RCA2-RN4N ■ Configuration: RCA2 — RN4N

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

ROBO Cylinder Mini Rod Type Short-Length Nut-Mounting Type 34mm Width 24V Servo Motor Ball Screw/Lead Screw

20

Motor

Motor

Encoder I: Incremental * The Simple 20 : 20W Servo

absolute encoder

is also considered

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

2S: 2mm lead screw

30

Compatible Controller 30:30mm A1:ACON RACON ASEL A3 : AMEC

ASEP

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

X 🗆 🗆 : Custom

Option K2 : Connector Cable exit direction LA : Power-saving

Power-saving

Technical References **P. A-5**



- The lead screw is not equipped with an anti-rotation device. Therefore, when using the actuality, add an anti-rotation device such as a guide to the end of the lead screw prior to use. (Workhout an anti-rotation device, the lead screw will rotate, and will not extend or
- The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 2mm-lead model, lead screw model, or when used vertically). This is the upper limit of the acceleration.
- Do not apply any external force on the rod from any direction other than the direction of the rod's motion.
- When using the lead screw model, please use it for applications that are suitable for its characteristics. (See page Pre-42 for more information.)

Actuator Specifications Lead and Load Capacity

Max. Load Capacity Rated Feed Lead Model Screw Thrust (N RCA2-RN4N-I-20-6-30-10-20-3 6 2 0.5 33.8 RCA2-RN4N-I-20-4-30- 1 2 3 20 Ball Screv 4 3 0.75 50.7 RCA2-RN4N-I-20-2-30- ① _ ② _ ③ 2 6 1.5 101.5 RCA2-RN4N-I-20-6S-30- 1 2 3 6 0.25 0.125 19.9

+0.02 (Fixed) 30 RCA2-RN4N-I-20-4S-30- 1 2 3 20 4 0.5 0.25 29.8 ±0.05 Screw (Fixed) RCA2-RN4N-I-20-2S-30- 1 2 3 2 59.7 Legend ① Compatible controller ② Cable length ③ Options

■ Stroke and Maximum Speed

Lead		(mm)
Μe	6	270 <220>
III Scr	4	200
Ba	2	100
ew	6	220
ıd Scr	4	200
Les	2	100
	Lead Screw Ball Screw	Lead Screw Ball Screw 6 6 4 2

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

Ottotto Liot				
	Standard Price			
Stroke (mm)	Feed Screw			
Stroke (mm) Feed Screw Ball Screw	Lead Screw			
30	_	_		

② Cable List

Positioning Repeatability (mm) Stroke

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

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

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)		
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)		
Service Life Lead Screw	Horizontal: 10 million cycles Vertical: 5 million cycles		

Dimensions

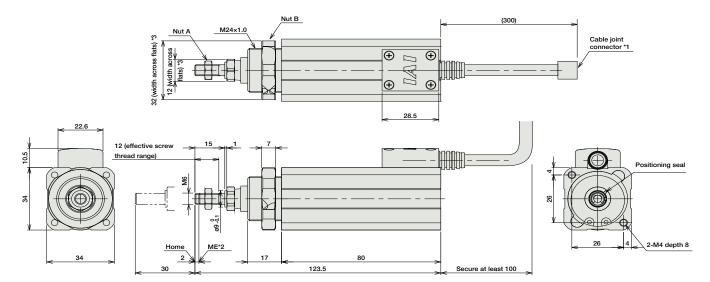
For Special Orders



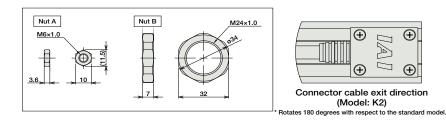




- *1 A motor-encoder cable is connected here. See page A-39 for details on cables.
- When homing, the rod moves to the mechanical end; therefore, please watch for any interference with the surrounding objects.
- *3 The orientation of the bolt will vary depending on the product.



ME: Mechanical end



■ Dimensions/Weight by Stroke

Stroke	30
Weight (kg)	0.5

① Compatible Controllers

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Oolan sid Value Torre	M	AMEC-C-20I①-NP-2-1	Easy-to-use controller, even for beginners	3 points	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.			(Standard) 1.3A rated 4.4A max. (Power-saving) 1.3A rated 2.5A max.	-	- → P487
Splash-Proof Solenoid Valve Type		ASEP-CW-201①-NP-2-0	No homing necessary with simple absolute type.				-	
Positioner Type		ACON-C-20I①-NP-2-0	Positioning is possible for up to 512 points	512 points			-	
Safety-Compliant Positioner Type		ACON-CG-20I①-NP-2-0	Positioning is possible for up to 312 points	512 points			-	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-20I①-NP-2-0	Pulse train input type with differential line driver support	()	DC24V		-	→ P535
Pulse Train Input Type (Open Collector)		ACON-PO-20I①-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

RCA2-RN4N

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

^{*} This is for the single-axis ASEL.

* ① is a placeholder for the code "LA" if the power-saving option is specified.