## Dust-proof/Splash-proof Type

**ROBO** CYLINDER

# Dust-proof/Splash-proof Type

# RCP4W RCAW RCP2W RCS2W





## Dust-proof/Splash-proof Type

RCDAW	Slider Type	Coupled	55mm Width	RCP4W-SA5C	495
			62mm Width	RCP4W-SA6C	497
series			77mm Width	RCP4W-SA7C	499
Pulse Motor	Rod Type		65mm Width	RCP4W-RA6C	501
Туре			75mm Width	RCP4W-RA7C	503
	Slider Type	Coupled	158mm Width	RCP2W-SA16C	505
RCP2W	Rod Type	Coupled	45mm Width	RCP2W-RA4C	507
series			64mm Width	RCP2W-RA6C	509
Dulas Matar		High-Thrust Type	100mm Width	RCP2W-RA10C	511
Type	Gripper Type	Mini Slider Type	42mm Width	RCP2W-GRSS	513
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Mini Lever Type	42mm Width	RCP2W-GRLS	515
	Rod Type	Coupled	ø32mm	RCAW-RA3C	
RCAW		Built-in	ø32mm	RCAW-RA3D	517
series		Side-Mounted Motor	ø32mm	RCAW-RA3R	
	Rod Type	Coupled	ø37mm	RCAW-RA4C	
Motor Type		Built-in	ø37mm	RCAW-RA4D	519
		Side-Mounted Motor	ø37mm	RCAW-RA4R	
PCS2W	Rod Type	Coupled	ø37mm	RCS2W-RA4C	
		Built-in	ø37mm	RCS2W-RA4D	521
series		Side-Mounted Motor	ø37mm	RCS2W-RA4R	
200V Servo Motor Type					

IP Cla	sses						
IP class		Description	Applicable IAI products				
ID67	Solid objects	Fully protected against the entry of powder dust into the equipment.					
	Water	Even when the equipment is submerged in water, water does not enter the equipment.	Rod type RCP4W-RA	der type CP2W-SA16C			
IDEE	Solid objects	Fully protected against the entry of powder dust into the equipment.	Slider type RCP4W-SA	ilider type SWA / ISPWA			
IP65	Water	The equipment receives no harmful effect even when directly hit by water jets from any direction.	Pulse motor rod type RCP2W-RA4C/RA6C	SCARA robot			
	Solid objects	Dust that would affect the operation of the equipment does not enter the equipment.					
IP54	Water	The equipment receives no harmful effect even when contacted by water splashes from any direction.	24-V sen RCAW- High-thrust rod type RCP2W-RA10C RCS2W	ro motor rod type RA3/RA4 rvo motor rod type <b>/-RA4</b>			
IP50	Solid objects	Dust that would affect the operation of the equipment does not enter the equipment.					
	Water         The equipment is not protected against water.		Small gripper (dust RCP2W-GR	-proof type)			

oust-proof/Splash-proof Type



494

Controller Integrated Rod Type Mini Standarc Controller Integrated Table/ Arm/ Flat Type

Type Linear Servo Type

Cleanroom Type

Splash-Proof Type

Pulse

Servo



### Actuator Specifications

Lead and Payload									
Model number		Maximum horizontal pa	ayload (kg)	Maximum	Positioning	Stroke (mm)			
		Supported on both ends	Cantilever	(N)	(mm)				
RCP4W-SA5C-I-35P-10-①-P3-②-③	10	5	1.5	66.9	+0.02	100~500			
RCP4W-SA5C-I-35P-10-①-P3-②-③	5	10	2	147.9	±0.02	(every 50mm)			

Stroke and Maximum Speed						
Stroke Lead	100~500 (every 50mm)					
10	330					
5	165					
(Unit: mm/s)						

Code explanation ① Stroke ② Cable length ③ Options \*See page A-71 for details on push motion.

Option code See page Standard price

→ A-41

→ A-41

→ A-42

→ A-50

→ A-52

→ A-51 → A-51

→ A-57

→ A-57

①Stroke	
Stroke (mm)	Standard price
100	-
150	—
200	—
250	—
300	—
350	—
400	-
450	-
500	_

A1

A3

AL

GE

NM

HFL

HFR

TFR

0	Cah	le I	en	a

S canno renigan		
Type Cable symbol		Standard Price
	<b>P</b> (1m)	—
Standard	<b>S</b> (3m)	_
	<b>M</b> (5m)	_
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	—
Special length	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	—
	R01 (1m) ~ R03 (3m)	_
	R04 (4m) ~ R05 (5m)	—
Robot Cable	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	—
	R16 (16m) ~ R20 (20m)	_

#### \* See page A-59 for cables for maintenance. Actuator Specifications

	Item	Description		
Drive system		Ball screw ø8 mm, rolled C10		
Positioning repeata	bility	±0.02mm		
Lost motion		0.1 mm or less		
Allowable static	Supported on both ends	Ma: 5.9 N•m Mb: 8.4 N•m Mc: 13.7 N•m		
moment	Cantilever	Ma: 2.9 N•m Mb: 4.2 N•m Mc: 6.8 N•m		
Allowable dynamic	Supported on both ends	Ma: 3.4 N•m Mb: 4.9 N•m Mc: 8.0 N•m		
moment (*)	Cantilever	Ma: 1.7 N•m Mb: 2.5 N•m Mc: 4.0 N•m		
Overhang load	Supported on both ends	125mm or less		
length	Cantilever	75mm or less		
Protective structure		IP65 (with air purge)		
Ambient operating	temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)		

(\*) Based on 5,000km of traveling life. Direction of allowable load moment.

Mc Mc 

Overhang load length Ma



Ceiling mount (bracket mounted on the left) Ceiling mount (bracket mounted on the right) Wall mount sideways on the left Wall mount sideways on the right

③ Options



Name Cable exit from the left side face

Cable exit from the right side face

Food grade grease (edible grease)

Additional alumite coating

Non-motor end specification

RCP4W ROBO Cylinder



Dimensional Drawings

RCP4W series actuators can be operated with the controllers indicated below. Select the type according to your intended application. (Note) These actuators cannot be operated with controllers other than the PCON-CA.										
Name	External view	Model number	Features	Maximum number o positioning points	f Input power	Power supply capacity	Standard price	Reference page		
Positioner type	<b>N</b>	PCON-CA-35PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			_			
Pulse-train type		PCON-CA-35PI-PL-□-2-0	Equipped with a high-output driver Pulse-train input type	—	DC24V	Refer to P618	_	→ P607		
Field network type		PCON-CA-35PI-10-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points			_			
* ① indicates I/O type (NP/PN). * □ indicates N (NPN specification) or P (PNP specification) symbol * ① indicates field network specification symbol.										







RCP4W ROBO Cylinder

N-SA6C Model Specification Items RCP4W - SA6C – 42P — **P3** \_ Series — Туре — Encoder type — Motor type — Lead Stroke Applicable controller Cable length — Options N: None Se P: 1m S: 3m M:5m X : Custom length R : Robot cable l: Incremental \* The Simple absolute 42P: Pulse motor, 12 : 12mm 100: 100mm P3: PCON-CA See options below. 42□ size 6: 6mm 600: 600mm (50mm pitch encoder is also \* The RCP4W can be considered type "I". operated only with increments) the PCON-CA \* See page Pre-47 for details on the model descriptions Payload by Acceleration/Deceleration CE RoHS With the RCP4W series, the payload remains the same even when the speed is raised. However, the payload will drop if the acceleration is raised. Check on the table below. Diagram of Acceleration/Deceleration vs. Payload [Supported at Both Ends] 25 20 Lead (kg) 15 Payload ( 10 Lead12 7.5\_\_\_\_ 0.0 0.1 0.2 0.3 0.4 0.5 0.6 Acceleration/deceleration (G) Technical References Diagram of Acceleration/Deceleration (o) [Cantilever] P.5 (1) This actuator is designed exclusively for horizontal installation. It cannot be installed vertically. When hanging the actuator from the ceiling or mounting it on the wall, be sure to do so using an optional dedicated bracket. 014 Lead (2) The payload varies depending on the acceleration/deceleration. The upper limit of acceleration/deceleration is 0.6 G. Payload (kg) Notes or Lead12 (3) The cable joint connector is not splash-proof, so install the connector in a location where it will not come in contact with water. (4) Refer to the page at right for the air tube length and air flow rate when implementing air purge. 1.5

(5) See page A-71 for details on push motion.



### Actuator Specifications

1	Lead and Payload								
	Model number		Maximum horizontal pa	ayload (kg)	Maximum	Positioning repeatability	Stroke		
	Woderhamber	(mm)	Supported on both ends	Cantilever	(N)	(mm)	(mm)		
	RCP4W-SA6C-I-42P-12-①-P3-②-③	12	7.5	3	82.8	+0.02	100~600		
	RCP4W-SA6C-I-42P-6-①-P3-②-③	6	15	4.5	179.5	±0.02	(every 50mm)		
1									

Stroke and Maximum Speed							
	Stroke Lead	100~600 (every 50mm)					
	12	400					
	6	200					
	(Unit: mm/s)						

Code explanation ① Stroke ② Cable length ③ Options \*See page A-71 for details on push motion.

(1)		7.1	<b>TT</b>
(U)	-14		1

() Stioke	
Stroke (mm)	Standard price
100	-
150	—
200	-
250	—
300	—
350	-
400	-
450	-
500	-
550	-
600	_

### ⑦Cable Length

J		
Туре	Cable symbol	Standard Price
	<b>P</b> (1m)	_
Standard	<b>S</b> (3m)	_
	<b>M</b> (5m)	_
	X06 (6m) ~ X10 (10m)	—
Special length	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	_
	R01 (1m) ~ R03 (3m)	_
	R04 (4m) ~ R05 (5m)	—
Robot Cable	R06 (6m) ~ R10 (10m)	_
	R11 (11m) ~ R15 (15m)	—
	R16 (16m) ~ R20 (20m)	_

#### 3 Options

Name	Option code	See page	Standard price
Cable exit from the left side face	A1	→ A-41	_
Cable exit from the right side face	A3	→ A-41	—
Additional alumite coating	AL	→ A-42	-
Food grade grease (edible grease)	GE	→ A-50	—
Non-motor end specification	NM	→ A-52	—
Ceiling mount (bracket mounted on the left)	HFL	→ A-51	—
Ceiling mount (bracket mounted on the right)	HFR	→ A-51	—
Wall mount sideways on the left	TFL	→ A-57	—
Wall mount sideways on the right	TFR	→ A-57	_

#### \* See page A-59 for cables for maintenance. Actuator Specifications

	Item	Description		
Drive system		Ball screw ø10 mm, rolled C10		
Positioning repeatability		±0.02mm		
Lost motion		0.1 mm or less		
Allowable static	Supported on both ends	Ma: 8.5 N•m Mb: 12.2 N•m Mc: 19.9 N•m		
moment	Cantilever	Ma: 4.3 N•m Mb: 6.1 N•m Mc: 10.0 N•m		
Allowable dynamic	Supported on both ends	Ma: 4.7 N•m Mb: 6.7 N•m Mc: 11.0 N•m		
moment (*)	Cantilever	Ma: 2.4 N•m Mb: 3.4 N•m Mc: 5.5 N•m		
Overhang load	Supported on both ends	150mm or less		
length	Cantilever	90mm or less		
Protective structure		IP65 (with air purge)		
Ambient operating t	emperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)		

(\*) Based on 5,000km of traveling life. Direction of allowable load moment.

Mc

Overhang load length Ma



Rod Type Mini Standard Controllers Integrated



Use the correlation diagram as a reference to determine an appropriate pressure and air tube length in such a way that the air flow rate will become 40 Nl/min or more (clean dry air).

Durone			200	200	1 200	550	1 .00		500	550	000
L	395	445	495	545	595	645	695	745	795	845	895
A	334	384	434	484	534	584	634	684	734	784	834
В	266.5	316.5	366.5	416.5	466.5	516.5	566.5	616.5	666.5	716.5	766.5
С	231.5	281.5	331.5	381.5	431.5	481.5	531.5	581.5	631.5	681.5	731.5
D	214	264	314	364	414	464	514	564	614	664	714
Weight (kg)	3.9	4.1	4.3	4.5	4.7	4.9	5.1	5.3	5.5	5.8	6.0

**RCP4W** 

**ROBO Cylinder** 

RCP4W series actuators can be operated with the controllers indicated below. Select the type according to your intended application.							e) These actuators cannot be operated with controllers other than the PCON-CA.			
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page		
Positioner type	Ű	PCON-CA-42PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			_			
Pulse-train type		PCON-CA-42PI-PL-□-2-0	Equipped with a high-output driver Pulse-train input type	_	DC24V	Refer to P618	—	→ P607		
Field network type		PCON-CA-42PI-10-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points			_			

IAI

RCP4W-SA6C 498

Sold & Serviced By: C ELÉCTROMATE Toll Free Phone (877) SERV098 Toll Free Fax (877) SERV099 www.electromate.com sales@electromate.com

Pulse Motor



(3) The cable joint connector is not splash-proof, so install the connector in a location where it will not come in contact with water.

Lead Maximum horizontal payload (kg)

(mm) Supported on both ends Cantilever

10

20

(4) Refer to the page at right for the air tube length and air flow rate when implementing air purge. (5) See page A-71 for details on push motion.



265

(Unit: mm/s)

Code explanation ① Stroke ② Cable length ③ Options \*See page A-71 for details on push motion.

Option code See page Standard price

→ A-41

→ A-41

→ A-42

→ A-50

→ A-52

→ A-51

→ A-51 → A-57

→ A-57

16

8

$\cap$	Stroke	

③ Options

Cable exit from the left side face

Cable exit from the right side face

Additional alumite coating Food grade grease (edible grease)

Non-motor end specification

Wall mount sideways on the right

Actuator Specifications Lead and Payload

Model number

RCP4W-SA7C-I-56P-16-①-P3-②-③

RCP4W-SA7C-I-56P-8-①-P3-②-③

<b>Setterne</b>	
Stroke (mm)	Standard price
100	-
150	-
200	-
250	-
300	-
350	-
400	-
450	-
500	-
550	—
600	-
650	—
700	_

A1

A3

AL

GE

NM

HEL

HFR

TFL TFR

		0	Cable	Lengt
--	--	---	-------	-------

Maximum push force

(N)

161.9

337.9

45

7

Positioning repeatability

(mm)

±0.02

very 50

Туре	Cable symbol	Standard Price
Standard	<b>P</b> (1m)	—
(Robot Cables)	<b>S</b> (3m)	-
	<b>M</b> (5m)	_
	X06 (6m) ~ X10 (10m)	-
	<b>X11</b> (11m) ~ <b>X15</b> (15m)	-
	X16 (16m) ~ X20 (20m)	—
	R01 (1m) ~ R03 (3m)	-
	R04 (4m) ~ R05 (5m)	—
Robot Cable	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	_
	R16 (16m) ~ R20 (20m)	—

8

\* See page A-59 for cables for maintenance.

Actuator Specifications					
	Item	Description			
Drive system		Ball screw ø12 mm, rolled C10			
Positioning repeatab	oility	±0.02mm			
Lost motion		0.1 mm or less			
Allowable static	Supported on both ends	Ma: 11.7 N•m Mb: 16.6 N•m Mc: 31.8 N•m			
moment	Cantilever	Ma: 5.8 N•m Mb: 8.3 N•m Mc: 15.9 N•m			
Allowable dynamic	Supported on both ends	Ma: 6.1 N•m Mb: 8.8 N•m Mc: 16.8 N•m			
moment (*)	Cantilever	Ma: 3.1 N•m Mb: 4.4 N•m Mc: 8.4 N•m			
Overhang load	Supported on both ends	175mm or less			
length	Cantilever	105mm or less			
Protective structure		IP65 (with air purge)			
Ambient operating t	temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)			
) Based on 5,000km of traveling life. Direction of allowable load moment.					
Ma	Mb Mc	Ma Mc			
63					





Name

Ceiling mount (bracket mounted on the left)

Ceiling mount (bracket mounted on the right) Wall mount sideways on the left



Use the correlation diagram as a reference to determine an appropriate pressure and air tube length in such a way that the air flow rate will become 40 N&/min or more (clean dry air).



5.9

Weight (kg)

RCP4W-SA7C

276.5 326.5 376.5 426.5 476.5 526.5 576.5 626.5 676.5 726.5 776.5 826.5 876.5

241.5 291.5 341.5 391.5 441.5 491.5 541.5 591.5 641.5 691.5 741.5 791.5 841.5

224 274 324 374 424 474 524 574 624 674 724 774 824 6.2 6.5 6.8 7.1 7.4 7.6 7.9 8.2 8.5 8.8 9.0

**RCP4W** 

**ROBO Cylinder** 



Pulse Motor

93

IAI

RCP4W ROBO Cylinder



(2) The horizontal payload is calculated by assuming that an external guide is also used.

(3) The high-thrust specification is designed exclusively for vertical operation. It comes standard with a brake.



## Actuator Specifications

election

ļ	Lead and I	I Lead and Payload									
		Lead (mm)	Maximum pa Horizontal (kg)	ayload (kg) Vertical (kg)	Maximum push force (N)	Positioning repeatabili- ty (mm)	Stroke (mm)				
	<u>.</u>	RCP4W-RA6C-I-42P-12-①-P3-②-③	12	20	3	93					
	Standard specification	RCP4W-RA6C-I-42P-6-①-P3-②-③	6	40	8	185		50 to 400			
		RCP4W-RA6C-I-42P-3-①-P3-②-③	3	50	16	370	±0.02	(Every 50mm)			
	High-thrust specification	RCP4W-RA6C-I-42SP-3-①-P3-②-③-B	3	-	30	590		,			

Standard price

Stroke Lead	Stroke         50 (mm)         100 ~ 4 (Every 50           2         500 [450 < 400>]         560 < 50 [450 < 40			
12				
6	360 [300]			
3	180	[150]		
3	<70> [<70>]			

Code explanation ① Stroke ② Cable length ③ Options

	UStroke					
	Stroke (mm)	Standard price				
		Standard specification	High-thrust specification			
	50	—	—			
	100	—	—			
	150	—	—			
	200	—	—			
	250	—	—			
	300	—	—			
	350	_	—			
	400	_	_			

Option code

A1

A3

→ A-41

→ A-41

②Cable Length		
Туре	Cable symbol	Standard Price
	<b>P</b> (1m)	_
Standard	<b>S</b> (3m)	—
	<b>M</b> (5m)	—
	X06 (6m) ~ X10 (10m)	—
Special length	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	—
	R01 (1m) ~ R03 (3m)	—
	R04 (4m) ~ R05 (5m)	—
Robot Cable	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	_
	<b>B16</b> (16m) $\sim$ <b>B20</b> (20m)	_

\* See page A-59 for cables for maintenance. Actuator Specification

ltem	Description		
Drive method	Ball screw ø10mm, rolled C10		
Positioning repeatability	±0.02mm		
Lost motion	0.1mm or less		
Rod	ø22 stainless steel pipe		
Rod non-rotation accuracy	±0.1 degrees		
Allowable load/allowable torque at end of rod	Refer to the page on the right.		
Load offset distance at end of rod	100mm or less		
Protective structure	IP67		
Ambient operating temperature/ humidity	0 to 40°C, 85% RH or less (Non-condensing)		
iffset distance at end of rod (100mm or less)			





Cable exit from the top face AT → A-41 Brake В → A-42 With flange FL → A-45 FT With foot bracket → A-48 Non-motor side specification NM → A-52



③Options

Name

Cable exit from the left side face

Cable exit from the right side face

ontroller ntegrate

Rod Type Mini Standard Controllers Integrated Table Arm Fiat Typ

#### **RCP4W ROBO Cylinder**

P.15

Dimensional Drawings

For Special Orders -িন্দ্র

- \*1
- Connect the motor-encoder integrated cable here. The rod moves to the ME during home return, so pay attention to possible contact with surrounding structures and objects. \*2



\* ① indicates I/O type (NP/PN). \* 🗆 indicates N (NPN specification) or P (PNP specification) symbol \* ① indicates field network specification symbol. \* O indicates P (Standard specification) or SP (High-thrust specification) symbol.

502 RCP4W-RA6C



IAI

RCP4W ROBO Cylinder

ontroller ntegrate

Rod Type Mini Standard Controllers Integrated Table/ Arm/ Flat Type

Pulse Moto



## Actuator Specifications

Εεαά απά Ραγιοάά								
Model number		Lead (mm)	Maximum p Horizontal (kg)	ayload (kg) Vertical (kg)	Maximum push force (N)	Positioning repeatability (mm)	Stroke (mm)	
<b>a</b>	RCP4W-RA7C-I-56P-16-①-P3-②-③	SP-16-0-P3-0-0         16         40         7         219						
Standard	RCP4W-RA7C-I-56P-8-①-P3-②-③	8	50	15	437		50 to 500	
	RCP4W-RA7C-I-56P-4-①-P3-②-③	4	70	25	875	±0.02	(Every 50mm)	
High-thrust specification	RCP4W-RA7C-I-56SP-4-①-P4-②-③-B	4	—	45	1030			

Stroke and Maximum Speed (Unit: mm/s)						
Stroke Lead	50 (mm)	100 ~ 500 (Every 50mm)				
16	500 [450 <300>]	560 <400> [450 <300>]				
8	340 <280> [300 <250>]					
4	170 < [150 <	:140> :125>]				
4	<80> [<80>]					
* The values in < > apply when the actuator is used vertically. * The values in () apply when the actuator is used at an environmental temperature of 5°C or below.						

Code explanation ① Stroke ② Cable length ③ Options

	①Stroke					
	Stroke (mm)	Standard price				
I		Standard specification	High-thrust specification			
	50	_	_			
	100	—	—			
	150	—	- - -			
	200	—				
	250	—				
	300	—	—			
	350	—	—			
	400	—	—			
	450	—	—			
	500					

3 Ontions	

Name	Option code		Standard price			
Cable exit from the left side face	A1	→ A-41	—			
Cable exit from the right side face	A3	→ A-41	—			
Cable exit from the top face	AT	→ A-41	—			
Brake	В	→ A-42	—			
With flange	FL	→ A-45	_			
With foot bracket	FT	→ A-48	—			
Non-motor side specification	NM	→ A-52	_			
*The high-thrust specification come	s standard with	a brake.				



②Cable Length		
Туре	Cable symbol	Standard Price
	<b>P</b> (1m)	—
Standard	<b>S</b> (3m)	—
	<b>M</b> (5m)	—
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	—
Special length	X11 (11m) ~ X15 (15m)	_
	<b>X16</b> (16m) ~ <b>X20</b> (20m)	_
	R01 (1m) ~ R03 (3m)	—
	R04 (4m) ~ R05 (5m)	_
Robot Cable	R06 (6m) ~ R10 (10m)	_
	R11 (11m) ~ R15 (15m)	_
	<b>R16</b> (16m) ~ <b>R20</b> (20m)	_

\* See page A-59 for cables for maintenance. Actuator Specifications

ltem	Description
Drive method	Ball screw ø10mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Rod	ø22 stainless steel pipe
Rod non-rotation accuracy	±0.1 degrees
Allowable load/allowable torque at end of rod	Refer to the page on the right.
Load offset distance at end of rod	100mm or less
Protective structure	IP67
Ambient operating temperature/ humidity	0 to 40°C, 85% RH or less (Non-condensing)
Offset distance at end of rod (100mm or less)	Load at end of rod







P.15

Dimensional Drawings



- \*1 Connect the motor-encoder integrated cable here
- \*2





\* 🛈 indicates I/O type (NP/PN). \* 🗆 indicates N (NPN specification) or P (PNP specification) symbol \* 🕕 indicates field network specification symbol.





RCP2W **ROBO** Cylinder



Actuator Specifications							
Lead and Payload (Note 1) Please note that the maximum load capacity decreases as the speed increases.					Stroke and N	laximum Speed	
Model number	Lead (mm)	Max. Load Ca Horizontal (kg)	pacity (Note 1) Vertical (kg)	Stroke (mm)	Stroke Lead	50~600 (every 50mm)	
RCP2W-SA16C-I-86P-8-①-P4-②-③	8	~25	Net Allering d	Not Allowed 50~6	50~600	8	180
RCP2W-SA16C-I-86P-4-①-P4-②-③	4	~35	Not Allowed	(every 50mm)	4	133	
Code explanation @Stroke @Cable length @Options #liveb motion execution is not currented by this actuator (Unit:mm/s)							

Code explanation ① Stroke ③ Cable length ④ Options \*Push motion operation is not supported by this actuator

JUDROKE		
①Stroke	Standa	rd price
(mm)	Without cover	With cover
50	—	—
100	_	—
150	-	—
200	-	—
250	_	—
300	—	—
350	-	—
400	-	—
450	_	—
500	-	—
550	—	—
600	_	_

③ Options			
Name	Option code	See page	Standard price
With cover	CO	→ A-43	_
Non-motor end specification	NM	→ A-52	_

#### ②Cable Length Cable symbol Standard Price Type **P** (1m) Standard **S** (3m) **M** (5m) **X06** (6m) ~ **X10** (10m) **X11** (11m) ~ **X15** (15m) Special length X16 (16m) ~ X20 (20m) R01 (1m) ~ R03 (3m) R04 (4m) ~ R05 (5m) R06 (6m) ~ R10 (10m) Robot Cable R11 (11m) ~ R15 (15m) R16 (16m) ~ R20 (20m)

\* See page A-59 for cables for maintenance. Actuator Specification

Note

ltem	Description
Drive System	Ball screw, ø12mm, rolled C10
Positioning repeatability	±0.08mm
Lost Motion	0.7mm or less
Guide	ø20 Non-lubricated linear sliding guide
Allowable static load moment	20.0N•m
Allowable overhang	Ma direction 200mm or less
Protective structure	IP67
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

A dynamic moment isn't applicable for the SA16C for structural reasons.

When an object is to be mounted on the slider, please fix it in a manner so that no moment load is applied in the direction Mb or Mc, and so that the load is distributed evenly.







IAI



RCP2W-SA16C





Actuator Specifications									
Lead and Payload (	Note 1) Please no	te that the maxim	um load capacity	decreases as the sp	peed increases.	Stroke ar	nd Maximu	m Spee	d
Model number	Lead (mm)	Max. Load Cap Horizontal (kg)	vertical (kg)	Maximum Push Force (N) (Note 2)	Stroke (mm)	Stroke Lead	50~200 (every 50mm)	250	300
RCP2W-RA4C-I-42P-10-①-②-③-④	10	~25	~4.5	150		10	450 <250>	450 <250>	350 <250>
RCP2W-RA4C-I-42P-5-①-②-③-④	5	40	~12	284	50~300 (every 50mm)	5	190	190	175
RCP2W-RA4C-I-42P-2.5-①-②-③-④	2.5	40	~19	358		2.5	125 <115>	115	85
			1			*The unline an elected	lin c > annhutauun	tion I and the sec	11.1.21

Code explanation ① Stroke ② Applicable controller ③ Cable length ④ Options \*See page A-71 for details on push motion. \*The values enclosed in < > apply to vertical settings. (Unit: mm/s)

①Stroke

④Options

USUOKE	
①Stroke (mm)	Standard price
50	—
100	-
150	—
200	—
250	—
300	-

③Cable Length		
Туре	Cable symbol	Standard Price
	<b>P</b> (1m)	
Standard	<b>S</b> (3m)	—
	<b>M</b> (5m)	—
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	—
Special length	<b>X11</b> (11m) ~ <b>X15</b> (15m)	—
	X16 (16m) ~ X20 (20m)	_
	R01 (1m) ~ R03 (3m)	_
Robot Cable	R04 (4m) ~ R05 (5m)	—
	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	—
	<b>R16</b> (16m) ~ <b>R20</b> (20m)	_

\* See page A-59 for cables for maintenance.

Actuator Specifications						
ltem	Description					
Drive System	Ball screw, ø8mm, rolled C10					
Positioning repeatability	±0.02mm					
Lost Motion	0.1mm or less					
Rod diameter	ø22mm					
Rod non-rotational accuracy	±1.5 degrees					
Protective structure	IP65					
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)					



 $\begin{tabular}{|c|c|c|c|} \hline Name & Option code & See page & Standard price \\ \hline With cover & $B$ & $\rightarrow$ A-42 & $--$ \\ \hline With flange & $FL$ & $\rightarrow$ A-45 & $--$ \\ \hline With foot bracket & $FT$ & $\rightarrow$ A-48 & $--$ \\ \hline Non-motor end specification & $NM$ & $\rightarrow$ A-52 & $--$ \\ \hline \end{tabular}$ 



Rod Type Mini Standard Controllers Integrated





(2m)

0

50

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5

50

lФ

H

Actuator cable\*5

Secure at

least 100

Cable joint connector \*2













90.5

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

② Applicable Controllers

meter ø22

ø38

M10 X 1.25

End bracket (Material: SUS303) Rod (Material: SUS304)

2

Dimensions of Supplied - — Nut for Rod Tip — -

Ħ

1

ff-

ME\*3

41

M10 X 1.25

تې <u>مې 7.5 (width across flats)\*6</u>

ME SE Home

(2.3)

4-M8 depth 12

24.5

A Sec

25

M4 

Dimensions of Supplied Square Nut for T-slot (4 nuts provided)

Connect the motor and encoder cables here. See page A-59 for details on cables. The cable joint connector is not splash-proof; therefore, please secure it in a place that is not prone

11

ø

(\*1) Intake/exhaust port is the air exhaust tube in the main body. Insert OD ø6 mm tube and use it

(\*3) When homing, the rod moves to the ME; therefore, please watch for any interference with the surrounding objects.

□6 I

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14

17

36

49

45

2.5

4.3

1.8

extended to a place that is not prone to water spills or intake.

7.5

2.0

0

24

31 5

22

Intake port\*1 (360 deg rotatable)

Effective T-slot range\*4

Square nut insertion inlet

L

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 $\mathbb{C}$ ÌÌ

P

With Brake

RCP2W series actuators can be operated with the controllers indicated below. Select the type according to your intended application.								
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Salanaid Valua Tura	1	PMEC-C-42PI-①-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	-	→ P537
Solehold valve Type		PSEP-C-42PI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		Refer to P555	_	→ P547
Solenoid valve multi-axis type PIO specification	olenoid valve multi-axis type PIO specification MSEP-C		Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to		. 0562
Solenoid valve multi-axis type Network specification	iiii -	MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572	_	→ P563
Positioner type High-output specification	<u>ii</u>	PCON-CA-42PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			-	
Pulse-train type High-output specification	1	PCON-CA-42PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	-	→ P607
Field network type High-output specification	Field network type High-output specification		Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V		-	
Pulse Train Input Type (Differential Line Driver)	Ő	PCON-PL-42PI-①-2-0	Pulse train input type with differential line driver support				-	
Pulse Train Input Type (Open Collector)	Pulse Train Input Type (Open Collector)		Pulse train input type with open collector support	(—)		Refer to P628	-	→ P623
Serial Communication Type	Ĩ	PCON-SE-42PI-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		PSEL-CS-1-42PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1, 500 points		Refer to P671	_	→ P665
* This is for the single-axis PS * ()) indicates number of axe	5EL. * () s (1 to 8). * ()	) indicates I/O type (NP/PN ) indicates field network sp	). * ([]) indicates power sup pecification symbol. * 🗆 indicates N (NPN sp	oply voltage (1: 100 pecification) or P (P	V / 2: 100~ NP specific	240V). cation) symbol.		





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### SE: Stroke end The dimensions enclosed in "()" are reference dimensions. (\*4) Please note that there is no T-slot in the bottom of brake unit.

Dimensional Drawings

Please don't apply an external force coming from a direction other than that of the rod's

The detent may break if a force is applied other than in the direction of travel or a

Note

direction of travel.

(65.3)

torque is applied to the rod.

10.5

<u>6</u> 36

4.3

7.3

to water snills

ME: Mechanical End

(\*2)

Details of A Section

(\*5) The actuator cable is not a robot cable (flex resistant cable); therefore, please don't use it for movable parts such as cable track. The orientation of the bolt varies depending on the product.

### (\*6)

RCP2W ROBO Cylinder



Actuator Specifications							
Lead and Payload	Note 1) Please not	te that the maxim	um load capacity	decreases as the sp	eed increases.	Stroke ar	nd Maximum Speed
Model number	Lead (mm)	Max. Load Cap Horizontal (kg)	vertical (kg)	Maximum Push Force (N) (Note 2)	Stroke (mm)	Stroke Lead	50~300 (every 50mm)
RCP2W-RA6C-I-56P-16-①-②-③-④	16	~40	~5	240		16	320 <265>
RCP2W-RA6C-I-56P-8-①-②-③-④	8	50	~17.5	470	50~300 (every 50mm)	8	200
RCP2W-RA6C-I-56P-4-①-②-③-④	4	55	~26	800		4	100
			1			x = 1 1 1	

Code explanation 🕤 Stroke 💿 Applicable controller ③ Cable length ④ Options \*See page A-71 for details on push motion. \*The values enclosed in < > apply to vertical settings. (Unit: mm/s)

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			6114
	9		0.00

④Options

With foot bracket

Non-motor end specification

With cover

With flange

JUDKE	
①Stroke (mm)	Standard price
50	—
100	-
150	-
200	-
250	-
300	-

В

FL

FT

NM

Option code See page Standard price

→ A-42

→ A-45

→ A-48

→ A-52

	Labarb	
	the state of the s	

~ 7		
Туре	Cable symbol	Standard Price
	<b>P</b> (1m)	—
Standard	<b>S</b> (3m)	—
	<b>M</b> (5m)	_
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	—
Special length	<b>X11</b> (11m) ~ <b>X15</b> (15m)	—
	X16 (16m) ~ X20 (20m)	—
	R01 (1m) ~ R03 (3m)	—
	R04 (4m) ~ R05 (5m)	—
Robot Cable	<b>R06</b> (6m) ~ <b>R10</b> (10m)	—
	R11 (11m) ~ R15 (15m)	—
	R16 (16m) ~ R20 (20m)	_

\* See page A-59 for cables for maintenance.

Actuator Specifications	
ltem	Description
Drive System	Ball screw, ø12mm, rolled C10
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Rod diameter	ø30mm
Rod non-rotational accuracy	±1.0 degrees
Protective structure	IP65
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)



Name



Rod Type Mini Standard Controllers Integrated Arn Flat Typ



- The dimensions enclosed in "()" are reference dimensions.
- Please note that there is no T-slot in the bottom of brake unit. (\*4)
- (\*5) The actuator cable is not a robot cable (flex resistant cable); therefore, please don't use it for movable parts such as cable track.
- (\*6) The orientation of the bolt varies depending on the product.

② Applicable Controllers

RCP2W serie

### Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300
٤	1350	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

RCP2W-RA6C

s actuators can be operated with the controllers indicated below. Select the type according to your intended application.						
ie	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity
luo Turpo		PMEC-C-56PI-①-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541
ive type		PSEP-C-56PI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		Refer to P555
ulti-axis type ication	line.	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to
ulti-axis type cification	iiii -	MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572
r type pecification	Ĩ	PCON-CA-56PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points		
n type pecification		PCON-CA-56PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)		Refer to P618
					DC24V	

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Colonaid)/ok/o Turo	100	PMEC-C-56PI-①-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P537
Solenoid valve type		PSEP-C-56PI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		Refer to P555	_	→ P547
Solenoid valve multi-axis type PIO specification	dine.	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to		. 0562
Solenoid valve multi-axis type Network specification	iiii -	MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572	_	→ P563
Positioner type High-output specification		PCON-CA-56PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			_	
Pulse-train type High-output specification		PCON-CA-56PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P607
Field network type High-output specification		PCON-CA-56PI-10-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V		_	
Pulse Train Input Type (Differential Line Driver)	Ő	PCON-PL-56PI-①-2-0	Pulse train input type with differential line driver support				_	
Pulse Train Input Type (Open Collector)		PCON-PO-56PI-①-2-0	Pulse train input type with open collector support	()		Refer to P628	_	→ P623
Serial Communication Type	Ĩ	PCON-SE-56PI-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		PSEL-CS-1-56PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	-	→ P665
* This is for the single-axis PSEL. * ① indicates I/O type (NP/PN). * ① indicates power supply voltage (1: 100V / 2: 100~240V). * ① indicates number of axes (1 to 8). * ② indicates field network specification symbol. * □ indicates N (NPN specification) or P (PNP specification) symbol.								



RCP2W ROBO Cylinder



Actuator Specifications							
Lead and Payload (Note 1) Please note that the maximum load capacity decreases as the speed increases. Stroke and Maximum Speed							
Model number	Lead (mm)	Max. Load Cap Horizontal (kg)	oacity (Note 1) Vertical (kg)	Maximum Push Force (N) (Note 2)	Stroke (mm)	Stroke Lead	50~300 (every 50mm)
RCP2W-RA10C-I-86P-10-①-P4-②-③	10	~80	~80	1500		10	250 <167>
RCP2W-RA10C-I-86P-5-①-P4-②-③	5	150	~100	3000	50~300 (every 50mm)	5	125
RCP2W-RA10C-I-86P-2.5-①-P4-②-③	2.5	300	~150	6000		2.5	63
Code explanation ① Stroke ② Cable length ③ Options *See page A-71 for details on push motion. *The values enclosed in < > apply to vertical settings. (Unit.mm/s)							

Code explanation ① Stroke ② Cable length ③ Options \*See page A-71 for details on push motion.

	$\sim$	
	- C I N	L.5
		e.

Ustroke	
①Stroke (mm)	Standard price
50	—
100	-
150	—
200	—
250	—
300	—

@Cable Length						
Туре	Cable symbol	Standard Price				
	<b>P</b> (1m)	—				
Standard	<b>S</b> (3m)	—				
	<b>M</b> (5m)	—				
	X06 (6m) ~ X10 (10m)	—				
Special length	<b>X11</b> (11m) ~ <b>X15</b> (15m)	—				
	X16 (16m) ~ X20 (20m)	—				
	R01 (1m) ~ R03 (3m)	—				
	R04 (4m) ~ R05 (5m)	—				
Robot Cable	R06 (6m) ~ R10 (10m)	—				
	R11 (11m) ~ R15 (15m)	—				

R16 (16m) ~ R20 (20m)

Puls Moto

③ Options Name Option code See page Standard price A1~A3 → A-41 Connector cable outlet direction changed Brake в → A-42 With flange FL → A-46 With foot bracket FT → A-48

## \* See page A-59 for cables for maintenance.

Actuator Specifications	
ltem	Description
Drive System	Ball screw, rolled C10
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Rod diameter	ø40mm
Rod non-rotational accuracy	±1.0 degrees
Protective structure	IP54
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

## 511 RCP2W-RA10C







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splash-proof function (4) Please note that the product has no



Code explanation ① Applicable controller ② Cable length ③ Options

(mm) 8	
Stroke	Standard price
Stroke	

	<u></u>					-
(2)	<b>.</b> a	0]	[4]	-	[0]	
					$\sim$	

Γ

Cable Length		
Туре	Cable symbol	Standard price
Chan daud	<b>P</b> (1m)	—
(Robot Cables)	<b>S</b> (3m)	—
	<b>M</b> (5m)	—
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	_
Special length	<b>X11</b> (11m) ~ <b>X15</b> (15m)	_
	<b>X16</b> (16m) ~ <b>X20</b> (20m)	_

5mm/s.

\* The standard cable is the motor-encoder integrated robot cable. \* See page A-59 for cables for maintenance.

3 Options			
Name	Option code	See page	Standard price
Non-motor end specification	NM	→ A-52	
Flange bracket	FB	→ A-43	—
Shaft bracket	SB	→ A-55	—

Actuator Specifications	
ltem	Description
Drive System	Worm gear + helical gear + helical rack
Positioning repeatability	±0.01mm
Backlash	0.2mm or less per side (constantly pressed out by a spring)
Lost motion	0.05mm or less per side
Guide	Linear guide
Allowable static load moment	Ma: 0.5 N·m, Mb: 0.5 N·m, Mc: 1.5 N·m
Weight	0.2kg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

## 513 RCP2W-GRSS



## RCP2W ROBO Cylinder

ø<u>3<sup>+0.03</sup>depth 3</u>

4-M3 depth 5 3<sup>+0.05</sup> 3<sup>0</sup> depth 3

Weight (kg)

P.15

Dimensional Drawings

46

-E

\* The opening side of the slider is the home position. (\*1) Connect the motor-encoder integrated cable here. See page A-59 for details on cables.

11<sup>+0.05</sup>

2×2-M3 (same as the opposite side)

ø4

#### For Special Orders F

Cable joint connector\*1

Secure at least 100

2-ø3<sup>+0.03</sup>depth 3 (same as the opposite side)









Splasł Proof Type

0.2		
	_	

© Applicable Controllers									
Name         External view         Model number         Features         Maximum number of positioning points         Input power-supply capacity         Standard Reference page									
		PMEC-C-20PI-①-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P537	
Solenoid valve Type		PSEP-C-20PI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		Refer to P555	_	→ P547	
Solenoid valve multi-axis type PIO specification	hine	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to		. 0562	
olenoid valve multi-axis type Network specification	iiii -	MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572	_	→ P563	
Positioner type High-output specification		PCON-CA-20PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			_		
Pulse-train type High-output specification		PCON-CA-20PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P607	
Field network type High-output specification		PCON-CA-20PI-10-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V		_		
Pulse Train Input Type (Differential Line Driver)		PCON-PL-20PI-①-2-0	Pulse train input type with differential line driver support				-		
Pulse Train Input Type (Open Collector)	8	PCON-PO-20PI-①-2-0	Pulse train input type with open collector support	()		Refer to P628	_	→ P623	
Serial Communication Type	Ĩ	PCON-SE-20PI-N-0-0	Dedicated Serial Communication	64 points			_		
Program Control Type		PSEL-CS-1-20PI-()-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	-	→ P665	
* This is for the single-axis PSEL. * ① indicates I/O type (NP/PN). * ① indicates power supply voltage (1: 100V / 2: 100~240V). * ① indicates number of axes (1 to 8). * ② indicates field network specification symbol. * □ indicates N (NPN specification) or P (PNP specification) symbol.									
IAI RCP2W-GRSS 514									

⊕

• 60

17 8.5

-0 -œ 

3<sup>+0.05</sup>depth 3

30

61.5

57.5

7.0

**|** | | ŝ

MAX 22 MIN 14

2.5 1 6 ۲

1

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-0

2-3<sup>+0.05</sup>depth 3 (same as the opposite side)

ø3<sup>+0.03</sup>depth 3

24 LF 4-M3 depth 5

2

8-M3 depth 5 (same as the opposite side)

Pulse Motor







Actuator Specifications					
Lead and Payload		Stroke and	Maximum Speed		
Model number	Deceleration Ratio	Maximum Gripping Force (N)	Stroke (degrees)	Stroke Deceleration ratio	180 (degrees)
RCP2W-GRLS-I-20P-30-180-①-②-③	30	6.4 (3.2 per side)	180 (90 per side)	30	600
Carla angla gatian 💿 Angliashia asutusil		Out and			(Unit: degree/s)

See page Standard price

→ A-52

→ A-43

→ A-55

Code explanation ① Applicable controller ② Cable length ③ Options

Option code

FB

SB

Stroke	
Stroke (degrees)	Standard price
180	_

②Cable Length

Туре	Cable symbol	Standard price
Standard (Robot Cables)	<b>P</b> (1m)	-
	<b>S</b> (3m)	—
	<b>M</b> (5m)	—
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	—
Special length	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	_

\* The standard cable is the motor-encoder integrated robot cable.

* See page A-59 for cables for maintenance.	
---	--

Actuator Specifications	
ltem	Description
Drive System	worm gear + helical gear
Positioning repeatability	±0.01mm
Backlash	1 degree or less per side (constantly pressed out by a spring)
Lost motion	0.1 deg (per side) or less
Guide	-
Allowable static load moment	-
Weight	0.2kg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

# 515 RCP2W-GRLS

Name

Non-motor end specification

**③Options** 

Flange bracket Shaft bracket



## RCP2W ROBO Cylinder

ø3<sup>+0.03</sup> Depth 3

4

4-M3 depth 5

£₽

P.15



Dimensional Drawings

① Applicable Controllers

Weight (kg) 0.2

Coloch
Splasn-
Proof
Turne
Type

Pulse Motor
Servo Motor (24V)
Servo Motor (200V)
Linear Servo Motor

RCP2W series actuators can be operated with the controllers indicated below. Select the type according to your intended application.								
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Selencid Valve Ture	111	PMEC-C-20PI-①-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	-	→ P537
Solenoid valve Type		PSEP-C-20PI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		Refer to P555	-	→ P547
Solenoid valve multi-axis type PIO specification	line	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to		ND562
Solenoid valve multi-axis type Network specification	iiii -	MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572	_	
Positioner type High-output specification		PCON-CA-20PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			-	→ P607
Pulse-train type High-output specification		PCON-CA-20PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	-	
Field network type High-output specification		PCON-CA-20PI-10-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V		-	
Pulse Train Input Type (Differential Line Driver)	Ő	PCON-PL-20PI-①-2-0	Pulse train input type with differential line driver support				-	
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-①-2-0	Pulse train input type with open collector support	(—)		Refer to P628	-	→ P623
Serial Communication Type	rial Communication Type		Dedicated Serial Communication	64 points			-	
Program Control Type		PSEL-CS-1-20PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	-	→ P665
* This is for the single-axis PSEL. * ① indicates I/O type (NP/PN). * ① indicates power supply voltage (1: 100V / 2: 100~240V). * ① indicates number of axes (1 to 8). * ② indicates field network specification symbol. * □ indicates N (NPN specification) or P (PNP specification) symbol.								

## IAI



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RCAW ROBO Cylinder



## Actuator Specifications

Lead and Payload Stroke and Maximum Speed							l Maximum Speed		
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)	d Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)		Stroke Lead	50~200 (every 50mm)
RCAW-①-I-20-10-②-③-④-⑤		10	4	1.5	36.2			10	500
RCAW-①-I-20-5-②-③-④-⑤	20	5	9	3	72.4	50~200 (every 50mm)	5	250	
RCAW-①-I-20-2.5-②-③-④-⑤	_	2.5	18	6.5	144.8			2.5	125
Code explanation @ Type @ Strake @ Applicable controller @ Cable length @ Options = 5 as a set of the strate of th									

Code explanation Type Stroke Applicable controller Cable length Coptions \*See page A-71 for details on push motion.

Encoder / ② Stroke

②Stroke	Standard price						
(mm)	RA3C	RA3D	RA3R				
50	_	—	—				
100	—	—	—				
150	_	—	—				
200		_	—				

(5) Options			
Name	Option code	See page	Standard price
Brake (*1)	В	→ A-42	—
Flange bracket	FL	→ A-45	—
Foot bracket (front)	FT	→ A-49	—
Home sensor (*2)	HS	→ A-50	—
Power-saving	LA	→ A-52	-
Knuckle joint	NJ	→ A-53	—
Non-motor end specification (*2)	NM	→ A-52	_
Clevis bracket (*3)	QR	→ A-53	—
Rear mounting plate (*3)	RP	→ A-54	—
Trunnion bracket (front) (*4)	TRF	→ A-57	_
Trunnion bracket (rear) (*4)	TRR	→ A-58	_
*1) No brake option for RA3D			

(\*2) The home sensor (HS) cannot be used on the Non-motor end models (NM).

(\*3) Clevis bracket and rear mounting plate only available for RA3R.(\*4) Trunnion bracket (rear) only available for RA3C/RA3D.



4 Cable Leng	th	
Туре	Cable symbol	Standard Price
	<b>P</b> (1m)	_
Standard	<b>S</b> (3m)	—
	<b>M</b> (5m)	_
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	—
Special length	X11 (11m) ~ X15 (15m)	_
	<b>X16</b> (16m) ~ <b>X20</b> (20m)	—
	R01 (1m) ~ R03 (3m)	—
	R04 (4m) ~ R05 (5m)	—
Robot Cable	<b>R06</b> (6m) ~ <b>R10</b> (10m)	—
	<b>R11</b> (11m) ~ <b>R15</b> (15m)	_
	R16 (16m) ~ R20 (20m)	_

\* See page A-59 for cables for maintenance.

Actuator Specifications	
Item	Description
Drive System	Ball screw, Ø8mm, rolled C10
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Rod diameter	ø16mm
Non-rotating accuracy of rod	±1.0 deg
Protection structure	IP54
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)



Servo Motor (24V)



### (Note) No 3D CAD data for RA3D type.





5.01)



3 Applicable Controllers

## RCAW ROBO Cylinder



 (\*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
 (\*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects. ME : Mechanical end

SE : Stroke end

(\*3) Intake/exhaust port is the air exhaust tube in the main body. Insert OD ø10 mm tube and use it extended to a place that is not prone to water spills or intake.

Note · Please don't apply an external force coming from a direction other than that of the rod's direction of travel. The detent may break if a force is applied other than in the direction of travel or a torque is applied to the rod.

### Dimensions and Weight by Stroke

RCAW-R	A3C/R	A3D/RA	A3R (wi	thout b	orake)			
Stro	ke	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 e	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			
Matuka	RA3C	1.0	1.1	1.2	1.3			
weight	RA3D	1.0	1.1	1.2	1.3			
(кд)	RA3R	1.1	1.2	1.3	1.4			

RCAW-RA3C/RA3D/RA3R (with brake)									
Stro	ke	50	50 100 150 200						
	RA3C	387.9	387.9 447.9 507.9 567.9						
L	RA3D	No bra	ke-equ	ipped r	nodel.				
	RA3R	283.4	343.4	403.4	463.4				
	RA3C	132	182	232	282				
l	RA3D	No bra	ke -equ	ipped i	model.				
	RA3R	120	120 170 220						
	RA3C	124.5							
m	RA3D	No brake-equipped model.							
	RA3R		12	4.5					
	RA3C	114.4	124.4	134.4	144.4				
n	RA3D	No brake -equipped model.							
	RA3R	114.4	124.4	134.4	144.4				
Materia	RA3C	1.2	1.3	1.4	1.5				
(kg)	RA3D	1.2	1.3	1.4	1.5				
(kg)	RA3R	1.3	1.5	1.6					

Splash
Proof
Typo
Type

Servo Motor (24V)

RCAW series actuators can be operated with the controllers indicated below. Select the type according to your intended application.										
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page		
Solonoid Valva Type	1 Alexandre	AMEC-C-20SI ()-()-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P537		
Solenoid valve type		ASEP-C-20SI①-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			_	→ P547		
Solenoid valve multi-axis type PIO specification	have	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected					DE62		
Solenoid valve multi-axis type Network specification	iii ,	MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points			_	- P 203		
Positioner type		ACON-C-205I①-①-2-0	Positioning is possible for up to 512	512 points		(Standard) 1.7A rated	_			
Safety-Compliant Positioner Type		ACON-CG-205I①-①-2-0	points	512 points	DC24V	5.1A max. (Power-saving) 1.7A rated 3.4A max.	_			
Pulse Train Input Type (Differential Line Driver)		ACON-PL-20SI①-①-2-0	Pulse train input type with differential line driver support				_	→ P631		
Pulse Train Input Type (Open Collector)	ě.	ACON-PO-20SI①-①-2-0	Pulse train input type with open collector support	()			_			
Serial Communication Type		ACON-SE-20SI①-N-0-0	Dedicated Serial Communication	64 points			_			
Program Control Type		ASEL-CS-1-20SI①-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P675		
* This is for the single-axis ASEL. * (1) indicates I/O type (NP/PN).	* Ente * ()) in	r the code "LA" in ① when the code "LA" in ① when the dicates number of axes (1 to	he power-saving specification is specifo 8). * 1 w indicates field netwo	fied. rk specification sy	mbol.					





RCAW ROBO Cylinder



Actuator Specifications									
Lead and Payload							Stroke and	l Maximum Speed	
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)	Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)	Stroke Lead	50~300 (every 50mm)	
RCAW-11-22-20-12-33-44-65-66		12	3.0	1.0	18.9		12	600	
RCAW-1-2-20-6-3-4-5-6	20	6	6.0	2.0	37.7		6	300	
RCAW-①-②-20-3-③-④-⑤-⑥		3	12.0	4.0	75.4	50~300	3	150	
RCAW-1-2-30-12-3-4-6-6		12	4.0	1.5	28.3	(every 50mm)	(Un		
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				
		A 11 1							

Code explanation ① Type ② Encoder ③ Stroke ④ Applicable controller ⑤ Cable Length ⑥ Options \*See page A-71 for details on push motion.

(2) Encode	er/ ③Stro	ke								
	Standard price									
		RA4C	RA4D			RA	4R			
③Stroke		@Encod	der Type	Type @Encoder Type						
(mm)	Incren	nental	Absolute Incremental Abs				Abso	olute		
	Motor pov	ver output	Motor pov	ver output	Motor power output		Motor power output			
	20W	30W	20W	30W	20W	30W	20W	30W		
50	—	—	—	—	—	—	—	_		
100	_	—	—	—	—	—	—	—		
150	-	—	_	—	_	_	—	—		
200		—	_	—	_	-	—	—		
250	_	_	_	_	_	_	_	_		
300		—	—	—	—	_	_	—		

⑤Cable Leng	jth	
Туре	Cable symbol	Standard Price
	<b>P</b> (1m)	—
Standard	<b>S</b> (3m)	—
	<b>M</b> (5m)	—
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	—
Special length	X11 (11m) ~ X15 (15m)	—
	<b>X16</b> (16m) ~ <b>X20</b> (20m)	—
	R01 (1m) ~ R03 (3m)	—
	R04 (4m) ~ R05 (5m)	—
Robot Cable	<b>R06</b> (6m) ~ <b>R10</b> (10m)	—
	R11 (11m) ~ R15 (15m)	_
	R16 (16m) ~ R20 (20m)	_

<sup>6</sup> Ontions

Name	Option code	See page	Standard price
Brake (*1)	В	→ A-42	—
Flange bracket	FL	→ A-45	—
Foot bracket (front)	FT	→ A-49	—
Home sensor (*2)	HS	→ A-50	—
Power-saving	LA	→ A-52	—
Knuckle joint	NJ	→ A-53	—
Non-motor end specification (*2)	NM	→ A-52	—
Clevis bracket (*3)	QR	→ A-53	—
Rear mounting plate (*3)	RP	→ A-54	—
Trunnion bracket (front) (*4)	TRF	→ A-57	—
Trunnion bracket (rear) (*4)	TRR	→ A-58	_

(\*1) No brake option for RA4D.
(\*2) The home sensor (HS) cannot be used on the Non-motor end models (NM).
(\*3) Clevis bracket and rear mounting plate only available for RA4R.
(\*4) Trunnion bracket (rear) only available for RA4C/RA4D.



Actuator specifications	
Item	Description
Drive System	Ball screw, ø10mm, rolled C10
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Rod diameter	ø20mm
Non-rotating accuracy of rod	±1.0 deg
Protection structure	IP54
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

\* See page A-59 for cables for maintenance

Actuator Spacificatio



Servo Moto

(24V





				-							
	RA4C	2011	Absolute	358.4	418.4	478.4	538.4	599.4	660.4		
	iutic	301/	Incremental	360.4	420.4	480.4	540.4	601.4	662.4		
		5000	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		
		2000	Absolute	336.4	396.4	456.4	516.4	577.4	638.4		
L .	10,40	301/	Incremental	338.4	398.4	458.4	518.4	579.4	640.4		
		3000	Absolute	351.4	411.4	471.4	531.4	592.4	653.4		
		2014/	Incremental	299.9	359.9	419.9	479.9	540.9	601.9		
	DAAD	2000	Absolute	299.9	359.9	419.9	479.9	540.9	601.9		
	11/1411	2014/	Incremental	299.9	359.9	419.9	479.9	540.9	601.9		
		5000	Absolute	299.9	359.9	419.9	479.9	540.9	601.9		
	DAAC	20W		137	187	237	287	337	387		
	nA4C	30W		137	187	237	287	337	387		
o		20W	Incremental	137	187	237	287	337	387		
Ł	nA4D	30W	Common	137	187	237	287	337	387		
	DA4D	20W		125	175	225	275	325	375		
	n/4n	30W		125	175	225	275	325	375		
	20W					67	.5				
	RA4C         20W           RA4C         30W           RA4D         20W           RA4D         30W           RA4D         30W           RA4R         30W           RA4R         20W           30W         30W           RA4C         20W           RA4C         30W           RA4D         30W           RA4D         30W           RA4D         30W	Absolute			80	.5					
		2014/	Incremental	82.5							
		5000	Absolute			95	.5				
		2014/	Incremental			45	.5				
	DAAD	2000	Absolute			58	.5				
m	nA4D	301/	Incremental			60	.5				
		3000	Absolute		·	73	.5				
		2014/	Incremental			67	.5				
	DA4D	2000	Absolute			80	.5				
	NA4K	301/	Incremental			82	.5				
		3000	Absolute			95	.5				
	DAAC	20W		121.9	131.9	141.9	151.9	162.9	173.9		
	NA4C	30W		121.9	131.9	141.9	151.9	162.9	173.9		
		20W	Incremental	121.9	131.9	141.9	151.9	162.9	173.9		
11	1174D	30W	Common	121.9	131.9	141.9	151.9	162.9	173.9		
		20W		121.9	131.9	141.9	151.9	162.9	173.9		
	1174K	30W		121.9	131.9	141.9	151.9	162.9	173.9		
Woight	RA4C	20W	/30W	1.4	1.5	1.7	1.8	2.0	2.1		
(Ke)	RA4D	20W	/30W	1.3	1.5	1.6	1.8	1.9	2.1		
(NQ)	DA4D	20\W	/30\//	15	17	10	20	21	23		

Adding a brake increases the RA4C type's overall length by 43mm. Adding a brake also increases the RA4R type's motor portion length by 43mm. However, the overall length does not change because the type is a Side-Mounted type. No brake setting for the RA4D type. Also the weight increases by 0.2kg for all types.

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Colonoid Value Turce		AMEC-C-20I())-())-2-1 AMEC-C-30I())-())-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537
Solehold valve Type	3	ASEP-C-20I ASEP-C-30I 	Simple controller operable with the same signal as a solenoid valve	3 points		(Standard) 20W 1.3A rated	_	→ P547
olenoid valve multi-axis type PIO specification	lune 1	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected					→ P563
olenoid valve multi-axis type Network specification	iiii -	MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points			20W 1.3A rated	
Positioner type		ACON-C-2010-00-2-0 ACON-C-3010-00-2-0	Positioning is possible for up to 512	512 mainte	4.4A max. 30W 1.3A rated 4.4A max.	4.4A max. 30W 1.3A rated	-	
Safety-Compliant Positioner Type		ACON-CG-2010	points	512 points	DC24V	(Power-saving) 20W 1.3A rated	_	→ P631
Pulse Train Input Type (Differential Line Driver)	C.	ACON-PL-2010-00-2-0 ACON-PL-3010-00-2-0	Pulse train input type with differential line driver support	( )			_	
Pulse Train Input Type (Open Collector)		ACON-PO-201(())-(())-2-0 ACON-PO-301(())-(())-2-0	Pulse train input type with open collector support	(—)		2.5A max. 30W 1.3A rated	_	
Serial Communication Type	Í	ACON-SE-201 <sup>(1)</sup> -N-0-0 ACON-SE-301 <sup>(1)</sup> -N-0-0	Dedicated Serial Communication	64 points		2.2n IIIdX.	_	
Program Control Type		ASEL-CS-1-20①①2-0 ASEL-CS-1-30①①2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P675

IAI

## 520 RCAW-RA4C/RA4D/RA4R



Servo Motor (24V)

Rod Type Mini

#### [RA4C/RA4D]



RCS2W ROBO Cylinder



Actuator Specifications										
Lead and Payload							Stroke and Maximum Speed			
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)	Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)	Stroke Lead	50~300 (every 50mm)		
RCS2W-①-②-20-12-③-④-⑤-⑥		12	3.0	1.0	18.9		12	600		
RCS2W-①-②-20-6-③-④-⑥	20	6	6.0	2.0	37.7		6	300		
RCS2W-①-②-20-3-③-④-⑤-⑥		3	12.0	4.0	75.4	50~300	3	150		
RCS2W-①-②-30-12-③-④-⑥-⑥		12	4.0	1.5	28.3	(every 50mm)		(Unit: mm/s		
RCS2W-①-②-30-6-③-④-⑤-⑥	30	6	9.0	3.0	56.6					
RCS2W-①-②-30-3-③-④-⑤-⑥		3	18.0	6.5	113.1					
		A 11 1								

Code explanation ① Type ② Encoder ③ Stroke ④ Applicable controller ⑤ Cable Length ⑥ Options \*See page A-71 for details on push motion

CENCOUE	er α ູ⊇ວເr	оке							
				Standa	rd price				
		RA4C	RA4D			RA	4R		
③Stroke		@Encod	der Type			@Encod	der Type		
(mm)	Incren	nental	Abso	olute	Incren	nental	Abso	olute	
	Motor pov	ver output	Motor pov	ver output	Motor power out		Motor power output		
	20W	30W	20W	30W	20W	30W	20W	30W	
50	_	_	_	_	_	_	_	-	
100	—	—	—	—	—	—	—	—	
150	_		_	_	—		_	- 1	
200	_	_	_	—	—	_	—	—	
250	-	-	_	_	_	-	_	-	
300	—	_	_	_	—	_	_	—	

⑤Cable Leng	jth	
Туре	Cable symbol	Standard Price
	<b>P</b> (1m)	_
Standard	<b>S</b> (3m)	—
	<b>M</b> (5m)	—
	X06 (6m) ~ X10 (10m)	—
Special length	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	—
	R01 (1m) ~ R03 (3m)	—
	R04 (4m) ~ R05 (5m)	—
Robot Cable	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	—
	R16 (16m) ~ R20 (20m)	_
* See page A-59 for ca	ables for maintenance.	

Rod Type Mini Standard Controllers Integrated

See page Standard price Name Option code Brake (\*1) В → A-42 → A-42 CE CE compliance Flange bracket FL → A-45 FT Foot bracket (front) → A-49 \_ HS Home sensor (\*2) → A-50 Knuckle joint NJ → A-53 Non-motor end specification (\*2) NM → A-52 QR RP Clevis bracket (\*3) → A-53 Rear mounting plate (\*3) → A-54

Trunnion bracket (front) (\*4 TRF → A-57 Trunnion bracket (rear) (\*4) TRR → A-58

(\*1) No brake option for RA4D.
 (\*2) The home sensor (HS) cannot be used on the Non-motor end models (NM).
 (\*3) Clevis bracket and rear mounting plate only available for RA4R.
 (\*4) Trunnion bracket (rear) only available for RA4C/RA4D.



6 Options

RCS2W-RA4C/RA4D/RA4R

Actuator Specifications

netautor specifications	
ltem	Description
Drive System	Ball screw, ø10mm, rolled C10
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Rod diameter	ø20mm
Non-rotating accuracy of rod	±1.0 deg
Protection structure	IP54
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)



## RCS2W ROBO Cylinder



Dimensions of Nut A	of Nut B		Dimensions
M30×1.5	M40×1.5	28	of Nut C
			M10x1.25
8 38	10 50		1617

- Note:
note.
Please don't apply an external force coming from a
direction other than that of the rod's direction of travel.
The detent may break if a force is applied other than in
the direction of travel or a torque is applied to the rod.

	Stroke		50	100	150	200	250	300		
L	DAAC	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		
		20W	336.4	396.4	456.4	151.9	577.4	638.4		
	RA4D	30W	351.4	411.4	471.4	516.4	592.4	653.4		
	DAAD	20W	299.9	359.9	419.9	479.9	540.9	601.9		
	RA4R	30W	299.9	359.9	419.9	479.9	540.9	601.9		
	DAAC	20W	137	187	237	287	337	387		
	NA4C	30W	137	187	237	287	337	387		
p		20W	137	187	237	287	337	387		
ć	NA4D	30W	137	187	237	287	337	387		
RA4R		20W	125	175	225	275	325	375		
	11/1411	30W	125	175	225	275	325	375		
	DAAC	20W	80.5							
	I NA4C	30W	95.5							
m	RA4D	20W	58.5							
		30W	73.5							
	RA4R	20W	80.5							
	10/1411	30W	95.5							
	RAAC	20W	121.9	131.9	141.9	151.9	162.9	173.9		
	II/A+C	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		
	NA4D	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		
	10.410	30W	121.9	131.9	141.9	151.9	162.9	173.9		
Woight	RA4C	20W/30W	1.4	1.5	1.7	1.8	2.0	2.1		
(Ka)	RA4D	20W/30W	1.3	1.5	1.6	1.8	1.9	2.1		
(ing)	RA4R	20W/30W	1.5	1.7	1.8	2.0	2. <b>1</b>	2.3		
CS2W-RA4C/RA4D/RA4R (with brake)										

Dimensions and Weight by Stroke

	Stroke		50	100	150	200	250	300	
	RAAC	20W	401.4	461.4	521.4	581.4	642.4	703.4	
	NA4C	30W	416.4	476.4	536.4	596.4	657.4	718.4	
		20W		Nebra	ko ogu	inned	madal		
L	RA4D	30W		NO DI a	ke-equ	ipped	model		
		20W	299.9	359.9	419.9	479.9	540.9	601.9	
	INA4N	30W	299.9	359.9	419.9	479.9	540.9	601.9	
	DAAC	20W	137	187	237	287	337	387	
	RA4C	30W	137	187	237	287	337	387	
0		20W		No bra	ko ogu	inned	model		
Ł	RA4D	30W		NO DIA	ke-equ	ipped	model		
	RA4R	20W	125	175	225	275	325	375	
		30W	125	175	225	275	325	375	
	RA4C	20W	123.5						
		30W	138.5						
	DAAD	20W	No broke equipped model						
m	RA4D	30W	No blake-equipped model						
	DA4D	20W	123.5						
	KA4K	30W	138.5						
	DAAC	20W	121.9	131.9	141.9	151.9	162.9	173.9	
	RA4C	30W	121.9	131.9	141.9	151.9	162.9	173.9	
	0440	20W							
n	KA4D	30W	No brake-equipped model						
	DA4D	20W	121.9	131.9	141.9	151.9	162.9	173.9	
	RA4K	30W	121.9	131.9	141.9	151.9	162.9	173.9	
Voight	RA4C	20W/30W	1.6	1.7	1.9	2.0	2.2	2.3	
(Kg)	RA4D	20W/30W			_	-			
(Kg)	RA4R	20W/30W	1.7	1.9	2.0	2.2	2.3	2.5	

		<pre>④Ap</pre>	olicable	Control	lers
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Dimensional Drawings

RCS2W-series actuators can be operated with the following controllers. Select an appropriate controller type according to your application.												
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page				
Positioner mode			Up to 512 positioning points are supported.	512 points	_		_					
Solenoid valve mode		SCON-CA-20①-NP-2-①	Actuators can be operated through the same control used for solenoid valves.	can be operated he same control used 7 points id valves.								
Field network type							SCON-CA-30D①-NP-2-①	SCON-CA-30D①-NP-2-①	Movement by numerical specification is supported.	768 points	Single-phase 126 VA max. 100VAC * Power supply	_
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC	capacity will vary depending on the controller, so please refer to the instruction manual for details.	—					
Positioner multi-axis, network type		MSCON-C-1-20①-⑦-0-⑪ MSCON-C-1-30D①-⑦-0-⑪	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase 200VAC (XSEL-P/Q/R/S 0NLY)		—	→ P655				
Program control type, 1 to 2 axes		SSEL-CS-1-20①-NP-2-⑪ SSEL-CS-1-30D①-NP-2-⑪	Program operation is supported. Up to 2 axes can be operated.	20,000 points			—	→ P685				
Program control type, 1 to 8 axes	PTIP	XSEL-@-1-20①-N1-EEE-2-® XSEL-@-1-30D①-N1-EEE-2-®	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axes connected			—	→ P695				
* This is for the single-axis MSCON SSEL and SSEL * @ indicates the encoder type (Lingramental / A: Absolute)												

\* (i) indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V). \* (ii) indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V). \* (iii) indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V). \* (iii) indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V).





IAI

Servo Motor (200V)