RCA2-TWA4N ROBO Cylinder Mini Table Type Short-Length Wide Model 58mm Width 24V Servo Motor Ball Screw/Lead Screw Models

motor

■ Configuration: RCA2- TWA4N-

* See page Pre-35 for an explanation of the naming convention.

Туре I: Incremental
* The simple

20: 20W Servo

absolute encoder

is also considered type "I".

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6:6mm ball screw 30:30mm 4:4mm ball screw

2:2mm ball screw 6S: 6mm lead screw 4S: 4mm lead screw 2S: 2mm lead screw

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A1: ACON RACON ASEL A3: AMEC

N: None P:1m S : 3m M : 5m

K2: Connector cable exit direction LA: Power-saving

ASEP X □□: Custom

Power-saving



Technical References



- (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)	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)
RCA2-TWA4N-I-20-2-30-10-20-3			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		

■ Stroke an	d Maximum Speed
Stroke	30
Lead	(mm)

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

Stroke List

Power-saving

Stroko (mm)	Standard Price			
Stroke (IIIII)	Stroke (mm) Feed Screw	Screw		
	Ball Screw Model	Lead Screw Model		
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Legend ① Compatible controller ② Cable length ③ Options

② Cable List

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

- * The RCA2 comes standard with a robot cable.
- * See page A-39 for cables for maintenance.

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

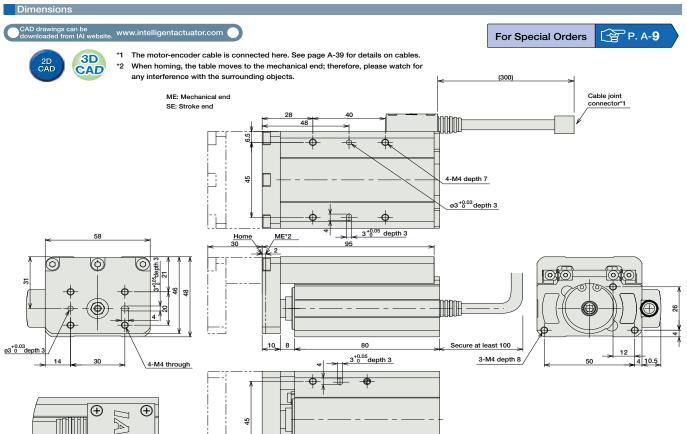
→ A-32

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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① Connector cable exit direction (Model: K2) * Rotates 180° with respect to the standard model.

mensions/Weight by Stroke

Dimensions/v	reignt by Stroke
Stroke	30
Weight (kg)	0.65

The RCA2 series actuators can operate with the controllers below. Select the controller according to your usage.									
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type		AMEC-C-20I①-NP-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P477	
Jointold Valve Type	1	ASEP-C-20I①-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			-	→ P487	
Splash-Proof Solenoid Valve Type		ASEP-CW-20I①-NP-2-0	Supports both single and double solenoid types. No homing necessary with simple absolute type.				-		
Positioner Type	Í	ACON-C-20I①-NP-2-0	Positioning is possible for up to 512 points				-		
Safety-Compliant Positioner Type		ACON-CG-20I⊕-NP-2-0	r ositioning is possible for up to 512 points	312 points		(Standard) 1.3A rated	-		
Pulse Train Input Type Differential Line Driver)	9	er)	ACON-PL-20I①-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V	4.4A max. (Power-saving)	-	→ P535
Pulse Train Input Type (Open Collector)			ACON-PO-20I①-NP-2-0	Pulse train input type with open collector support	()		1.3A rated 2.5A max.	-	
Serial communication Type	1	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	

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RCA2-TWA4N 296

Table/Arm /Flat Type

Servo Motor (24V)