ROBO Cylinder Mini Rod Type Short-Length Free Mounting Type with Single Guide RCA2-GS4N 34mm Width 24V Servo Motor Ball Screw/Lead Screw lacktriangle Configuration: RCA2 - GS4N 20 30 Cable Length Encoder Motor Lead Stroke Compatible Controlle Option 6:6mm ball screw 4:4mm ball screw 2:2mm ball screw K2 : Connector Cable exit direction LA : Power-saving I: Incremental * The Simple N: None 20: 20W Servo 30:30mm A1: ACON P:1m S:3m M:5m Motor RACON absolute encoder ASEL 6S:6mm lead screw 4S:4mm lead screw is also considered A3 : AMEC X 🗆 🗆 : Custom 2S:2mm lead screw ASEP * See page Pre-35 for an explanation of the naming convention.

(1) The horizontal load ca and/or moment load of fin on quide will be inst

Power-saving

Technical References

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 The horizontal load capacity is based on the use of a guide to prevent any radial and/or moment load on the rod.
 If no guide will be installed, see the Tip Load vs. Service Life graph (→ page

(2) 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.

(3) 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 Positioning Repeatability Stroke Max. Load Capacity Rated Feed Lead Model Output (v Screw Thrust (N RCA2-GS4N-I-20-6-30-10-20-3 6 2 0.5 33.8 RCA2-GS4N-I-20-4-30- 1 - 2 - 3 20 Ball Screv 4 3 0.75 50.7 +0.02 (Fixed) RCA2-GS4N-I-20-2-30- 1 - 2 - 3 2 6 1.5 101.5 RCA2-GS4N-I-20-6S-30- 1 - 2 - 3 6 0.25 0.125 19.9 30 RCA2-GS4N-I-20-4S-30- 1 - 2 - 3 20 4 0.5 0.25 29.8 ±0.05 Screw (Fixed) RCA2-GS4N-I-20-2S-30- 1 - 2 - 3 2 0.5 59.7

	Stroke Lead		30 (mm)	
	Ball Screw	6	270 <220>	
		4	200	
		2	100	
	Lead Screw	6	220	
		4	200	
		2	100	

■ Stroke and Maximum Speed

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

Stroke List

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

Legend ① Compatible controller ② Cable length ③ Options

② Cable List

Cable Symbol	Standard Price	
P (1m)	-	
S (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.
- * See page A-39 for cables for maintenance.

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

Item Description			
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)		
	0~40°C, 85% RH or less (non-condensing)		
Service Life Lead Screw	Horizontal: 10 million cycles Vertical: 5 million cycles		

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Dimensions

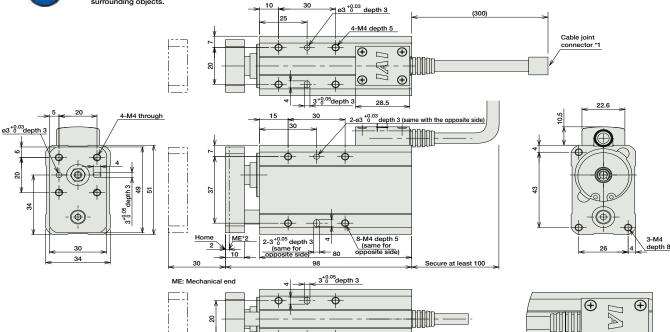
CAD drawings can be downloaded from IAI website. www.intelligentactuator.com

For Special Orders



2D CAD

- *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.



4-M4 depth 8

ø3 ^{+0.03} depth 3

Maight by Strok

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Connector cable exit direction

(Model: K2)

* Rotates 180 degrees with respect to the standard model.

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■ Dimensions/Weight by Stroke			
Stroke	30		
Weight (kg)	0.55		

① Compatible Controllers

The RCA2 series actuators can operate with the controllers below. Select the controller according to your usage.

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Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Onlaw and Makes Town		AMEC-C-20I①-NP-2-1	Easy-to-use controller, even for beginners	3 points	AC100V	2.4A rated	-	→ P477
Solenoid Valve Type Splash-Proof 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.			(Standard) 1.3A rated 4.4A max. (Power-saving) 1.3A rated 2.5A max.	-	- → P487
		ASEP-CW-20I①-NP-2-0					-	
Positioner Type	E	ACON-C-20I①-NP-2-0	Positioning is possible for up to 512 points	512 points			-	→ P535
Safety-Compliant Positioner Type		ACON-CG-20I①-NP-2-0	Positioning is possible for up to 312 points	orz points			-	
Pulse Train Input Type (Differential Line Driver)	- 1	ACON-PL-20I①-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V		-	
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

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