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

ROBO Cylinder Mini Rod Type Short-Length Slide Unit Type with Double Guide RCA2-SD4N 72mm Width 24V Servo Motor Ball Screw/Lead Screw \blacksquare Configuration: RCA2 - SD4N 20 Cable Length Encoder Motor Compatible Controlle Option 6: 6mm ball screw 4: 4mm ball screw 2: 2mm ball screw 6S: 6mm lead screw 4S: 4mm lead screw I: Incremental * The Simple 25 :25mm 50 :50mm N: None 20 : 20W Servo A1: ACON LA: Power-saving P:1m S:3m M:5m Motor RACON absolute encoder 75 :75mm ASEL is also considered A3 : AMEC X 🗆 🗆 : Custom 2S: 2mm lead screw ASEP

Power-saving

Technical References



- 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 A-82).
- 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.
- The values for the vertical load capacity are based on a setup in which the actuator is secured and the side bracket is moved. Please note that moving the actuator against the secured side bracket is not possible.
- 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 Positioning Repeatability Stroke Feed Lead Model Screw Vertical (kg) Thrust (N 0.5 RCA2-SD4N-I-20-6-1 - 2 - 3 - 4 6 2 33.8 (*1) 0.75 RCA2-SD4N-I-20-4- 1 - 2 - 3 - 4 20 Ball Screv 4 3 50.7 +0.02 50 (*1) 75 1.5 RCA2-SD4N-I-20-2-1 - 2 - 3 - 4 2 6 101.5 (*1) 0.125 RCA2-SD4N-I-20-6S-1 - 2 - 3 - 4 6 0.25 19.9 (*1) 25 0.25 RCA2-SD4N-I-20-4S-1 - 2 - 3 - 4 20 4 0.5 29.8 ±0.05 50 (*1) 75 0.5 RCA2-SD4N-I-20-2S- 1 - 2 - 3 - 4 2 1 59.7

Otroke and Maximum opeca						
Stroke		25 (mm)	50 ~ 75			
Loa	6	240 <200>	300			

Lead		(mm)	(mm)	
W.	6	240 <200>	300	
Ball Screw	4	200	200	
Ba	2	100	100	
ead Screw	6	200	300	
	4	200	200	
 -	2	100	100	
* The values analoged in apply for yestical years. (Units may/s)				

(*1) When the main unit is fixed The values enclosed in < > apply for vertical usage. (Unit: mm/s)

Cable Symbol

X11 (11m) ~ X15 (15m)

X10 (10m)

Standard Price

1) Stroke Lis	st .			
	Standard Price			
Stroke (mm)	Feed Screw			
	Ball Screw	Lead Screw		
25	_	_		
50	-	-		
75	_	_		

Legend ① Stroke ② Compatible controller ③ Cable length ④ Options

	otanaa a i noo			
Stroke (mm)	Feed Screw			
	Ball Screw	Lead Screw		
25	-	_		
50	-	_		
75	ı	_		

	AIO (IOIII)	- A20 (2011)	
* The RCA2 come	s standard	with a robot cable	∍.

* See page A-39 for cables for maintenance.

P (1m)

S (3m)

M (5m) X06 (6m)

③ Cable List

Type

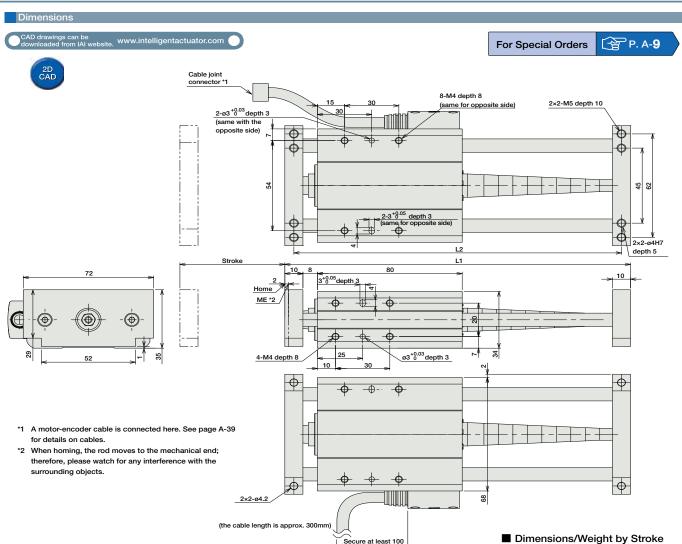
Standard

(Robot Cables)

Special Lengths

4 Option List			
Name	Option Code	See Page	Standard Price
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			



(2)	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	
	14	AMEC-C-20I①-NP-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P477	
Solenoid Valve Type	3	ASEP-C-20I①-NP-2-0	Operable with same signal as solenoid valve.	3 points		(Standard) 1.3A rated	-	→ P487	
Splash-Proof Solenoid Valve Type	1	ASEP-CW-20I①-NP-2-0	Supports both single and double solenoid types. 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	312 points			-		
Pulse Train Input Type (Differential Line Driver)		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		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 ASEI									

Stroke

L1

Weight (kg)

75

191

181

0.77

Servo Motor (24V)

50

166

156

0.75

25

141

131

0.73

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