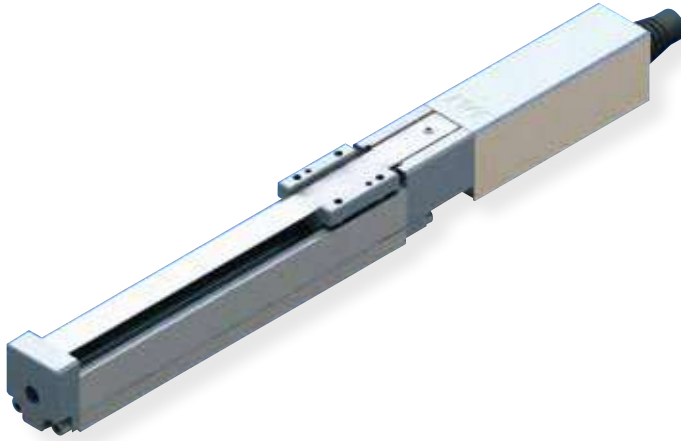


RCP3-SA2AC

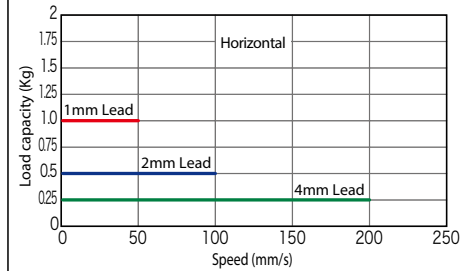
ROBO Cylinder Mini Slider Type Motor Unit Coupling Type Actuator Width 22mm Pulse Motor Lead Screw Specification

Model Description	RCP3	SA2AC	I	20P					
	Series	Type	Encoder type	Motor type	Lead	Stroke	Compatible controllers	Cable length	Option
			I: Incremental specification * Model number is "I" when used with simple absolute unit.	20P: Pulse motor 20□ size	4S: Lead screw 4mm 2S: Lead screw 2mm 1S: Lead screw 1mm	25: 25mm ? : 100: 100mm (every 25mm)	P3: PCON MSEL P5: RCON RSEL	N: None P: 1 m S: 3 m M: 5 m X□□: Length Designation	NM: Reversed-home specification

* See page 14 for details on the model descriptions.



■ **Correlation Diagrams of Speed and Load Capacity**
With the RCP3 series, due to the characteristics of the pulse motor, load capacity decreases as the speed increases. Use the chart below to confirm that the desired speed and load capacity requirements are met.



- POINT**
Notes on selection
- (1) The payload is the value when operated at 0.2G acceleration. The acceleration upper limit is the value indicated above.
 - (2) Cannot be used in the horizontal orientation with the slider facing to the side or in the vertical orientation.
 - (3) Service life decreases significantly if used in a dusty environment.

Actuator Specifications Table

■ **Leads and Payloads**

Model	Feed screw	Lead (mm)	Maximum payload		Positioning repeatability (mm)	Stroke (mm)
			Horizontal (kg)	Vertical (kg)		
RCP3-SA2AC-I-20P-4S-①-②-③-④	Lead screw	4	0.25	—	±0.05	25 to 100 (every 25mm)
RCP3-SA2AC-I-20P-2S-①-②-③-④		2	0.5	—		
RCP3-SA2AC-I-20P-1S-①-②-③-④		1	1	—		

Legend ① Stroke ② Compatible Controllers ③ Cable length ④ Option

■ **Stroke and Maximum Speed**

Lead	Stroke	25 (mm)	50~100 (mm)
	Lead screw		
Lead screw	4	180	200
	2	100	
	1	50	

(unit: mm/s)

① **Stroke list**

① Stroke (mm)	Standard price
25	—
50	—
75	—
100	—

③ **Cable Length**

Type	Cable symbol	Standard price
Standard type (Robot cable)	P (1m)	—
	S (3m)	—
	M (5m)	—
Special length	X06 (6m) ~ X10 (10m)	—
	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	—
		—

* The standard cable for the RCP3 is the robot cable.

④ **Options**

Title	Option code	See page	Standard price
Reversed-home specification	NM	—	—

Actuator Specifications

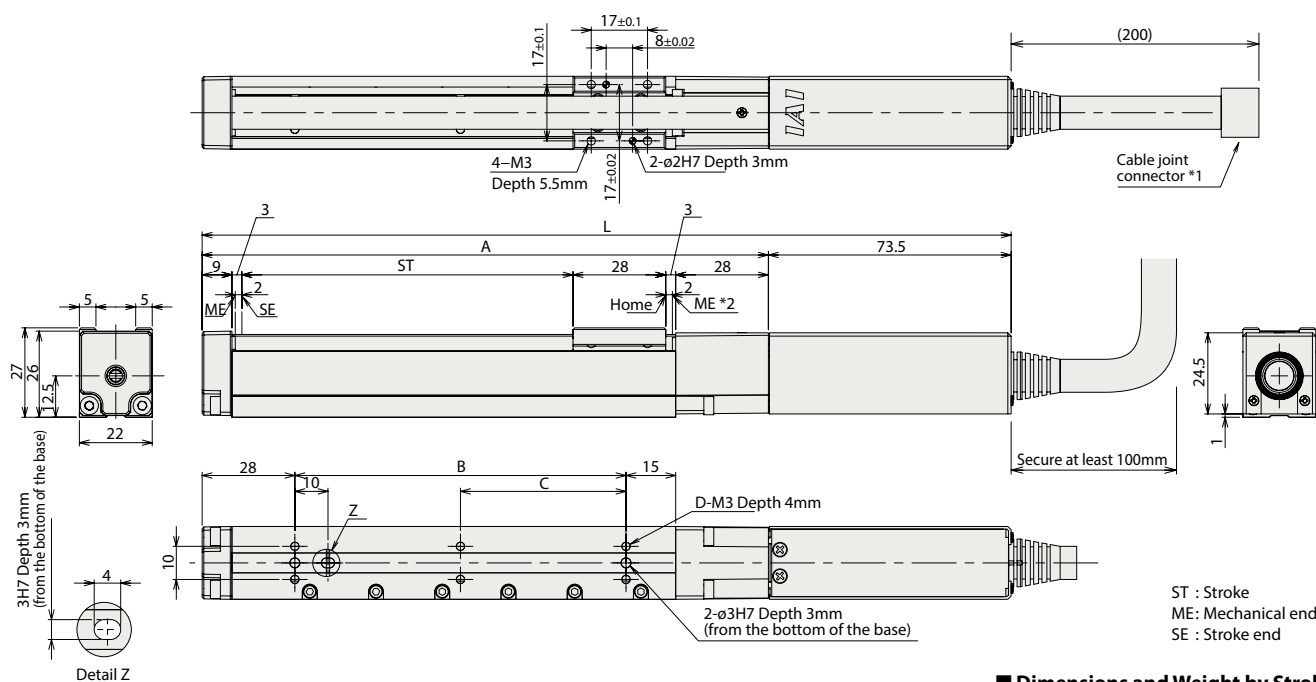
Item	Description
Drive System	Lead screw, ø4mm, rolled C10
Lost motion	0.3mm or less (initial value)
Base	Material: Aluminum, white alumite treated
Guide	Slide guide
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)
Service life	10 million cycles

Dimensional Drawings

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



- *1 Connect the motor and encoder cables.
- *2 During home return, be careful to avoid interference from peripheral objects because the slider travels until the mechanical end.



■ Dimensions and Weight by Stroke

Stroke	25	50	75	100
L	169.5	194.5	219.5	244.5
A	96	121	146	171
B	25	50	75	100
C	0	0	0	50
D	4	4	4	6
Mass (kg)	0.25	0.27	0.29	0.3

Applicable Controllers

The actuators on this page can be operated by the controllers indicated below. Please select the type depending on your intended use.

Name	External view	Max. number of connectable axes	Power supply voltage	Control method															Maximum number of positioning points	Reference page
				Positioner	Pulse-train	Program	Network option *1													
DV	CC	CIE	PR				CN	ML	ML3	EC	EP	PRT	SSN	ECM						
MSEL-PC/PG		4	Single phase 100VAC/230VAC	-	-	●	●	●	●	-	-	-	●	●	●	-	-	30000	Please contact IAI for more information.	
PCON-CB/CGB		1	24VDC	● *Option	● *Option	-	●	●	●	●	●	●	●	●	●	-	-	512 (768 for network spec.)		
PCON-CYB/PLB/POB		1		● *Option	● *Option	-	-	-	-	-	-	-	-	-	-	-	-	64		
RCON		16 (ML3,SSN,ECM=8)		-	-	-	●	●	●	●	-	-	●	●	●	●	●	●		128 (No position data for ML3, SSN, ECM),
RSEL		8		-	-	●	●	●	●	●	-	-	-	●	●	●	-	-		36000

*1 For network abbreviations such as DV and CC, please contact IAI.

More controller info is available in the General Controller Catalog PDF.

