## RCAW ROBO Cylinder



## **Actuator Specifications**

Lead and Payload						
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)	d Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)
RCAW-①-②-20-12-③-④-⑤-⑥		12	3.0	1.0	18.9	
RCAW-①-②-20-6-③-④-⑤-⑥	20	6	6.0	2.0	37.7	
RCAW-①-②-20-3-③-④-⑤-⑥		3	12.0	4.0	75.4	50~300
RCAW-①-②-30-12-③-④-⑤-⑥		12	4.0	1.5	28.3	(every 50mm
RCAW-11-22-30-6-33-44-55-66	30	6	9.0	3.0	56.6	
RCAW-①-②-30-3-③-④-⑥-⑥		3	18.0	6.5	113.1	
						_

	Stroke	and	Maximum	Speed
--	--------	-----	---------	-------

5	Stroke Lead	50~300 (every 50mm)
	12	600
	6	300
0 1m)	3	150
		(Unit: mm/s)

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

@Encoder/ @Stroke

6 Options

Clevis bracket (\*3)

Rear mounting plate (\*3)

Trunnion bracket (front) (\*4)

Trunnion bracket (rear) (\*4)

Brake (\*1)

Name

C LICOULI / STICKE										
	Standard price									
	RA4C/RA4D Stroke ②Encoder Type		RA4R							
③Stroke			@Encoder Type							
(mm)	Incren	nental	Absolute		Incremental		Absolute			
	Motor pov	ver output	Motor power output		Motor power output		Motor power output			
	20W 30V		20W	30W	20W	30W	20W	30W		
50	—	—	—	—	—	—	—	-		
100	—	—	_	—	—	—	—	_		
150	—	—	_	_	—	_	—	_		
200	—	—	—	—	—	—	—	—		
250	—	—	—	—	—	—	—	-		
300		_	_	_	_	_	_			

В

FL

FT

HS

LA

NJ

NM

OR

RP

TRF

TRR

Option code | See page | Standard price

→ A-42

→ A-45

→ A-49

→ A-50

→ A-52

→ A-53

→ A-52

→ A-53

→ A-54

→ A-57

→ A-58

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

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

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

olash Proo Type



RCAW series actuators can b	e operated v	with the controllers indicated	d below. Select the type according to y	our intended app	lication.
Name	External view	Model number	Features	Maximum number of positioning points	Input power
Solenoid Valve Type	AMEC-C-30I())-())-2-1 begi		Easy-to-use controller, even for beginners	troller, even for	
Soleholu valve type	1	ASEP-C-20I①-①-2-0 ASEP-C-30I①-①-2-0 Simple controller operable with the same signal as a solenoid valve	3 points		
Solenoid valve multi-axis type PIO specification	lune l	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected		
Solenoid valve multi-axis type Network specification		MSEP-C-10	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points	

\* This is fo \* ()) indica

Solenoid Valve Type	**	AMEC-C-30I	beginners	-	AC100V	2.4A rated	—	→ P537
Solenoid valve Type	3	ASEP-C-20I(1)-(11)-2-0 ASEP-C-30I(11)-(11)-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			_	→ P547
Solenoid valve multi-axis type PIO specification	hurt	MSEP-C-10-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected	256 points		(Standard) 20W 1.3A rated		→ P563
Solenoid valve multi-axis type Network specification		MSEP-C-10-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected				_	- 1202
Positioner type		ACON-C-20I(1)-(11)-2-0 ACON-C-30I(11)-(11)-2-0	Positioning is possible for up to 512	512 points		4.4A max. 30W 1.3A rated 4.4A max.	—	
Safety-Compliant Positioner Type		ACON-CG-201(1)-(11)-2-0 ACON-CG-301(1)-(11)-2-0	points	512 points	DC24V	(Power-saving)	—	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-201())-())-2-0 ACON-PL-301())-())-2-0	Pulse train input type with differential line driver support	( )		20W 1.3A rated 2.5A max.	_	→ P631
Pulse Train Input Type (Open Collector)	2	ACON-PO-201(1)-(11)-2-0 ACON-PO-301(1)-(11)-2-0	Pulse train input type with open collector support	. ()		2.3A max. 30W 1.3A rated 2.2A max.	_	
Serial Communication Type		ACON-SE-20100-N-0-0 ACON-SE-30100-N-0-0	Dedicated Serial Communication	64 points		2.27 Шах.	—	
Program Control Type		ASEL-CS-1-20①①-@-2-0 ASEL-CS-1-30①①-@-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P675
This is for the single-axis ASEL. ① indicates I/O type (NP/PN).	n ()) when the pow work specification		on is specified.					

Servo Motor (24V)

2 4 A rated