the website.

[www.intelligentactuator.com](http://www.intelligentactuator.com)



Stroke	10	20	30
L	52	62	72
Weight (g)	47	51	55

**Applicable Controllers**

RCD series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

Name	External View	Model	Max. Number of Connectable Axes	Max. Positioning Points	Input Voltage	Standard Price
Solenoid Valve Type		DSEP-C-3I-①-2-0	1	3 points	DC24V	—
Dust-proof Solenoid Valve Type		DSEP-CW-3I-①-2-0				—
Solenoid Valve Multi-axis Type (PIO Specification)		MSEP-③-④-~①-2-0	C : 8 LC : 6	3 points		—
Solenoid Valve Multi-axis Type (Network Specification)		MSEP-③-④-~②-0-0		256 points		—
Positioner Type		DCON-CA-3I-①-2-0	1	512 points		—
Network Type		DCON-CA-3I-②-0-0		768 points		—

\*① indicates I/O type (NP/PN) \*② indicates Field Network specification code \*③ indicates C (standard) or LC (with PLC function) type \*④ indicates the number of axes

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The information contained in this product brochure may change without prior notice due to product improvements.

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