

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 page Pre-42 for more

## Actuator Specifications

Actuator opeomounone								
■ Lead and Load Capacity								
Model	Motor Output (W)	Feed Screw	Lead (mm)	Max. Load Horizontal (kg)		Rated Thrust (N)	Positioning Repeatability (mm)	Stroke (mm)
RCA2-TCA4N-I-20-6-30-①-②-③			6	2	0.5	33.8		
RCA2-TCA4N-I-20-4-30-①-②-③	20	Ball screw	4	3	0.75	50.7	±0.02	30 (Fixed)
RCA2-TCA4N-I-20-2-30-①-②-③			2	6	1.5	101.5		
RCA2-TCA4N-I-20-6S-30-①-②-③			6	0.25	0.125	19.9		
RCA2-TCA4N-I-20-4S-30-①-②-③	20	Lead screw	4	0.5	0.25	29.8	±0.05	30 (Fixed)
RCA2-TCA4N-I-20-2S-30-1 -2 -3			2	1	0.5	59.7		

	>	6	270 <220>
	Ball screw	4	200
<b>1</b>	ñ	2	100
	6 22	220	
	Lead screw	4	200
l I.	Ĕ	0	100

(mm)

Stroke and Maximum Speed

\*The values enclosed in \*< >\* apply to vertical usage. (Unit: mm/s)

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

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

Legend ① Compatible controller ② Cable length ③ Options

## ② Cable List

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

\* The RCA2 comes standard with a robot cable.

3 Option List			
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: 3.3 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.

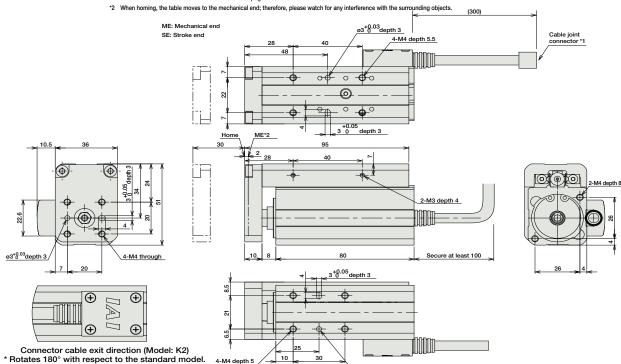
RCA2-TCA4N



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



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



ø3 <sup>+0.03</sup> depth 3

## ■ Dimensions/Weight by Stroke

Stroke	30
Weight (kg)	0.48

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
		AMEC-C-20I①-NP-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P477
Solenoid Valve Type	1	ASEP-C-20I①-NP-2-0	Operable with same signal as solenoid valve.  Supports both single and double solenoid types.  No homing necessary with simple absolute type.	3 points	DC24V	(Standard) 1.3A rated 4.4A max. (Power-saving) 1.3A rated 2.5A max.	-	→ P487
Splash-Proof Solenoid Valve Type	p	ASEP-CW-201①-NP-2-0					-	
Positioner Type	Í	ACON-C-20I①-NP-2-0	Positioning is possible for up to 512 points 5	512 points			-	
Safety-Compliant Positioner Type		ACON-CG-201①-NP-2-0					-	
Pulse Train Input Type Differential Line Driver)	Ó	ACON-PL-20I①-NP-2-0	Pulse train input type with differential line driver support				-	→ P535
Pulse Train Input Type (Open Collector)	è	ACON-PO-201①-NP-2-0	Pulse train input type with open collector support	(-)			-	
Serial Communication Type	Í	ACON-SE-20I①-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RACON-20①	Dedicated to field network	768 points			-	→ P503

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RCA2-TCA4N **292** 

\* This is for the single-axis ASEL.
\* ① is a placeholder for the code "LA" if the power-saving option is specified.



Controllers integrated

Rod Type

Mini

Standard

Controllers integrated

Table/Arm //Flat Type

Mini

Standard