RoboCylinder Miniature Models
3rd Revised Edition

RCP3-SA2R Tiny Slider Type
RCA2-RA2 Tiny Rod Type
Motor-reversing specification

RoboCylinder Miniature Models
Product Overview
24 VDC Pulse/Servo/Linear Motor & 230 VAC Servo Motor Mini RoboCylinder for dedicated Controller
P-/A-/D-SEP, P-MEC, P-/A-/S-CON & P-/A-/S-/X-SEL

RCA2-GD3/GD4 & RCS2-GD5
Short Rod Type with Double Guide
RCA2-GD3/GD4 & RCS2-GD5
Short Rod Type with Double Guide
RCA2-GD3/GD4 & RCS2-GD5
Short Slide Unit Rod Type with Double Guide
RCA2-TCA3/TCA4 & RCS2-TCA5
Short Compact Table Type
RCA2-TCA3/TCA4 & RCS2-TCA5
Short Compact Table Type
RCA2-TCA3/TCA4 & RCS2-TCA5
Short Compact Table Type

New RCS2 Micro Cylinder
RCS2-RCA2-RCP3 RCL
New RCS2 Micro Cylinder
RCS2 Micro Cylinder
RCD-RA1D
Ultra-compact Rod Type

RCA2-PM3/PM4 & RCS2-PM5
Short Rod Type
RCA2-PM3/PM4 & RCS2-PM5
Short Rod Type
RCA2-PM3/PM4 & RCS2-PM5
Short Rod Type
The compact, next-generation Electric Actuator Mini-RoboCylinder

**Space Saving**

Incorporating a newly developed motor, the Mini-RoboCylinder has achieved smaller size with significantly reduced overall length, width and height which are comparable to air cylinders. Systems that could only use air cylinders previously due to size constraints, can now benefit from IAI’s electromechanical solution.

![Image showing dimensions of Mini-RoboCylinder](image)

The mini table type RCA2-TCA3NA has a footprint smaller than a business card.

**Shape & Usability like an Air Cylinder**

The Mini-RoboCylinder is available in shapes similar to that of air cylinders. Users who are comfortable with the handling and operation of pneumatic systems are now able to switch to RoboCylinder effortlessly.

![Image showing different models of Mini-RoboCylinder](image)

- Slide Unit type
- Free Mount type
- Table type

**Expanded Variations**

New models have been added, including slim type with contracted actuator width and high-payload, long-stroke types of 46 mm in actuator width, to support greater applications.

![Image showing different models of Mini-RoboCylinder](image)
### Mini Slider Type

<table>
<thead>
<tr>
<th>Motor Unit</th>
<th>Type Description</th>
<th>Model</th>
<th>Encoder Type</th>
<th>Motor Type</th>
<th>Motor Size</th>
<th>Feed Screw</th>
<th>Load (mm)</th>
<th>Rated Thrust (N)</th>
<th>Max. Load Capacity (kg)</th>
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#### Features
- The motor can easily perform switching operations for the unit model.
- Select from Side-Mounted Motor type with a reduced total length and Tiny Straight type (Coupling type).

#### Usage
- Used for jig and workpiece positioning, table travel, etc.

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### Mini Slider Type

#### Features
- Select from Tiny Motor Unit types and Short Length types having greatly reduced overall length.
- Select from Guide types with highly rigid/linear built-in guides and those without guides having drastically miniaturized main body sizes.

#### Usage
- Used for raising/lowering products and jigs, pushing, clamping, etc.
### Mini Table Type

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<th>Type Description</th>
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**Mini Table Type Features**
- Comes equipped with an integrated guide that keeps overhung loads balanced.
- Select from Compact, Short Length types and Separate Motor Unit types.

**Usage**
Used for raising/lowering products and jigs, horizontal moving, and pushing (handles overhung loads from the main unit).

### Mini Linear & BLDC Motor Type

**Features**
- Equipped with a high acceleration/deceleration linear/brushless DC motor capable of operation at up to 2G / 1G.
- Available in Slider type and Rod type.
- The Multi-slider type comes with two sliders on one actuator that can be independently operated.

**Usage**
Used for transfers requiring short cycle times, etc.
## Mini Table Type

<table>
<thead>
<tr>
<th>Motor Unit</th>
<th>Type Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCP3</td>
<td>Coupling Table Type</td>
</tr>
<tr>
<td>RCA2</td>
<td>Separate Motor Type</td>
</tr>
<tr>
<td>RCP3</td>
<td>Motor-reversing Table Type</td>
</tr>
</tbody>
</table>

### Encoder Type
- TA3C
- TA4C
- TA3R
- TA4R

### Motor Type
- Pulse Motor
- Ball Screw
- Servo Motor

### Load (mm)
- 6
- 4
- 2
- 6

### Rated Thrust (N)
- 0.7
- 1.4
- 2
- 1

### Max. Load Capacity (kg)
- 0.3
- 0.6
- 1
- 0.5

### Max. Speed (mm/s)
- 100
- 100
- 200
- 100

### Stroke (mm)
- 20~100
- 20~100
- 20~200
- 20~200

### Repeatability (mm)
- ±0.02
- ±0.02
- ±0.02
- ±0.02

### Width (mm)
- 36
- 40
- 72
- 81

## Mini Linear & BLDC Motor Type

### Motor Unit
- Combined Motor-to-Body System (Motor Sliders)
- Combined Motor-to-Body System (Rod Sliders)

### Type Description
- Slim Linear Motor Slider Type
- Long-stroke Linear Motor Slider Type
- Slim Linear Motor Rod Type
- Slim Brushless DC Motor Rod Type

### Encoder Type
- Incremental

### Motor Type
- Ball Screw
- Servo Motor
- BLDC Motor

### Load (mm)
- 2
- 5
- 2

### Rated Thrust (N)
- 0.5
- 1
- 0.4

### Max. Load Capacity (kg)
- 0.1
- 0.2
- 0.1

### Max. Speed (mm/s)
- 10
- 20
- 20

### Stroke (mm)
- 20~100
- 48~192
- 48~192

### Repeatability (mm)
- ±0.05
- ±0.05
- ±0.05

### Width (mm)
- ø16
- ø20
- ø25

* * < >: Max. speed of vertical application
Operate using the same Signals used for Air Cylinder Solenoid Valves

**MEC & SEP Operating Methods**

MEC and SEP controllers (24VDC/230VAC) can be operated with the same signals used for air cylinder solenoid valves. Solenoid valves come in two types: Single solenoids and Double solenoids. The PMEC and PSEP/ASEP/DSEP support signals for both.

*The actuator can also be moved among 3 points by switching the parameters.*
# Lineup of Controllers meeting various Applications, from 3-point Positioning Types controlled like Solenoid Valves to Network Types

You can choose a desired controller from those of various control methods, such as 3-point positioning types whose teaching and trial operation can be done using the controller’s operation panel, multi-point positioning types supporting up to 512 positioning points, and network types that can be connected to various networks.

Since 3-point positioning types (3 position controller) can be operated with the same signal as the ones of solenoid valves, the device with the currently used air can be changed to an electric cylinder.

Refer to the table below for the various actuator models (series) and controllers that can be connected.

<table>
<thead>
<tr>
<th>Type of controller</th>
<th>Positioner type</th>
<th>Network type</th>
<th>Program type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3-position controller</td>
<td>S12-position controller</td>
<td>Directly connectable to key field networks.</td>
</tr>
<tr>
<td><strong>Features</strong></td>
<td>● Easy to operate, as the actuator can be operated simply by turning signals ON/OFF.</td>
<td>● Multi-point positioning to 512 points is possible.</td>
<td>● Directly connectable to key field networks.</td>
</tr>
<tr>
<td></td>
<td>● Can be operated using the same signals used for solenoid valves.</td>
<td>● Pulse-train control is also supported.</td>
<td>● Coordinate values can be specified directly using numeric values to move the actuator.</td>
</tr>
<tr>
<td><strong>RCP3</strong></td>
<td>PCON-CA</td>
<td>PCON-C</td>
<td>PCON-C</td>
</tr>
<tr>
<td></td>
<td>PCON-C</td>
<td>ACON-C</td>
<td>ACON-C</td>
</tr>
<tr>
<td><strong>RCA2</strong></td>
<td>SCON-CA</td>
<td>SCON-CA</td>
<td>SCON-CA</td>
</tr>
<tr>
<td></td>
<td>DSEP</td>
<td>DSEP</td>
<td>DSEP</td>
</tr>
<tr>
<td><strong>RCL</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RCS2</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>RCD</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
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