

Power-saving



Technical References

P. A-**5** 

- (1) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 2mm-lead model, or when used vertically). This is the upper limit of the acceleration.
- (2) When using the Lead screw model, please ensure that your usage is appropriate for its characteristics. (See Pre-42 for more information.)

### **Actuator Specifications**

■ Lead and Load Capacity								
Model	Motor Output (W)	Feed Screw	Lead (mm)	Max. Load Horizontal (kg)	Capacity Vertical (kg)	Rated Thrust (N)	Positioning Repeatability (mm)	Stroke (mm)
RCA2-TWA4N-I-20-6-30-①-②-③			6	2	0.5	33.8		
RCA2-TWA4N-I-20-4-30-10-2-3	20	Ball screw	4	3	0.75	50.7	±0.02	30 (Fixed)
	1							

	Output (W)	Screw	(mm)	Horizontal (kg)	Vertical (kg)	Thrust (N)	(mm)	(mm)
RCA2-TWA4N-I-20-6-30-1-2-3			6	2	0.5	33.8		
RCA2-TWA4N-I-20-4-30-①-②-③	20	Ball screw	4	3	0.75	50.7	±0.02	30 (Fixed)
RCA2-TWA4N-I-20-2-30-①-②-③			2	6	1.5	101.5		
RCA2-TWA4N-I-20-6S-30-1-2-3			6	0.25	0.125	19.9		
RCA2-TWA4N-I-20-4S-30-1 - 2 - 3	20	Lead screw	4	0.5	0.25	29.8	±0.05	30 (Fixed)
RCA2-TWA4N-I-20-2S-30-1-2-3			2	1	0.5	59.7		
Legend ① Compatible controller ② Cable length	3 Optio	ns						

■ Stroke and Maximum Speed						
Lead	Stroke	30 (mm)				
	6	270 <220>				

	Lead		(mm)
	We	6	270 <220>
Ball screw			200
	B	2	100
A 6			220
	Lead screw	4	200
	řě	2	100
	* The v	alues enclosed i	n "< >" apply to vertical usage. (Unit: mm/s)

Controllers
Integrated

Rod
Type

Mini

Standard

Controllers
Integrated

Table/Arm
//Flat Type

Mini

Standard

Gripper/
Rotary Type

Stroke (mm)	Standard Price				
Stroke (IIIII)	Feed Screw	Screw			
	Ball Screw Model	Lead Screw Model			
30	-	-			

Stroke List

Stroke (mm)	Standard Price				
	Feed Screw				
	Ball Screw Model	Lead Screw Model			
30	-	-			

## ② Cable List

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

<sup>\*</sup> The RCA2 comes standard with a robot cable.

Name	Option Code	See Page	Standard Price
Connector cable exit direction	K2	→ A-32	_
Power-saving	LA	→ A-32	-

# Actuator Specifications

Item	Description			
Drive System	Ball screw/Lead screw ø6mm C10 grade			
Lost Motion	Ball screw: 0.1mm or less/Lead screw: 0.3mm or less (initial value)			
Frame	Material: Aluminum (white alumite treated)			
Allowable Dynamic Moment (Note)	Ma: 9.9 N·m Mb: 9.9 N·m Mc: 12.2 N·m			
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)			
Service Life Lead Screw Model	Horizontal: 10 million cycles Vertical: 5 million cycles			

(Note) Based on a 5,000 km service life set for the guide.

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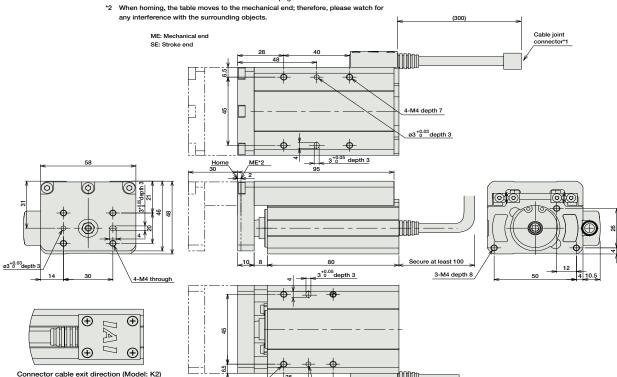
<sup>\*</sup> See page A-39 for cables for maintenance.

\* Rotates 180° with respect to the standard model.



\*1 The motor-encoder cable is connected here. See page A-39 for details on cables.

4-M4 depth 8



ø3<sup>+0.03</sup>depth 3

### ■ Dimensions/Weight by Stroke

Stroke	30
Weight (kg)	0.65

The RCA2 serie	es actuators car	operate with the cor	trollers below. Select the controller ac	cording to your usag	ge.			
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Solenoid Valve Type	A. C.	AMEC-C-20(f)-NP-2-1 Easy-to-use controller, even for beginners AC100V 2.4A rated	-	→ P477				
Solenoid valve Type	8	ASEP-C-20I①-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			-	D407
Splash-Proof Solenoid Valve Type	D	ASEP-CW-20I①-NP-2-0	No homing necessary with simple absolute type.				-	→ P487
Positioner Type	ACON-C-20I①-NP-2-0	Positioning is possible for up to 512 points	512 points			-		
Safety-Compliant Positioner Type		ACON-CG-201①-NP-2-0	1 Gattorning is possible for up to 512 points	C.2 points		(Standard) 1.3A rated 4.4A max. (Power-saving) 1.3A rated 2.5A max.	-	→ P535
Pulse Train Input Type (Differential Line Driver)	Ó	ACON-PL-20I①-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V		-	
Pulse Train Input Type (Open Collector)	r	ACON-PO-201①-NP-2-0	Pulse train input type with open collector support	(-)			-	
Serial Communication Type		ACON-SE-20I①-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RACON-20①	Dedicated to field network	768 points			-	→ P503
Program Control Type		ASEL-C-1-20I①-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P567

IAI

RCA2-TWA4N **296** 



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

PMEC //AMEC PSEP //ASEP ROBO NET ERC2 PCON ACON SCON PSEL ASEL