



# **Dust-proof/Splash-resistant Type**

RCP2W RCAW RCS2W



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	Slider type	Coupling type	Width160mm	RCP2W-SA16C	309
RCP2W	Rod type	Coupling type	Width 45mm	RCP2W-RA4C	311
series			Width 64mm	RCP2W-RA6C	313
Pulse Motor		High-thrust type	Width 100mm	RCP2W-RA10C	315
Туре					
2000	Rod type	Coupling type	Width 32mm	RCAW-RA3C	_
RCAW		Built-in type	Width 32mm	RCAW-RA3D	317
series		Reverse-mounted motor type	Width 32mm	RCAW RA3R	
24V	Rod type	Coupling type	Width 37mm	RCAW-RA4C	_
Servo Motor Type		Built-in type	Width 37mm	RCAW-RA4D	319
		Reverse-mounted motor type	Width 37mm	RCAW-RA4R	
DCCOW	Rod type	Coupling type	Width 37mm	RCS2W-RA4C	_
RCS2W		Built-in type	Width 37mm	RCS2W-RA4D	321
series		Reverse-mounted motor type	Width 37mm	RCS2W-RA4R	
200V Servo Motor Type					

Pulse Motor
28 P
Pulse Motor
35 P

56<sub>P</sub>

86 P

10w

**20**w

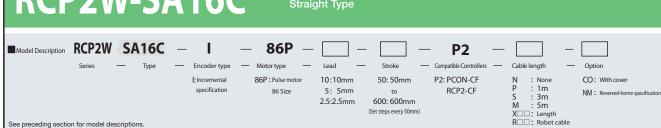
Servo Motor 30 W

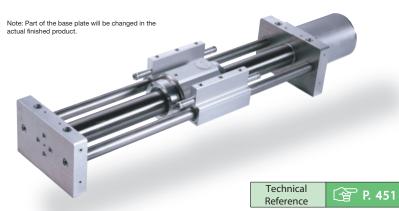
Servo Motor

Servo Motor 100 w

150w 750w

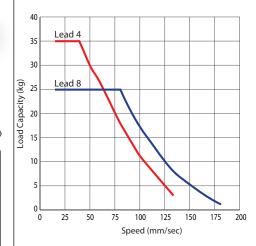
# actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru Straight Type





#### ■Speed vs. Payload Graph

Because of the characteristics of the pulse motor of the RCP2 series, the payload decreases as the speed increases. Use the table below to confirm that there is sufficient speed at the desired payload.



(1) The mounting for this actuator is horizontal and flat. Do not use in any other mounting orientation (on the side, vertical, reverse). (The same is true when in a protective tube)

- (2) As the stroke length increases, the maximum speed decreases due to hazardous ball screw RPMs. Confirm the maximum desired stroke speed in the Actuator Spec Table below.
- (3) Since the RCP2 Series uses a pulse motor, the payload decreases at high speeds. Use the diagram of speed and load capacity on the right to check the load capacity at the speed you desire.
- (4) The load capacity is based on operation at an acceleration of 0.2G. 0.2G is the upper limit for acceleration.

#### Actuator Specification Table

Legend: 1 Stroke 2 Cable length 3 Option

■ Leads and Payloads (Note 1) Please note that the maximum payload decreases a						
Model		Lead	Maximum pa	Stroke		
	Model	(mm)	Horizontal (kg)	Vertical (kg)	(mm)	
	RCP2W-SA16C-I-86P-8-① -P2-② -③	8	Up to 25	Not Possible	50 to 600	
	RCP2W-SA16C-I-86P-4-1 -P2-2 -3	4	Up to 35	INOL FOSSIDIE	(every 50mm)	

#### ■Stroke and Maximum Speed

Stroke Lead	50 to 600 (every 50mm)			
8	180			
4	133			

(Unit = mm/s)

Price List by 1) S	troko

	Type code					
① Ot	SA16C					
① Stroke	Encod	er type				
(mm)	Incren	mental				
	Without cover	With cover				
50	-	-				
100	-	-				
150	-	-				
200	-	-				
250	-	-				
300	1	-				
350	-	-				
400	-	-				
450	-	-				
500	-	-				
550	-	-				
600	-	-				

#### 3 Option Price List Option code See page With cover →P437 Reversed-home specification →P442

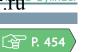
### ② Cable Length Price List

Туре	Cab	Standard price		
	<b>P</b> (1m)			-
Standard type	<b>S</b> (3m)			-
	<b>M</b> (5m)			-
Special length	X06 (6m)	to	X10 (10m)	-
	<b>X11</b> (11m)	to	<b>X15</b> (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-
	R11 (11m)	to	R15 (15m)	-
	R16 (16m)	to	R20 (20m)	-

\*See P374 for maintenance cables

Actuator Specification						
Item	Description					
Drive system	Ball screw $\phi$ 12mm, rolled C10					
Positioning repeatability	±0.08mm					
Backlash	0.1mm or less					
Guide	$\varphi$ 20 Non-lubricated, straight sliding guide					
Allowable load moment	20.0N·m					
Overhang load length	Max. 200mm in Ma direction					
Protective structure	IP67					
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)					
Service life	5000km					

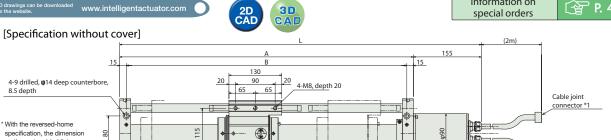
The SA16C is structurally unable to receive dynamic moment. When something is mounted to the slider, install it so that it does not exert a moment in the Mb or Mc direction, and its weight is evenly distributed on the slider.

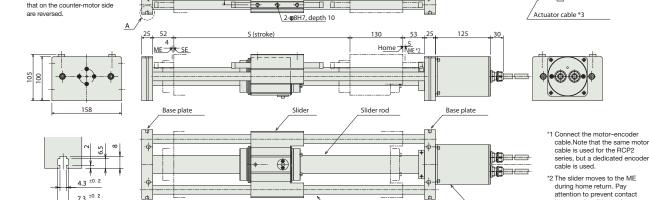


Information on

Motor cover

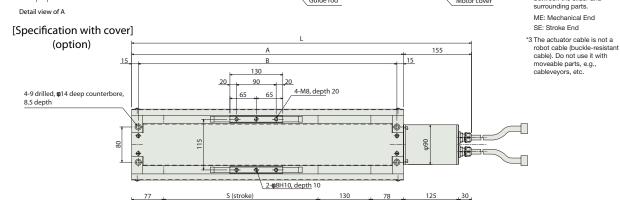
between the slider and



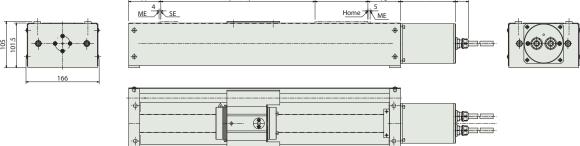


on the motor side (distance from the ME to the home) and

7.3 ±0.2



Guide rod



<b>D</b> :												
Dimensio	ns and	ı vveig	nt by a	stroke								
Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	490	540	590	640	690	740	790	840	890	940	990	1040
Α	335	385	435	485	535	585	635	685	735	785	835	885
В	305	355	405	455	505	555	605	655	705	755	805	855
S	50	100	150	200	250	300	350	400	450	500	550	600
Weight w/o cover(kg)	9	9.4	9.9	10.4	10.9	11.3	11.8	12.3	12.7	13.2	13.7	15.1
Weight w/ cover(kg)	10.5	11.1	11.8	12.5	13.2	13.8	14.6	15.3	15.9	16.6	17.3	18.9

Compatible Controller  The following dedicated controller is used for the RCP2W-SA16C type.										
Title	External View	Model	Features	Max. positioning p points	Input power	Power-supply capacity	Standard price	See page		
Positioner Type		PCON-CF-86PI-NP-2-0	Up to 512-point positioning possible	512 points	DC24V	Maximum 6A	-	→P365		

CAUTION Please note that a different CF type dedicated encoder cable is used than with the PCON-C/CG/CY/PL/PO/SE controllers.

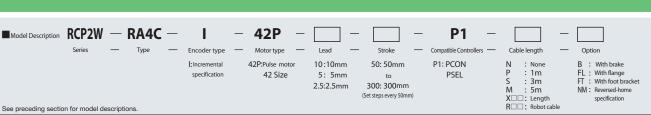


RCP2W-SA16C 310

86<sub>P</sub>

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ROBO Cylinder, Splash-Resistant Rod Type, Actuator Width 45mm, Pulse Motor, Coupling Specification



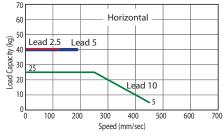


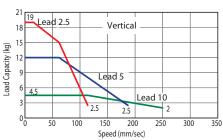
Technical [晉 P. 451 Reference

- (1) As the stroke length increases, the maximum speed decreases due to hazardous ball screw RPMs. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.
- (3) The load capacity is based on operation at an acceleration of 0.3G. 0.2G is the upper limit for acceleration.

#### ■Speed vs. Payload Graph

Because of the characteristics of the pulse motor of the RCP2 series, the payload decreases as the speed increases. Use the table below to confirm that there is sufficient speed at the desired payload.





#### Actuator Specification Table ■Leads and Payloads

(Note 1) Please note that the maximum payload decreases as the speed increases. Lead Maximum payload (Note 1) Max. pushing force Stroke

Model	Lead (mm)	Maximum pa Horizontal (kg)		Max. pushing force (N) (Note 2)	Stroke (mm)		
RCP2W-RA4C-I-42P-10-①-P1-②-③	10	Up to 25	Up to 4.5	150			
RCP2W-RA4C-I-42P-5-①-P1-②-③	5	40	Up to 12	284	50 to 300 (every 50mm)		
RCP2W-RA4C-I-42P-2.5-①-P1-②-③	2.5	40	To 19	358			
Legend: Stroke Cable length Option (Note 2) See P492 for the graph of pushing force.							

■Stroke and Maximum Speed Stroke 50 to 200 300 every 50mn 450 450 350 10 (250)(250)190 190 175 2.5 115 85 (115) \*< > indicate vertical service (Unit = mm/s)

### Price List by ① Stroke

① Stroke (mm)	Type code RA4C Encoder type Incremental
50	-
100	-
150	-
200	-
250	-
300	-

#### 2 Cable Length Price List

Туре	Cab	Standard price				
	<b>P</b> (1m)			-		
Standard type	<b>S</b> (3m)			-		
	<b>M</b> (5m)	M (5m)				
	X06 (6m)	to	X10 (10m)	-		
Special length	X11 (11m)	to	X15 (15m)	-		
	X16 (16m)	to	X20 (20m)	-		
	R01 (1m)	to	R03 (3m)	-		
	R04 (4m)	to	R05 (5m)	-		
Robot cable	R06 (6m)	to	R10 (10m)	-		
	R11 (11m)	to	R15 (15m)	-		
	R16 (16m)	to	R20 (20m)	-		

\*See P374 about maintenance cables.

#### ③ Option Price List

Title	Option code	See page	Standard price
Brake-equipped	В	→P437	-
With flange	FL	→P439	-
With foot bracket	FT	→P440	-
Reversed-home specification	NM	→P442	-

#### Actuator Specification

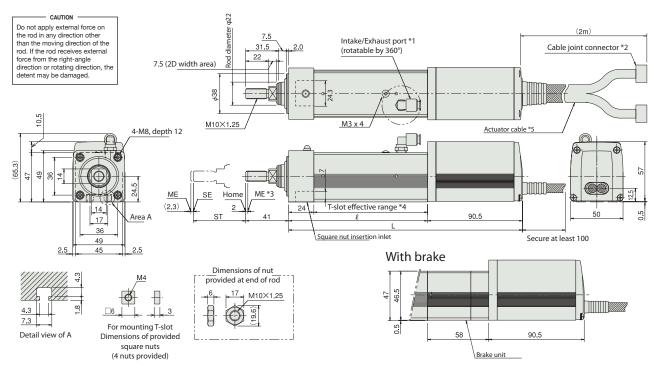
Item	Description
Drive system	Ball screw $\phi$ 8mm, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.1mm or less
Rod diameter	φ22mm
Non-rotary rod precision	±1.5 degrees
Protective structure	IP65
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)
Service life	5000km

Information on special orders









- \*1. The intake/exhaust port connects to a line used for bleeding air from inside the actuator. Connect a tube with an outer diameter of  $\varphi$ 6 and extend the other end of the tube to a place not exposed to water.
- \*2. Connect the motor-encoder cable. See P374 for cable details.
- \*3. The rod moves to the ME during home return. Pay attention to prevent contact between the rod and surrounding parts.

ME: Mechanical End

SE: Stroke End

Dimensions in ( ) are for reference.

- \*4. Note that there is no T-slot on the bottom of the brake unit.
- \*5. The actuator cable is not a robot cable (buckle-resistant cable). Do not use it with moveable parts, e.g., cableveyors, etc.

■Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300
R	132.5	182.5	232.5	282.5	332.5	382.5
L	223	273	323	373	423	473
Weight(kg)	1.9	2.1	2.2	2.5	2.9	3.1

\*The brake specification has an overall length that is 58mm longer than and a mass that is 0.4kg heavier than the standard specification.

Title	External View	Model	Features	Max. positioning p points	Input power	Power-supply capacity	Standard price	See page
Positioner type	Ĩ	PCON-C-42PI-NP-2-0	Up to 512-point	512 points			-	
Safety category compatible positioner type		PCON-CG-42PI-NP-2-0	positioning possible	512 points			-	
Solenoid valve type		PCON-CY-42PI-NP-2-0	Same as solenoid valve controlled operation enabled	3 points			-	, D005
Pulse series input type differential line driver specification)		PCON-PL-42PI-NP-2-0	Differential line driver compatible, pulse series input type		DC24V	Maximum 2A	-	→P365
Pulse series input type (open collector specification)		PCON-PO-42PI-NP-2-0	Open collector compatible pulse series input type	(-)	DC24V	Maximum 2A	-	
Serial communication type		PCON-SE-42PI-N-0-0	Serial communications special type	64 points			-	
Field network type		RPCON-42P	Field network dedicated type	768 points			-	→P343
Program control type		PSEL-C-1-42PI-NP-2-0	Programmable type capable of operating up to 2 axes	1500 points			-	→P395

RCP2W-RA4C 312

Rod

Arm/FI

Rotary Type

Spl

Controller

Coupling

Heve mour

Pulse Motor

Pulse Motor

Pulse Motor

42<sub>P</sub>

56<sub>P</sub>

86 P Servo Motor

10 w Servo Motor

20 w

Servo Motor

Servo Motor

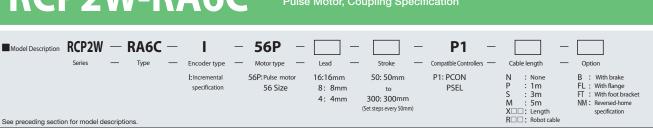
Servo Moto

100 w Servo Motor

Servo Motor 750 w

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ROBO Cylinder, Splash-Resistant Rod Type, Actuator Width 64mm, Pulse Motor, Coupling Specification





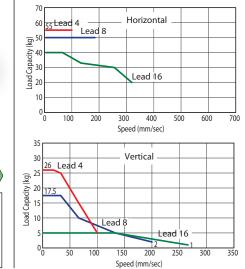
Technical Reference 译 P. 451



- (1) As the stroke length increases, the maximum speed decreases due to hazardous ball screw RPMs. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.
- (3) The load capacity is based on operation at an acceleration of 0.3G. 0.2G is the upper limit for acceleration.

#### ■Speed vs. Payload Graph

Because of the characteristics of the pulse motor of the RCP2 series, the payload decreases as the speed increases. Use the table below to confirm that there is sufficient speed at the desired payload.



#### Actuator Specification Table ■Leads and Payloads (Note 1) Please note that the maximum payload decreases as the speed increases. Maximum payload (Note 1) Max. pushing force Stroke Model Horizontal (kg) Vertical (kg) (N) (Note 2) RCP2W-RA6C-I-56P-16-1-P1-2-3 16 Up to 40 240 Up to 5 RCP2W-RA6C-I-56P-8-1 -P1-2 -3 50 to 300 Up to 17.5 8 50 470 (every 50mm RCP2W-RA6C-I-56P-4-1 -P1-2 -3

4

To 26 55 800 (Note 2) See P492 for the graph of pushing force.

Actuator Specification

Service life

Stroke	50 to 300
Lead	(every 50mm)
16	320 (265)
8	200
4	100
*< > indicate verti	cal service. (Unit = mm/s)

■Stroke and Maximum Speed

#### Price List by ① Stroke

Legend: 1 Stroke 2 Cable length 3 Option

① Stroke (mm)	Type code RA6C Encoder type
,	Incremental
50	-
100	-
150	-
200	-
250	-
300	-

#### 2 Cable Length Price List

Туре	Cab	Standard price		
	<b>P</b> (1m)			-
Standard type	<b>S</b> (3m)			-
	<b>M</b> (5m)			-
	X06 (6m)	to	X10 (10m)	-
Special length	X11 (11m)	to	X15 (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-
	R11 (11m)	to	R15 (15m)	-
	R16 (16m)	to	<b>R20</b> (20m)	-

\*See P374 about maintenance cables.

5000km

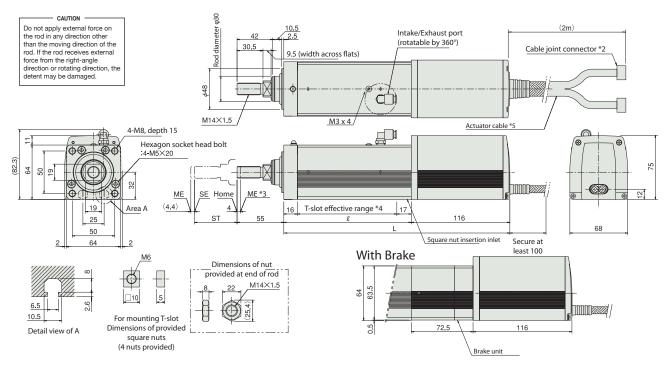
#### ③ Option Price List

Title	Option code	See page	Standard price
Brake-equipped	В	→P437	-
With flange	FL	→P439	-
With foot bracket	FT	→P440	-
Reversed-home specification	NM	→P442	-

Item	Description
Drive system	Ball screw φ12mm, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.1mm or less
Rod diameter	φ30mm
Non-rotary rod precision	±1.0 degree
Protective structure	IP65
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)







\*1. The intake/exhaust port connects to a line used for bleeding air from inside the actuator. Connect a tube with an outer diameter of  $\varphi$ 6 and extend the other end of the tube to a place not exposed to water.

- \*2. Connect the motor-encoder cable. See P374 for cable details.
- \*3. The rod moves to the ME during home return. Pay attention to prevent contact between the rod and surrounding parts.
  - ME: Mechanical End
  - SE: Stroke End
  - Dimensions in ( ) are for reference.
- $^{*}$ 4. Note that there is no T-slot on the bottom of the brake unit.
- \*5. The actuator cable is not a robot cable (buckle-resistant cable). Do not use it with moveable parts, e.g., cableveyors, etc.

#### ■Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300
R	150	200	250	300	350	400
L	266	316	366	416	466	516
Weight(kg)	3.5	4.0	4.5	5.0	5.5	6.0

\*The brake specification has an overall length that is 72.5mm longer than

and a mass that is 0.9kg heavier than the standard specification.

The RCP2 series actuators can be operated with the following controllers. Select the type that is compatible with your application.								
Title	External View	Model	Features	Max. positioning p points	Input power	Power-supply capacity	Standard price	See page
Positioner type	Ĩ	PCON-C-42PI-NP-2-0	Up to 512-point	F10 i-t-			-	
Safety category compatible positioner type		PCON-CG-56PI-NP-2-0	positioning possible	512 points			-	
Solenoid valve type		PCON-CY-56PI-NP-2-0	Same as solenoid valve controlled operation enabled	3 points			-	→P365
Pulse series input type (differential line driver specification)	ő	PCON-PL-56PI-NP-2-0	Differential line driver compatible, pulse series input type		D00.11/		-	→P305
Pulse series input type (open collector specification)		PCON-PO-56PI-NP-2-0	Open collector compatible pulse series input type	(-)	DC24V	Maximum 2A	-	
Serial communication type		PCON-SE-56PI-N-0-0	Serial communications special type	64 points			-	
Field network type		RPCON-56P	Field network dedicated type	768 points			-	→P343
Program control type		PSEL-C-1-56PI-NP-2-0	Programmable type capable of operating up to 2 axes	1500 points			-	→P395

RCP2W-RA6C 314

Type

Arm/F

Gripper/
Rotary Type

spla resi

Controller





Reversemounted

Pulse Motor

28<sub>P</sub>

35 P Pulse Motor

Pulse Motor

Pulse Motor

10w

Servo Motor

Servo Motor

Servo Moto

60 W Servo Motor

100w Servo Motor

Servo Moto

20 w

30 W

60 w Servo Motor

Servo Motor 150 w

Servo Motor 750 w

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## RCP2W-RA10C

ROBO Cylinder, Splash-Resistant Rod Type, Actuator Width 100mm, Pulse Motor Coupling Specification

■Model Description RCP2W —RA10C— 86P **P2** Cable length 86P:Pulse motor 10:10mm 50: 50mm P2: PCON-CF A1 to A3: Change the cable : 1m specification 86 Size 5: 5mm RCP2-CF connector outlet direction : 3m : 5m B : Brake-equipped FL : With flange 2.5:2.5mm 300: 300mm (Set steps every 50mm) X : Length FT: With foot bracket R□□: Robot cable See preceding section for model descriptions.



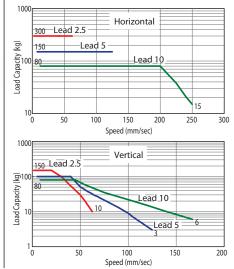
Technical Reference P. 451

Notes on selection

- (1) The minimum speed is set for each lead (Lead 10: 10mm/s, Lead 5: 5mm/s, Lead 2.5: 1mm/s). Please note that vibration may occur if the unit is operated at a speed under the minimum speed.
- (2) Since the RCP2 Series uses a pulse motor, the payload decreases at high speeds. Confirm the payload at the desired speed in the Speed vs. Payload graph at right.
- (3) The payloads for each lead are as follows: Lead 10: 0.04G; Lead 5: 0.02G; Lead 2.5: 0.01G. The above values are maximum acceleration. Also, the horizontal payload is when combined with an external guide. External force exerted on the rod in a direction other than its direction of travel may damage the detent.

#### ■Speed vs. Payload Graph

Because of the characteristics of the pulse motor of the RCP2 series, the payload decreases as the speed increases. Use the table below to confirm that there is sufficient speed at the desired payload.



#### Actuator Specification Table

Legend: 1 Stroke 2 Cable length 3 Option

■Leads and Payloads (Note 1) Please note that the maximum payload decreases as the speed increases Maximum payload (Note 1) Max. pushing force Lead Stroke Horizontal (kg) Vertical (kg) (N) (Note 2) RCP2W-RA10C-I-86P-10-10-P2-20-3 10 Up to 80 1500 Up to 80 RCP2W-RA10C-I-86P-5- 1 -P2- 2 - 3 50 to 300 5 150 Up to 100 3000 (every 50mm RCP2W-RA10C-I-86P-2.5- 1 -P2- 2 - 3 2.5 300 Up to 150 6000

	Stroke Lead	50 to 300 (every 50mm)
	10	250 (167)
	5	125
	2.5	63
-	*< > indicate vert	cal service. (Unit = mm/s)

■Stroke and Maximum Speed

#### Price List by ① Stroke

	Type code
① Stroke	RA10C
(mm)	Encoder type
	Incremental
50	-
100	-
150	-
200	-
250	-
300	-

#### ② Cable Length Price List

Туре	Cab	Standard price		
	<b>P</b> (1m)			-
Standard type	<b>S</b> (3m)			-
	<b>M</b> (5m)			-
	X06 (6m)	to	X10 (10m)	-
Special length	X11 (11m)	to	X15 (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-
	R11 (11m)	to	R15 (15m)	-
	R16 (16m)	to	R20 (20m)	-

\*See P374 about maintenance cables.

#### ③ Option Price List

Title	Option code	See page	Standard price
Change the cable connector outlet direction	A1 to A3	→P437	-
Brake	В	→P437	-
Flange	FL	→P438	-
Foot bracket	FT	→P440	-

#### Actuator Specification

(Note 2) See P493 for the graph of pushing force

Item	Description
Drive system	Ball screw, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.1mm or less
Rod diameter	φ40mm
Non-rotary rod precision	±1.0 degree
Protective structure	IP54
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)
Service life	5000km

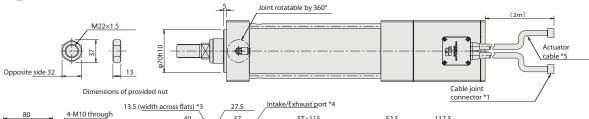
Information on special orders

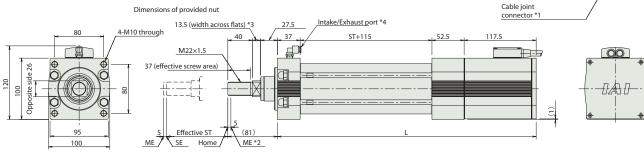






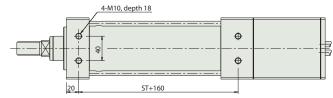
\* Please note that for structural reasons, the reversed-home specification cannot be used for the RA10C type.

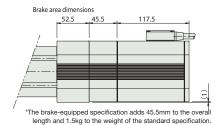




- \*1. Connect the motor-encoder cable. Please note that the same motor cable is used for the RCP2 series, but that a dedicated encoder cable is used. For details on cables, see P374.
- \*2. The rod moves to the ME during home return. Pay attention to prevent contact between the slider and surrounding parts. ME: Mechanical End SE: Stroke End
- SE: Stroke End
  Dimensions in ( ) are for reference.

  \*3. The orientation across flats differs with the product.
- \*4. The air intake/exhaust port is the air extraction tubing inside the actuator body.
  \*5. The actuator cable is not a robot cable
- \*5. The actuator cable is not a robot cable (buckle-resistant cable). Do not use it with moveable parts, e.g., cableveyors, etc.





■Dimensions and Weight by Stroke

			,			
Stroke	50	100	150	200	250	300
L	372	422	472	522	572	622
Weight (kg)	9	9.5	10	10.5	11	11.5

#### Compatible Controllers

The following dedicated controller is used for the RCP2W-RA10C type.

Title	External View	Model	Features	Max. positioning p points	Input power	Power-supply capacity	Standard price	See page
Positioner type		PCON-CF-86PI-NP-2-0	Up to 512-point positioning possible	512 points	DC24V	Maximum 6A	-	→P365

**CAUTION** Please note that a different CF type dedicated encoder cable is used than with the PCON-C/CG/CY/PL/PO/SE controllers.

troller- Slic grated Typ

ح ال

Arm/Fl

Gripper/ Rotary Type

room resi

ant Contr

Coupling

Reversemounted

Pulse Motor

Pulse Motor 28 P

Pulse Motor

Pulse Motor

Pulse Motor 56 P

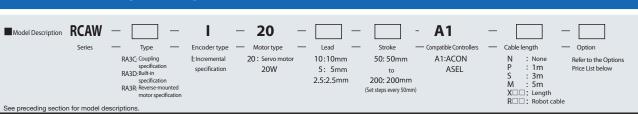
Pulse Motor

Servo Moto

# RCAWww.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

## RCAW-RA3C/RA3D/RA3R

ROBO Cylinder, Splash-resistant Rod Type, Actuator Width  $\phi$  32mm, 24-V Servo Motor, Coupling/Built-in Specification





#### Actuator Specification Table

#### ■Leads and Payloads

Model	Motor output		Maximum	n payload	Rated thrust	
Widdoi	(W)	(mm)	Horizontal (kg)	Vertical (kg)	(N)	(mm)
RCAW-①-I-20-10-②-A1-③-④		10	4	1.5	36.2	
RCAW-①-I-20-5-②-A1-③-④	20	5	9	3	1 724 1	50 to 200 (every 50mm)
RCAW-① -I-20-2.5-② -A1-③ -④		2.5	18	6.5	144.8	
Legend: 1 Type 2 Stroke 3 Cable length 4 Option						

### ■Stroke, Maximum Speed and Suction Volume

Stroke	50 to 200 (every 50mm)
10	500
5	250
2.5	125
	(Unit = mm/s)

### Price List by Encoder Type/2 Stroke

		Type code					
	② Stroke (mm)	RA3C	RA3D	RA3R			
		Encoder type	Encoder type	Encoder type			
		Incremental	Incremental	Incremental			
		I	I	I			
	50	-	-	-			
	100	-	-	-			
	150	-	-	-			
	000						

(4) C	ntion	Price	List
	Pulon	1 1100	LIO

4 Option Price List						
Title	Option code	See page	Standard price			
Brake (*1)	В	→P437	-			
Flange bracket	FL	→P438	-			
Foot bracket	FT	→P440	-			
Home check sensor (*2)	HS	→P442	-			
Power saving	LA	→P442	-			
Knuckle joint	NJ	→P442	-			
Reversed-home specification (*2)	NM	→P442	-			
Clevis bracket (*3)	QR	→P443	-			
Rear mounting plate (*3)	RP	→P444	-			
Trunion bracket (front) (*4)	TRF	→P446	-			
Trunion bracket (rear) (*4)	TRR	→P446	-			

(\*1) There is no brake setting for the RA3D.

(\*2) Home check sensors (HS) cannot be used with the reversed-home specification.

(\*3) The clevis bracket and rear mounting plate can only be used with the RA3R.

(\*4) The trunion bracket (rear) can only be used with the RA3C/RA3D.

### 3 Cable Length Price List

The above values are maximum acceleration.

(3) The horizontal payload is the value when external guides are used and no external force is exerted from outside the direction of travel of the rod.

Туре	3 0	Standard price		
	<b>P</b> (1m)			-
Standard type	<b>S</b> (3m)			-
	<b>M</b> (5m)			-
	X06 (6m)	to	X10 (10m)	-
Special length	X11 (11m)	to	X15 (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-
	R11 (11m)	to	R15 (15m)	-
	R16 (16m)	to	R20 (20m)	-

\*See P384 for maintenance cables

Actuator Specification						
Item	Description					
Drive system	Ball screw $\phi$ 8mm, rolled C10					
Positioning repeatability	±0.02mm					
Backlash	0.1mm or less					
Guide	Material: aluminum with alumite treatment					
Allowable load moment	φ16mm					
Overhang load length	±1.0 degree					
Protective structure	IP54					
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)					
Service life	5000km					

Information on special orders



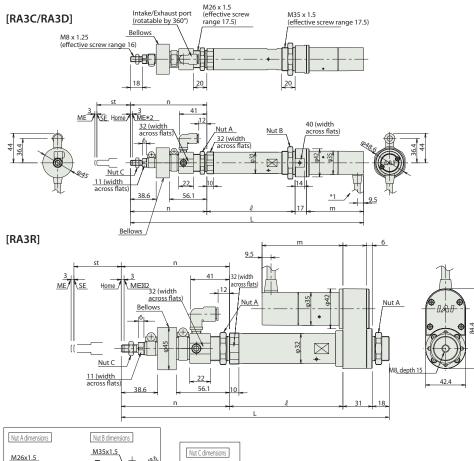




\*1. Cable joint connector and cable bending space are the same as for RCA-RA4C (see P142).

\*2. The slider moves to the ME during home return. Pay attention to prevent contact between the slider and surrounding parts.

ME: Mechanical End SE: Stroke End



#### ■Dimensions/Weight by Stroke RCAW-RA3C/RA3D/RA3R (without brake)

S	troke	50	100	150	200			
	RA3C	348.9	408.9	468.9	528.9			
L	RA3D	329.9	389.9	449.9	509.9			
	RA3R	283.4	343.4	403.4	463.4			
	RA3C	132	182	232	282			
l	RA3D	132	182	232	282			
	RA3R	120	170	220	270			
	RA3C	85.5						
m	RA3D	66.5						
	RA3R	85.5						
	RA3C	114.4	124.4	134.4	144.4			
n	RA3D	114.4	124.4	134.4	144.4			
	RA3R	114.4	124.4	134.4	144.4			
Weight	RA3C	1.0	1.1	1.2	1.3			
(kg)	RA3D	1.0	1.1	1.2	1.3			
(1.9)	RA3R	1.1	1.2	1.3	1.4			

#### RCAW-RA3C/RA3D/RA3R (with brake)

S	troke	50	100	150	200			
	RA3C	387.9	447.9	507.9	567.9			
L	RA3D		Withou	t brake.				
	RA3R	283.4	7.9 447.9 50: Without bra 3.4 343.4 40: 32 182 22 Without bra 20 170 22 124.5 Without bra 124.5 Without bra 124.4 134 Without bra 4.4 124.4 134 Without bra 2.2 1.3 1.	403.4	463.4			
	RA3C	132	182	232	282			
l	RA3D		Withou	t brake.				
L	RA3R	120	170	220	270			
	RA3C	124.5						
m	RA3D	Without brake.						
	RA3R		12	4.5				
	RA3C	114.4	124.4	134.4	144.4			
n	RA3D		Withou	out brake.				
	RA3R	114.4	447.9 507.9 Without brake. 343.4 403.4 182 232 Without brake. 170 220 124.5 Without brake. 124.5 124.4 134.4 Without brake. 124.4 134.4 1.3 1.4	144.4				
Majaht	RA3C	1.2	1.3	1.4	1.5			
L  ### M  ### Meight	RA3D	1.2	1.3	1.4	1.5			
(119)	RA3R	1.3	1.4	1.5	1.6			

Compatible	Controllers
------------	-------------

M8x1.25

The RCA series	The RCA series actuators can be operated with the following controllers. Select the type that is compatible with your application.								
Title	External View	Model	Features	Max. positioning p points	Input power	Power-supply capacity	Standard price	See page	
Positioner type	Ħ	ACON-C-20SI-NP-2-0	Up to 512-point	510 i-t-			-		
Safety category compatible positioner type		ACON-CG-20SI-NP-2-0 positioning possible 512 points				-			
Solenoid valve type		ACON-CY-20SI-NP-2-0	Same as solenoid valve controlled operation enabled	3 points			-	→P375	
Pulse series input type (differential line driver specification)		ACON-PL-20SI-NP-2-0 Differential line driver compatible, pulse series input type  ACON-PO-20SI-NP-2-0 Open collector compatible pulse series input type  (-)	DC24V	Rating: 1.7A	-	7 373			
Pulse series input type (open collector specification)			compatible pulse series	(-)	DG24V	Peak 5.1A	-		
Serial communication type		ACON-SE-20SI-N-0-0	Serial communications special type	64 points			-		
Field network type		RACON-20S	Field network dedicated type	768 points			-	→P343	
Program control type		ASEL-C-1-20SI-NP-2-0	Programmable type capable of operating up to 2 axes	1500 points			-	→P405	

\* ASEL is for 1-axis specification

IAI

RCAW-RA3C/RA3D/RA3R

**20**w

**20**w

Servo Motor 30 w

# RCAW actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

## RCAW-RA4C/RA4D/RA4R

ROBO Cylinder, Splash-resistant Rod type, Actuator Width  $\phi$  37mm, 24-V Servo Motor, Coupling/Built-in Specification





#### Actuator Specification Table

■Leads and Payloads

Model	Motor output	Lead	Maximum	. ,	Rated thrust	Stroke
Wiodel	(W)	(mm)	Horizontal (kg)	Vertical (kg)	(N)	(mm)
RCAW-①-②-20-12-③-④-⑤-⑥		12	3.0	1.0	18.9	
RCAW-①-②-20-6-③-④-⑤-⑥	20	6	6.0	2.0	37.7	
RCAW-①-②-20-3-③-④-⑤-⑥		3	12.0	4.0	75.4	50 to 300
RCAW-①-②-30-12-③-④-⑤-⑥		12	4.0	1.5	28.3	(every 50mm)
RCAW-①-②-30-6-③-④-⑤-⑥	30	6	9.0	3.0	56.6	
RCAW-①-②-30-3-③-④-⑤-⑥		3	18.0	6.5	113.1	
Legend: 1 Type 2 Encoder type 3 Stroke 4 Controller 5	Cable leng	th 6 Op	tion			

■Stroke, Maximum Speed and Suction Volume

Stroke	50 to 300 (every 50mm)
12	600
6	300
3	150

(Unit = mm/s)

Price List by	2 Enco	aer Type/	<u>ී</u> Stroke	;					
	① Type code								
		RA4C	/RA4D			R/	A4R		
3 Stroke		2 Enco	der type			2 Enco	der type		
(mm)	Increr	nental	Abso	olute	Increr	nental	Abso	olute	
	Motor W	number	Motor W number		Motor W number		Motor W number		
	20W	30W	20W	30W	20W	30W	20W	30W	
50	-	-	-	-	-	-	-	-	
100	-	-	-	-	-	-	-	-	
150	-	-	-	-	-	-	-	-	
200	-	-	-	-	-	-	-	-	
250	-	-	-	-	-	-	-	-	
300	-	-	-	-	-	-	-	-	

Cable Length Price List								
Туре	(5) C	Standard price						
	<b>P</b> (1m)		-					
Standard type	<b>S</b> (3m)		-					
	<b>M</b> (5m)		-					
	X06 (6m)	to X10 (10m)	-					
Special length	X11 (11m)	to X15 (15m)	-					
	X16 (16m)	to X20 (20m)	-					
	R01 (1m)	to R03 (3m)	-					
	R04 (4m)	to R05 (5m)	-					
Robot cable	R06 (6m)	to R10 (10m)	-					
	R11 (11m)	to R15 (15m)	-					
	R16 (16m)	to <b>B20</b> (20m)	-					

\*See P384 for maintenance cables

6 Option Price List								
Title	Option code	See page	Standard price					
Brake (*1)	В	→P437	-					
Flange bracket	FL	→P438	-					
Foot bracket	FT	→P440	-					
Home check sensor (*2)	HS	→P442	-					
Power saving	LA	→P442	-					
Knuckle joint	NJ	→P442	-					
Reversed-home specification (*2)	NM	→P442	-					
Clevis bracket (*3)	QR	→P443	-					
Rear mounting plate (*3)	RP	→P444	-					
Trunion bracket (Front) (*4)	TRF	→P446	-					
Trunion bracket (Rear) (*4)	TRR	→P446	-					
(*1) Though in ma business f	au tha DA4D							

- (\*1) There is no brake setting for the RA4D.
- (\*1) There is no brake setting for the TARD.

  (\*2) Home check sensors (HS) cannot be used with the reversed-home specification.

  (\*3) The clevis bracket and rear mounting plate can only be used with the RA3R.

  (\*4) The trunion bracket (rear) can only be used with the RA4C/RA4D.

Item	Description
Drive system	Ball screw φ10mm, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.1mm or less
Guide	Material: aluminum with alumite treatment
Allowable load moment	φ20mm
Overhang load length	±1.0 degree
Protective structure	IP54
Ambient operating temperature, humidity	0 to 4040°C, 85% RH or less (non-condensing)
Service life	5000km

Information on special orders

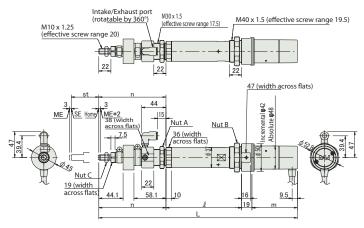




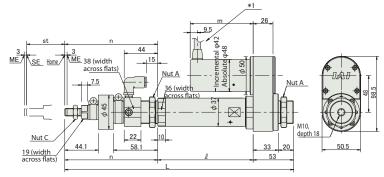


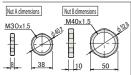
- \*1. Cable joint connector and cable bending space are the same as for RCA-RA4C. (See
- \*2. The slider moves to the ME during home return. Pay attention to prevent contact between the slider and surrounding parts. ME: Mechanical End SE: Stroke End

#### [RA4C/RA4D]



#### [RA4R]







### ■Dimensions and Weight by Stroke

#### RCAW-RA4C/RA4D/RA4R (without brake)

				without						
	Stroke			50	100	150	200	250	300	
		2014/	Incremental	345.4	405.4	465.4	525.4	586.4	647.4	
	DA4C	20W	Absolute	358.4	418.4	478.4	538.4	599.4	660.4	
-	RA4C	30W	Incremental	360.4	420.4	480.4	540.4	601.4	662.4	
		3000	Absolute	373.4	433.4	493.4	553.4	614.4	675.4	
		2014/	Incremental	323.4	383.4	443.4	503.4	564.4	625.4	
	DA 4D	20W	Absolute	336.4	396.4	456.4	516.4	577.4	638.4	
L RA	RA4D	00147	Incremental	338.4	398.4	458.4	518.4	579.4	640.4	
		30W	Absolute	351.4	411.4	471.4	531.4	592.4	653.4	
		20W	Incremental	299.9	359.9	419.9	479.9	540.9	601.9	
	RA4R	2000	Absolute	299.9	359.9	419.9	479.9	540.9	601.9	
	na4n	2011	Incremental	299.9	359.9	419.9	479.9	540.9	601.9	
		30W	Absolute	299.9	359.9	419.9	479.9	540.9	601.9	
	RA4C	20W		137	187	237	287	337	387	
HA4C	30W		137	187	237	287	337	387		
Ω	RA4D	20W	Incremental	137	187	237	287	337	387	
×.	HA4D	30W	Absolute	137	187	237	287	337	387	
	RA4R	20W		125	175	225	275	325	375	
	11/44/1	30W		125	175	225	275	325	375	
		20W	Incremental			67	.5			
	RA4C	2000	Absolute			80	1.5			
		30W	Incremental	7-17						
		3000	Absolute	95.5						
		20W	Incremental	45.5						
m	RA4D	2011	Absolute	58.5						
""	IIA4D	30W	Incremental	60.5						
		3000	Absolute		73.5					
		20W	Incremental			67	.5			
	RA4R	2011	Absolute			80	1.5			
		30W	Incremental			82	1.5			
			Absolute			95				
	RA4C	20W		121.9	131.9	141.9	151.9	162.9	173.9	
		30W		121.9	131.9	141.9	151.9	162.9	173.9	
n	RA4D	20W	Incremental	121.9	131.9	141.9	151.9	162.9	173.9	
		30W	Absolute	121.9	131.9	141.9	151.9	162.9	173.9	
	RA4R	20W		121.9	131.9	141.9	151.9	162.9	173.9	
		30W		121.9	131.9	141.9	151.9	162.9	173.9	
Weight	RA4C	20W	//30W	1.4	1.5	1.7	1.8	2.0	2.1	
(kg)	RA4D	20W	//30W	1.3	1.5	1.6	1.8	1.9	2.1	
(rg)	RA4R	20W	//30W	1.5	1.7	1.8	2.0	2.1	2.3	
					1.7					

<sup>\*</sup> Adding a brake increases the overall length by 43mm. The RA4R type has a 43mm longer motor, but overall length is unchanged because it is reverse-mounted. There is no brake setting for the RA4D type. The weight is also increased 0.2kg, regardless of the model

### Compatible Controllers

Title	External View	Model	Features	Max. positioning p points	Input power	Power-supply capacity	Standard price	See page		
Positioner type	I	ACON-C-20I-NP-2-0 ACON-C-30I-NP-2-0	Up to 512-point	F10 points			-			
Safety category compatible positioner type	9	ACON-CG-20I-NP-2-0 ACON-CG-30I-NP-2-0	positioning possible	512 points	OIMS	20W Rated 1.3A Peak 5.1A 30W Rated 1.3A Peak 5.1A	-			
Solenoid valve type		ACON-CY-20I-NP-2-0 ACON-CY-30I-NP-2-0	Same as solenoid valve controlled operation enabled	3 points			2014	20W	-	. 0075
ulse series input type (differential line driver specification)	ũ	ACON-PL-20I-NP-2-0 ACON-PL-30I-NP-2-0	Differential line driver compatible, pulse series input type	()	DC24V		-	→P375		
Pulse series input type open collector specification)	8	ACON-PO-20I-NP-2-0 ACON-PO-30I-NP-2-0	Open collector compatible pulse series input type	(-)	DG24V		-			
Serial ommunication type		ACON-SE-20I-N-0-0 ACON-SE-30I-N-0-0	Serial communications special type	64 points		reak 5.1A	-			
Field network type		RACON-20 RACON-30	Field network dedicated type	768 points			-	→P343		
Program control type		ASEL-C-1-20①-NP-2-0 ASEL-C-1-30①-NP-2-0	Programmable type capable of operating up to	1500 points			-	→P405		

\* ASEL is for 1-axis specification

IAI

 $_{\text{RCAW-RA4C/RA4D/RA4R}}320$ 

30w

**20**w

Servo Motor 30w

RCS2W W.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

## RCS2W-RA4C/RA4D/RA4R

See preceding section for model descriptions

ROBO Cylinder, Splash-Resistant RodType, Actuator Width  $\,\varphi$  37mm, 200-V Servo Motor, Coupling /Built-in/Reverse-mounted **Motor Specification** 

■ Model Description RCS2W— Type Encoder type Motor type Lead RA4C: Coupling specification I Incremental 20: Servo motor 12:12mm

20W 30: Servo motor 30W RA4D: bu... specificatu... RA4R: Reverse-mounted motor specification specification specification

Stroke 50: 50mm 6: 6mm 3: 3mm

T1: XSFI - I/K T2: SCON 300: 300mm SSEL XSEL-P/Q (Set steps every 50mm)

Compatible Controllers

Cable length Option : 1m : 3m

Refer to the Option Price List below.

M : 5m X : Length R□□: Robot cable



113.1

Actuator Specification Table						
Leads and Payloads						
Model	Motor output (W)	Lead (mm)	Maximun Horizontal (kg)	n payload Vertical (kg)	Rated thrust (N)	Stroke (mm)
RCS2W-①-②-20-12-③-④-⑤-⑥		12	3.0	1.0	18.9	
RCS2W-①-②-20-6-③-④-⑤-⑥	20	6	6.0	2.0	37.7	
RCS2W-①-②-20-3-③-④-⑤-⑥		3	12.0	4.0	75.4	50 to 300
RCS2W-①-②-30-12-③-④-⑤-⑥		12	4.0	1.5	28.3	(every 50mm)
RCS2W-①-②-30-6-③-④-⑤-⑥	30	6	9.0	3.0	56.6	

Stroke and Maximum Speed								
Stroke Lead	50 to 300 (every 50mm)							
12	600							
6	300							
3	150							

(Unit = mm/s)

③ Stroke (mm)	① Type code						
		RA4C	F				
③ Stroke		② Enco	② Enc				
(mm)	Increr	nental	Abso	olute	Incremental		
	Motor W	number	Motor W	number	Motor W	number	
	20W	30W	20W	30W	20W	30W	

Legend: 1 Type 2 Encoder type 3 Stroke 4 Controller 5 Cable length 6 Option

RCS2W-10-20-30-3-30-40-50-60

Price List by 2 Encoder Type/3 Stroke

		RA4C	/RA4D			RA	4R	
③ Stroke		② Enco	der type			② Enco	der type	
(mm)	Increr	nental	Abso	olute	Increr	nental	Abso	olute
	Motor W	number	Motor W	number	Motor W	number	Motor W	number
	20W	30W	20W	30W	20W	30W	20W	30W
50	-	-	-	-	-	-	-	-
100	-	-	-	-	-	-	-	-
150	-	-	-	-	-	-	-	-
200	-	-	-	-	-	-	-	-
250	-	-	-	-	-	-	-	-
300								

	<u> </u>	. 9					
	Type	Cab	Cable symbol				
		<b>P</b> (1m)			-		
	Standard type	<b>S</b> (3m)			-		
		<b>M</b> (5m)			-		
		X06 (6m)	to	X10 (10m)	-		
	Special length	<b>X11</b> (11m)	to	<b>X15</b> (15m)	-		
		X16 (16m)	to	X20 (20m)	-		
		R01 (1m)	to	R03 (3m)	-		
		R04 (4m)	to	R05 (5m)	-		
	Robot cable	R06 (6m)	to	R10 (10m)	-		
		R11 (11m)	to	R15 (15m)	-		
		D16 (16m)	+0	<b>D20</b> (20m)			

\*See P394 for details on maintenance cable.

(5) Cable Length Price List

4 Option Price List			
Title	Option code	See page	Standard price
Brake (*1)	В	→P437	-
Flange bracket	FL	→P438	-
Foot bracket	FT	→P440	-
Home check sensor (*2)	HS	→P442	-
Knuckle joint	NJ	→P442	-
Reversed-home specification (*2)	NM	→P442	-
Clevis bracket (*3)	QR	→P443	-
Rear mounting plate (*3)	RP	→P444	-
Trunion bracket (front) (*4)	TRF	→P446	-
Trunion bracket (rear) (*4)	TRR	→P446	-

(\*1) There is no brake setting for the RA4D.

(\*1) There is no brack starting or the FM-2.

(\*2) Home check sensors (HS) cannot be used with the reversed-home specification.

(\*3) The clevis bracket and rear mounting plate can only be used with the RA4R.

(\*4) The trunion bracket (rear) can only be used with the RA4C/RA4D.

	6
Item	Description
Drive system	Ball screw $\phi$ 10mm, rolled C10
Positioning repeatability	±0.02mm
Backlash	0.1mm or less
Base	Material: aluminum with alumite treatment
Rod diameter	$\varphi$ 20mm
Non-rotary rod precision	±1.0 degree
Protective structure	IP54
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)
Service life	5000km

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for the RA4D type.





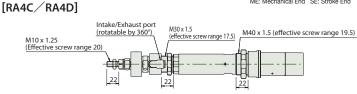
\*1.Cable joint connector and cable bending space are the same as for RCS2-RA4C (see P174).

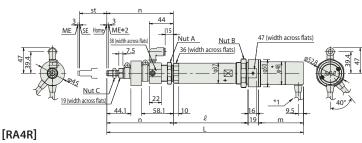
\*2.The slider moves to the ME during home return. Pay attention to

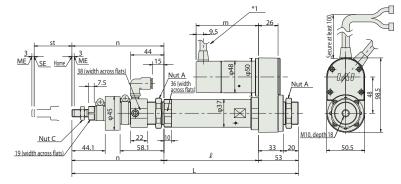
special orders

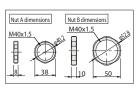
prevent contact between the slider and surrounding parts.

ME: Mechanical End SE: Stroke End











#### ■Dimensions and Weight by Stroke

RCS2W-RA4C/RA4D/RA4R (without brake)

	Stroke		50	100	150	200	250	300		
RA4C		20W	358.4	418.4	478.4	538.4	599.4	660.4		
	RA4C	30W	373.4	433.4	493.4	553.4	614.4	675.4		
L	RA4D	20W	336.4	396.4	456.4	516.4	577.4	638.4		
_	NA4D	30W	351.4	411.4	471.4	531.4	592.4	653.4		
	RA4R	20W	299.9	359.9	419.9	479.9	540.9	601.9		
	NA4N	30W	299.9	359.9	419.9	479.9	540.9	601.9		
	RA4C	20W	137	187	237	287	337	387		
	NA40	30W	137	187	237	287	337	387		
ℓ RA4D	20W	137	187	237	287	337	387			
	NA4D	30W	137	187	237	287	337	387		
	RA4R	20W	125	175	225	275	325	375		
	NA4N	30W	125	175	225	275	325	375		
	RA4C	20W	80.5							
	11A4C	30W	95.5							
m	RA4D	20W	58.5							
1111	NA4D	30W	73.5							
	RA4R	20W	80.5							
	NA4N	30W			95	5.5				
	RA4C	20W	121.9	131.9	141.9	151.9	162.9	173.9		
	11A4C	30W	121.9	131.9	141.9	151.9	162.9	173.9		
n	RA4D	20W	121.9	131.9	141.9	151.9	162.9	173.9		
-11	INA4D	30W	121.9	131.9	141.9	151.9	162.9	173.9		
	RA4R	20W	121.9	131.9	141.9	151.9	162.9	173.9		
	INA4N	30W	121.9	131.9	141.9	151.9	162.9	173.9		
Weight	RA4C	20W/30W	1.4	1.5	1.7	1.8	2.0	2.1		
(kg)	RA4D	20W/30W	1.3	1.5	1.6	1.8	1.9	2.1		
, 3/	RA4R	20W/30W	1.5	1.7	1.8	2.0	2.1	2.3		

#### RCS2W-RA4C/RA4D/RA4R (with brake)

	Stroke		50	100	150	200	250	300			
	SHOKE										
	RA4C	20W	401.4				642.4	703.4			
		30W	416.4	476.4	536.4	596.4	657.4	718.4			
L	RA4D	20W			Withou	t brake.					
_		30W									
	RA4R	20W	299.9	359.9			540.9	601.9			
		30W	299.9	359.9	419.9	479.9	540.9	601.9			
	BA4C	20W	137	187	237	287	337	387			
	11/40	30W	137	137   187   237   287   337   3							
l e	RA4D	20W			Without brake.  59.9 419.9 479.9  59.9 419.9 479.9  187 237 287  Without brake.  175 225 275  123.5  123.5  Without brake.  123.5  123.5  141.9 151.9  Without brake.  31.9 141.9 151.9  31.9 141.9 151.9  31.9 141.9 151.9  31.9 141.9 151.9						
~	10.40	30W			vvitilou	t branc.					
	RA4R	20W	125	175	225	275	325	375			
	11/1411	30W	125	175	225	275	325	375			
	RA4C	20W			12	3.5					
	NA4C	30W			13	8.5					
m	RA4D	20W			Withou	t hrako					
	10.40	30W	williout brake.								
	RA4R	20W		123.5							
	10-(-11	30W			13	8.5					
	BA4C	20W	121.9	131.9	141.9	151.9	162.9	173.9			
	TIA4C	30W	121.9	131.9	141.9	151.9	162.9	173.9			
n	RA4D	20W			Mithou	t brako					
"	IIA4D	30W			vvitilou	i biane.					
	RA4R	20W	121.9	131.9	141.9	151.9	162.9	173.9			
	11/411	30W	121.9	131.9	141.9	151.9	162.9	173.9			
Weight	RA4C	20W/30W	1.6	1.7	1.9	2.0	2.2	2.3			
(kg)	RA4D	20W/30W			-	-					
(1.9)	RA4R	20W/30W	1.7	1.9	2.0	2.2	2.3	2.5			

#### Compatible Controllers

RCS2 series actuators can be operated with the following controllers. Select the type that is compatible with your application

Title	External View	Model	Features	Max. positioning p points	Input power	Power-supply capacity	Standard price	See page
Positioner type			Up to 512-point positioning possible	512 points				
Solenoid valve type		valve controlle	Same as solenoid valve controlled operation enabled	7 points	Single-phase		360VA	→P385
Serial communication type		SCON-C-30D ①-NP-2-②	Serial communications special type	64 points	AC 100V Single-phase	Maximum 360VA *1-axis		71 000
Pulse train input control type			Pulse train input special type	(-)	AC 200V 3-phase AC 200V	specification for 150W operation		
Program control 1-2 axis type		SSEL-C-1-20①-NP-2-② SSEL-C-1-30D①-NP-2-②	Programmable type capable of operating up to 2 axes	20000 points	(XSEL-P/Q only)		-	→P415
Program control 1-6 axis type	Pilla	XSEL-3-1-20①-N1-EEE-2-④ XSEL-3-1-30D①-N1-EEE-2-④	Programmed operation enabled, maximum 6-axes operation possible	4000 points			For inquiries	→P425

\*SSEL, XSEL are for 1-axis specification.
\*① indicates the encoder type (I: incremental, A: absolute).
\*② indicates the power-supply voltage type (1: 100V; 2: Single-phase 200V).
\*③ indicates the XSEL type (J/K/P/Q).
\*④ indicates the power-supply voltage type (1: 100V, 2: Single-phase 200V, 3: Three-phase 200V).

IAI

RCS2W-RA4C/RA4D/RA4R

30w