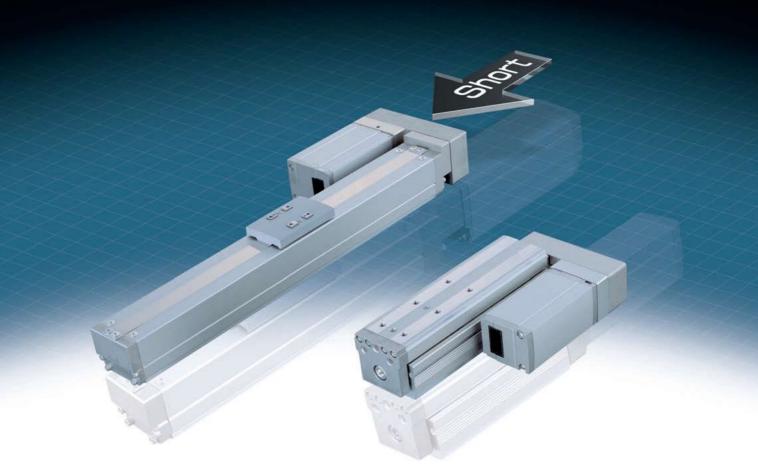


RoboCylinder Motor-reversing Specification RCP3/RCA2

GB



www.robocylinder.de



Significantly Shorter Overall Length by Reversing the Motor Space-saving, Affordably Priced ROBO Cylinder RCP3/RCA2 Series

Space-saving The motor-reversing structure shortens the overall length by up to 85.5 mm.

The motor-reversing structure shortens the overall length by up to 85.5 mm and thereby reduces the actuator footprint. The motor-reversing direction can be selected from among the three options: right, left and downward* *The downward-reversing specification is available as a customer order.





Motor reversed to right

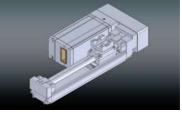
Motor reversed to left

Affordably Priced The motor-reversing structure helps realize an affordable price.

The RCP3/RCA2 series, complete with the guide, ball screw, servo motor, and motor-reversing structure, is available at an affordable price. The slider type is also available without cover to further reduce the cost as an option.







No cover type

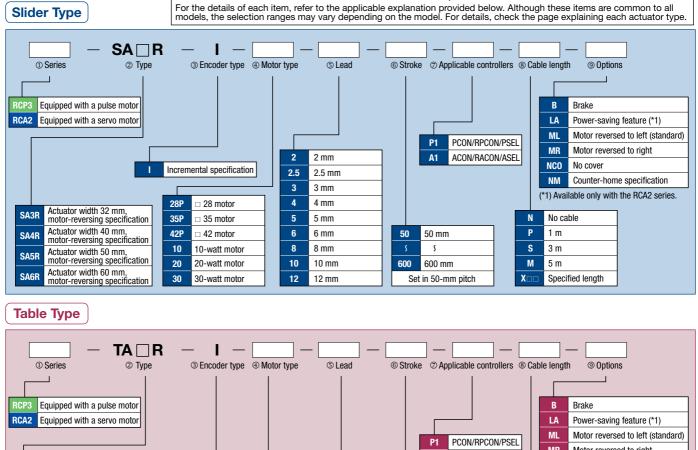
Easy to Use The unitized motor design increases maintainability.



The unitized motor is easy to replace, which leads to significant improvement in maintainability.



Model Name Specifications



The model names of RCP3/RCA3 actuators consist of the items specified below.

| TASR Actuator width 55 mm, motor-reversing specification TASR Actuator width 75 mm, actuator width 75 mm, DO 20-watt motor TASR Actuator width 75 mm, actuator width 75 mm, DO 20-watt motor | - 1 | Equipped with a serve motor | | | | En Tower saving leadere (1) | - 11 |
|---|-----|---|-----------------------------|------------|----------------------|---|------|
| TASR Actuator width 55 mm, motor-reversing specification TASR Actuator width 75 mm, 20 20-watt motor | | | | | P1 PCON/PPCON/PSEL | ML Motor reversed to left (standard) |) |
| Incremental specification 2.5 2.5 mm (*1) Available only with the RCA2 series Incremental specification 2.5 2.5 mm (*1) Available only with the RCA2 series Incremental specification 3 mm N No cable Incremental specification 35 motor 6 mm 5 mm Incremental specification 2.5 2.5 mm 2.5 mm Incremental specification 3 mm N No cable Incremental specification 2.5 5 mm 2.5 mm 2.5 mm Incremental specification 3.5 mm 2.5 mm 2.5 mm 9 mm Incremental specification 2.5 2.5 mm 5 mm 9 mm Incremental specification 3.5 mm 2.5 mm 5 mm 9 mm Incremental specification 2.5 2.5 mm 5 mm 9 mm 9 mm Incremental specification 3.5 10 mm 9 mm 9 mm 9 mm 9 mm Incremental specification 2.5 10 mm 10 mm< | | | | | | MR Motor reversed to right | |
| TASR Actuator width 55 mm, motor-reversing specification 35 m otor 35 m otor 3 mm N No cable TASR Actuator width 55 mm, motor-reversing specification 35 m otor 5 5 mm 25 25 mm P 1 m TAGR Actuator width 65 mm, motor-reversing specification 32 0 - vatt motor 6 6 mm 5 5 mm 20 20 mm S 3 m TAPR Actuator width 75 mm, Actuator width 75 mm, 20 - vatt motor 10 10 mm 200 200 mm M 5 m | | | | | AI ACON/RACON/ASEL | NM Counter-home specification | |
| TASR Actuator width 55 mm, motor-reversing specification 35P 35 motor TASR Actuator width 55 mm, motor-reversing specification 35P 35 motor TAGR Actuator width 65 mm, motor-reversing specification 35P 35 motor 20 20-watt motor 6 6 mm 5 5 TASR Actuator width 65 mm, motor-reversing specification 20 20-watt motor 10 10 mm 200 200 mm M 5 m TASR Actuator width 75 mm, 20 20-watt motor 10 10 mm 200 200 mm M 5 m | | | I Incremental specification | | | (*1) Available only with the RCA2 series. | |
| TASR Actuator width 55 mm, motor-reversing specification 35P 35 motor TAGR Actuator width 65 mm, motor-reversing specification 35P 35 motor TAGR Actuator width 65 mm, motor-reversing specification 42P 42 motor Column 1 0 0 0 TAGR Actuator width 75 mm, 20 20-watt motor 10 TAGR Actuator width 75 mm, 20 20-watt motor 10 | | | | 2.5 2.5 mm | | | |
| TASK motor-reversing specification 42P 42P 6 6 6 6 6 6 5 5 3 7 TASR Actuator width 65 mm, motor-reversing specification 42P 42 motor 6 6 mm 5 5 5 3 m TASR Actuator width 75 mm, Actuator width 75 mm, 20 20-watt motor 10 10 mm 200 200 mm M 5 m | | | | 3 3 mm | | No cable | |
| TAGR Actuator width 65 mm, motor-reversing specification 42P 42 motor 6 6 mm 5 5 S 3 m TAGR Actuator width 75 mm, Actuator width 75 mm, 20 20-watt motor 10 10 mm 200 200 mm M 5 m | | | 35P 🗆 35 motor | 5 5 mm | 25 25 mm | 2 1 m | |
| Thom-reversing specification 20 20-watt motor 10 10 mm 200 200 mm M 5 m TAZE Actuator width 75 mm, 20 20 watt motor 10 10 mm 200 200 mm M 5 m | | Actuator width 65 mm, | 42P 🗆 42 motor | 6 6 mm | s s s | 3 m | |
| | | motor-reversing specification | 20 20-watt motor | 10 10 mm | 200 200 mm | 1 5 m | |
| | | TA7R Actuator width 75 mm, motor-reversing specification | 30 30-watt motor | 12 12 mm | Set in 25-mm pitch X | Specified length | |

Series
 Type

The name of each series is indicated.

The shape (slider, table, etc.), material (aluminum, steel, etc.), size (actuator width) and motor coupling method are indicated.

| | <u>SA3R</u> | |
|-----------------------------|---|----|
| | S: Slider type / T: Table type A: Made of aluminum 3: Actuator width 32 mm / 4: Actuator width 40 mm / 5: Actuator width 50 mm (slider type)/55 mm (table type) / 6: Actuator width 60 mm (slider type)/65 mm (table type) / 7: Actuator width 75 mm C: Coupling specification / R: Motor-reversing specification | |
| ③ Encoder type | Whether the encoder installed in the actuator is of "A: Absolute specification" or "I: Incremental specification" is specified. All RCP3/RCA2 models come with an incremental encoder. | |
| ④ Motor type | The type of the motor installed in the actuator is indicated. | |
| | To be specific, the size of the pulse motor is indicated for the RCP3 series, while the motor wattage is indicated for the RCA2 series | 3. |
| ⑤ Lead | The ball screw lead (distance traveled by the slider per each revolution of the ball screw) is indicated. | |
| 6 Stroke | The operating range of the actuator is indicated. | |
| ⑦ Applicable controllers | The settable controller type is indicated. | |
| ® Cable length | The length of the (integrated) motor/encoder cable connecting the actuator and controller is indicated. | |
| - | The standard motor/encoder cable for RCP2/RCA2 is a robot cable. | |
| Options | Each option to be installed in the actuator is indicated. | |
| | The energy-saving feature is available only with the RCA2 series. | |
| | The standard motor-reversing direction is left (ML), but the actuator can also be designed so that the motor reverses to right (MR). | |
| | (Specify "ML" even when the standard reversing direction (left) need not be changed.) | |
| | If you are selecting two or more options, specify them in an alphabetical order. | |
| | | |

| RCP3-SA3R ROBO Cylinder, Slider Pulse Motor, Motor-rev | · Type, Actuator Width 32 mm, versing Specification |
|---|---|
| ■Model Name RCP3 - SA3R - I - 28P P1 Specifications Series - Type - Encoder type - Motor type - Lead - Stroke - Applicat L:Incremental specification 28P:Pulse motor : 6:6 mm 50:50 mm P1: PCON : 28 size 2:2 mm 300:300 mm (Set in 50-mm pitch) | ers B: With brake |
| | Correlation Diagrams of Speed and Load Capacity Due to the characteristics of the pulse motor installed inside, the RCP3 series allows the load capacity to drop as the speed increases. Use the graphs below to check if the desired speed and load capacity can be satisfied. |
| (1) Since the RCP3 series uses a pulse motor, its load capacity drops as the speed increases. Use the correlation diagrams of speed and load capacity provided on the right to check the load capacity achieved at the desired speed. (2) The load capacities are based on operation at an acceleration of 0.3 G (or 0.2 G when the lead is 2 or the actuator is used vertically). The acceleration cannot be increased beyond this level. | Lead 4 Lead 4 Lead 6 0.5 0 0 50 100 150 200 250 300 350 Speed (mm/sec) |
| Actuator Specifications | oped (minioo) |

| Strokes and Maximum Speeds | | | | | | Strokes and M | laximum Speeds |
|---|-----------|--------------------------------|-----|---------------------------|-------------------------|---------------|----------------------------------|
| Model | Lead (mm) | Maximum loa Horizontal (kg) | | Maximum push force (N) | Stroke (mm) | Stroke (mm) | 50 ~ 300 (Set in 50-mm pitch) |
| RCP3-SA3R-I-28P-6- ①-P1- ② - ③ | 6 | 1 | 0.5 | 15 | 50 ~ 300 | 6 | 300 |
| RCP3-SA3R-I-28P-4- ①-P1- ② - ③ | 4 | 2 | 1 | 22 | (Set in 50-mm pitch) | 4 | 200 |
| RCP3-SA3R-I-28P-2-①-P1-②-③ | 2 | 3 | 1.5 | 44 | oo min piton) | 2 | 100 |
| Explanation of codes: ① Stroke ② Cable length ③ Options | 3 | | | | | | (Unit: mm/sec) |

1) Price List by Stroke (Standard Prices)

| | Type code | | | | | |
|-------------|-----------------------|---------------------|--|--|--|--|
| | SA | | | | | |
| 0 | Encode | er type | | | | |
| Stroke (mm) | Incremental | | | | | |
| | Actuator cover | | | | | |
| | With cover (standard) | No cover (optional) | | | | |
| 50 | _ | - | | | | |
| 100 | — | - | | | | |
| 150 | — | - | | | | |
| 200 | — | - | | | | |
| 250 | — | — | | | | |
| 300 | _ | _ | | | | |

3 Price List of Options (Standard Prices)

| Name | Option code | Reference page | Standard price |
|-----------------------------------|-------------|----------------|----------------|
| With brake | В | - | _ |
| Motor reversed to left (standard) | ML | — | Free of charge |
| Motor reversed to right | MR | - | Free of charge |
| No cover | NCO | _ | See above. |
| Counter-home specification | NM | — | Free of charge |

② Price List by Cable Length (Standard Prices)

| 9.1.00 | of easie _ongin (onanuara | 110000) |
|------------------------|------------------------------------|---------------------|
| Туре | Model | Standard price |
| - · · · · | P (1m) | - |
| Standard type | S (3m) | - |
| (robot cable) | M (5m) | - |
| | X06 (6m) ~ X10 (10m) | - |
| Special length | X11 (11m) ~ X15 (15m) | - |
| | X16 (16m) ~ X20 (20m) | - |
| dard apple is an inter | rated motor/anapdar apple, which i | a alaa a rahat aahl |

*The standard cable is an integrated motor/encoder cable, which is also a robot cable. *Refer to P. 34 for the cables sold separately for maintenance purposes.

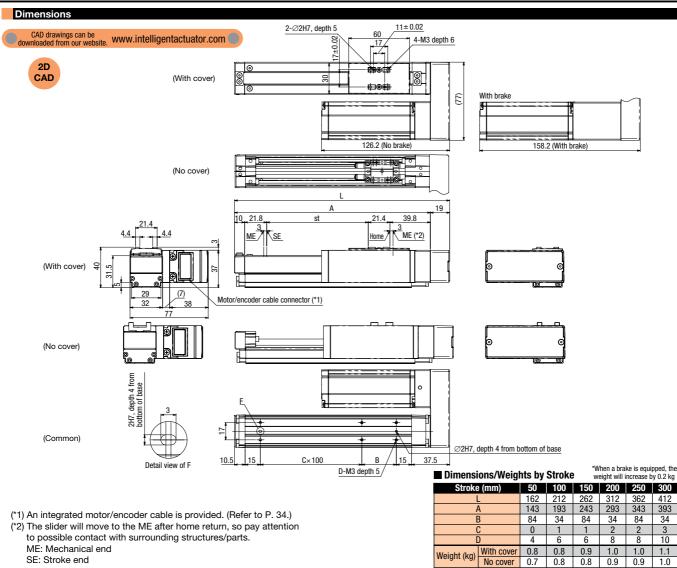
Actuator Specifications Item Description Drive method Ball screw, $\phi 6$ mm, rolled C10 Positioning repeatability ±0.05mm Lost motion 0.1 mm or less Base Material: Aluminum with dedicated alumite treatment Dynamic allowable load moment (*1) Ma: 1.96N·m Mb: 2.84N·m Mc: 3.14N·m Overhang load length 100 mm or less Surrounding air temperature/humidity 0 to 40°C, 85%RH or below (non-condensing) Traveling life 5000km

(*1) Refer to the RCP3/RCA2 Coupling Specification catalog for the moment load calculation.

Directions of allowable load moments





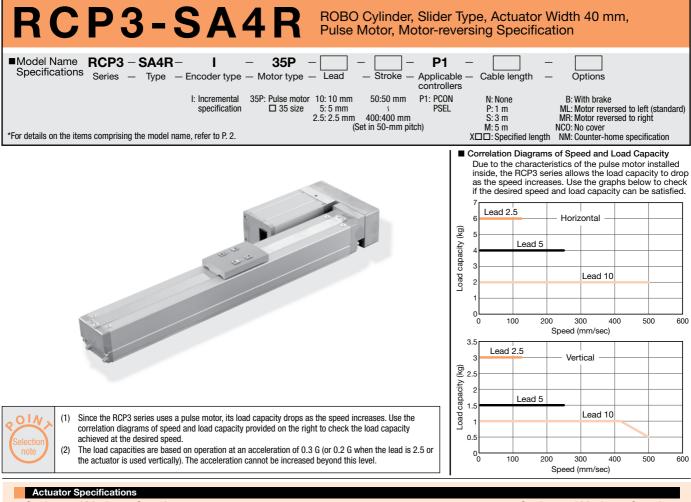


Controllers

Applicable Controllers RCP3-series actuators can be operated with any of the following controllers. Select a controller type appropriate for your specific application. Power-supply Maximum number of positioning points Standard Power-supply Model Name Appearance Feature price capacity pade п. -PCON_C_28PI_NP_2_0

| Positioner type | E | PCON-C-28PI-NP-2-0 | Up to 512 positioning | | | | — | | |
|---|---|----------------------|--|----------|---------------------|-------------------|------------------|------------------|--|
| Positioner type conforming to safety category | | PCON-CG-28PI-NP-2-0 | points are supported | 512 | | | _ | | |
| Solenoid valve type | | PCON-CY-28PI-NP-2-0 | Operable with the same control you use when operating a solenoid valve | 3 | | | _ | | |
| Pulse-train input type (differential line driver specification) | đ | PCON-PL-28PI-NP-2-0 | Pulse-train input type supporting differential line driver | () | DC24V | 2 A max. | _ | →P31 | |
| Pulse-train input type (open collector specification) | | PCON-PO-28PI-NP-2-0 | Pulse-train input type supporting open collector | | 00240 | 2 A max. | _ | 101 | |
| Serial communication type | P | PCON-SE-28PI-N-0-0 | Dedicated serial communication type | 64 | | | _ | | |
| Field network type | | RPCON-28P | Dedicated field network type | 768 | | | | | |
| Program control type | | PSEL-C-1-28PI-NP-2-0 | Up to 2 axes can be operated using programs | 1500 | | | | | |
| | | | | *M/ith D | CEL controlloro the | above information | applies to the 1 | uio oposificatio | |

With PSEL controllers, the above information applies to the 1-axis specification.



| Strokes and Maximum Speeds | | | | | | Strokes and M | aximum Speeds |
|---|-----------|--------------------------------|-----|---------------------------|-------------------------|---------------|----------------------------------|
| Model | Lead (mm) | Maximum Ioa Horizontal (kg) | | Maximum push force (N) | Stroke (mm) | Stroke (mm) | 50 ~ 400 (Set in 50-mm pitch) |
| RCP3-SA4R-I-35P-10- ①-P1-②-③ | 10 | 2 | ~1 | 34 | 50 ~ 400 | 10 | 500 |
| RCP3-SA4R-I-35P-5- ①-P1-②-③ | 5 | 4 | 1.5 | 68 | (Set in 50-mm pitch) | 5 | 250 |
| RCP3-SA4R-I-35P-2.5-①-P1-②-③ | 2.5 | 6 | 3 | 136 | oo min piton) | 2.5 | 125 |
| Explanation of codes: ① Stroke ② Cable length ③ Options | 3 | | | | | | (Unit: mm/sec) |

Explanation of codes: ① Stroke ② Cable length ③ Options

| ① Price List by Stroke (Standard Prices) | | | | | | |
|--|-----------------------|---------------------|--|--|--|--|
| | Туре | code | | | | |
| 0 | SA | 4R | | | | |
| | Encode | er type | | | | |
| Stroke (mm) | Incren | nental | | | | |
| | Actuator cover | | | | | |
| | With cover (standard) | No cover (optional) | | | | |
| 50 | - | — | | | | |
| 100 | - | — | | | | |
| 150 | - | _ | | | | |
| 200 | | — | | | | |
| 250 | _ | — | | | | |
| 300 | | _ | | | | |
| 350 | | _ | | | | |
| 400 | _ | _ | | | | |

3 Price List of Options (Standard Prices)

| Name | Option code | Reference page | Standard price |
|-----------------------------------|-------------|----------------|----------------|
| With brake | В | - | - |
| Motor reversed to left (standard) | ML | — | Free of charge |
| Motor reversed to right | MR | - | Free of charge |
| No cover | NCO | - | See above. |
| Counter-home specification | NM | _ | Free of charge |

(2) Price List by Cable Longth (Standard Prices)

| C Frice List by Oable Length (Standard Frices) | | | | | |
|--|-----------------------|----------------|--|--|--|
| Туре | Model | Standard price | | | |
| | P (1m) | - | | | |
| Standard type (robot cable) | S (3m) | - | | | |
| | M (5m) | - | | | |
| | X06 (6m) ~ X10 (10m) | - | | | |
| Special length | X11 (11m) ~ X15 (15m) | - | | | |
| | X16 (16m) ~ X20 (20m) | _ | | | |

*Refer to P. 34 for the cables sold separately for maintenance purposes.

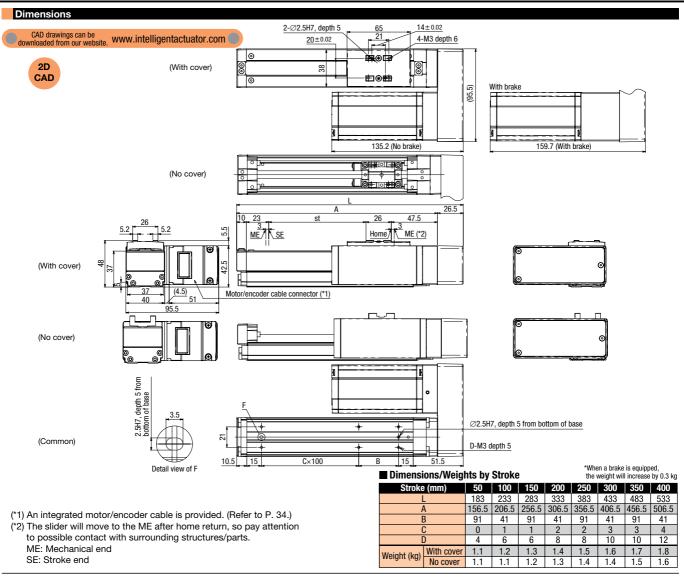
Actuator Specifications

| Item | Description | | | |
|---|---|--|--|--|
| Drive method | Ball screw, φ8 mm, rolled C10 | | | |
| Positioning repeatability | ±0.05mm | | | |
| Lost motion | 0.1 mm or less | | | |
| Base | Material: Aluminum with dedicated alumite treatment | | | |
| Dynamic allowable load moment (*1) | Ma: 3.04N·m Mb: 4.31N·m Mc: 5.00N·m | | | |
| Overhang load length | 120 mm or less | | | |
| Surrounding air temperature/humidity | 0 to 40°C, 85%RH or below (non-condensing) | | | |
| Traveling life | 5000km | | | |
| (*1) Refer to the RCP3/RCA2 Coupling Specification catalog for the moment load calculation. | | | | |

Directions of allowable load moments



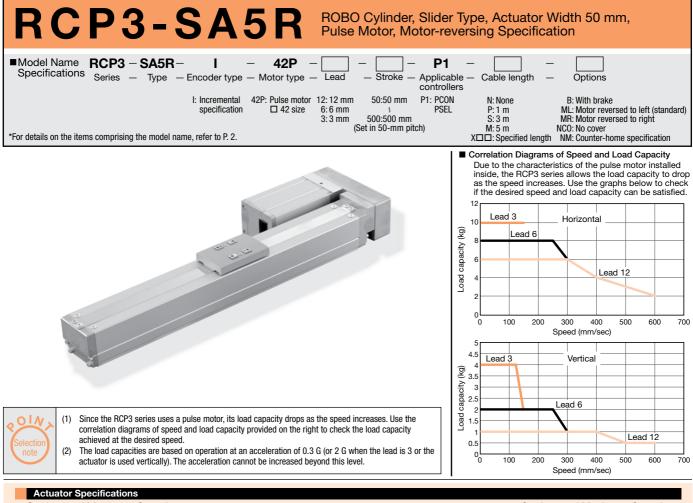




Controllers

| Applicable Controllers RCP3-series actuators can be operated with any of the following controllers. Select a controller type appropriate for your specific application. | | | | | | | | | |
|--|------------|----------------------|--|---|--------------|----------|-------------------|-------------------|--|
| Name | Appearance | Model | Feature | Maximum number of positioning points | Power-supply | | Standard price | Reference page | |
| Positioner type | Ê | PCON-C-35PI-NP-2-0 | Up to 512 positioning | | | | | _ | |
| Positioner type conforming to safety category | | PCON-CG-35PI-NP-2-0 | Up to 512 positioning points are supported | 512 | | | _ | | |
| Solenoid valve type | | PCON-CY-35PI-NP-2-0 | Operable with the same control you use when operating a solenoid valve | 3 | | | _ | | |
| Pulse-train input type (differential line driver specification) | đ | PCON-PL-35PI-NP-2-0 | Pulse-train input type supporting differential line driver | (-) | DC24V | 2 A max. | _ | →P31 | |
| Pulse-train input type (open collector specification) | | PCON-PO-35PI-NP-2-0 | Pulse-train input type supporting open collector | (-) | 00240 | 2 A max. | — | | |
| Serial communication type | | PCON-SE-35PI-N-0-0 | Dedicated serial communication type | 64 | | | - | | |
| Field network type | | RPCON-35P | Dedicated field network type | 768 | | | _ | | |
| Program control type | | PSEL-C-1-35PI-NP-2-0 | Up to 2 axes can be operated using programs | 1500 | | | _ | | |

With PSEL controllers, the above information applies to the 1-axis specification.



| Strokes and Maximum Speeds | | | | | | Strokes and M | laximum Speeds |
|--|-----------|--------------------------------|-----------------------------|---------------------------|-------------------------|---------------|----------------------------------|
| Model | Lead (mm) | Maximum loa Horizontal (kg) | d capacity Vertical (kg) | Maximum push force (N) | Stroke (mm) | Stroke (mm) | 50 ~ 500 (Set in 50-mm pitch) |
| RCP3-SA5R-I-42P-12-①-P1-②-③ | 12 | ~6 | ~1 | 47 | 50 ~ 500 | 12 | 600 |
| RCP3-SA5R-I-42P-6- ①-P1-②-③ | 6 | ~8 | ~2 | 95 | (Set in 50-mm pitch) | 6 | 300 |
| RCP3-SA5R-I-42P-3- ①-P1-②-③ | 3 | 10 | ~4 | 189 | oo niin pitoli) | 3 | 150 |
| Explanation of codes: ① Stroke ② Cable length ③ Options (Unit: m | | | | | | | (Unit: mm/sec) |

① Price List by Stroke (Standard Prices)

| | by ou one (oranidara i nee | -) | | | |
|-------------|----------------------------|---------------------|--|--|--|
| | Type code | | | | |
| | SA5R | | | | |
| | Encode | er type | | | |
| Stroke (mm) | Incren | nental | | | |
| | Actuator cover | | | | |
| | With cover (standard) | No cover (optional) | | | |
| 50 | — | — | | | |
| 100 | — | — | | | |
| 150 | — | | | | |
| 200 | _ | — | | | |
| 250 | _ | — | | | |
| 300 | | <u> </u> | | | |
| 350 | — | — | | | |
| 400 | | _ | | | |
| 450 | | _ | | | |
| 500 | — | — | | | |
| | | | | | |

| ③ Price List of Options (Standard Prices) | | | | | | | |
|---|----------------|---|----------------|--|--|--|--|
| Name | Standard price | | | | | | |
| With brake | В | — | _ | | | | |
| Motor reversed to left (standard) | ML | — | Free of charge | | | | |
| Motor reversed to right | MR | — | Free of charge | | | | |
| No cover | NCO | — | See above. | | | | |
| Counter-home specification | NM | — | Free of charge | | | | |

2 Price List by Cable Length (Standard Prices)

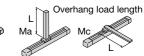
| ② Price List by Cable Length (Standard Prices) | | | | | |
|--|------------------------------------|----------------|--|--|--|
| Туре | Model | Standard price | | | |
| | P (1m) | - | | | |
| Standard type (robot cable) | S (3m) | - | | | |
| | M (5m) | - | | | |
| | X06 (6m) ~ X10 (10m) | - | | | |
| | X11 (11m) ~ X15 (15m) | _ | | | |
| | X16 (16m) ~ X20 (20m) | - | | | |

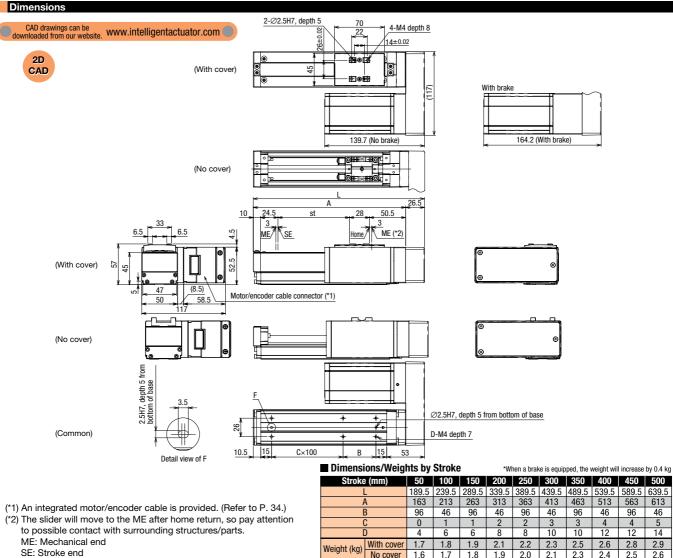
*Refer to P. 34 for the cables sold separately for maintenance purposes.

| Actuator Specifications | | | | |
|---|---|--|--|--|
| Item | Description | | | |
| Drive method | Ball screw, $\phi 10$ mm, rolled C10 | | | |
| Positioning repeatability | ±0.05mm | | | |
| Lost motion | 0.1 mm or less | | | |
| Base | Material: Aluminum with dedicated alumite treatment | | | |
| Dynamic allowable load moment (*1) | Ma: 3.92N·m Mb: 5.58N·m Mc: 8.53N·m | | | |
| Overhang load length | 130 mm or less | | | |
| Surrounding air temperature/humidity | 0 to 40°C, 85%RH or below (non-condensing) | | | |
| Traveling life | 5000km | | | |
| (*1) Refer to the RCP3/RCA2 Coupling Specification catalog for the moment load calculation. | | | | |

Directions of allowable load moments







- ME: Mechanical end
- SE: Stroke end

Controllers

Applicable Controllers RCP3-series actuators can be operated with any of the following controllers. Select a controller type appropriate for your specific application.

| Name | Appearance | Model | Feature | Maximum number of positioning points | Power-supply voltage | Power-supply capacity | Standard price | Reference page |
|---|------------|----------------------|--|---|----------------------|--------------------------|-------------------|---|
| Positioner type | E | PCON-C-42PI-NP-2-0 | Up to 512 positioning | | | | _ | |
| Positioner type conforming to safety category | | PCON-CG-42PI-NP-2-0 | points are supported | 512 | | | _ | |
| Solenoid valve type | | PCON-CY-42PI-NP-2-0 | Operable with the same control you use when operating a solenoid valve | 3 | | | | |
| Pulse-train input type (differential line driver specification) | Ő | PCON-PL-42PI-NP-2-0 | Pulse-train input type supporting differential line driver | () | DC24V | 2 A max. | _ | →P31 |
| Pulse-train input type (open collector specification) | | PCON-PO-42PI-NP-2-0 | Pulse-train input type supporting open collector | | DOLHV | | — | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
| Serial communication type | P | PCON-SE-42PI-N-0-0 | Dedicated serial communication type | 64 | | | _ | |
| Field network type | | RPCON-42P | Dedicated field network type | 768 | | | _ | |
| Program control type | | PSEL-C-1-42PI-NP-2-0 | Up to 2 axes can be operated using programs | 1500 | | | _ | |

*With PSEL controllers, the above information applies to the 1-axis specification.

1.8 1.9 2.1

1.8

1.7

No cover 1.6

2.2

1.9 2.0 2.1

2.3

2.5

2.3

2.6

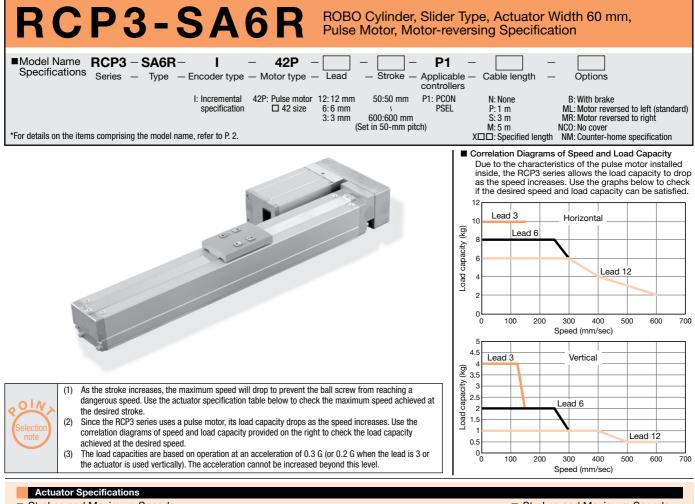
2.4

5 14

2.6

2.8 2.9

2.5



| Strokes and Maximum Speeds | | | | | | Strokes and N | laximum Speed | s |
|--|-----------|--------------------------------|----|---------------------------|-------------------------|---------------|----------------------------------|-------------|
| Model | Lead (mm) | Maximum Ioa Horizontal (kg) | | Maximum push force (N) | Stroke (mm) | Stroke (mm) | 50 ~ 550 (Set in 50-mm pitch) | 600 (mm) |
| RCP3-SA6R-I-42P-12-①-P1-②-③ | 12 | ~6 | ~1 | 47 | 50 ~ 600 | 12 | 600 | 540 |
| RCP3-SA6R-I-42P-6- ①-P1-②-③ | 6 | ~8 | ~2 | 95 | (Set in 50-mm pitch) | 6 | 300 | 270 |
| RCP3-SA6R-I-42P-3- ①-P1-②-③ | 3 | 10 | ~4 | 189 | ee min piton, | 3 | 150 | 135 |
| Explanation of codes: 10 Stroke 12 Cable length 13 Options (Unit: mm/see | | | | | | | n/sec) | |

Explanation of codes: ① Stroke ② Cable length ③ Options

Dring List by Challes (Ch

| U Price List by Stroke (Standard Prices) | | | | | |
|--|-----------------------|---------------------|--|--|--|
| | Type code | | | | |
| Û | SA | | | | |
| U U | Encode | er type | | | |
| Stroke (mm) | Incren | nental | | | |
| | Actuato | | | | |
| | With cover (standard) | No cover (optional) | | | |
| 50 | — | — | | | |
| 100 | — | — | | | |
| 150 | — | — | | | |
| 200 | — | — | | | |
| 250 | | _ | | | |
| 300 | — | — | | | |
| 350 | — | — | | | |
| 400 | — | — | | | |
| 450 | | _ | | | |
| 500 | | | | | |
| 550 | | | | | |
| 600 | — | — | | | |

| ③ Price List of Options (Standard Prices) | | | | | | |
|---|-------------|----------------|----------------|--|--|--|
| Name | Option code | Reference page | Standard price | | | |
| With brake | В | — | _ | | | |
| Motor reversed to left (standard) | ML | — | Free of charge | | | |
| Motor reversed to right | MR | — | Free of charge | | | |
| No cover | NCO | — | See above. | | | |
| Counter-home specification | NM | _ | Free of charge | | | |

② Price List by Cable Length (Standard Prices)

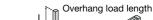
| | Туре | Model | Standard price |
|--|--------------------------------|-------------------------------------|----------------|
| | o | P (1m) | - |
| | Standard type (robot cable) | S (3m) | - |
| | | M (5m) | - |
| | Special length | X06 (6m) ~ X10 (10m) | - |
| | | X11 (11m) ~ X15 (15m) | - |
| | | X16 (16m) ~ X20 (20m) | - |
| | | | |

*Refer to P. 34 for the cables sold separately for maintenance purposes.

Actuator Specifications

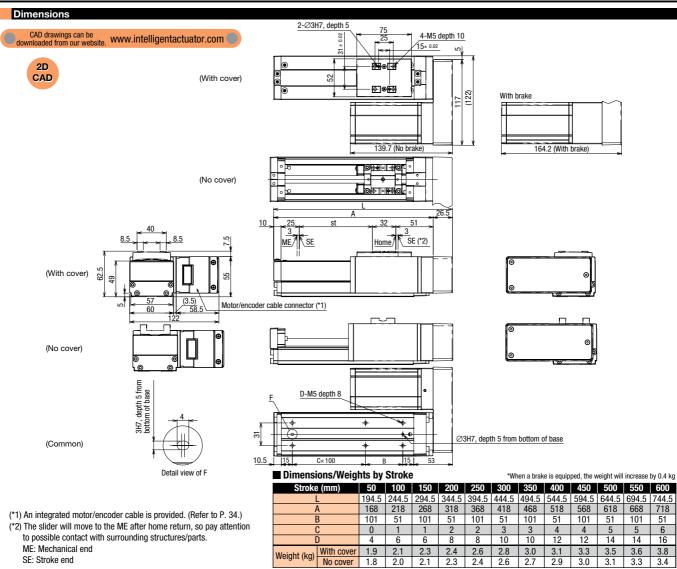
| Item | Description | | | |
|--------------------------------------|---|--|--|--|
| Drive method | Ball screw, ϕ 10 mm, rolled C10 | | | |
| Positioning repeatability | ±0.05mm | | | |
| Lost motion | 0.1 mm or less | | | |
| Base | Material: Aluminum with dedicated alumite treatment | | | |
| Dynamic allowable load moment (*1) | Ma: 4.31N·m Mb: 6.17N·m Mc: 10.98N·m | | | |
| Overhang load length | 150 mm or less | | | |
| Surrounding air temperature/humidity | 0 to 40°C, 85%RH or below (non-condensing) | | | |
| Traveling life | 5000km | | | |
| (*1) Refer to the RCP3/RCA2 Coupling | (*1) Refer to the RCP3/RCA2 Coupling Specification catalog for the moment load calculation. | | | |

Directions of allowable load moments



Ма

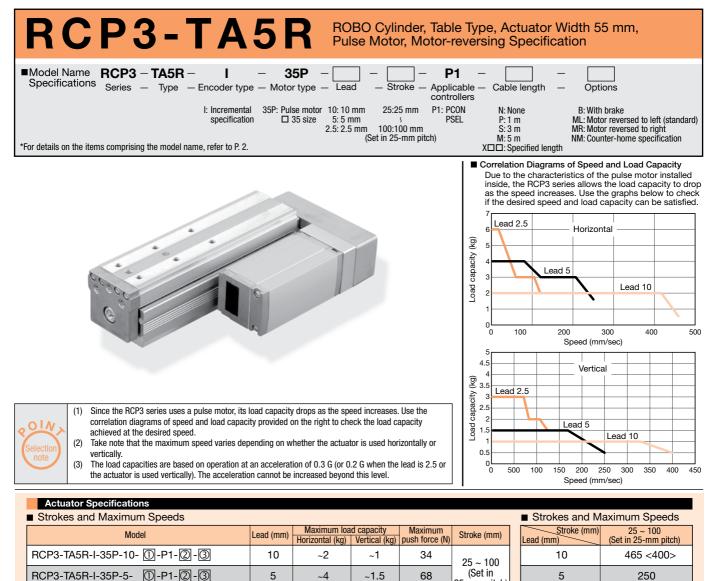




Controllers

| | Applicable Controllers RCP3-series actuators can be operated with any of the following controllers. Select a controller type appropriate for your specific application. | | | | | | | | |
|---|--|----------------------|--|---|--------------|----------|-------------------|-------------------|--|
| Name | Appearance | Model | Feature | Maximum number of positioning points | Power-supply | | Standard price | Reference page | |
| Positioner type | E | PCON-C-42PI-NP-2-0 | Up to 512 positioning | | | | | _ | |
| Positioner type conforming to safety category | | PCON-CG-42PI-NP-2-0 | points are supported | 512 | | | — | | |
| Solenoid valve type | | PCON-CY-42PI-NP-2-0 | Operable with the same control you use when operating a solenoid valve | 3 | | | _ | | |
| Pulse-train input type (differential line driver specification) | đ | PCON-PL-42PI-NP-2-0 | Pulse-train input type supporting differential line driver | . (-) | DC24V | 2 A max. | _ | →P31 | |
| Pulse-train input type (open collector specification) | | PCON-PO-42PI-NP-2-0 | Pulse-train input type supporting open collector | | DOLTV | 2 A max. | — | | |
| Serial communication type | 2 | PCON-SE-42PI-N-0-0 | Dedicated serial communication type | 64 | | | — | | |
| Field network type | | RPCON-42P | Dedicated field network type | 768 | | | _ | | |
| Program control type | | PSEL-C-1-42PI-NP-2-0 | Up to 2 axes can be operated using programs | 1500 | | | _ | | |

*With PSEL controllers, the above information applies to the 1-axis specification.



Explanation of codes: ① Stroke ② Cable length ③ Options

RCP3-TA5R-I-35P-2.5-①-P1-②-③

| ① Price List by Stroke (Standard Prices) | | | |
|--|--------------|--|--|
| | Type code | | |
| ① Stroke (mm) | TA5R | | |
| | Encoder type | | |
| | Incremental | | |
| 25 | — | | |
| 50 | — | | |
| 75 | — | | |
| 100 | — | | |
| | | | |

2.5

~6

~3

③ Price List of Options (Standard Prices) Wi Ma Ma

| Name | Option code | Reference page | Standard price |
|-----------------------------------|-------------|----------------|----------------|
| With brake | В | — | - |
| Motor reversed to left (standard) | ML | — | Free of charge |
| Motor reversed to right | MR | — | Free of charge |
| Counter-home specification | NM | _ | Free of charge |
| | | | |

*The value in <> applies when the actuator is used vertically. (Unit: mm/sec)

125

| ② Price List by Cable Length (Standard Prices) | | | | | |
|--|-------------------------------------|----------------|--|--|--|
| Туре | Model | Standard price | | | |
| | P (1m) | - | | | |
| Standard type (robot cable) | S (3m) | - | | | |
| (robot cable) | M (5m) | - | | | |
| | X06 (6m) ~ X10 (10m) | - | | | |
| Special length | X11 (11m) ~ X15 (15m) | - | | | |
| , , | X16 (16m) ~ X20 (20m) | - | | | |

2.5

*Refer to P. 34 for the cables sold separately for maintenance purposes.

Actuator Specifications

136

| Item | Description | | |
|---|---|--|--|
| Drive method | Ball screw, $\phi 8$ mm, rolled C10 | | |
| Positioning repeatability | ±0.05mm | | |
| Lost motion | 0.1 mm or less | | |
| Base | Material: Aluminum with dedicated alumite treatment | | |
| Dynamic allowable load moment (*1) | Ma: 6.57N·m Mb: 9.32N·m Mc: 14.32N·m | | |
| Overhang load length | Within the range of the applicable load moment | | |
| Surrounding air temperature/humidity | 0 to 40°C, 85%RH or below (non-condensing) | | |
| Traveling life | 5000km | | |
| (*1) Refer to the RCP3/RCA2 Coupling Specification catalog for the moment load calculation. | | | |

Directions of allowable load moments

25-mm pitch)

Ма





50

*When a brake is equipped, the weight will increase by 0.3 kg

50 75 100

153 178

153 178

2 2

2

6

8

163 188

68

2

6

8

1.9

176 201 226

1

1.6 1.7

43 68 43

1 1

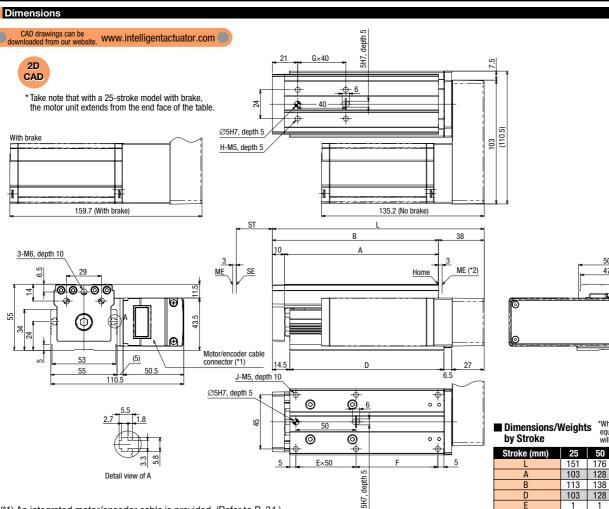
4 4

6 6

1.4

н

Weight (kg)



| (*1) An integrated motor/encoder cable is provided. (Refer to | P. 34.) |
|---|---------|
|---|---------|

- (*2) The slider will move to the ME after home return, so pay attention
- to possible contact with surrounding structures/parts.
 - ME: Mechanical end
 - SE: Stroke end

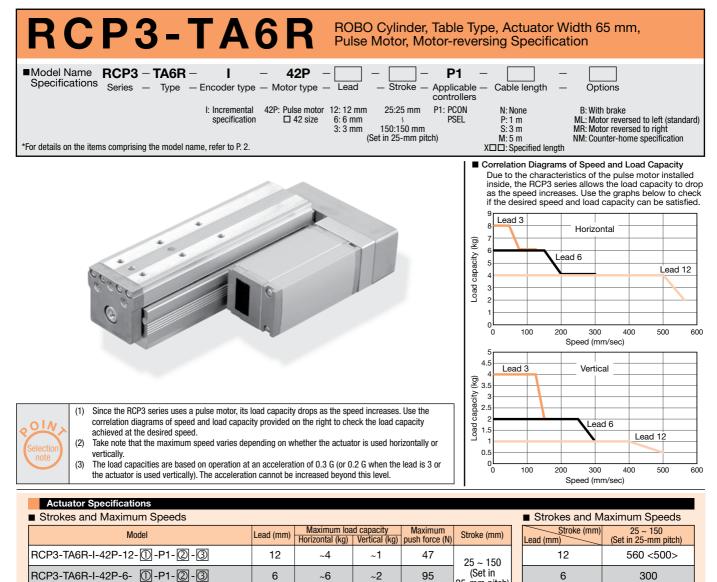
Controllers

Applicable Controllers RCP3-series actuators can be operated with any of the following controllers. Select a controller type appropriate for your specific application.

| Name | Appearance | Model | Feature | Maximum number of positioning points | Power-supply voltage | Power-supply capacity | Standard price | Reference page |
|---|------------|----------------------|--|---|-------------------------|--------------------------|-------------------|-------------------|
| Positioner type | E | PCON-C-35PI-NP-2-0 | Up to 512 positioning | | | | — | |
| Positioner type conforming to safety category | | PCON-CG-35PI-NP-2-0 | points are supported | 512 | | | — | |
| Solenoid valve type | | PCON-CY-35PI-NP-2-0 | Operable with the same control you use when operating a solenoid valve | 3 | | | — | |
| Pulse-train input type (differential line driver specification) | đ | PCON-PL-35PI-NP-2-0 | Pulse-train input type supporting differential line driver | (-) | DC24V | 2 A max. | — | |
| Pulse-train input type (open collector specification) | | PCON-PO-35PI-NP-2-0 | Pulse-train input type supporting open collector | () | | Z A IIIdx. | — | |
| Serial communication type | | PCON-SE-35PI-N-0-0 | Dedicated serial communication type | 64 | | | — | |
| Field network type | | RPCON-35P | Dedicated field network type | 768 | | | _ | |
| Program control type | | PSEL-C-1-35PI-NP-2-0 | Up to 2 axes can be operated using programs | 1500 | | | _ | |

*With PSEL controllers, the above information applies to the 1-axis specification.

RCP3-ТА5R **20**



Explanation of codes: ① Stroke ② Cable length ③ Options

| 1 Price List b | | |
|----------------|--|--|
| | | |
| | | |

RCP3-TA6R-I-42P-3- ①-P1-②-③

| | Type code TA6R | | |
|-------------|--|--|--|
| 1 | TA6R | | |
| Stroke (mm) | Encoder type | | |
| | Incremental | | |
| 25 | _ | | |
| 50 | _ | | |
| 75 | _ | | |
| 100 | _ | | |
| 125 | — | | |
| 150 | —————————————————————————————————————— | | |

3

~8

~4

3 Price List of Options (Standard Prices)

| Name | Option code | Reference page | Standard price |
|-----------------------------------|-------------|----------------|----------------|
| With brake | В | — | — |
| Motor reversed to left (standard) | ML | — | Free of charge |
| Motor reversed to right | MR | — | Free of charge |
| Counter-home specification | NM | — | Free of charge |

*The value in <> applies when the actuator is used vertically. (Unit: mm/sec)

150

Mc

| ② Price List by Cable Length (Standard Prices) | | | | |
|--|-------------------------------------|----------------|--|--|
| Туре | Model | Standard price | | |
| | P (1m) | - | | |
| Standard type (robot cable) | S (3m) | - | | |
| (robot cable) | M (5m) | - | | |
| | X06 (6m) ~ X10 (10m) | - | | |
| | X11 (11m) ~ X15 (15m) | - | | |
| | X16 (16m) ~ X20 (20m) | - | | |

3

*Refer to P. 34 for the cables sold separately for maintenance purposes.

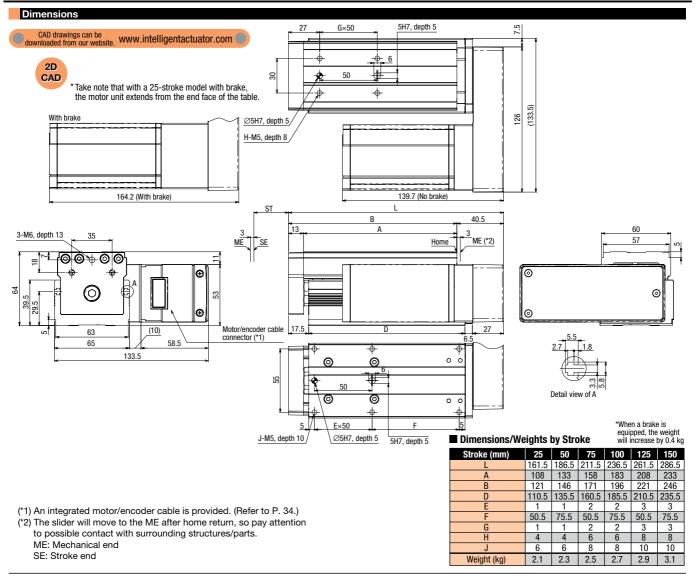
Actuator Specifications

189

25-mm pitch)

| Actuator opcompations | | | | | | | |
|---|---|--|--|--|--|--|--|
| Item | Description | | | | | | |
| Drive method | Ball screw, ϕ 10 mm, rolled C10 | | | | | | |
| Positioning repeatability | ±0.05mm | | | | | | |
| Lost motion | 0.1 mm or less | | | | | | |
| Base | Material: Aluminum with dedicated alumite treatment | | | | | | |
| Dynamic allowable load moment (*1) | Ma: 7.26N·m Mb: 10.3N·m Mc: 18.25N·m | | | | | | |
| Overhang load length | Within the range of the applicable load moment | | | | | | |
| Surrounding air temperature/humidity | 0 to 40°C, 85%RH or below (non-condensing) | | | | | | |
| Traveling life | 5000km | | | | | | |
| (*1) Refer to the RCP3/RCA2 Coupling Specification catalog for the moment load calculation. | | | | | | | |

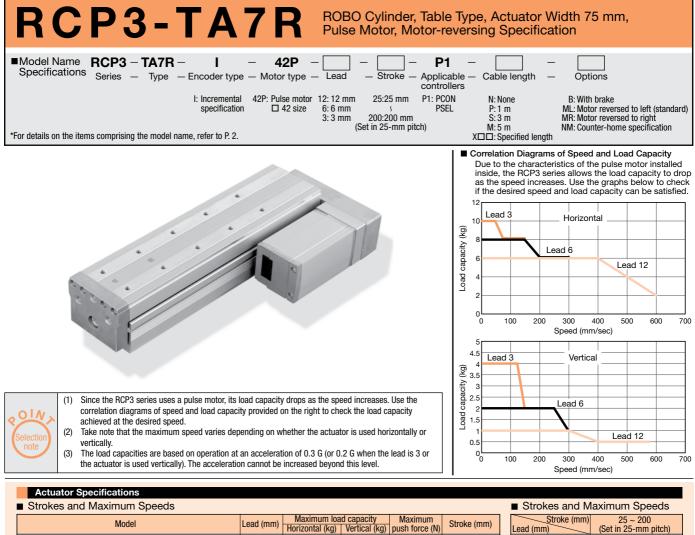
Directions of allowable load moments Mb Ma



Controllers

| Applicable Controllers RCP3-series actuators can be operated with any of the following controllers. Select a controller type appropriate for your specific application. | | | | | | | | | |
|--|------------|--|--|--|-------|--------------------------|-------------------|-------------------|------|
| Name | Appearance | Model | Feature | Maximum number of positioning points | | Power-supply capacity | Standard price | Reference page | |
| Positioner type | E | PCON-C-42PI-NP-2-0 | Up to 512 positioning | | | | _ | | |
| Positioner type conforming to safety category | | PCON-CG-42PI-NP-2-0 | points are supported | 512 | | | _ | | |
| Solenoid valve type | | PCON-CY-42PI-NP-2-0 PCON-CY-42PI-NP-2-0 Operable with the same control you use when operating a solenoid valve | | | | — | | | |
| Pulse-train input type (differential line driver specification) | | PCON-PL-42PI-NP-2-0 | Pulse-train input type supporting differential line driver | - (-) | DC24V | 2 A max. | _ | →P31 | |
| Pulse-train input type (open collector specification) | | | PCON-PO-42PI-NP-2-0 | Pulse-train input type supporting open collector | (-) | 00240 | 2 A max. | — | 7.01 |
| Serial communication type | | PCON-SE-42PI-N-0-0 | Dedicated serial communication type | 64 | | | — | | |
| Field network type | | RPCON-42P | Dedicated field network type | 768 | | | | | |
| Program control type | | PSEL-C-1-42PI-NP-2-0 | Up to 2 axes can be operated using programs | 1500 | | | _ | | |

*With PSEL controllers, the above information applies to the 1-axis specification.



| RCP3-TA7R-I-42P-12-①-P1-②-③ | 12 | ~6 | ~1 | 47 | 25 ~ 200 |
|-----------------------------|----|-----|----|-----|-------------------------|
| RCP3-TA7R-I-42P-6- ①-P1-②-③ | 6 | ~8 | ~2 | 95 | (Set in 25-mm pitch) |
| RCP3-TA7R-I-42P-3- ①-P1-②-③ | 3 | ~10 | ~4 | 189 | 20 mm phony |
| | | | | | |

6 300 3 150

600 < 580>

(Unit: mm/sec)

Mc

Explanation of codes: ① Stroke ② Cable length ③ Options

| ① Price List by Stroke (Standard Prices) | | | | | | |
|--|--------------|--|--|--|--|--|
| | Type code | | | | | |
| 1 | TA7R | | | | | |
| Stroke (mm) | Encoder type | | | | | |
| | Incremental | | | | | |
| 25 | — | | | | | |
| 50 | — | | | | | |
| 75 | _ | | | | | |
| 100 | — | | | | | |
| 125 | — | | | | | |
| 150 | — | | | | | |
| 175 | — | | | | | |
| 200 | — | | | | | |

| ③ Price List of Options (Standard Prices) | | | | | | | |
|---|-------------|----------------|----------------|--|--|--|--|
| Name | Option code | Reference page | Standard price | | | | |
| With brake | В | — | — | | | | |
| Motor reversed to left (standard) | ML | — | Free of charge | | | | |
| Motor reversed to right | MR | — | Free of charge | | | | |
| Counter-home specification | NM | — | Free of charge | | | | |

*The value in < > applies when the actuator is used vertically.

12

| Price List i | ② Price List by Cable Length (Standard Prices) | | | | | | |
|----------------|--|----------------|--|--|--|--|--|
| Туре | Model | Standard price | | | | | |
| | P (1m) | - | | | | | |
| Standard type | S (3m) | - | | | | | |
| (robot cable) | M (5m) | - | | | | | |
| | X06 (6m) ~ X10 (10m) | - | | | | | |
| Special length | X11 (11m) ~ X15 (15m) | - | | | | | |
| | X16 (16m) ~ X20 (20m) | - | | | | | |
| *D () D 0 () | | | | | | | |

*Refer to P. 34 for the cables sold separately for maintenance purposes.

Actuator Specifications

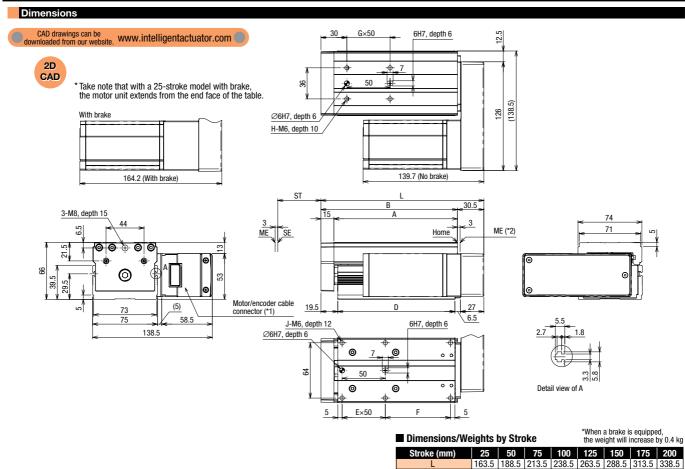
| Item | Description | | | | |
|---|---|--|--|--|--|
| Drive method | Ball screw, ϕ 10 mm, rolled C10 | | | | |
| Positioning repeatability | ±0.05mm | | | | |
| Lost motion | 0.1 mm or less | | | | |
| Base | Material: Aluminum with dedicated alumite treatment | | | | |
| Dynamic allowable load moment (*1) | Ma:9.91N·m Mb: 14.13N·m Mc: 28.65N·m | | | | |
| Overhang load length | Within the range of the applicable load moment | | | | |
| Surrounding air temperature/humidity | 0 to 40°C, 85%RH or below (non-condensing) | | | | |
| Traveling life | 5000km | | | | |
| (*1) Refer to the RCP3/RCA2 Coupling Specification catalog for the moment load calculation. | | | | | |

Directions of allowable load moments

Ма







(*1) An integrated motor/encoder cable is provided. (Refer to P. 34.) (*2) The slider will move to the ME after home return, so pay attention

- to possible contact with surrounding structures/parts.
 - ME: Mechanical end
 - SE: Stroke end

Controllers

RCP3-series actuators can be operated with any of the following controllers. Select a controller type appropriate for your specific application.

| Name | Appearance | Model | Feature | Maximum number of positioning points | | Power-supply capacity | Standard price | Reference page | | |
|---|------------|----------------------|--|---|--|--------------------------|-------------------|-------------------|---|------|
| Positioner type | E | PCON-C-42PI-NP-2-0 | Up to 512 positioning | | | | _ | | | |
| Positioner type conforming to safety category | | PCON-CG-42PI-NP-2-0 | | | | | — | | | |
| Solenoid valve type | | PCON-CY-42PI-NP-2-0 | Operable with the same control you use when operating a solenoid valve | 3 | | | — | | | |
| Pulse-train input type (differential line driver specification) | | ő | đ | PCON-PL-42PI-NP-2-0 | Pulse-train input type supporting differential line driver | pporting differential | DC24V | 2 A max. | — | →P31 |
| Pulse-train input type (open collector specification) | | PCON-PO-42PI-NP-2-0 | Pulse-train input type supporting open collector | (-) | 00240 | 2 A max. | — | //01 | | |
| Serial communication type | P | PCON-SE-42PI-N-0-0 | Dedicated serial communication type | 64 | | | _ | | | |
| Field network type | | RPCON-42P | Dedicated field network type | 768 | | | _ | | | |
| Program control type | | PSEL-C-1-42PI-NP-2-0 | Up to 2 axes can be operated using programs | 1500 | | | — | | | |

*With PSEL controllers, the above information applies to the 1-axis specification.

118 143

133 158

110.5 135.5

1 1

50.5 75.5

1 1

4 4 6

6 6

2.4 2.6 2.8 3.1

н

Weight (kg)

168 193

183 208

160.5 185.5

2

8

2 2

50.5 75.5

2

8

218 243

233 258

210.5 235.5

50.5 75.5

3 3

3 3

8 8

10 10 12

3.3 3.5 3.7

268 293

4 4

50.5

4

10

283 308

260.5 285.5

75.5

4

10

12

3.9

RCP3/RCA2 Applicable Controllers

RCP3/RCA2 Controllers

| | Model List/Prices | | | | | | | | | |
|---|--|--|--|--|---|--|---|--|--|--|
| Model | | | PCON/ACON | | | RPCON PACON | PSEL/ASEL | | | |
| | C | CG Safety category | СҮ | PL/PO Pulse-train control | SE Serial | (ROBONET) Field network | | | | |
| Name | Positioner type | type | Solenoid valve type | type | communication type | type | Program type | | | |
| Appearance | | | | | | | | | | |
| Feature | Positioner controller supporting up to 512 positioning points | Specification conforming to safety category | Operable with the same control you use when operating an air cylinder | Freely controllable using pulse trains | Dedicated controller for serial communication | Operable via DeviceNet, CC-Link or Profibus | Capable of operating an actuator via programs using the built-in sequence function | | | |
| Price | _ | - | _ | _ | _ | - (*1) | - (*2) | | | |
| (*1) A ga | teway unit (sold separ | ately) is required f | or RPCON/ACON contr | ollers. (*2) 1-a | axis specification. | | | | | |
| Mo | odel | | | | | | | | | |
| [P | CON/ACON | Controll | ersl | | | | | | | |
| CO CN PL PC SE | PCON/ACON - - - - 0 - Simple absolute unit Type Motor/encoder type I/O type I/O cable length Power-supply voltage Simple absolute unit C Positioner type 3 Simple absolute unit ABU Simple absolute unit C Positioner type 22 m 0 None Simple absolute CY Solenoid valve type 10 RCA2-SA3R NP NPN specification 0 No cable (SE type) ABU simple absolute PL Pulse-train control type 101 RCA2-SA3R No I/O (SE type) 3 3 m 0 DC24V SE Serial communication 201 RCA2-SA6R/TA6R 0 DC24V 0 | | | | | | | | | |
| [RPCON Controllers] RPCON/RACON - Simple absolute unit Votor type Simple absolute unit 28P RCP3-SA3R 35P RCP3-SA4R/TA5R 42P RCP3-SA4R/TA5R 10 RCA2-SA3R 20S RCA2-SA4R/TA5R 20 RCA2-SA5R/TA6R 30 RCA2-SA6R/TA7R | | | | | | | | | | |
| [P: | | specification specification appecification of 1-axis information s need not | | Initial action Initial action 101 RCA2-SA3 101 RCA2-SA3 101 RCA2-SA3 101 RCA2-SA4 201 RCA2-SA4 201 RCA2-SA5 201 RCA2-SA5 201 RCA2-SA5 201 RCA2-SA5 | IR/TA5R IR/TA5R IR/TA6R IR/TA6R IR/TA7R | specification dard) specification 0 N 2 2 3 3 | voltage | | | |

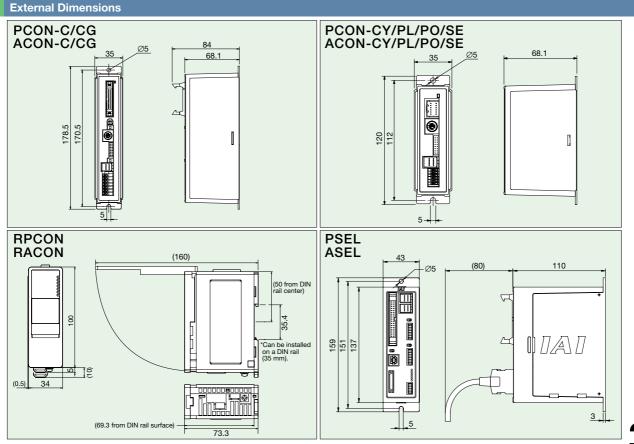
RCP3/RCA2 Applicable Controllers

| Spe | cificati | on Table | | | | | | | | | |
|----------------------|-----------------------------|--------------------------|----------|---|------------------------------------|---|---------------|------------------------------|---------------------|-------------------------------------|--|
| | Item | | | Specification | | | | | | | |
| Cor | ntroller | tvne | | 1 | | CON/ACON | | | RPCON/RACON | PSEL/ASEL | |
| | kimum nur | | С | CG | CY | PL | PO | SE | (ROBONET) | TOLL/ADEL | |
| | controlled a | | | | | 1 axis | | | linked and operated | 2 axes | |
| Ор | eration m | ethod | Positio | ner type | Solenoid valve | Pulse-train | input type | Serial communication type | Field network | Program | |
| Number | of position | ning points | 5 | 12 | 3 | - | | 64 | 768 | 1500 | |
| | I/O connec | ctor | 40-pin c | onnector | 12-pin connector | 14-pin co | nnector | - | - | 34-pin connector | |
| Nun | nber of I/O | points | | it points/ ut points | 4 input points/ 6 output points | 4 input points/4 | output points | - | - | 24 input points/ 8 output points | |
| Seria | al commu | nication | | | | RS485 (Mod | lbus RTU) | | | RS232 | |
| Peripheral | l communi | cation cable | CB-PAC- | -PI0 | CB-PACY -PIO | CB-PACPU-PI | 0000 | CB-RCB-CTL002 | CB-RCB-CTL002 – | | |
| Comman | nd-pulse in | put method | | - | | Differential line driver Open collector | | - | | | |
| Maximum | input puls | se frequency | - | | | 200 kpps 60 kpps | | | - | | |
| Positio | n detectio | n method | | | | Increme | ntal encoder | | | | |
| | or/encode | | | | CB-PCS-MPA | | | ON) (up to 20 m) | | | |
| Inpu | ut power s | | | | | | 4V±10% | | | | |
| | RCP3 | (all models) | | | | 2 A max. | | | 2 A max. (*1) | 5.5 A max. | |
| Power- | | SA5 TA6 (20W) | | | | andard specification) wer-saving specificati | on) | | (*2) | (*3) | |
| supply capacity | RCA2 | SA3, SA6 TA7 (30W) | | 1.3 A rated / 4.0 A max. (standard specification) 1.3 A rated / 2.2 A max. (power-saving specification) (*2) | | (*2) | (*3) | | | | |
| | | SA4, TA5 (20W) | | 1.3 A rated / 5.1 A max. (standard specification) 1.3 A rated / 3.4 A max. (power-saving specification) | | | | (*2) | (*3) | | |
| Wit | , thstand vo | ltage | | DC500V 1 MΩ | | | | | | 500 VDC, 10 MΩ or more | |
| | iding air te ity and env | emperature/ vironment | | 0 to 40°C, 10 to 95% (non-condensing); not subject to corrosive gasses | | | | | | | |
| Pro | otection de | egree | | IP20 | | | | | | | |
| Weight Approx. 300 g | | | | orox. 300 g | | Ар | prox. 130 g | | Approx. 200 g | Approx. 450 g | |

(*1) The current consumed during operation is the sum of (2 A x Number of controllers used) and the current consumption of the gateway unit (approx. 0.6 A).

(*2) The required power-supply capacity of a RACON controller is the sum of (Power-supply capacity of ACON x Number of controllers used) and the current consumption of the gateway unit (approx. 0.6 A).

(*3) The required power-supply capacity of an ASEL controller is the sum of (Power-supply capacity of ACON x Number of controllers used) and the control power-supply current (approx. 1.2 A).



RCP3/RCA2 Controller Options

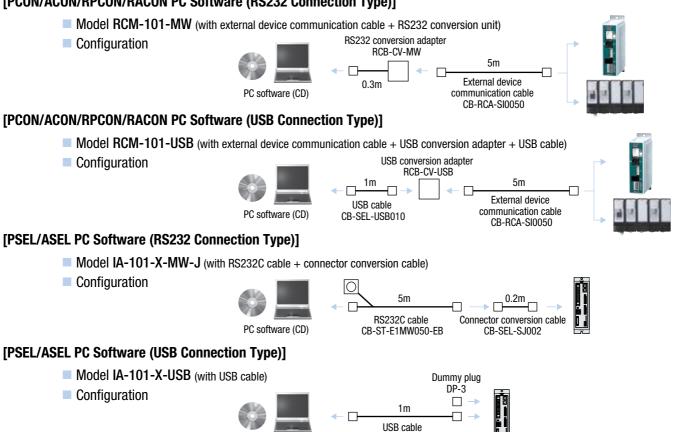
Controller Options

[Teaching Pendants] These teaching devices offer functions to input positions, conduct test operation, perform monitoring, and more.

| Item | RCM-E | RCM-P | CON-T | SEL-T-J | SEL-TD-J | |
|--------------------------------------|---------------------|-----------------------|------------------------------|--------------------------------------|---------------|--|
| External dimensions | | | | | | |
| Applicable controllers | | PCON/ACON/RPCON/RACON | 1 | PSEL | ASEL | |
| Position input | 0 | 0 | 0 | 0 | 0 | |
| Program input | × | × | × | 0 | 0 | |
| Actuator operation | 0 | × | 0 | 0 | 0 | |
| Display | LCD display of 16 c | haracters x 2 lines | LCD | D display of 20 characters x 4 lines | | |
| 3-position enable switch | × | × | × | × | 0 | |
| ANSI compliance | × | × | × | × | 0 | |
| CE Mark compliance | × | × | 0 | 0 | 0 | |
| UL compliance | × | × | × | × | 0 | |
| Cable length | | | 5m | | | |
| Surrounding air temperature/humidity | | Temperature | e: 0 to 40°C / Humidity: 85% | RH or below | | |
| Protection degree | _ | _ | | IP54 | | |
| Weight | Approx. 400 g | Approx. 360 g | Approx. 400 g | Approx. 400 g | Approx. 400 g | |
| Standard price | — | _ | — | — | — | |

[PC Software (for Windows)] Features Offering functions to input programs/positions, conduct test operation, perform monitoring, and more, these software programs assist you in the startup of your system. The debugging function has been enhanced to shorten the startup time further.

[PCON/ACON/RPCON/RACON PC Software (RS232 Connection Type)]



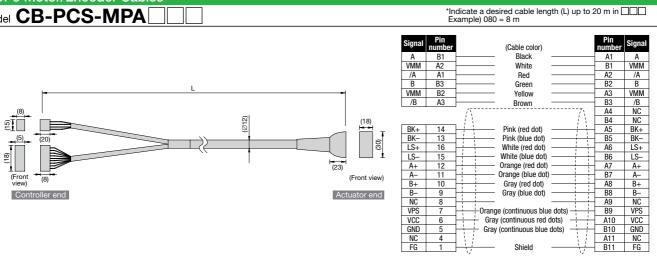
PC software (CD)

CB-SEL-USB010

Maintenance Parts

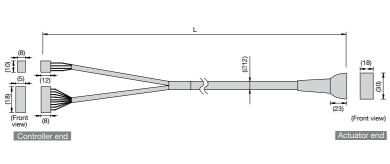
[Motor/Encoder Cables]

RCP3 Motor/Encoder Cables Model CB-PCS-MPA



RCA2 Motor/Encoder Cables Model CB-ACS-MPA

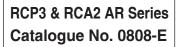
*Indicate a desired cable length (L) up to 20 m in Example) 080 = 8 m



| Signa | Pin number | (Cable color) | Pin number | Signal |
|-------|---------------|---------------------------------------|---------------|--------|
| U | 1 | Red | A1 | U |
| V | 2 | Yellow | B1 | V |
| W | 3 | Black | A2 | W |
| | | | B2 | NC |
| | | /\`?\ | A3 | NC |
| | | . IA - IA - | B3 | NC |
| BK+ | 16 | Yellow (red dot) | A4 | BK+ |
| BK- | 15 | Yellow (blue dot) | B4 | BK- |
| LS+ | 18 | Pink (red dot) | A5 | LS+ |
| LS- | 17 | Pink (blue dot) | B5 | LS- |
| A+ | 14 | White (red dot) | A6 | A+ |
| A- | 13 | White (blue dot) | B6 | A- |
| B+ | 12 | Orange (red dot) | A7 | B+ |
| B- | 11 | Orange (red dot) Orange (blue dot) | B7 | B- |
| Z+ | 10 | Gray (red dot) | A8 | Z+ |
| Z- | 9 | Gray (blue dot) | B8 | Z- |
| - | 8 | Orange (continuous red dots) | A9 | - |
| /PS | 7 | Orange (continuous blue dots) | B9 | /PS |
| VCC | 6 | Gray (continuous red dots) | A10 | VCC |
| GND | 5 | Gray (continuous blue dots) | B10 | GND |
| NC | - | | A11 | NC |
| FG | 1 | Shield | B11 | FG |
| | | | | , u |

[Motor Units]

| Axis type | | | Motor Units | | | |
|-----------|-------------|------|-------------|----------------|-------------|----------------|
| | | | No brake | | With brake | |
| | | | Model | Standard price | Model | Standard price |
| RCP3 | Slider type | SA3R | RCP3-MU1B | - | RCP3-MU1B-B | - |
| | | SA4R | RCP3-MU2B | - | RCP3-MU2B-B | - |
| | | SA5R | RCP3-MU3B | - | RCP3-MU3B-B | - |
| | | SA6R | RCP3-MU3B | - | RCP3-MU3B-B | - |
| | Table type | TA5R | RCP3-MU2B | - | RCP3-MU2B-B | - |
| | | TA6R | RCP3-MU3B | - | RCP3-MU3B-B | - |
| | | TA7R | RCP3-MU3B | - | RCP3-MU3B-B | - |
| RCA2 | Slider type | SA3R | RCA2-MU1B | - | RCA2-MU1B-B | - |
| | | SA4R | RCA2-MU2B | - | RCA2-MU2B-B | - |
| | | SA5R | RCA2-MU3B | - | RCA2-MU3B-B | - |
| | | SA6R | RCA2-MU4B | - | RCA2-MU4B-B | - |
| | Table type | TA5R | RCA2-MU2B | - | RCA2-MU2B-B | - |
| | | TA6R | RCA2-MU3B | - | RCA2-MU3B-B | - |
| | | TA7R | RCA2-MU4B | - | RCA2-MU4B-B | - |



The information contained in this catalog is subject to change without notice for the purpose of product inprovement



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