

Dust-proof, splash-proof type RCP2 RSW/RMW

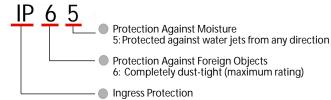
New RCP2 series actuators operate in environments that have dust and water splash!



Feature

■ IP65 Rating

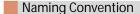
The dust/splash-proof models of the RCP2 series are rated IP65 according to the IEC international classification system for the sealing effectiveness of electrical equipment against the intrusion of foreign objects and moisture.

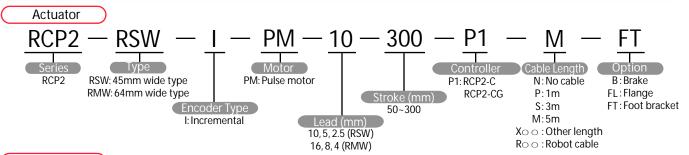


RSW, RMW Types

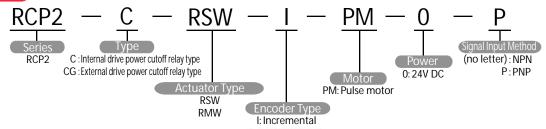
There are **two** types of dust/splash-proof types to select from depending on your application needs: the 45mm wide RSW type and the 64mm wide RMW type.

Washing Process **Cutting Process**

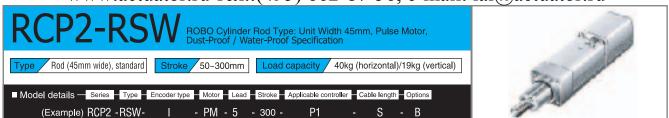




Controller



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Model/Specifications

The maximum speed limit of the RCP2 Series will vary according to the weight of the load on the slider (rod). Refer to Correlation Diagrams of Speed and Load Capacity (last page).

Model	Encoder type	Lead		Speed (Note 1)	Load capacity (Note 2)		Maximum push force	Positioning repeatability
Model	Lilcodel type	(mm)	50mm increments (mm)	(mm/s)	Horizontal (kg)	Vertical (kg)	(N)	(mm)
RCP2-RSW-I-PM-10-***-P1-△- □		10		10~450<250>	25~5	4.5~2	150	
RCP2-RSW-I-PM-5-***-P1-△- □	Incremental	5	50~300	5~190	40	12~2.5	284	±0.02
RCP2-RSW-I-PM-2.5-***-P1-△-□		2.5		1~125<115>	40	19~2.5	358	

^{*} In the above model names, *** indicates the stroke, \triangle the cable length and \square the applicable options.

Options

Name	Model	Page(*)
Brake	В	→P24
With flange	FL	→P24
With foot bracket	FT	→P24

^{*} Please refer to the RCP2 Catalog for more details.

Common Specifications

Drive system	Ball screw Ø8mm, rolled C10
Backlash	0.05mm or less
Guide	
Rod diameter	ø22mm
Rod non-rotative accuracy	±1.5°
Base	Material: Aluminum with white alumite treatment
Cable length (Note 3)	N: No cable, P: 1m, S: 3m, M: 5m, X □□: Length specification, R □□: Robot cable

Dimensions (2) * Due to its structure, the Cable joint connector *2 rod type is not available Exhaust port may be rotated 3608 in the reverse homing specification. Exercise φ₂₀ φ25 4-M8, depth 12 49 24 T-slot range 90.5 17 36 A minimum of 100 is required. With Brake M10×1.25 M4 square head nut details

* The figures in parentheses apply to the brake type, while those in < apply to a vertical application.

■ Dimensions, Weight and Maximum Speed by Stroke

232.5 282.5 332.5 382.5 423 (481) 223 (281) 323 (381) 373 (431) 473 (531) Weight (kg) 2.2 350 < 250> Lead 10 450 <250> 450 < 250 > Lead 5 190 190 175 125 <115> 115

- *1. Insert a tube with an outer diameter of $\phi 6$ into the exhaust port and extend the tube to a place where water does not reach.
- *2. Connect the motor/encoder cables. Refer to page 37 of the RCP2 Catalog for details on the cables.
- *3. During homing, the rod will move to the ME, so be careful to prevent contact with surrounding parts.
 - ME: Mechanical end
 - SF: Stroke end

58

Reference dimensions are shown in parentheses.

90.5

Applicable Controller Specifications

Detailed view of A

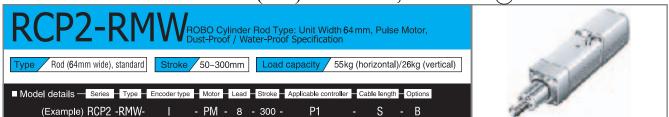
Applicable Controller	Maximum number of controlled axes	Compatible encoder type	Program operation	Positioner operation	Pulse-train control	Power-supply voltage	Page(*
RCP2-C	1 axis	Incremental	Х	0	Х	24VDC	→P25
RCP2-CG	1 axis	Incremental	Х	0	Х	24000	→P25

^{*} Please refer to the RCP2 Catalog for more details.



- (Note1) The figures in parentheses apply to a vertical application.
- (Note 2) Load capacity at the rated acceleration rate.
 (Note 3) The maximum cable length is 20m. Specify the desired length in meters (e.g., X08 = 8m).

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Model	Encoder type	Lead	Stroke	Speed (Note 1)	Load capacity (Note 2)		Maximum push force	Positioning repeatability
Wodel	Lilcodel type	(mm)	50mm increments (mm)	(mm/s)	Horizontal (kg)	Vertical (kg)	(N)	(mm)
RCP2-RMW-I-PM-16-***-P1-△- □		16		10~320<265>	40~20	5~1	240	
RCP2-RMW-I-PM-8-***-P1-△- □	Incremental	8	50~300	5~200	50	17.5~2	470	±0.02
RCP2-RMW-I-PM-4-***-P1-△- □		4		1~100	55	26~5	800	

^{*} In the above model names, *** indicates the stroke, \triangle the cable length and \square the applicable options.

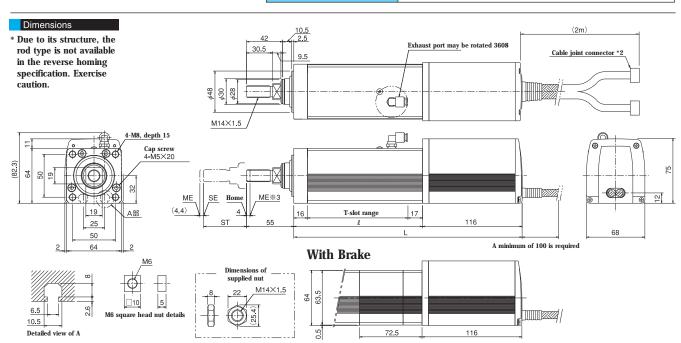
Options

Name	Model	Page(*)
Brake	В	→P24
With flange	FL	→P24
With foot bracket	FT	→P24

^{*} Please refer to the RCP2 Catalog for more details.

Common Specifications

Drive system	Ball screw ø12mm, rolled C10
Backlash	0.05mm or less
Guide	—
Rod diameter	φ30mm
Rod non-rotative accuracy	±1.0°
Base	Material: Aluminum with white alumite treatment
Cable length (Note 3)	N: No cable, P: 1m, S: 3m, M: 5m, X □□: Length specification, R □□: Robot cable



* The figures in parentheses apply to the brake type, while those in < : apply to a vertical application.

■ Dimensions, Weight and Maximum Speed by Stroke

200 250 300 350 400 466 (538 266 (338.5) 316 (338. 366 (438.5) 416 (488.5) 516 (588.5 Weight (kg) 4.0 5.0 5.5 6.0 3.5 Lead 16 320 <265> Lead 8 200 100

- *1. Insert a tube with an outer diameter of $\phi 6$ into the exhaust port and extend the tube to a place where water does not reach.
- *2. Connect the motor/encoder cables. Refer to page 37 of the RCP2 Catalog for details on the cables.
- *3. During homing, the rod will move to the ME, so be careful to prevent contact with surrounding parts.
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Reference dimensions are shown in parentheses.

Applicable Controller Specifications

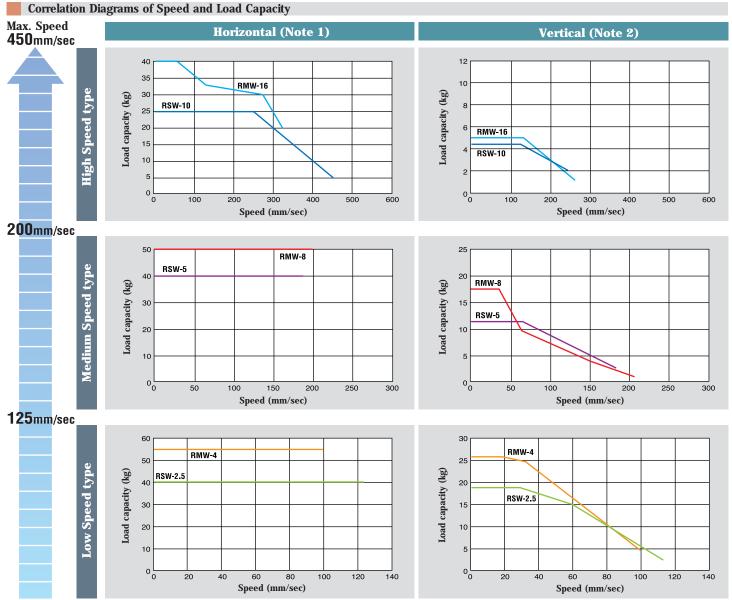
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^{*} Please refer to the RCP2 Catalog for more details.



- (Note1) The figures in parentheses apply to a vertical application.
- (Note 2) Load capacity at the rated acceleration rate.
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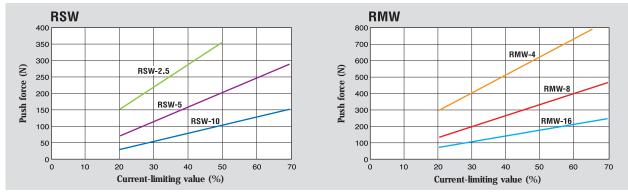
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Note: The numbers shown after the type in the above graphs indicate the lead specification. Note 1: The horizontal application assumes the use of an external guide.

Note 2: If operated under maximum load capacity, overshoot may occur. Therefore, please provide an allowance of approximately 70%.

Correlation Diagrams of Push Force and Current-Limiting Value



Note: The numbers shown after the type in the above graphs indicate the lead specification.

Controller

Please refer to the RCP2 Catalog for more details regarding the RCP2 controller.

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