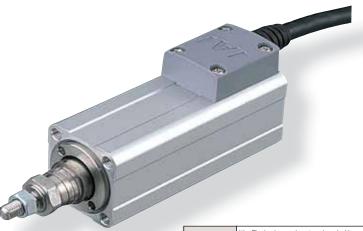
ROBO Cylinder Mini Rod Type Short-Length Tapped-Hole Mounting Type RCA2-RP4N 34mm Width 24V Servo Motor Ball Screw/Lead Screw ■ Configuration: RCA2 — RP4N 20 30 Encoder Motor Stroke Compatible Controlle Cable Length Option 6:6mm ball screw 4:4mm ball screw 2:2mm ball screw 6S:6mm lead screw 4S:4mm lead screw N : None P : 1m S : 3m M : 5m K2 : Connector Cable exit direction LA : Power-saving I: Incremental * The Simple 20 : 20W Servo 30:30mm A1: ACON Motor RACON absolute encoder ASEL is also considered A3:AMEC X 🗆 🗆 : Custom 2S:2mm lead screw ASEP * See page Pre-35 for an explanation of the naming convention.



Power-saving

Technical References



- The lead screw is not equipped with an anti-rotation device. Therefore, when using the actuator, add an anti-rotation device such as a guide to the end of the lead screw prior to use. (Without an antirotation device, the lead screw will rotate, and will not extend or retract.)
- 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
- (4) 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

Eeau and Load Capacity								
Model	Motor Output (w)	Feed Screw	Lead (mm)	Max. Load Horizontal (kg)		Rated Thrust (N)	Positioning Repeatability (mm)	Stroke (mm)
RCA2-RP4N-I-20-6-30-①-②-③			6	2	0.5	33.8		
RCA2-RP4N-I-20-4-30-①-②-③	20	Ball Screw	4	3	0.75	50.7	±0.02	30 (Fixed)
RCA2-RP4N-I-20-2-30-①-②-③			2	6	1.5	101.5		
RCA2-RP4N-I-20-6S-30-①-②-③			6	0.25	0.125	19.9		
RCA2-RP4N-I-20-4S-30-①-②-③	20	20 Lead Screw	4	0.5	0.25	29.8	±0.05	30 (Fixed)
RCA2-RP4N-I-20-2S-30-①-②-③			2	1	0.5	59.7		

See Page

→ A-32

→ A-32

ke		Stroke Lead		30 (mm)		
d)		Ball Screw	6	270 <220>		
			4	200		
			2	100		
d)	, e	6	220			
		Lead Screw	4	200		
		Les	2	100		

■ Stroke and Maximum Speed

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

Stroke List

③ Option List

Power-saving

Name

Connector cable exit direction

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

Option Code

K2

Legend ① Compatible controller ② Cable length ③ Options

② Cable List

Actuator Specifications

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

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

Standard Price

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

CAD drawings can be downloaded from IAI website. www.intelligentactuator.com

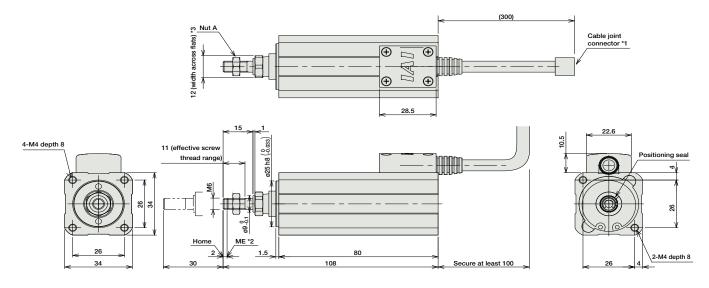
For Special Orders



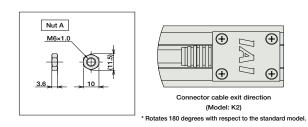




- *1 A motor-encoder cable is connected here. See page A-39 for details on cables.
- When homing, the rod moves to the mechanical end; therefore, please watch for any interference with the surrounding objects.
- *3 The orientation of the bolt will vary depending on the product.



ME: Mechanical end



■ Dimensions/Weight by Stroke

Stroke	30				
Weight (kg)	0.42				

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

Servo Motor (24V)

① Compatible Controllers

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
		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		(Standard) 1.3A rated 4.4A max. (Power-saving) 1.3A rated 2.5A max.	-	- → P487
Splash-Proof Solenoid Valve Type	1	ASEP-CW-20I①-NP-2-0					-	→ P48/
Positioner Type	E	ACON-C-20I①-NP-2-0	Positioning is possible for up to 512 points	512 points	DC24V		-	
Safety-Compliant Positioner Type	ACON-CG-20I⊕-N	ACON-CG-20I①-NP-2-0	, containing to possible to tap to 0.12 points	012 pointe			-	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-20I①-NP-2-0	Pulse train input type with differential line driver support	(-)			-	→ 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-RP4N



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

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