Cleanroom Type



Cleanroom Type

ERC3CR RCP4CR RCP2CR

RCACR RCS3CR RCS2CR



443 Cleanroom Type

Cleanroom Type

ERC3CR	Slider Type		50mm Width	ERC3CR-SA5C	445
			73mm Width	ERC3CR-SA7C	447
series					
Pulse Motor					
Туре					
RCP4CR	Slider Type, Coupled		52mm Width	RCP4CR-SA5C	449
			58mm Width	RCP4CR-SA6C	451
series			73mm Width	RCP4CR-SA7C	453
Pulse Motor					
Туре					
RCP2CR	Slider Type, Coupled	Steel Base	60mm Width	RCP2CR-SS7C	455
			80mm Width	RCP2CR-SS8C	457
series		High-Speed Type	80mm Width	RCP2CR-HS8C	459
Pulse Motor	Gripper Type	Mini Slider Type	42mm Width	RCP2CR-GRSS	461
Туре		Mini Lever Type	42mm Width	RCP2CR-GRLS	463
RCACR	Slider Type, Coupled	Aluminum Base	40mm Width	RCACR-SA4C	465
			52mm Width	RCACR-SA5C	467
series			58mm Width	RCACR-SA6C	469
24 Servo	Slider Type, Built-in	Aluminum Base	52mm Width	RCACR-SA5D	471
Motor Type			58mm Width	RCACR-SA6D	473
RCS3CR	Slider Type, Coupled	Aluminum Base	80mm Width	RCS3CR-SA8C	475
		Steel Base	80mm Width	RCS3CR-SS8C	477
series					
200V Servo					
Motor Type					
	Slider Type, Coupled	Aluminum Base	40mm Width	RCS2CR-SA4C	479
RCS2CR			52mm Width	RCS2CR-SA5C	481
			58mm Width	RCS2CR-SA6C	483
series			73mm Width	RCS2CR-SA7C	485
200V Servo		Steel Base	60mm Width	RCS2CR-SS7C	487
Motor Type	Slider Type, Built-in	Aluminum Base	52mm Width	RCS2CR-SA5D	489
			58mm Width	RCS2CR-SA6D	491

Mini

Controllers Integrated Rod Type Mini Standard Controllers Integrated

Servo Motor (200V) Linear Servo Motor



Actuator Specifications (High-output Setting Enabled) Lead and Payload Stroke and Max. Speed/Suction Volume by Lead (Note 1) Take caution that the maximum payload decreases as the speed increases Maximum payload (Note 1) Stroke 50~450 500 550 600 650 Suction amoun (Nℓ/min) Stroke 700 750 800 Lead Model number (every 50mm) (mm) (mm) (mm) Lead (mm) (mm) (mm) (mm) (mm) (mm) Horizontal (kg) Vertical (kg ERC3CR-SA5C-I-42P-20-12-22 4 1045 3 20 6.5 1 20 1120 900 785 690 610 80 9 ERC3CR-SA5C-I-42P-12- ① - ② 3 4 12 2.5 900 795 375 330 50 12 665 570 490 425 50~800 (every 50mm) ERC3CR-SA5C-I-42P-6-12-23 (4) 6 18 6 6 450 395 335 285 245 215 185 165 30 ERC3CR-SA5C-I-42P-3-①-②-③-④ 105 3 20 12 3 225 195 165 140 120 90 80 15 * The values of lead 3 apply when acceleration is at 0.1G. (Unit: mm/s)

Code explanation ① Stroke ② I/O type ③ Cable length ④ Options

①Stroke			
Stroke (mm)	Standard price	Stroke (mm)	Standard price
50	—	450	—
100	—	500	—
150	—	550	—
200	—	600	—
250	—	650	—
300	—	700	—
350	—	750	—
400	—	800	_

	④ Options
_	
	Name

Name	Option code	See page	Standard price
Brake	В	→ A-42	—
Non-motor end specification	NM	→ A-52	—
Vacuum port on opposite side	VR	→ A-58	—
Simple absolute specification	ABU	→ A-42	— (*)

(*) If the simple absolute specification is selected, the separately sold PIO converter of simple absolute specification (with battery) is required and the SIO type of ERC3 must be selected.

③Cable Length			
Type	Cable symbol	Standa	rd price
туре	Cable symbol	PIO type	SIO type
Standard	P (1m)	—	—
(Robot Cables)	S (3m)	—	—
(RODOL Cables)	M (5m)	—	—
Special length	X06 (6m) ~ X10 (10m)	_	_

* See page 586 for cables for maintenance.

Actuator Specifications

ltem	Description
Drive system	Ball screw, ø10mm, rolled C10
Positioning repeatability (*1)	± 0.02mm [± 0.03mm]
Lost motion	0.1mm or less
Allowable static load moment	Ma: 18.6 N•m, Mb: 26.6 N•m, Mc: 47.5 N•m
Allowable dynamic load moment (*2)	Ma: 4.9 N•m, Mb: 6.8 N•m, Mc: 11.7 N•m
Overhang load length	Ma direction: 150mm or less Mb/Mc directions: 150mm or less
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

(*1) The specification in [] applies when the lead is 20mm. (*2) Based on 5,000 km of traveling life.

Direction of allowable load moment.





Clean room Type



	Dimensions and weight by Sticke															
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	299.9	349.9	399.9	449.9	499.9	549.9	599.9	649.9	699.9	749.9	799.9	849.9	899.9	949.9	999.9	1049.9
A	73	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800
В	0	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7
C	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7	7
D	4	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18
F	4	4	6	6	6	8	10	10	12	12	14	14	16	16	18	18
G	166	216	266	316	366	416	466	516	566	616	666	716	766	816	866	916
Н	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
J	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
K	194.2	244.2	294.2	344.2	394.2	442.2	494.2	544.2	594.2	644.2	694.2	744.2	794.2	844.2	894.2	944.2
Weight (kg)	1.6	1.8	2.0	2.1	2.3	2.5	2.6	2.8	3.0	3.1	3.3	3.5	3.6	3.8	4.0	4.1

②I/O type	Controllers (Built into the Actuator) Image: Controllers (Built into the Actuator) Image: Controllers (Built into the following five types of built-in controllers can be selected depending on the external input/output (I/O) type. Select the type that meets your purpose.										
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price				
PIO type (NPN specification)		ERC3CR-SA5C-I-42P-□-□-NP-□-□	Simple control type accommodating up to 16 positioning points	16 points			_	→ P577			
PIO type (PNP specification)		ERC3CR-SA5C-I-42P-□-□-PN-□-□	I/O type supporting inputs/outputs of the PNP specification often used overseas	16 points		High-output setting					
SIO type		ERC3CR-SA5C-I-42P-□-□-SE-□-□	High-function type accommodating up to 512 positioning points (PIO converter is used)	512 points	DC24V	enabled: 3.5A rated 4.2A max. High-output setting					
Pulse-train type (NPN specification)		ERC3CR-SA5C-I-42P-□-□-PLN-□-□	Pulse-train input type supporting the NPN specification	_		disabled: 2.2A					
Pulse-train type (PNP specification)		ERC3CR-SA5C-I-42P-□-□-PLP-□-□	Pulse-train input type supporting the PNP specification	_							



Line Serv Moto

Pulse Motor

room Type

IAI



Actuator Specifications (High-output Setting Enabled)

Lead and Payload (Note 1) Take caution	speed increases.	Stroke and Max. Speed/Suction Volume by Lead (Unit: r						(Unit: mm/s)							
Model number	Lead (mm)	Maximum pay Horizontal (kg)	Vload (Note 1) Vertical (kg)	Stroke (mm)		Stroke Lead	50~550 (everymm)	600 (mm)	650 (mm)	700 (mm)			Suction amount (Nℓ/min)		
ERC3CR-SA7C-I-56P-24-①-②-③-④	24	17	3					24	12	200	1155	1010	890	790	90
ERC3CR-SA7C-I-56P-16-①-②-③-④	16	35	6	50~800		16	980 <840>	865 <840>	750	655	580	515	70		
ERC3CR-SA7C-I-56P-8-①-②-③-④	8	40	14	(every 50mm)		8	490	430	375	325	290	255	40		
ERC3CR-SA7C-I-56P-4-①-②-③-④	4	45	22			4	2	10	185	160	145	125	30		
Code explanation ①Stroke ②I/O type ③Cable length ④Options						*The values enclosed in < > apply to vertical settings. *The values of lead 8 and lead 4 app when acceleration is at 0.1G.					and lead 4 apply s at 0.1G.				

①Stroke

Stroke (mm)	Standard price	Stroke (mm)	Standard price
50	—	450	—
100	—	500	—
150	—	550	—
200	—	600	—
250	—	650	—
300	—	700	—
350	—	750	—
400	—	800	—

4 Options

Name	Option code	See page	Standard price
Brake	В	→ A-42	—
Non-motor end specification	NM	→ A-52	—
Vacuum port on opposite side	VR	→ A-58	—
Simple absolute specification	ABU	→ A-42	— (*)

(*) If the simple absolute specification is selected, the separately sold PIO converter of simple absolute specification (with battery) is required and the SIO type of ERC3 must be selected.

Puls Moto

Clean-room Type



3Cable Length Standard price Cable symbol Type PIO type **P** (1m) Standard S (3m) (Robot Cables) M (5m) X06 (6m) ~ X10 (10m)

Special length See page 586 for cables for maintenance.

Actuator Specifications

ltem	Description
Drive system	Ball screw, ø12mm, rolled C10
Positioning repeatability (*1)	± 0.02mm [± 0.03mm]
Lost motion	0.1mm or less
Allowable static load moment	Ma: 50.4 N•m, Mb: 71.9 N•m, Mc: 138.0 N•m
Allowable dynamic load moment (*2)	Ma: 13.9 N•m, Mb: 19.9 N•m, Mc: 38.3 N•m
Overhang load length	Ma direction: 230mm or less Mb/Mc directions: 230mm or less
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

(*1) The specification in [] applies when the lead is 24mm. (*2) Based on 5,000 km of traveling life.







SIO type



0

0 85

237.7 287.7

1

1 1 1

337.7 387.7 437.7

With the ERC3 series, one of the following five types of built-in controllers can be selected depending on the external input/output (I/O) type. Select the type that meets your purpose.

Simple control type

accommodating up to

16 positioning points

3.9 4.1 4.4 4.7

85 185 185 285 285

1 1 1 1

487.7 537.7

4.9 5.2

385 385

5.5 6.0

16 points

587.7 637.7

485 485

6.0

687.7 737.7

Η

ERC3CR-SA7C-I-56P-□-□-NP-□-□

Controllers (Built into the Actuator)

②I/O type

PIO type (NPN

specification)

Weight (kg) 3.6

1 1

7.3

nerence

785

987.7

7.6

685 685

7.1

tandard price

887.7 937.7

Controllers Integrated

Pulse Motor

PIO type (PNP specification)		ERC3CR-SA7C-I-56P-□-□-PN-□-□	I/O type supporting inputs/outputs of the PNP specification often used overseas	16 points		High-output setting						
SIO type	<u>o</u>	ERC3CR-SA7C-I-56P-□-□-SE-□-□	High-function type accommodating up to 512 positioning points (PIO converter is used)	512 points	DC24V	enabled: 3.5A rated 4.2A max. High-output setting	_	→ P577				
Pulse-train type (NPN specification)				ERC3CR-SA7C-I-56P-□-□-PLN-□-□	Pulse-train input type supporting the NPN specification	_		disabled: 2.2A				
Pulse-train type (PNP specification)		ERC3CR-SA7C-I-56P-□-□-PLP-□-□	Pulse-train input type supporting the PNP specification	_								
									-			

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1

6.3 6.5 6.8

ower-supply

585 585

787.7 837.7





Lead and Payload (*) When operated at 0.2 G								
Lead (mm)	Connected controller	Maximum payload Horizontal (kg) Vertical (kg)		Stroke (mm)				
20	PCON-CA	6.5	1					
20	MSEP-C	4	0.5 (*)					
12	PCON-CA	9	2.5					
	MSEP-C	6	2	50~800				
6	PCON-CA	18	6	(every 50mm)				
0	MSEP-C	13	5	5011111				
2	PCON-CA	20	12					
5	MSEP-C	16	10					
	(mm) 20	controller 20 PCON-CA MSEP-C PCON-CA 12 PCON-CA MSEP-C PCON-CA 6 MSEP-C 9 PCON-CA 3 PCON-CA	Lead (mm) Connected controller Maximum Horizontal (kg) 20 PCON-CA 6.5 MSEP-C 4 PCON-CA 9 MSEP-C 6 PCON-CA 18 MSEP-C 13 PCON-CA 20	Lead (mm) Connected controller Maximum payload Horizontal(kg) Vertical(kg) 20 PCON-CA 6.5 1 MSEP-C 4 0.5 (*) 12 PCON-CA 9 2.5 MSEP-C 6 2 PCON-CA 18 6 MSEP-C 13 5 3 PCON-CA 20 12				

Stroke and Max. Speed/Suction Volume by Lead										
Lead (mm)	Connected controller	50~450 (every 50mm)	500 (mm)	550 (mm)	600 (mm)	650 (mm)	700 (mm)	750 (mm)	800 (mm)	Suction amount (Nℓ/min)
20	PCON-CA	1440 <1	280>	1225	1045	900	785	690	610	80
20	MSEP-C		96	0		900	785	690	610 80	
12	PCON-CA	900	795	665	570	490	425	375	330	50
12	MSEP-C		600		570	490	425	375	330	50
6	PCON-CA	450	395	335	285	245	215	185	165	20
MSEP-C			300		285	245	215	185	165	30
3	PCON-CA	225	195	165	140	120	105	90	80	15
3	MSEP-C		150		140	120	105	90	80	1 15

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

①Stroke			
Stroke (mm)	Standard price	Stroke (mm)	Standard price
50	—	450	—
100	—	500	_
150	—	550	_
200	—	600	_
250	—	650	_
300	—	700	_
350	—	750	—
400	—	800	—

⁽²⁾ Cable Length		
Туре	Cable symbol	Standard price
	P (1m)	—
Standard	S (3m)	—
	M (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 cables for maintenance.

Actua	TOP S	necit	ne

Actuator Specifications	
ltem	Description
Drive system	Ball screw, ø10mm, rolled C10
Positioning repeatability (*1)	±0.02mm [±0.03mm]
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treated
Allowable dynamic moment (*2)	Ma: 4.9 N•m, Mb: 6.8 N•m, Mc: 11.7 N•m
Allowable overhang	150mm or less in Ma, Mb and Mc directions
Grease	Low dust generation grease (urea grease) is used for both ball screws and guides.
Cleanness	Class 10 (0.1µm)
Ambient operating temperature/humidity	0 to 40°C, 85% RH or less (Non-condensing)

③ Options Name Option code See page Standard price Brake В → A-42 Optional cable exit direction (top) CJT → A-42 Optional cable exit direction (right) CJR → A-42 Optional cable exit direction (left) CJL → A-42 Optional cable exit direction (bottom) CJB → A-42 Non-motor end specification NM → A-52 Vacuum port on opposite side VR → A-58

449 RCP4CR-SA5C

(*1) The value at lead 20 is shown in []. (*2) Based on 5,000 km of traveling life.

Cleanroom Type





Field network-ready positioner type, allowing up to 8 axes

to be connected

Solenoid valve multi-axis type

Network specification

* ① indicates I/O type (NP/PN). * ① indicates number of axes (1 to 8).

256 points

* 💷 indicates field network specification symbol. * 🗆 indicates N (NPN specification) or P (PNP specification) symbol



Lead and Payload (*) When operated at 0.2 G								
Model number		Connected controller	Maximum payload Horizontal (kg) Vertical (kg)		Stroke (mm)			
RCP4CR-SA6C-I-42P-20-①-P3-②-③		PCON-CA	10	1				
		MSEP-C	6	0.5 (*)				
RCP4CR-SA6C-I-42P-12-①-P3-②-③		PCON-CA	15	2.5				
RCP4CR-SA6C-I-42P-I2-U-P3-2-3	12	MSEP-C	8.5	2	50~800			
RCP4CR-SA6C-I-42P-6-①-P3-②-③	6	PCON-CA	25	6	(every 50mm)			
RCP4CR-SA6C-I-42P-6-1-P3-12-13		MSEP-C	15	5	,			
RCP4CR-SA6C-I-42P-3-①-P3-②-③		PCON-CA	25	12				
RCP4CR-SA6C-I-42P-3-10-P3-12-13	3	MSEP-C	19	10				

Stroke and Max. Speed/Suction Volume by Lead (unit: mm/									t: mm/s		
Lead (mm)	Connected controller	50~450 (every 50mm)	500 (mm)	550 (mm)	600 (mm)	650 (mm)	700 (mm)	750 (mm)	800 (mm)	Suction amount (Nℓ/min)	
20	PCON-CA	1440<1	280>	1230	1045	905	785	690	615	80	
20	MSEP-C	960 905 785 690				690	615	00			
12	PCON-CA	900	795	670	570	490	430	375	335	50	
12	MSEP-C		600		570	490	430	375	335	50	
6	PCON-CA	450	395	335	285	245	215	185	165	20	
0	MSEP-C		300		285	245	215	185	165	30	
3	PCON-CA	225	195	165	140	120	105	90	80	15	
3	MSEP-C		150		140	120	105	90	80	C1	
	The values in < > apply when the actuator is used vertically								ertically.		

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-42

→ A-42

→ A-42

→ A-42

→ A-42

→ A-52

→ A-58

①Stroke			
Stroke (mm)	Standard price	Stroke (mm)	Standard price
50	_	450	_
100	—	500	_
150	—	550	_
200	—	600	—
250	_	650	_
300	—	700	_
350	—	750	—
400	—	800	—

В

CJT

CJR

CJL

CJB

NM

VR

Cable symbol	Standard price
P (1m)	—
S (3m)	—
M (5m)	—
X06 (6m) ~ X10 (10m)	—
X11 (11m) ~ X15 (15m)	_
X16 (16m) ~ X20 (20m)	—
R01 (1m) ~ R03 (3m)	_
R04 (4m) ~ R05 (5m)	_
R06 (6m) ~ R10 (10m)	_
R11 (11m) ~ R15 (15m)	—
R16 (16m) ~ R20 (20m)	_
	P (1m) S (3m) M (5m) X06 (6m) ~ X10 (10m) X11 (11m) ~ X15 (15m) X16 (16m) ~ X20 (20m) R01 (1m) ~ R03 (3m) R04 (4m) ~ R05 (5m) R06 (6m) ~ R10 (10m) R11 (11m) ~ R15 (15m)

* See page A-59 for cables for maintenance.

Actuator Specifications	
ltem	Description
Drive system	Ball screw, ø10mm, rolled C10
Positioning repeatability (*1)	±0.02mm [±0.03mm]
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treated
Allowable dynamic moment (*2)	Ma: 8.9 N•m, Mb: 12.7 N•m, Mc: 18.6 N•m
Allowable overhang	220mm or less in Ma, Mb and Mc directions
Grease	Low dust generation grease (urea grease) is used for both ball screws and guides.
Cleanness	Class 10 (0.1µm)
Ambient operating temperature/humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*1) The value at lead 20 is shown in []. (*2) Based on 5,000 km of traveling life.

(Options
	Name
Brak	e
Opti	onal cable exit direction (top)
	onal cable exit direction (right)
Opti	onal cable exit direction (left)
	onal cable exit direction (bottom)
Non	motor end specification

Vacuum port on opposite side



Туре

Cleanroom Type

trollers egrated Roc Type Mini



		С	1	1	2	2	3	3	4	4	5	5	6	6	7	7	8	8
		D	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
		E	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
		F	4	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18
		G	186.5	236.5	286.5	336.5	386.5	436.5	486.5	536.5	586.5	636.5	686.5	736.5	786.5	836.5	886.5	936.5
		Н	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
		J	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
		K	201.5	251.5	301.5	351.5	401.5	451.5	501.5	551.5	601.5	651.5	701.5	751.5	801.5	851.5	901.5	951.5
	Weight	Without brake	2.0	2.1	2.3	2.4	2.6	2.7	2.9	3.0	3.2	3.4	3.5	3.7	3.8	4.0	4.1	4.3
	(kg)	With brake	2.2	2.3	2.5	2.6	2.8	3.0	3.1	3.3	3.4	3.6	3.7	3.9	4.1	4.2	4.4	4.5
able Controllers																		
ries actuators can be operated	with the	controllers indi	cated be	elow. Se	elect the	e type a	accordir	ng to yo	our inte	nded a	pplicati	on.						
External																		

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page
Positioner type High-output specification	N	PCON-CA-42PI-①-2-0	Equipped with a high-output driver PIO control supported	512 points			—	
Pulse-train type High-output specification		PCON-CA-42PI-PL□-2-0	Equipped with a high-output driver Pulse-train input supported	_		Refer to P618	_	→ P607
Field network type High-output specification		PCON-CA-42PI-@-0-0 Equipped with a high-output driver Field network supported		768 points	DC24V		_	
Solenoid valve multi-axis type PIO specification	lui e		Positioner type based on PIO control, allowing up to 8 axes to be connected	3 points		Refer to		→ P563
Solenoid valve multi-axis type Network specification	tili -		Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572	_	→ P503
• ① indicates I/O type (NP/PN)	. * (1) indicat	tes number of axes (1 to 8). *	\mathbb{C} indicates field network specification symbol. * \Box indic	ates N (NPN specific	ation) or P	(PNP specificat	ion) symbo	l.

IAI

Applical RCP4 serie Pulse Motor

Servo Motor (200V)

RCP4CR-SA6C 452



rectautor opecaneations								
Lead and Payload (*) When operated at 0.2 G								
Model number	Lead (mm)	Connected controller	Maximum payload Horizontal (kg) Vertical (kg)		Stroke (mm)			
RCP4CR-SA7C-I-56P-24-①-P3-②-③	24	PCON-CA	20	3				
	24	MSEP-C	18	2 (*)	50~800			
	16	PCON-CA	40	8				
RCP4CR-SA7C-I-56P-16-①-P3-②-③		MSEP-C	35	5 (*)				
	8	PCON-CA	45	16	(every 50mm)			
RCP4CR-SA7C-I-56P-8-①-P3-②-③	°	MSEP-C	40	10 (*)	55.1111/			
		PCON-CA	45	25	1			
RCP4CR-SA7C-I-56P-4-①-P3-②-③	4	MSEP-C	40 (*)	15 (*)	1			
Cada avalanatian @Ctualia @Cable lanath) ations is						

Str	oke and	Max. S	peed	/Suct	ion V	olume	e by L	ead	(unit	: mm/s)
Lead (mm)	Connected controller	50~450 (every 50mm)	500 (mm)	550 (mm)	600 (mm)	650 (mm)	700 (mm)	750 (mm)	800 (mm)	Suction amount (Nℓ/min)
24	PCON-CA		120	00		1155	1010	890	790	00
24	MSEP-C		1000<800					890<800>	790	90
16	PCON-CA	98	0<840>		865<840>	750	655	580	515	70
10	MSEP-C		560							70
8	PCON-CA		490		430	375	325	290	255	40
0	MSEP-C				280				255	40
4	PCON-CA	24	5<210>		215<210>	185	160	145	125	30
4	MSEP-C				140				125	30
	The values in < > apply when the actuator is used vertically.									

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

①Stroke			
Stroke (mm)	Standard price	Stroke (mm)	Standard price
50	—	450	_
100	—	500	_
150	—	550	—
200	—	600	—
250	—	650	—
300	—	700	_
350	—	750	—
400	—	800	—

Cable Length		
Туре	Cable symbol	Standard price
	P (1m)	_
Standard	S (3m)	—
	M (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 cables for maintenance.

Actuator Specifications	
ltem	Description
Drive system	Ball screw, ø12mm, rolled C10
Positioning repeatability (*1)	±0.02mm [±0.03mm]
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treated
Allowable dynamic moment (*2)	Ma: 13.9 N•m, Mb: 19.9 N•m, Mc: 38.3 N•m
Allowable overhang	230mm or less in Ma, Mb and Mc directions
Grease	Low dust generation grease (urea grease) is used for both ball screws and guides.
Cleanness	Class 10 (0.1µm)
Ambient operating temperature/humidity	0 to 40°C, 85% RH or less (Non-condensing)

③Options			
Name	Option code	See page	Standard price
Brake	В	→ A-42	—
Optional cable exit direction (top)	CJT	→ A-42	—
Optional cable exit direction (right)	CJR	→ A-42	—
Optional cable exit direction (left)	CJL	→ A-42	—
Optional cable exit direction (bottom)	CJB	→ A-42	—
Non-motor end specification	NM	→ A-52	—
Vacuum port on opposite side	VR	→ A-58	_



Actuator Specifications

(*1) The value at lead 24 is shown in []. (*2) Based on 5,000 km of traveling life.

Cleanroom Type

trollers egrated Roc Type Mini



ΙΑΙ

to be connected

Network specification

* ① indicates I/O type (NP/PN). * ① indicates number of axes (1 to 8).

256 points

* 💷 indicates field network specification symbol. * 🗆 indicates N (NPN specification) or P (PNP specification) symbol



Clean-room Type

④ Options			
Name	Option code	See page	Standard price
Brake	В	→ A-42	—
Non-motor end specification	NM	→ A-52	—
Vacuum port on opposite side	VR	→ A-58	—

③Cable Length

50~600

(every 50mm)

~4

~8

~12

6

3

Standard price

~30

~30

Code explanation ① Stroke ② Applicable Controller ③ Cable length ④ Options *See page A-71 for details on push motion.

Туре	Cable symbol	Standard price
	P (1m)	—
Standard	S (3m)	—
	M (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)	

300

150

230

115

30

15

(Unit: mm/s)

12

6

3

* 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
Allowable static moment	Ma: 79.4 N•m, Mb: 79.4 N•m, Mc: 172.9 N•m
Allowable dynamic moment (*)	Ma: 14.7 N•m, Mb: 14.7 N•m, Mc: 33.3 N•m
Overhang load length	Ma direction: 300mm or less Mb/Mc directions: 300mm or less
Grease type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

Ma

(*) Based on 10,000km of traveling life. Direction of allowable load moment.

Overhang load length

455 RCP2CR-SS7C

RCP2CR-SS7C-I-42P-6-①-②-③-④

RCP2CR-SS7C-I-42P-3-①-②-③-④

①Stroke

①Stroke

(mm) 50/100 150/200 250/300 350/400 450/500 550/600



② Applicable Controlle	ers
------------------------	-----

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Colonaid Makes Trans		PMEC-C-42PI-①-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P537
Solenoid 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	hur	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to		
Solenoid valve multi-axis type Network specification		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-42PI-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-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		PCON-CA-42PI-10-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V		_	
Pulse Train Input Type (Differential Line Driver)	Ň	PCON-PL-42PI-①-2-0	Pulse train input type with differential line driver support	()			_	
Pulse Train Input Type (Open Collector)		PCON-PO-42PI-①-2-0	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

IAI

* 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.



Pulse Motor

(24V)

Motor 200V)

Linear Servo Motor

RCP2CR-SS7C 456



Lead and Payload (Note 1) Please note that the maximum load capacity decreases as the speed increases.									
Lead (mm)	Max. Load Capacity (Note 1) Horizontal (kg) Vertical (kg)		Stroke (mm)	Stroke Lead	50~800 (every 50mm)	~900 (mm)	~1000 (mm)	Suction Volume (Nl/min)	
20	~40	~5		20	666 <500>	625 <500>	515	80	
10	~50	~12	50~1000 (every 50mm)	10	333 <300>	310 <300>	255	40	
5	~55	~20		5	165 <150>	155 <150>	125	20	
	Lead (mm) 20	Lead (mm) Max. Load Cap Horizontal (kg) 20 ~40 10 ~50	Lead (mm) Max. Load Capacity (Note 1) Horizontal (kg) Vertical (kg) 20 ~40 ~5 10 ~50 ~12	Lead (mm)Max. Load Capacity (Note 1) Horizontal (kg)Stroke (mm)20~40~510~50~1250~1000 (every 50mm)	Lead (mm) Max. Load Capacity (Note 1) Stroke (mm) Stroke Stroke 20 ~40 ~5 20	Lead (mm) Max. Load Capacity (Note 1) Stroke (mm) Stroke (mm) Stroke (mm) Stroke (every 20 Stroke (every 50mm) Stroke 50mm) Stroke (every 50mm) Stroke (every 50mm) Stroke (every 50mm) Strok	Lead (mm) Max. Load Capacity (Note 1) Stroke (mm) Stroke (mm) Stroke (every 20 50-800 (every 50mm) -900 (mm) 20 ~40 ~5 20 666 625 (500) 20 <500> <500> 10 ~50 ~12 50~1000 (every 50mm) 10 333 (300) 300> <300> 5 ~55 ~20 5 165 155	Image: Constraint of the second capacity (rote 17) Stock Lead Stock (every 500m) (every 500m) Stock (every 500m) (every 500m)<	

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.

①Stroke	
① Stroke (mm)	Standard price
50/100	—
150/200	-
250/300	—
350/400	-
450/500	—
550/600	—
650/700	—
750/800	-
850/900	—
950/1000	—

Option code

В

NM

VR

③Cable Length		
Туре	Cable symbol	Standard price
	P (1m)	—
Standard	S (3m)	—
	M (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 cables for maintenance. tuator Specific

Actuator Specifications	
ltem	Description
Drive method	Ball screw, ø16mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Allowable static moment	Ma: 198.9 N•m, Mb: 198.9 N•m, Mc: 416.7 N•m
Allowable dynamic moment (*)	Ma: 36.3 N•m, Mb: 36.3 N•m, Mc: 77.4 N•m
Overhang load length	Ma direction: 450mm or less Mb/Mc directions: 450mm or less
Grease type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)
	· · · · · · · · · · · · · · · · · · ·

(*) Based on 10,000km of traveling life.

Overhang load length

Standard price

See page

→ A-42

→ A-52

→ A-58



Linear Servo Type Clean-room Type

④Options

Brake

Name

Non-motor end specification

Vacuum port on opposite side



	s and	weigi	it by 5	lioke																
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
L	435	485	535	585	635	685	735	785	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385
A	280	330	380	430	480	530	580	630	680	730	780	830	880	930	980	1030	1080	1130	1180	1230
В	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	950	1000
D	8	8	8	10	12	12	12	14	16	16	16	18	20	20	20	22	24	24	24	26
F	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0	50	100	150	0
N	1	1	1	2	2	2	2	3	3	3	3	4	4	4	4	5	5	5	5	6
Weight (kg)	7.0	7.5	8.0	8.5	9.0	9.6	10.1	10.6	11.2	11.7	12.3	12.7	13.3	13.8	14.4	14.9	15.4	15.9	16.5	17.0

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Color of Mahar Turo		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
olenoid valve multi-axis type PIO specification	line	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected	-	DC24V	Refer to	_	→ 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		P572		→ P503
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		Refer to P618	—	
Pulse-train type High-output specification		PCON-CA-56PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)			_	→ 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			_	
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)	8	PCON-PO-56PI-①-2-0	Pulse train input type with open collector support	. (—)		Refer to P628	_	→ P623
Serial Communication Type		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

Proof Type

Linear Servo Motor



Linear Servo Type
Clean- room Type
Splash- Proof Type

① Stroke (mm)	Standard price
50/100	—
150/200	—
250/300	—
350/400	—
450/500	—
550/600	—
650/700	—
750/800	—
850/900	—
950/1000	—

30

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

~20

~3

RCP2CR-HS8C-I-86P-30-①-P4-②-③

① Stroke

Option code	See page	Standard price
В	→ A-42	—
NM	→ A-52	—
VR	→ A-58	_
	B	$\begin{array}{c} \mathbf{B} \\ \mathbf{NM} \\ \mathbf{M} \\ \mathbf{A}-52 \end{array}$

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

1200

<750>

*The values enclosed in < > apply to vertical settings.

30

1000

<750>

800

<750>

180

(Unit: mm/s)

* See page A-59 for cables for maintenance.

50~1000

(every 50mm

Actuator Specifications	
ltem	Description
Drive method	Ball screw, ø16mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Allowable static moment	Ma: 198.9 N•m, Mb: 198.9 N•m, Mc: 416.7 N•m
Allowable dynamic moment (*)	Ma: 36.3 N•m, Mb: 36.3 N•m, Mc: 77.4 N•m
Overhang load length	Ma direction: 450mm or less Mb/Mc directions: 450mm or less
Grease type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

(*) Based on 10,000km of traveling life.

Ma

Direction of allowable load moment.



Ma



Reference page	Standard		Applicable Controllers The controller for the RCP2CR-HS8C type is a dedicated controller.								
() () () () () () () () () ()	price	Power supply capacity	Input power	Maximum number of positioning points	Features	Model number	External view	Name			
→ P607	_	6A max.	DC24V	512 points	Positioning is possible for up to 512 points	PCON-CFA-86PI-①-2-0		Positioner Type			
					for up to 512 points			① indicates I/O type.			

Note: • Please note that the encoder cable is a dedicated CFA-type cable. (See page A-59.) • Note that a simple absolute unit cannot be used.

Motor (24V)

Motor (200V)

Linear Servo Motor



Lead and Payload							
Deceleration Ratio	Maximum Gripping Force (N)	Stroke (mm)	Stroke Deceleration ratio	8 (mm)	Suction Volume (Nℓ/min)		
30	14 (7 per side)	8 (4 per side)	30	78	10		
	Ratio	Ratio Force (N)	Ratio Force (N) (mm)	Deceleration Ratio Maximum Gripping Force (N) Stroke (mm) Stroke 30 14 8 30	Ratio Force (N) (mm) Deceleration ratio (mm) 30 14 8 30 78		

e explanation 🕕 Applicable Controller 😰 Cable length ③ Options

8	-
Stroke (mm)	Standard price
Stroke	

②Cable Length		
Туре	Cable symbol	Standard price
Standard	P (1m)	_
(Robot Cables)	S (3m)	—
	M (5m)	_
	X06 (6m) ~ X10 (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 + 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
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

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	_

Puls Moto

Clean room Type



Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Solenoid Valve Type	100	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		→ P563
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		- 1202
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)		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-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 * (11) indicates number of axe) indicates I/O type (NP/PN) indicates field network sp). * (∏ indicates power sup ecification symbol. * □ indicates N (NPN sp					

Pulse Motor

Servo Motor (200V)





l Lead and Payload		Deceleration	on Ratio and Max. Speed		
Model number	Deceleration Ratio	Maximum Gripping Force (N)	Stroke (deg)	Stroke Deceleration ratio	180 (deg)
RCP2CR-GRLS-I-20P-30-180-①-②-③	30	6.4 (3.2 per side)	180 (90 per side)	30	600

Code explanation ① Applicable Controller ② Cable length ③ Options

Option code

NM

FB

SB

See page

→ A-52

→ A-43

→ A-55

Standard price

Stroke	
Stroke (deg)	Standard price
180	_

②Cable Length		
Туре	Cable symbol	Standard price
Standard	P (1m)	—
(Robot Cables)	S (3m)	—
(RODOL Cables)	M (5m)	—
	X06 (6m) ~ X10 (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

Item	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	0.1mm or less per side
Guide	-
Allowable static load moment	-
Weight	0.2kg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

Clean roon Type

Name

Non-motor end specification

3Options

Flange bracket

Shaft bracket



Weight (kg) 0.2

tandar price

_

_

_

→ P537

→ P547

→ P563

→ P607

ower-suppl

Refer to

P541

Refer to

P555

Refer to

P572

Refer to

P618

AC100V

AC200V

DC24V

3 points

256 points

512 points

(—)

768 points

(—)

64 points

1,500 points

	—			(210)
Refer to P628	_	→ P623		Servo
	_			
Refer to P671	_	→ P665		Linea
2401/1				

* 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.

RCP2CR series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

Easy-to-use controller, even for beginners

Simple controller operable with the same

Positioner type based on PIO control,

allowing up to 8 axes to be connected

Field network-ready positioner type,

Positioner type based on PIO control Equipped with a high-output driver

Equipped with a high-output driver

Pulse train input type with open collector

Supporting 7 major field networks Pulse train input type with differential line

Dedicated Serial Communication

Programmed operation is possible.

allowing up to 8 axes to be connected Equipped with a high-output driver

signal as a solenoid valve

Pulse-train input type

driver support

support

PMEC-C-20PI-①-2-①

PSEP-C-20PI-①-2-0

PCON-CA-20PI-①-2-0

PCON-CA-20PI-PL□-2-0

PCON-CA-20PI-10-0-0

PCON-PL-20PI-①-2-0

PCON-PO-20PI-①-2-0

PCON-SE-20PI-N-0-0

PSEL-CS-1-20PI-①-2-0

1

H

① Applicable Controllers

Solenoid Valve Type

Solenoid valve multi-axis type

PIO specification

Solenoid valve multi-axis type

Network specification

Positioner type High-output specification

Pulse-train type High-output specification

Field network type High-output specification

Pulse Train Input Type

(Differential Line Driver)

Pulse Train Input Type

(Open Collector)

Serial Communication Type

Program

Control Type



Can operate up to 2 axes





■ Lead and Payload ■ Stroke and Max. Speed/Suction Volume by Lea														
Model number	Motor output (W)	Lead (mm)	Max. Loac Horizontal (kg)		Rated thrust (N)	Stroke (mm)	Stroke Lead	50~400 (every 50mm)	Suction Volume (Nℓ/min)					
RCACR-SA4C-①-20-10-②-③-④-⑤		10	4	1	19.6		10	665	50					
RCACR-SA4C-①-20-5-②-③-④-⑤	20	5	6	2.5	39.2	50~400 (every 50mm)	5	330	30					
RCACR-SA4C-①-20-2.5-②-③-④-⑤		2.5	8	4.5	78.4		2.5	165	15					
Carda anglementian @ En anglem @ Charden		h. L. C.		a calata	Less sette			Code explanation @ Exceder @ Chapticable Controller @ Coble langth @ Options of the state of the						

Code explanation 🕕 Encoder 🖉 Stroke 🕲 Applicable Controller 🕘 Cable length 💿 Options *See page A-71 for details on push motion.

①Encoder type/②Stroke Standard price ①Encoder Type ②Stroke (mm) Absolute Incremental T A 50 100 150 200 250 300 350 400

Linear Servo Type Clean-room Type

trollers egrated Roc Type Mini

S Options			
Name	Option code	See page	Standard price
Brake	В	→ A-42	—
Foot bracket	FT	→ A-48	—
Home sensor	HS	→ A-50	—
Power-saving	LA	→ A-52	_
Non-motor end specification	NM	→ A-52	—
Slider spacer	SS	→ A-55	—
Vacuum port on opposite side	VR	→ A-58	_

④Cable Leng	ıth	
Туре	Cable symbol	Standard price
	P (1m)	_
Standard	S (3m)	_
	M (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 cables for maintenance.

Actuator Specifications

ltem	Description
Drive System	Ball screw, ø8mm, rolled C10
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Allowable static moment	Ma: 6.9 N·m, Mb: 9.9 N·m, Mc: 17.0 N·m
Allowable dynamic moment (*)	Ma: 2.7 N·m, Mb: 3.9 N·m, Mc: 6.8 N·m
Allowable overhang	120mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*) Based on 5,000km of traveling life

Directions of Allowable Load Moment Ма Mb

S.

Mo Ma

Overhang Load Length





RCACR 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	
Solenoid Valve Type	1 AL	AMEC-C-201())-())-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537	
Solehold valve type	1	ASEP-C-20I())-())-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			_	→ P547	
Solenoid valve multi-axis type PIO specification	hue	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected					→ P563	
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		(Standard) 1.3A rated 4.4A max. (Power-saving)		, L 202	
Positioner type		ACON-C-201	Positioning is possible for up to 512	512 points	DC24V		—		
Safety-Compliant Positioner Type		ACON-CG-201112-0	points	512 points			—		
Pulse Train Input Type (Differential Line Driver)		ACON-PL-201())-())-2-0	Pulse train input type with differential line driver support	()		1.3A rated 2.5A max.	_	→ P631	
Pulse Train Input Type (Open Collector)	2	ACON-PO-2011-11-2-0	Pulse train input type with open collector support	(—)			_		
Serial Communication Type		ACON-SE-20I(II)-N-0-0	Dedicated Serial Communication	64 points			—		
Program Control Type		ASEL-CS-1-20①①	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P675	
* This is for the single-axis ASEL. * ① indicates encoder type (I: incremental, A: absolute) * ① indicates I/O type (NP/PN). * ② indicates number of axes (1 to 8). * ② indicates field network specification symbol.									

③ Applicable Controllers

Clean room Type





A area shown above. (See dimensional drawing on the page to the right.)

- model). These values are the upper limits for the acceleration.
- (3) See page A-71 for details on push motion.

Actuator Specifications										
■ Lead and Payload ■ Stroke and Max. Speed/Suction Volume by Lead (Unit:mm/s)										
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)	Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)	Stroke Lead	50~450 (every 50mm)	500 mm	Suction Volume (Nℓ/min)
RCACR-SA5C-①-20-20-2-3-4-6		20	2	0.5	10.7	50~500 (every 50mm)	20	1300 <800>	1300 <800>	80
RCACR-SA5C-①-20-12-②-③-④-⑤	20	12	4	1	16.7		12	800	760	50
RCACR-SA5C-①-20-6-②-③-④-⑤	20	6	8	2	33.3		6	400	380	30
RCACR-SA5C-①-20-3-②-③-④-⑤		3	2	4	65.7		3	200	190	15
The values enclosed in < > and - + + + + + + + + + + + + + + + + + +										

Code explanation 🕦 Encoder 🙋 Stroke 🕲 Applicable Controller 🕘 Cable length 🜀 Options *See page A-71 for details on push motion. lues enclosed in < > apply to vertical set

①Encoder type/②Stroke

	Standard price							
@Stroke (mm)	①Encoder Type							
	Incremental	Absolute						
	l	Α						
50	_	_						
100	—	—						
150	_	—						
200	—	—						
250	_	—						
300	—	—						
350	_	—						
400		_						
450	_	_						
500								

5 Options			
Name	Option code	See page	Standard price
Brake	B	→ A-42	_
Foot bracket	FT	→ A-48	_
Home sensor	HS	→ A-50	_
Power-saving	LA	→ A-52	_
Non-motor end specification	NM	→ A-52	_
Vacuum port on opposite side	VR	→ A-58	_

Type	Cable symbol	Standard price
.76-	P (1m)	_
Standard	S (3m)	_
	M (5m)	
	X06 (6m) ~ X10 (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	_
	R01 (1m) ~ R03 (3m)	—
Robot Cable	R04 (4m) ~ R05 (5m)	
	R06 (6m) ~ R10 (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, ø10mm, rolled C10
Positioning repeatability (*1)	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Allowable static moment	Ma: 18.6 N·m, Mb: 26.6 N·m, Mc: 47.5 N·m
Allowable dynamic moment (*2)	Ma: 4.9 N·m, Mb: 6.8 N·m, Mc: 11.7 N·m
Allowable overhang	150mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*1)The specification in [] applies when the lead is 20mm. (*2) Based on 5,000km of traveling life

Directions of Allowable Load Moment Mb





Servo Motor (24V)

Linear Servo Type Clean-room Type

Roc Type





- (*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.
- SE : Stroke end ME : Mechanical end
- (*3) Reference position for calculating the moment Ma.

③ Applicable Controllers

(*4) If the actuator is secured using only the mounting holes provided on the top surface of the base, the base may twist to cause abnormal sliding of the slider, or may produce abnormal noise. Therefore, when using the mounting holes on the top surface of the base, keep the stroke at 300mm or less.

500 715.4 754.4
754.4
730.4
769.4
592
500
485
42
5
12
2.2
4

RCACK 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
Solenoid Valve Type		AMEC-C-20I())-())-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537
Solehold valve Type	1	ASEP-C-201())-())-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			—	→ P547
Solenoid valve multi-axis type PIO specification	1.1.1	MSEP-C-10	Positioner type based on PIO control, allowing up to 8 axes to be connected					→ P563
Solenoid valve multi-axis type Network specification	HH .	MSEP-C-10-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points	DC24V		—	→ P503
Positioner type		ACON-C-201())-())-2-0	Positioning is possible for up to 512	512 e cieta		(Standard) 1.3A rated	_	
Safety-Compliant Positioner Type		ACON-CG-201())-())-2-0	points	512 points		4.4A max. (Power-saving)	_	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-2010-00-2-0	Pulse train input type with differential line driver support			1.3A rated 2.5A max.	_	→ P631
Pulse Train Input Type (Open Collector)		ACON-PO-201())-())-2-0	Pulse train input type with open collector support	· (—)			_	
Serial Communication Type		ACON-SE-20I(II)-N-0-0	Dedicated Serial Communication	64 points	1		_	
Program Control Type		ASEL-CS-1-20①①2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P675
* This is for the single-axis ASEL. * (11) indicates I/O type (NP/PN).		* Enter the code "LA *			option is spee	cified.		

RCACR series actuators can be operated with the controllers indicated below. Select the type according to your intended application

Servo Motor (24V)



trollers grated Roo Type

Linear Servo Type Clean-room Type

Servo Motor (24V)



Actuator Specifications													
Lead and Payload							I	Stroke and	d Max. Speed	/Suction	Volume	by Lead	(Unit: mm/s)
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)		Rated thrust (N)	Stroke (mm)		Stroke Lead	50~450 (every 50mm)	500 mm	550 mm	600 mm	Suction Volume (Nℓ/min)
RCACR-SA6C-①-30-20-②-③-④-⑤		20	3	0.5	15.8			20	1300 <800		1160 <800>	990 <800>	80
RCACR-SA6C-①-30-12-②-③-④-⑤	- 30	12	6	1.5	24.2	50~600 (every 50mm)		12	800	760	640	540	50
RCACR-SA6C-①-30-6-②-③-④-⑤] .0	6	12	3	48.4			6	400	380	320	270	30
RCACR-SA6C-①-30-3-②-③-④-⑤		3	18	6	96.8			3	200	190	160	135	15

Code explanation 🕕 Encoder 🙆 Stroke ③ Applicable Controller ④ Cable length ⑤ Options *See page A-71 for details on push motion.

①Encoder type/②Strok

	Standard price							
@Stroke (mm)	①Encoder Type							
Colloke (mm)	Incremental	Absolute						
		A						
50	—	—						
100	_	—						
150	_	—						
200	—	—						
250	_	—						
300	—	—						
350	_	—						
400	-	—						
450	—	—						
500	—	—						
550	_	_						
600	—	—						

(5) Options

Name	Option code	See page	Standard price
Brake	В	→ A-42	—
Foot bracket	FT	→ A-48	—
Home sensor	HS	→ A-50	—
Power-saving	LA	→ A-52	—
Non-motor end specification	NM	→ A-52	—
Vacuum port on opposite side	VR	→ A-58	—

④Cable Leng	th	
Туре	Cable symbol	Standard price
	P (1m)	_
Standard	S (3m)	_
	M (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)	_

*The values enclosed in < > apply to vertical settings.

* See page A-59 for cables for maintenance.

Actuator Specifications

ltem	Description
Drive System	Ball screw, ø10mm, rolled C10
Positioning repeatability (*1)	±0.02mm [±0.03mm]
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Allowable static moment	Ma: 38.3 N·m, Mb: 54.7 N·m, Mc: 81.0 N·m
Allowable dynamic moment (*2)	Ma: 8.9 N·m, Mb: 12.7 N·m, Mc: 18.6 N·m
Allowable overhang	220mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Analytication and the strength of the second strength of the s	0 to 40%C 05% Dillow loss (New see densing)

Ambient operating temperature, humidity 0 to 40°C, 85% RH or less (Non-condensing) (*1)The specification in [] applies when the lead is 20mm. (*2) Based on 5,000km of traveling life

Mo

Directions of Allowable Load Moment Mb

Ma





- (*2)
- (*3) Reference position for calculating the moment Ma.

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Referenc page
Calaa sid) (akus Tura	1 AL	AMEC-C-30I())-())-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537
Solenoid Valve Type		ASEP-C-30I())-())-2-0	Simple controller operable with the same signal as a solenoid valve	3 points				→ P547
olenoid valve multi-axis type PIO specification	lune 1	MSEP-C-10-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected					→ P563
olenoid valve multi-axis type Network specification	tiii -	MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points			_	→ P50:
Positioner type	R.	ACON-C-30I())-())-2-0	Positioning is possible for up to 512	512 points		(Standard) 1.3A rated	—	
Safety-Compliant Positioner Type		ACON-CG-30I())-())-2-0	points	512 points	DC24V (Power-saving 1.3A rated (Power-saving 1.3A rated	—		
Pulse Train Input Type (Differential Line Driver)		ACON-PL-301())-())-2-0	Pulse train input type with differential line driver support	(—)		1.3A rated 2.2A max.	_	→ P631
Pulse Train Input Type (Open Collector)	2	ACON-PO-301())-())-2-0	Pulse train input type with open collector support	(—)			_	
Serial Communication Type	Í	ACON-SE-30110-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type	1	ASEL-CS-1-30①①	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P675

1.4

1.6 1.8

2 2.2

2.4 2.6 2.8

3

RCACR-SA6C 470

Weight (kg)

3.2 3.4 3.6

Servo Motor (24V)



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

Actuator Specifications										
■ Lead and Payload ■ Stroke and Max. Speed/Suction Volume by Lead										
Model number	Motor output (W)	Lead (mm)	Max. Loac Horizontal (kg)		Rated thrust (N)	Stroke (mm)	Stroke Lead	50~450 (every 50mm)	500 mm	Suction Volume (N&/min)
RCACR-SA5D-①-20-12-②-③-④-⑤		12	4	1	16.7		12	800	760	50
RCACR-SA5D-1-20-6-2-3-4-6	20	6	8	2	33.3	50~500 (every 50mm)	6	400	380	30
RCACR-SA5D-①-20-3-②-③-④-⑤		3	12	4	65.7		3	200	190	15
Carda angle gation @ En angle g @ Charles						0				(Unit: mm/s)

Code explanation ① Encoder ② Stroke ③ Applicable Controller ④ Cable length ⑤ Options *See page A-71 for details on push motion.

①Encoder type	/②Stroke				
	Standard price				
②Stroke (mm)	①Encoo	der Type			
Controller (mini)	Incremental	Absolute			
	l	Α			
50	—	—			
100	—	—			
150	—	—			
200	_	—			
250		_			
300	<u> </u>				
350					
400	—				
450					
500		_			

© Options							
Name	Option code	See page	Standard price				
Brake (cable exiting from end)	BE	→ A-42	—				
Brake (cable exiting from left)	BL	→ A-42	—				
Brake (cable exiting from right)	BR	→ A-42	—				
Foot bracket	FT	→ A-48	—				
Power-saving	LA	→ A-52	—				
Non-motor end specification	NM	→ A-52	—				
Vacuum port on opposite side	VR	→ A-58	—				

④Cable Leng	th	
Туре	Cable symbol	Standard price
	P (1m)	_
Standard	S (3m)	—
	M (5m)	_
Special length	X06 (6m) ~ X10 (10m)	—
	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

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
Allowable static moment	Ma: 18.6 N·m, Mb: 26.6 N·m, Mc: 47.5 N·m
Allowable dynamic moment (*)	Ma: 4.9 N·m, Mb: 6.8 N·m, Mc: 11.7 N·m
Allowable overhang	150mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*) Based on 5.000km of traveling life



471 RCACR-SA5D

Servo Motor (24V)

Cleanroom Type



- (*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) Reference position for calculating the moment Ma.

③ Applicable Controllers

If the actuator is secured using only the mounting holes provided on the top surface of the base, the base may twist to cause abnormal sliding of the slider, or may produce abnormal noise. Therefore, when using the mounting holes on the top surface of the base, keep the stroke at 300mm or less. (*4)

		Stroke	50	100	150	200	250	300	350	400	450	500
		Incremental	247.5	297.5	347.5	397.5	447.5	497.5	547.5	597.5	647.5	697.5
		Absolute	250	300	350	400	450	500	550	600	650	700
		A	172	222	272	322	372	422	472	522	572	622
		Μ	142	192	242	292	342	392	442	492	542	592
		N	50	100	100	200	200	300	300	400	400	500
		Р	35	85	85	185	185	285	285	385	385	485
		R	42	42	92	42	92	42	92	42	92	42
		U	-	1	1	2	2	3	3	4	4	5
		m	4	4	4	6	6	8	8	10	10	12
	١	Veight (kg)	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1

Power-supply

Reference

oom Type

Servo Motor (24V)

	view			positioning points	power	сарасіту	price	page
Solenoid Valve Type		AMEC-C-20I())-())-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537
Solehold valve type	1	ASEP-C-20I())-())-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			_	→ P547
Solenoid valve multi-axis type PIO specification	luie l	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected					→ P563
Solenoid valve multi-axis type Network specification		MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points			_	7 8303
Positioner type		ACON-C-20I())-())-2-0	Positioning is possible for up to 512	512 points	DC24V (Pc	(Standard) 1.3A rated	—	
Safety-Compliant Positioner Type		ACON-CG-20I())-())-2-0	points	512 points		4.4A max. (Power-saving)	—	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-20110-10-2-0	Pulse train input type with differential line driver support	. ()		1.3A rated 2.5A max.	_	→ P63
Pulse Train Input Type (Open Collector)		ACON-PO-201())-())-2-0	Pulse train input type with open collector support	(—)			_	
Serial Communication Type		ACON-SE-20I (II)-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		ASEL-CS-1-20①①	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P67
This is for the single-axis ASEL. (1) indicates I/O type (NP/PN).		ites encoder type (l: incrementa ites number of axes (1 to 8).		* Enter the code "LA *			option is spe	cified.

RCACR series actuators can be operated with the controllers indicated below. Select the type according to your intended application.







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

Actuator Specifications															
Lead and Payload															
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)		Rated thrust (N)	Stroke (mm)	Stroke Lead	50~450 (every 50mm)	500 mm	550 mm	600 mm	Suction Volume (Nℓ/min)			
RCACR-SA6D-①-30-12-②-③-④-⑤		12	6	1.5	24.2		12	800	760	640	540	50			
RCACR-SA6D-1-30-6-2-3-4-6	30	6	12	3	48.4	50~600 (every 50mm)	6	400	380	320	270	30			
RCACR-SA6D-①-30-3-②-③-④-⑤		3	18	6	96.8		3	200	190	160	135	15			
						1					(U	Jnit: mm/s)			

Code explanation ① Encoder ② Stroke ③ Applicable Controller ④ Cable length ⑤ Options *See page A-71 for details on push motion.

①Encoder type	/②Stroke	
	Standa	rd price
②Stroke (mm)	①Encoo	der Type
Stroke (mm)	Incremental	Absolute
		А
50		_
100		_
150	_	_
200	_	—
250		
300		
350		
400		
450		
500		
550		

(5) Options

Name	Option code	See page	Standard price
Brake (cable exiting from end)	BE	→ A-42	—
Brake (cable exiting from left)	BL	→ A-42	—
Brake (cable exiting from right)	BR	→ A-42	—
Foot bracket	FT	→ A-48	—
Power-saving	LA	→ A-52	—
Non-motor end specification	NM	→ A-52	_
Vacuum port on opposite side	VR	→ A-58	—

72		
	RCACR-SA6D	

④Cable Leng	th	
Туре	Cable symbol	Standard price
	P (1m)	_
Standard	S (3m)	_
	M (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 cables for maintenance.

Actuator 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
Allowable static moment	Ma: 38.3 N·m, Mb: 54.7 N·m, Mc: 81.0 N·m
Allowable dynamic moment (*)	Ma: 8.9 N·m, Mb: 12.7 N·m, Mc: 18.6 N·m
Allowable overhang	220mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

Ma

(*) Based on 5,000km of traveling life

Directions of Allowable Load Moment



Overhang Load Length

Servo Motor (24V)

Cleanroom Type



③ Applicable Controlle RCACR series actuators can		with the controllers indicate	d below. Select the type according to	your intended app	olication.			
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Solenoid Valve Type	A STATE	AMEC-C-30I())-())-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537
Solenoid valve Type	3	ASEP-C-30I())-())-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			_	→ P547
Solenoid valve multi-axis type PIO specification	hund	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected					→ P563
Solenoid valve multi-axis type Network specification		MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected 256 points				_	, 1 502
Positioner type		ACON-C-30I())-())-2-0	Positioning is possible for up to 512	512 points		(Standard) 1.3A rated	—	
Safety-Compliant Positioner Type		ACON-CG-30I())-())-2-0	points		DC24V	4.4A max. (Power-saving)	—	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-301 ⁽⁽⁾ - ⁽⁽⁾ -2-0	Pulse train input type with differential line driver support	()		1.3A rated 2.2A max.	_	→ P631
Pulse Train Input Type (Open Collector)	2	ACON-PO-301())-())-2-0	Pulse train input type with open collector support	()			_	
Serial Communication Type	Í	ACON-SE-301 ⁽¹⁾ -N-0-0	Dedicated Serial Communication	64 points			—	
Program Control Type		ASEL-CS-1-30①①2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P675
his is for the single-axis ASEL. i) indicates I/O type (NP/PN).		tes encoder type (I: incrementa tes number of axes (1 to 8).		* Enter the code "LA * ()) indicates field n			option is spee	cified.

Pulse Motor

Servo Motor (24V)

Motor (200V)

Linear Servo Motor



Actuator Specification

Lead and Payload						
Model number	Motor output (W)	Lead (mm)	Maximum Horizontal (kg)		Rated thrust (N)	Stroke (mm)
RCS3CR[RCS3PCR]-SA8C-①-100-30-②-③-④-⑤		30	8	2	56.6	
RCS3CR[RCS3PCR]-SA8C-①-100-20-②-③-④-⑤	100	20	20	4	84.9	
RCS3CR[RCS3PCR]-SA8C-①-100-10-②-③-④-⑤	100	10	40	8	169.8	50~
RCS3CR[RCS3PCR]-SA8C-①-100-5-②-③-④-⑤		5	80	16	339.7	1100 (every
RCS3CR[RCS3PCR]-SA8C-①-150-30-②-③-④-⑤		30	12	3	85.1	50mm)
RCS3CR[RCS3PCR]-SA8C-①-150-20-②-③-④-⑤	150	20	30	6	127.6	
RCS3CR[RCS3PCR]-SA8C-①-150-10-②-③-④-⑤		10	60	12	255.3	
Code explanation @Encoder tune @Stroke @Applicab	la Cantr	مالم	Cabl	alanath	(a) On	tions

umm)	750	800	850	900	950	1000	1050	1100	Suction Rate
00 1510									Nℓ/min
	1340	1190	1070	960	870	790	720	660	130 (160) (*)
10 1010	890	790	710	640	580	530	480	440	110
0 500	440	390	350	320	290	260	240	220	60
0 260	220	190	170	160	140	130	120	110	30
	0 500 0 260	0 500 440 0 260 220	0 500 440 390 0 260 220 190	0 500 440 390 350 0 260 220 190 170	0 500 440 390 350 320 0 260 220 190 170 160	0 500 440 390 350 320 290	0 500 440 390 350 320 290 260 0 260 220 190 170 160 140 130	0 500 440 390 350 320 290 260 240 0 260 220 190 170 160 140 130 120	500 440 390 350 320 290 260 240 220

Code explanation (1) Encoder type (2) Stroke (3) Applicable Controller (4) Cable length (6) Options

①Encoder Type / ②Stroke

5 Options

CE compliance

Brake

Name

Cables exit from back left

Cables exit from left side

Cables exit from back right

Cables exit from right side

Non-motor end specification

No suction joint specification

L-shaped suction joint

Through	пурел 🥲	JUOKE							
				Standar	d Prices				
		RCS3C	R-SA8C			RCS3PC	R-SA8C		
②Stroke		①Encoc	ler Type			①Encoc	ler Type		
(mm)			Abso	olute	Incren	nental	Absolute		
	Motor v	vattage	Motor v	wattage	Motor wattage		Motor wattage		
	100W	150W	100W	150W	100W	150W	100W	150W	
50/100	—	—	—	—	—	—	—	—	
150/200		—	—	—	—	—	—	—	
250/300	_	—	—	—	_	—	—	—	
350/400	_	—	—	—	_	—	—	—	
450/500	_	—	—	_	_	_	_	—	
550/600	_	—	—		_			—	
650/700	_	—	—	_	_	—	—	—	
750/800								—	
850/900	_	—	—	—	_	—	—	—	
950/1000	_	—	—	—	_	_	—	—	
1050/1100								—	

Page

→ A-41

→ A-41

→ A-41

→ A-41

→ A-42

→ A-42

→ A-52

→ A-58

→ A-58

Option code

A1E

A1S

A3E

A3S

В

CE

NM

VL

VN

475 RCS3CR/RCS3PCR-SABC

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

See page A-59 for cables for maintenance

Actuator Specifications RCS3PCR specifications are shown in []. (Other items are the same.) Standard Price Description Item Drive method Ball screw, ø16mm, rolled C10 [rolled C5] Positioning repeatability ±0.02mm [±0.01mm] 0.1mm [0.05mm] or less Lost motion Material: Aluminum, white alumite treatment Base Allowable static moment Ma: 113.5 N•m, Mb: 177 N•m, Mc: 266 N•m Allowable dynamic moment (*, Ma: 23.1 N•m, Mb: 32.9 N•m, Mc: 54.1 N•m Allowable overhang 390mm or less in Ma, Mb and Mc directions Low dust-raising grease is used (for both the ball screw and guide) Grease Cleanliness class Class 10 (0.1µm)

Direction of allowable load moment.



Clean-room Type

Ambient operating temperature/humidity 0 to 40°C, 85% RH max. (Non-condensing) (*) When the traveling life is assumed as 10,000km.



6

6.7 7.1

7.0

7.4 7.7

7.4

3 Applicable Controllers

2.8 3.1 3.4

3.2 3.5 3.8

100W without brake

with brake

without brake

with brake

Weight

(kg)

150W

RCS3CR-series actuators can be operated with the following controllers. Select an appropriate controller type according to your application.

5.2 5.6

5.5 5.9

5.8 6.2

6.1 6.4

6.5 6.8

3

5.0 5.3

4.6 4.9

4.3

44 47

4.0

4.1

4.6 4.9

4.4 4.7

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	H	SCON-CA-100①-NP-2-①	Actuators can be operated through the same control used for solenoid valves.	7 points			_	→ P643
Field network type		SCON-CA-150①-NP-2-①	Movement by numerical specification is supported.	768 points	Single-phase 100VAC	388 VA max.	_	, F043
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC	* 1-axis specification	_	
Positioner multi-axis, network type		MSCON-C-1-100①-⑦-0-① MSCON-C-1-150①-⑦-0-①	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase operated at 200VAC 150W (XSEL-P/Q/R/S 0NLY)		_	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-100①-NP-2-⑪ SSEL-CS-1-150①-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	PILIP	XSEL-@-1-100①-N1-EEE-2-® XSEL-@-1-150①-N1-EEE-2-®	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axes connected			_	→ P695

IAI

3.7 4.1

* This is for the single-axis MSCON, SSEL, and XSEL.
 * ① indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V).
 * ② indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V / 3: Three-phase 200V).
 * ③ indicates field network specification symbol.

Servo Motor (200V)

oom Type

8

8.3

8.0

8.2 8.5

8.6

8.8

8.9 9.2 9.1

9.5



Actuator Specifications																	
■ Lead and Payload Unit: mn																	
Model number	Motor output (W)	Lead (mm)	Maximum Horizontal (kg)		Rated thrust (N)	Stroke (mm)	Strok Lead	e 50 to 600 (every 50mm)	650	700	750	800	850	900	950	1000	Suctio Rate Nℓ/mi
RCS3CR[RCS3PCR]-SS8C-①-100-30-②-③-④-⑤	-	30	8	2	56.6		30	1800	1660	1460	1295	1155	1035	935	850	775	160 (190)
RCS3CR[RCS3PCR]-SS8C-①-100-20-②-③-④-⑤		20	20	4	84.9												(*)
RCS3CR[RCS3PCR]-SS8C-①-100-10-②-③-④-⑤		10	40	8	169.8	50 ~ 1000 (every	20	1200	1105	970	860	770	690	625	565	515	120
RCS3CR[RCS3PCR]-SS8C-①-100-5-②-③-④-⑤		5	80	16	339.7												
RCS3CR[RCS3PCR]-SS8C-①-150-30-②-③-④-⑤		30	12	3	85.1	50mm)	10 6	600	550	485	430	385	345	310	280	255	80
RCS3CR[RCS3PCR]-SS8C-①-150-20-②-③-④-⑤	150	20	30	6	127.6												
RCS3CR[RCS3PCR]-SS8C-①-150-10-②-③-④-⑤		10	60	12	255.3		5	300	275	240	215	190	170	150	140	125	30
Code explanation DErcoder type @ Stroke @ Applicable Controller @ Cable Jength @ Options (*) 160NU/min if the speed is 1,500mm/s or below, or 190NU/min if the speed exceeds 1,500mm/s																	

ceeds 1.500mm/s Code explanation ① Encoder type ② Stroke ③ Applicable Controller ④ Cable length ⑤ Options

①Encoder Type / ②Stroke

Standard Prices										
				RCS3PCR-SS8C						
	①Encod	ler Type		①Encoder Type						
Increr	nental	tal Absolute			nental	Absolute				
Motor v	wattage	Motor v	wattage	Motor	wattage	Motor wattage				
100W	150W	100W	150W	100W	150W	100W	150W			
—	_	_	_			_	—			
	_					_	_			
_	_	_	_	_			_			
_	_					_	—			
_	_	_	_			_	—			
	_						—			
_	_	_	_			_	_			
	_	—					—			
_	_	_	_			_	_			
	_		_	_	_	_	—			
	Increr Motor v	RCS3C ①Encoc Incremental Motor wattage	RCS3CR-SS8C ©Encoder Type Incremental Abso Motor wattage Motor v	Standar RCS3CR-SS8C ①Encoder Type Incremental Absolute Motor wattage Motor wattage	Standard Prices RCS3CR-SS8C	Standard Prices RCS3CR-SS8C RCS3PC ①Encoder Type ①Encoder Incremental Absolute Motor wattage Motor wattage	Standard Prices RCS3CR-SS8C RCS3PCR-SS8C ① Encoder Type ① Encoder Type Incremental Absolute Incremental Motor wattage Motor wattage Motor wattage			

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

Description

* See page A-59 for cables for maintenance.

6 Ontion

Linear Servo Type Clean-room Type

Servo Motor (200V)

Soptions			
Name	Option code	Page	Standard Price
Cables exit from back left	A1E	→ A-41	—
Cables exit from left side	A1S	→ A-41	—
Cables exit from back right	A3E	→ A-41	—
Cables exit from right side	A3S	→ A-41	—
Brake	В	→ A-42	—
CE compliance	CE	→ A-42	—
Non-motor end specification	NM	→ A-52	_
L-shaped suction joint specification	VL	→ A-58	_

Drive method	Ball screw, ø16mm, rolled C10 [rolled C5]
Positioning repeatability	±0.02mm [±0.01mm]
Lost motion	0.1mm [0.05mm] or less
Base	Material: Dedicated alloy steel
Allowable static moment	Ma: 198.9 N•m, Mb: 198.9 N•m, Mc: 416.7 N•m
Allowable dynamic moment (*)	Ma: 36.3 N•m, Mb: 36.3 N•m, Mc: 77.4 N•m
Allowable overhang	450mm or less in Ma, Mb and Mc directions
Grease	Low dust-raising grease is used (for both the ball screw and guide)
Cleanliness class	Class 10 (0.1µm)
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

(*) When the traveling life is assumed as 10,000km.

Direction of allowable load moment.







→ P655

→ P685

→ P695

RCS3CR/RCS3PCR-SS8C 478

Servo Motor (200V)

11111 * This is for the single-axis MSCON, SSEL, and XSEL.

tittet ····

multi-axis,

network type

Program

control type,

1 to 2 axes Program

control type,

1 to 8 axes

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

MSCON-C-1-100①-⑦-0-①

SSEL-CS-1-100①-NP-2-① SSEL-CS-1-150①-NP-2-①

XSEL-@-1-1500-N1-EEE-2-@

* \bigcirc indicates the encoder type (I: Incremental / A: Absolute). * \bigcirc indicates the XSEL type (J / K / P / Q / R / S).

150W

* 🖗 indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V / 3: Three-phase 200V). * 🖗 indicates field network specification symbol

200VAC

(XSEL-P/Q/R/S

ONLY)

256 points

20,000 points

Varies depending

on the number of

axes connected

IAI

specification is supported.

Program operation is supported.

Program operation is supported

Up to 8 axes can be operated.

Up to 2 axes can be operated.


Actuator Specifications									
Lead and Payload Stroke and Max. Speed/Suction Volume by Lead									
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)		Rated thrust (N)	Stroke (mm)	Stroke Lead	50~400 (every 50mm)	Suction Volume (Nℓ/min)
RCS2CR-SA4C-①-20-10-②-③-④-⑤		10	4	1	19.6		10	665	50
RCS2CR-SA4C-①-20-5-②-③-④-⑤	20	5	6	2.5	39.2	50~400 (every 50mm)	5	330	30
RCS2CR-SA4C-①-20-2.5-②-③-④-⑥		2.5	8	4.5	78.4		2.5	165	15
Code explanation DEncoder @Stroke @Applicable Controller @Cable length @Ontions_Stoppage 4.71 for details on puch motion (Unit: mm/s)									

①Encoder type/②Stroke

	Standard price						
@Stroke (mm)	①Encoder Type						
Stroke (mm)	Incremental	Absolute					
		Α					
50	—	—					
100	—	—					
150	_	—					
200	—	—					
250	_	_					
300		_					
350							
400		—					

© Options					
Name	Option code	See page	Standard price		
Brake	В	→ A-42	—		
CE compliance	CE	→ A-42	—		
Foot bracket	FT	→ A-48	—		
Home sensor	HS	→ A-50	—		
Non-motor end specification	NM	→ A-52	—		
Slider spacer	SS	→ A-55	—		
Vacuum port on opposite side	VR	→ A-58	—		

Type	Cable symbol	Standard price
туре		Stanuaru pric
	P (1m)	—
Standard	S (3m)	—
	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_
· · ·	X16 (16m) ~ X20 (20m)	—
	R01 (1m) ~ R03 (3m)	_
Robot Cable	R04 (4m) ~ R05 (5m)	_
	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	—
	R16 (16m) ~ R20 (20m)	_

* See page A-59 for cables for maintenance.

ltem	Description
Drive System	Ball screw, ø8mm, rolled C10
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Allowable static moment	Ma: 6.9 N·m, Mb: 9.9 N·m, Mc: 17.0 N·m
Allowable dynamic moment (*)	Ma: 2.7 N·m, Mb: 3.9 N·m, Mc: 6.8 N·m
Allowable overhang	120mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature humidity	0 to 40°C, 85% BH or less (Non-condensing)

Ĩ

 Ambient operating temperature, humidity
 0 to 40°C, 85% RH or less (Non-condensing)

 (*) Based on 5,000km of traveling life
 \scale and condensity

Directions of Allowable Load Moment





479RCS2CR-SA4C

Servo Motor (200V)

Clean-room Type



Dim	Dimensions and Weight by Stroke are heavier by 0.3kg.								
	Stroke	50	100	150	200	250	300	350	400
	Without brake	279	329	379	429	479	529	579	629
L	With brake	318	368	418	468	518	568	618	668
М		122	172	222	272	322	372	422	472
Ν		50	100	100	200	200	300	300	400
Р		35	85	85	185	185	285	285	385
R		22	22	72	22	72	22	72	22
	U	-	1	1	2	2	3	3	4
	m	4	4	4	6	6	8	8	10
Weight (kg)		0.7	0.8	0.9	1	1.1	1.2	1.3	1.4

Power supply capacity

106 VA max.

*Power supply

capacity will

controller, so

please refer to

the instruction

RCS2CR-SA4C

manual for

details.

on the

vary depending

Standard price

Reference

→ P643

→ P655

→ P685

→ P695

.80



Servo Motor (200V)

1111 * This is for the single-axis MSCON, SSEL, and XSEL

3Applicable Controllers

Positioner

mode

Solenoid

valve mode

Field network

type

Pulse-train

input control

type

Positioner

multi-axis.

network type

Program

control type,

1 to 2 axes Program

control type,

1 to 8 axes

External

* (i) indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V). * 🕅 indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V / 3: Three-phase 200V).

SCON-CA-20()-NP-2-())

MSCON-C-1-20()-()-0-())

SSEL-CS-1-20()-NP-2-())

* \bigcirc indicates the encoder type (I: Incremental / A: Absolute). * \bigcirc indicates the XSEL type (J / K / P / Q / R / S).

Maximum number of

512 points

7 points

768 points

(---)

256 points

20,000 points

Varies depending

on the number of

axes connected

* 💿 indicates field network specification symbol

Input

Single-phase

100VAC

Single-phase

200VAC

3-phase

200VAC (XSEL-P/Q/R/S

ONLY)



RCS2CR-series actuators can be operated with the following controllers. Select an appropriate controller type according to your application.

positioning points are

for solenoid valves.

Actuators can be operated

Movement by numerical

specification is supported.

Dedicated pulse-train input

Up to 6 axes can be operated. Movement by numerical

Program operation is supported.

Program operation is supported

Up to 8 axes can be operated.

Up to 2 axes can be operated.

specification is supported.

through the same control used

Up to 512

supported.

type



Lead and Payload Stroke and Max. Speed/Suction Volume by Lead (Unit: mm/s)									
Motor output (W)	Lead (mm)			Rated thrust (N)	Stroke (mm)	Stroke Lead	50~450 (every 50mm)	500 (mm)	Suction Volume (Nℓ/min)
	20	2	0.5	10.7		20	1300 <800>	1300 <800>	80
20	12	4	1	16.7	50~500 (every 50mm)	12	800	760	50
20	6	8	2	33.3		6	800	380	30
	3	2	4	65.7]	3	200	190	15
]	20	output (W) (mm) 20 20 20 6 3	output (W) (mm) Horizontal (kg)]	output (W) (mm) Horizontal(kg) Vertical(kg)] 20 2 0.5 20 2 4 1 6 8 2 3 2 4	output (W) (mm) Horizontal (kg) Vertical (kg) thrust (N)] 20 2 0.5 10.7 20 2 4 1 16.7 6 8 2 33.3 3 2 4 65.7	output (W) (mm) Horizontal (kg) Vertical (kg) thrust (N) (mm)]	output (W) (mm) Horizontal (kg) Vertical (kg) thrust (N) (mm) Lead] 20 2 0.5 10.7 20 20 12 10.5 10.7 12 10.5 10.7 50~500 12 12 12 13 16.7 50~500 6 33 3	output (W) (mm) Horizontal (kg) Vertical (kg) thrust (N) (mm) Lead (every 50mm)] 20 2 0.5 10.7 20 2800> 12 4 1 16.7 50~500 12 800 6 8 2 33.3 6 800 3 200	output (W) (mm) Horizontal (kg) vertical (kg) thrust (N) (mm) Lead (every 50mm) (mm)] 20 2 0.5 10.7 20 2800> 2800> 2800> 2800> 2800> 2800> 2800> 200 1300 2800> 200 12 800 760 20 380

①Encoder type/②Stroke

	Standard price						
②Stroke (mm)	①Encoder Type						
Cottoke (mm)	Incremental	Absolute					
	I	Α					
50	—	—					
100	—	—					
150	—	—					
200	—						
250	—	_					
300	—	—					
350	_	—					
400	_	—					
450	_	—					
500	_	_					

⑤ Options			
Name	Option code	See page	Standard price
Brake	В	→ A-42	—
CE compliance	CE	→ A-42	—
Foot bracket	FT	→ A-48	—
Home sensor	HS	→ A-50	—
Non-motor end specification	NM	→ A-52	—
Vacuum port on opposite side	VR	→ A-58	—

④Cable Leng	th	
Туре	Cable symbol	Standard price
	P (1m)	—
Standard	S (3m)	_
	M (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 cables for maintenance.

Actuator 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
Allowable static moment	Ma: 18.6 N·m, Mb: 26.6 N·m, Mc: 47.5 N·m
Allowable dynamic moment (*)	Ma: 4.9 N·m, Mb: 6.8 N·m, Mc: 11.7 N·m
Allowable overhang	150mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

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(*) Based on 5,000km of traveling life

Directions of Allowable Load Moment





Linear Servo Type Clean-room Type



3 Applicable Controllers

RCS2CR-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 512 points supported.					
Solenoid valve mode	E.	SCON-CA-20①-NP-2-①	Actuators can be operated through the same control used for solenoid valves.	7 points		106 VA max.	_	→ P643
Field network type		3CON-CA-20()-INF-2-())	Movement by numerical specification is supported.	768 points	Single-phase 100VAC	ase	_	7 P045
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC	vary depending on the controller, so	—	
Positioner multi-axis, network type		MSCON-C-1-20①-⑦-0-①	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase 200VAC (XSEL-P/Q/R/S 0NLY)	please refer to the instruction manual for	_	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-20①-NP-2-①	Program operation is supported. Up to 2 axes can be operated.	20,000 points		details.	_	→ P685
Program control type, 1 to 8 axes	Pillina .	XSEL	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axes connected			_	→ P695

IAI

* This is for the single-axis MSCON, SSEL, and XSEL.

* ① indicates the encoder type (I: Incremental / A: Absolute).
 * ⑩ indicates the XSEL type (J / K / P / Q / R / S).

* 🕅 indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V / 3: Three-phase 200V). * 🕅 indicates field network specification symbol.



(24V)

Roo Type Mini

Cleanroom Type

Servo Motor (200V)



■ Lead and Payload ■ Stroke and Max. Speed/Suction Volume by Lead (Unit: mm/s											
Motor output (W)	Lead (mm)			Rated thrust (N)	Stroke (mm)	Stroke Lead	50~450 (every 50mm)	500 mm	550 mm	600 mm	Suctio Volum (Nℓ/mi
	20	3	0.5	15.8		20			1160 <800>	990 <800>	80
30	12	6	1.5	24.2	50~600 (every 50mm)	12	800	760	640	540	50
50	6	12	3	48.4		6	400	380	320	270	30
	3	18	6	96.8		3	200	190	160	135	15
	output (W)	output (W) (mm) 20 30	output (W) (mm) Horizontal (kg) 20 3 30 12 6 12	output (W) (mm) Horizontal (kg) Vertical (kg) 20 3 0.5 30 12 6 1.5 6 12 3	output (W) (mm) Horizontal(kg) Vertica(kg) thrust (N) 20 3 0.5 15.8 30 12 6 1.5 24.2 6 12 3 48.4	output (W) (mm) Horizontal(kg) Vertica(kg) thrust (N) (mm) 20 3 0.5 15.8 12 6 1.5 24.2 50~600 (every 50mm) 30 6 12 3 48.4 50~600 (every 50mm) (every 50mm)	Motor output (W) Lead (mm) Max.Load Capacity Horizontal (kg) Rated Vertical (kg) Stroke thrust (N) Stroke (mm) Ead 20 3 0.5 15.8 20 20 12 20 12	Motor output (W) Lead (mm) Max.Load Capacity Horizontal (kg) Rated Vertical (kg) Stroke thrust (N) Stroke (mm) Stroke Lead 50~450 (every 50mm) 20 3 0.5 15.8 20 30 20 1300 <800	Motor output (W) Lead (mm) Max.Load Capacity Horizontal (kg) Rated Vertical (kg) Stroke (mm) Stroke (every 50mm) Soc-450 (every 50mm) Soc mm 20 3 0.5 15.8 20 30 20 1300 <800> 20 1300 <800> 20 1300 <800> 20 1300 <800> 20 1300 <800> 20 300 760 300 3	Motor output (W) Lead (mm) Max.Load Capacity Horizontal (kg) Rated Vertical (kg) Stroke thrust (N) Stroke (mm) 500-450 (every 50mm) 500 mm 550 mm 30 12 6 1.5 24.2 50~600 (every 50mm) 12 800 760 640 6 1.2 3 48.4 (every 50mm) 6 400 380 320	Motor output (W) Lead (mm) Max.Load Capacity Horizontal (kg) Rated Vertical (kg) Stroke thrust (N) Stroke (every 50mm) 500 550 600 30 20 3 0.5 15.8 20 3 0.5 15.8 30 12 6 1.5 24.2 50~600 12 800 760 640 540 6 12 3 48.4 every 50mm) 6 400 380 320 270

Code explanation ① Encoder ② Stroke ③ Applicable Controller ④ Cable length ⑤ Options *See page A-71 for details on push motion. *The values enclosed in < > apply to vertical settings.

①Encoder type/②Stroke

	Standard price						
②Stroke (mm)	①Encoder Type						
Stroke (mm)	Incremental	Absolute					
	I	Α					
50	—	—					
100	—	—					
150	_	—					
200	—	—					
250	_	—					
300	—	—					
350	_	—					
400	—	—					
450	—	—					
500	_	—					
550	_	_					
600	_	—					

⑤ Options

483

Name	Option code	See page	Standard price
Brake	В	→ A-42	—
CE compliance	CE	→ A-42	—
Foot bracket	FT	→ A-48	—
Home sensor	HS	→ A-50	—
Non-motor end specification	NM	→ A-52	—
Vacuum port on opposite side	VR	→ A-58	—

RCS2CR-SA6C

Туре	Cable symbol	Standard price
	P (1m)	_
Standard	S (3m)	_
	M (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 cables for maintenance

Actuator 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
Allowable static moment	Ma:38.3 N·m, Mb: 54.7 N·m, Mc: 81.0 N·m
Allowable dynamic moment (*)	Ma: 8.9 N·m, Mb: 12.7 N·m, Mc: 18.6 N·m
Allowable overhang	220mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*) Based on 5,000km of traveling life

Directions of Allowable Load Moment

<u>∖</u> n	Overhang Load	Length



3Applicable Controllers

RCS2CR-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	Ĥ	SCON-CA-30D())-NP-2-(1)	Actuators can be operated through the same control used for solenoid valves.	7 points		126 VA max.	_	→ P643
Field network type		3CON-CA-30D(()-NI-2-())	Movement by numerical specification is supported.	768 points	Single-phase 100VAC	*Power supply capacity will	_	7 1045
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC	vary depending on the controller, so	_	
Positioner multi-axis, network type		MSCON-C-1-30D①-②-0-①	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase 200VAC (XSEL-P/Q/R/S 0NLY)	please refer to the instruction manual for	_	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-30D①-NP-2-①	Program operation is supported. Up to 2 axes can be operated.	20,000 points	,	details.	_	→ P685
Program control type, 1 to 8 axes	Pilita	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

IAI

* This is for the single-axis MSCON, SSEL, and XSEL.

🕦 indicates the encoder type (I: Incremental / A: Absolute).







Actuator Specifications											
■ Lead and Payload ■ Stroke and Max. Speed/Suction Volume by Lea											
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)		Rated thrust (N)	Stroke (mm)	Stroke Lead	50~600 (every 50mm)	~700 (mm)	~800 (mm)	Suction Volume (Nℓ/min)
RCS2CR-SA7C-①-60-16-②-③-④-⑤		16	12	3	63.8		16	800	640	480	50
RCS2CR-SA7C-①-60-8-②-③-④-⑤	60	8	25	6	127.5	50~800 (every 50mm)	8	400	320	240	30
RCS2CR-SA7C-①-60-4-②-③-④-⑤] [4	40	12	255.0		4	200	160	120	10
ode explanation @Encoder @Stroke @Applicable Controller @Cable length @Options *500 page 4.71 for details on puch mation (Unit m								(Unit: mm/s			

①Encoder type/②Stroke Standard price ①Encoder Type ②Stroke (mm) Absolute Incremental A Т 50/100 150/200 250/300 350/400 450/500 550/600 650/700 750/800

(5) Options			
Name	Option code	See page	Standard price
Brake (cable exiting from end)	BE	→ A-42	
Brake (cable exiting from left)	BL	→ A-42	—
Brake (cable exiting from right)	BR	→ A-42	—
CE compliance	CE	→ A-42	—
Non-motor end specification	NM	→ A-52	—
Vacuum port on opposite side	VR	→ A-58	—

④Cable Leng		
Туре	Cable symbol	Standard price
	P (1m)	_
Standard	S (3m)	_
	M (5m)	—
Special length	X06 (6m) ~ X10 (10m)	_
	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

ltem	Description
Drive System	Ball screw, ø12mm, rolled C10
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Allowable static moment	Ma:50.4 N·m, Mb: 71.9 N·m, Mc: 138.0 N·m
Allowable dynamic moment (*)	Ma: 13.9 N·m, Mb: 19.9 N·m, Mc: 38.3 N·m
Allowable overhang	230mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*) Based on 5,000km of traveling life





Servo Moto (200V

Clean-room Type



RCS2CR ROBO Cylinder



3 Applicable Controllers

RCS2CR-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	Î	SCON-CA-60①-NP-2-①	Actuators can be operated through the same control used for solenoid valves.	7 points		210.1/4	_	→ P643
Field network type		SCON-CA-00()-INF-2-())	Movement by numerical specification is supported.	768 points	Single-phase 100VAC	218 VA max. *Power supply capacity will	_	7 P045
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC	agle-phase vary depending 200VAC on the controller so	_	
Positioner multi-axis, network type		MSCON-C-1-60①-⑦-0-①	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase 200VAC (XSEL-P/Q/R/S 0NLY)	please refer to the instruction manual for	_	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-60①-NP-2-①	Program operation is supported. Up to 2 axes can be operated.	20,000 points		details.	_	→ P685
Program control type, 1 to 8 axes	PIIITA	XSEL-@)-1-60①-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 XSEL.

• () indicates the encoder type (I: Incremental / A: Absolute). The first of the first of





Clean room Type



Actuator Specifications											
■ Lead and Payload ■ Stroke and Max. Speed/Suction Volume by Lead											
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)	Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)	Stroke Lead	50~500 (every 50mm)	~600 (mm)	Suction Volume (Nℓ/min)	
RCS2CR-SS7C-①-60-12-②-③-④-⑥	60	12	15	4	85	50~600 (every 50mm)	12	600	470	50	
RCS2CR-SS7C-①-60-6-②-③-④-⑤	60	6	30	8	170		6	300	230	30	
ode explanation @ Encoder @ Stroke @ Applicable Controller @ Cable length @ Options #conseq 6.71 for details on puch motion											

①Encoder type/②Stroke

5 Options

CE compliance

Brake

Name

Non-motor end specification

Vacuum port on opposite side

- //	-					
	Standard price					
@Stroke (mm)	①Encod	ler Type				
Cottoke (mm)	Incremental	Absolute				
		Α				
50/100	_	—				
150/200	—	—				
250/300						
350/400	—	—				
450/500	_	_				
550/600						

Option code

В

CE

NM

VR

See page Standard price

→ A-42

→ A-42

→ A-52

→ A-58

④Cable Leng	th	
Туре	Cable symbol	Standard price
Standard	P (1m)	—
	S (3m)	_
	M (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 cables for maintenance.

Actuator Specifications

ltem	Description
Drive System	Ball screw, ø10mm, rolled C10
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Special alloy steel
Allowable static moment	Ma: 79.4 N·m, Mb: 79.4 N·m, Mc: 172.9 N·m
Allowable dynamic moment (*)	Ma: 14.7 N·m, Mb: 14.7 N·m, Mc: 33.3 N·m
Allowable overhang	300mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*) Based on 10,000km of traveling life

Directions of Allowable Load Moment

Ma Mb Mc



Linear Servo Type Cleanroom Type

trollers egrated Roc Type Mini



RCS2CR ROBO Cylinder



3Applicable Controllers

RCS2CR-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	Single-phase 100VAC Single-phase 200VAC			_	
Solenoid valve mode	H	thr	Actuators can be operated through the same control used for solenoid valves.	7 points			_	→ P643	
Field network type		3CON-CA-00()-NI-2-1()	Movement by numerical specification is supported.	768 points		218 VA max. *Power supply capacity will	_	7 F045	
Pulse-train input control type			Dedicated pulse-train input type	(—)		vary depending on the controller, so	—		
Positioner multi-axis, network type		MSCON-C-1-60①-⑦-0-①	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase 200VAC (XSEL-P/Q/R/S 0NLY)	please refer to the instruction manual for	_	→ P655	
Program control type, 1 to 2 axes		SSEL-CS-1-60①-NP-2-①	Program operation is supported. Up to 2 axes can be operated.	20,000 points		details.	_	→ P685	
Program control type, 1 to 8 axes	PTTPA	XSEL-@-1-60①-N1-EEE-2-@	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axes connected			_	→ P695	

IAI

* This is for the single-axis MSCON, SSEL, and XSEL.

• () indicates the encoder type (I: Incremental / 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 / 3: Three-phase 200V). * (ii) indicates field network specification symbol.







Actuator Specifications										
■ Lead and Payload ■ Stroke and Max. Speed/Suction Volume by Lead										Volume by Leac
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)		Rated thrust (N)	Stroke (mm)	Stroke Lead	50~450 (every 50mm)	500 (mm)	Suction Volume (Nℓ/min)
RCS2CR-SA5D-①-20-12-②-③-④-⑤		12	4	1	16.7	50~500 (every 50mm)	12	800	760	50
RCS2CR-SA5D-①-20-6-②-③-④-⑤	20	6	8	2	33.3		6	400	380	30
RCS2CR-SA5D-①-20-3-②-③-④-⑤		3	12	4	65.7		3	200	190	15
ada avalanation @Encoder @Stroke	Applicab	la Can	trollor a	Cablel	nath a	Intions *c	4 74 6	1.1.1		(Unit: mm/

Code explanation DEncoder CStroke CAPPlicable Controller CAPPlicable length CAPPlicable *See page A-71 for details on push motion.

①Encoder type/②Stroke

	Standard price						
@Stroke (mm)	①Encoder Type						
	Incremental	Absolute					
	1	A					
50	_	—					
100	_	—					
150	_	—					
200	_	—					
250	_	—					
300	_	—					
350	_	—					
400	_	—					
450	_	—					
500	_	—					

(5) Options

Name	Option code	See page	Standard price
Brake (cable exiting from end)	BE	→ A-42	—
Brake (cable exiting from left)	BL	→ A-42	—
Brake (cable exiting from right)	BR	→ A-42	—
CE compliance	CE	→ A-42	—
Non-motor end specification	NM	→ A-52	—
Vacuum port on opposite side	VR	→ A-58	—

Туре	Cable symbol	Standard price
	P (1m)	—
Standard	S (3m)	—
	M (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	bles for maintenance.	

④Cable Length

Actuator 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
Allowable static moment	Ma:18.6 N·m, Mb: 26.6 N·m, Mc: 47.5 N·m
Allowable dynamic moment (*)	Ma: 4.9 N·m, Mb: 6.8 N·m, Mc: 11.7 N·m
Allowable overhang	150mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

()

(*) Based on 5,000km of traveling life Directions of Allowable Load Moment

Ma Mb Mc

Cleanroom Type

trollers grated Roc Type Mini





* Adding a brake will increase the actuator's overall length by 26.5mm (39.8mm with the cable coming out the end), and its weight by 0.3kg.

3Applicable Controllers

RCS2CR-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	Â	thro	Actuators can be operated through the same control used for solenoid valves.	7 points	Single-phase 100VAC Single-phase 200VAC	00VAC *Power supply capacity will vary depending 00VAC on the controller so	1001/4	—	→ P643
Field network type		3CON-CA-20()-INF-2-())	Movement by numerical specification is supported.	768 points			_	- 1043	
Pulse-train input control type			Dedicated pulse-train input type	(—)			vary depending	—	
Positioner multi-axis, network type		MSCON-C-1-20①-⑦-0-①	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	Controller, so 3-phase 200VAC (XSEL-P/Q/R/S 0NLY) Controller, so please refer to the instruction manual for		_	→ P655	
Program control type, 1 to 2 axes		SSEL-CS-1-20①-NP-2-①	Program operation is supported. Up to 2 axes can be operated.	20,000 points		details.	_	→ P685	
Program control type, 1 to 8 axes	Pilita	XSEL	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axes connected			_	→ P695	

IAI

R

m Weight (kg) 1.5

1.6 1.7

1.8 1.9

2.0 2.1 2.2 2.3 2.5

 * This is for the single-axis MSCON, SSEL, and XSEL.
 * ① indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V).
 * ② indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V / 3: Three-phase 200V).
 * ③ indicates field network specification symbol. * \bigcirc indicates the encoder type (I: Incremental / A: Absolute). * \bigcirc indicates the XSEL type (J / K / P / Q / R / S).



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Actuator Specifications												
■ Lead and Payload ■ Stroke and Max. Speed/Suction Volume by Lead												
Model number	Motor output (W)	Lead (mm)	Max. Loac Horizontal (kg)		Rated thrust (N)	Stroke (mm)	Stroke Lead	50~450 (every 50mm)	500 mm	550 mm	600 mm	Suction Volume (N&/min)
RCS2CR-SA6D-①-30-12-②-③-④-⑤		12	6	1.5	24.2		12	800	760	640	540	50
RCS2CR-SA6D-①-30-6-②-③-④-⑤	30	6	12	3	48.4	50~600 (every 50mm)	6	400	380	320	270	30
RCS2CR-SA6D-①-30-3-②-③-④-⑤		3	18	6	96.8		3	200	190	160	135	15
Code symptometrics @Examples @Analiseship Controller @Code Langth @Ontions 75												

①Encoder type/②Stroke

	Standa	rd price				
@Stroke (mm)	①Encoder Type					
	Incremental	Absolute				
	I	A				
50	—	—				
100	—	—				
150	—	—				
200	—	—				
250	—	—				
300	—	—				
350	—	—				
400	—	—				
450	—	—				
500	—	—				
550						
600	_	_				

00	pulons

Name	Option code	See page	Standard price	
Brake (cable exiting from end)	BE	→ A-42	—	
Brake (cable exiting from left)	BL	→ A-42	—	
Brake (cable exiting from right)	BR	→ A-42	—	
CE compliance	CE	→ A-42	—	
Non-motor end specification	NM	→ A-52	—	
Vacuum port on opposite side	VR	→ A-58	—	

④Cable Length							
Туре	Cable symbol	Standard price					
	P (1m)	—					
Standard	S (3m)	_					
	M (5m)	_					
Special length	X06 (6m) ~ X10 (10m)	_					
	X11 (11m) ~ X15 (15m)	_					
	X16 (16m) ~ X20 (20m)	—					
	R01 (1m) ~ R03 (3m)	—					
Robot Cable	R04 (4m) ~ R05 (5m)	—					
	R06 (6m) ~ R10 (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, ø10mm, rolled C10
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Allowable static moment	Ma:38.3 N·m, Mb: 54.7 N·m, Mc: 81.0 N·m
Allowable dynamic moment (*)	Ma: 8.9 N·m, Mb: 12.7 N·m, Mc: 18.6 N·m
Allowable overhang	220mm or less in Ma, Mb and Mc directions
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*) Based on 5,000km of traveling life Directions of Allowable Load Moment

Mb Mo





Clean-room Type



3Applicable Controllers

RCS2CR-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	B	SCON-CA-30D①-NP-2-①	Actuators can be operated through the same control used for solenoid valves.	7 points	Single-phase 100VAC	126 VA max. *Power supply capacity will	_	→ P643
Field network type			Movement by numerical specification is supported.	768 points			_	, LO42
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC on the controller so		_	
Positioner multi-axis, network type		MSCON-C-1-30D①-②-0-①	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase 200VAC (XSEL-P/Q/R/S 0NLY)	-phase please refer to the instruction manual for		→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-30D①-NP-2-①	Program operation is supported. Up to 2 axes can be operated.	20,000 points		details.	_	→ P685
Program control type, 1 to 8 axes	PTTP-	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

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* This is for the single-axis MSCON, SSEL, and XSEL.
 * ① indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V).
 * ② indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V / 3: Three-phase 200V).
 * ③ indicates the network specification symbol.

