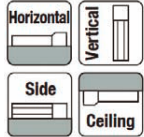


RCP4CR-SA3C Cleanroom Type ROBO Cylinder, Slider Type, Motor Unit Coupled, Actuator Width 32mm, Pulse Motor 24V

Model Specification Items	RCP4CR — SA3C — I — 28P — <input type="checkbox"/> — <input type="checkbox"/> — P3 — <input type="checkbox"/> — <input type="checkbox"/>							
Series	Type	Encoder type	Motor type	Lead	Stroke	Applicable controllers	Cable length	Options
		I: Incremental specification * The simple absolute encoder is also considered type "I".	28P: Pulse motor Size 28□	6: 6mm 4: 4mm 2: 2mm	25: 25mm 300: 300mm (Every 25mm)	P3: PCON-CA MSEP MSEL	N: None P: 1m S: 3m M: 5m X□: Specified length R□: Robot cable	Refer to the option list below.

*Controller is not included.
*Please refer to our ROBO Cylinder General Catalog for the contents of the model specification items.



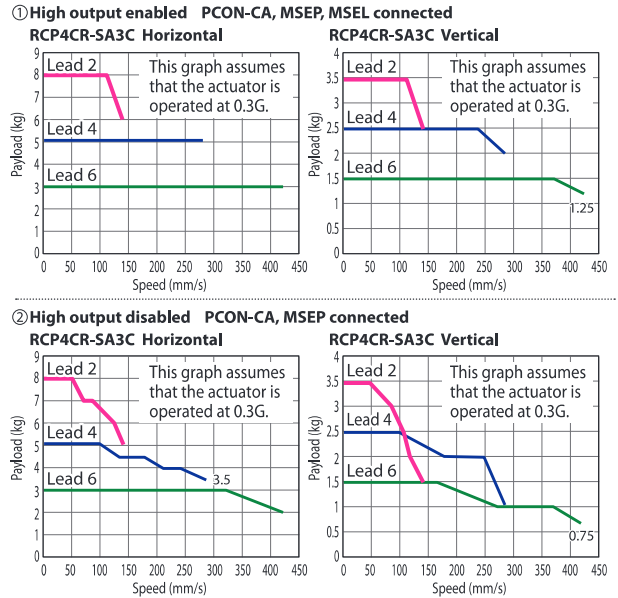
* Depending on the model, there may be some limitations to using the vertical, side, and ceiling mount positions. Please contact us for more information.



POINT
Note on selection

- (1) The actuator specifications displays the payload's maximum value, but it will vary depending on the acceleration. Please refer to "The Tables for Payload by Speed and Acceleration" on P. 13.
- (2) Please refer to "Correlation Diagrams Between Push Force and Current Limit" on P. 14 for push-motion operation.

Correlation Diagrams of Speed and Payload



Actuator Specifications

Lead and Payload

Model Number	Lead (mm)	Maximum Payload		Stroke (mm)
		Horizontal (kg)	Vertical (kg)	
RCP4CR-SA3C-I-28P-6-①-P3-②-③	6	3	1.5	25 ~ 300 (Every 25mm)
RCP4CR-SA3C-I-28P-4-①-P3-②-③	4	5	2.5	
RCP4CR-SA3C-I-28P-2-①-P3-②-③	2	8	3.5	

Legend: ① Stroke ② Cable length ③ Options

Stroke, Max. Speed and Vacuum Volume (Unit: mm/s)

Lead (mm)	High-output Setting	25 ~ 300 (Every 25mm)	Vacuum Volume (Nℓ/mm)
4	Enabled Disabled	280	15
2	Enabled Disabled	140	10

① Stroke

Stroke (mm)	Standard Price	Stroke (mm)	Standard Price
25	—	175	—
50	—	200	—
75	—	225	—
100	—	250	—
125	—	275	—
150	—	300	—

② Cable Length

Type	Cable Code	Standard Price
Standard Type	P (1m)	—
	S (3m)	—
	M (5m)	—
Specified Length	X06 (6m) ~ X10 (10m)	—
	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	—
	R01 (1m) ~ R03 (3m)	—
Robot Cable	R04 (4m) ~ R05 (5m)	—
	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	—
	R16 (16m) ~ R20 (20m)	—
	R16 (16m) ~ R20 (20m)	—

* For a maintenance cable, please see the back cover.

③ Options

Name	Option Code	Reference Page	Standard Price
Brake	B	Please refer to our ROBO Cylinder General Catalog.	—
Home-position Check Sensor (On Left)	HSL		—
Home-position Check Sensor (On Right)	HSR		—
Non-motor End Specification	NM		—
Vacuum Joint Opposite Position	VR		—

* For the home-position check sensor, there are 2 types; HSR (sensor attached on the right) and HSL (sensor attached on the left). Please see the following page for details.

Actuator Specifications

Item	Description
Drive System	Ball screw \varnothing 6mm rolled C10
Positioning Repeatability	\pm 0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Guide	Linear guide
Dynamic Allowable Moment (*1)	Ma: 3.82N·m, Mb: 5.45N·m, Mc: 6.10N·m
Static Allowable Moment	Ma: 6.30N·m, Mb: 8.90N·m, Mc: 10.0N·m
Grease	Low particle-emission (urea based) grease used (on both ball screw and guide)
Cleanliness Class	Class 10 (Fed. Std. 209D), Equiv. to Class 2.5 (ISO 14644-1)
Ambient Operating Temperature, Humidity	0 ~ 40°C, 85% RH or less (Non-condensing)

Reference for overhang load length of all 3 directions (Ma, Mb, and Mc): 100mm or less
(*1) This assumes a standard life of 5,000km. The operational life will vary depending on operation and installation conditions.

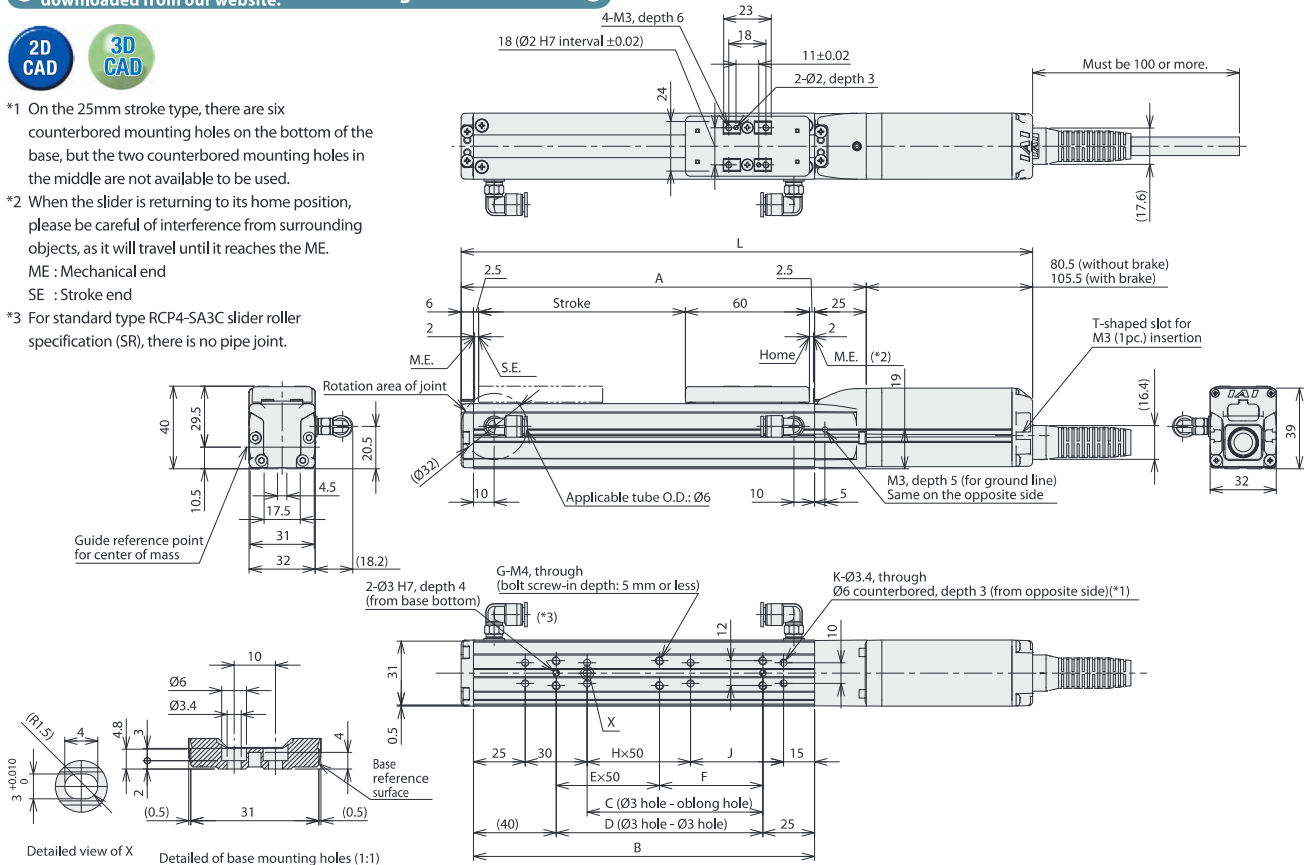
* Please refer to our ROBO Cylinder General Catalog for details on operational life, allowable moment direction, and overhang load length.

Dimensions

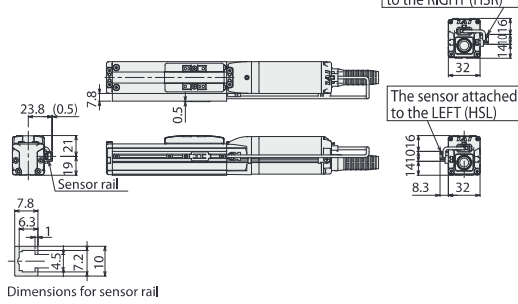
CAD drawings can be downloaded from our website. www.intelligentactuator.com



- *1 On the 25mm stroke type, there are six counterbored mounting holes on the bottom of the base, but the two counterbored mounting holes in the middle are not available to be used.
- *2 When the slider is returning to its home position, please be careful of interference from surrounding objects, as it will travel until it reaches the ME.
ME : Mechanical end
SE : Stroke end
- *3 For standard type RCP4-SA3C slider roller specification (SR), there is no pipe joint.



Home-position Check Sensor Attachment Option



■ Dimensions and Mass by Stroke

L	Stroke	25	50	75	100	125	150	175	200	225	250	275	300
	Without Brake	201.5	226.5	251.5	276.5	301.5	326.5	351.5	376.5	401.5	426.5	451.5	476.5
With Brake	226.5	251.5	276.5	301.5	326.5	351.5	376.5	401.5	426.5	451.5	476.5	501.5	526.5
A	121	146	171	196	221	246	271	296	321	346	371	396	421
B	90	115	140	165	190	215	240	265	290	315	340	365	390
C	10	35	60	85	110	135	160	185	210	235	260	285	310
D	25	50	75	100	125	150	175	200	225	250	275	300	325
E	0	0	0	1	1	2	2	3	3	4	4	5	5
F	25	50	75	50	75	50	75	50	75	50	75	50	75
G	4	4	4	6	6	8	8	10	10	12	12	14	14
H	0	0	0	1	1	2	2	3	3	4	4	5	5
J	(20)	45	70	45	70	45	70	45	70	45	70	45	70
K	(6)	6	6	8	8	10	10	12	12	14	14	16	16
Mass (kg)	Without Brake	0.51	0.55	0.58	0.61	0.65	0.68	0.71	0.75	0.78	0.81	0.85	0.88
	With Brake	0.6	0.64	0.67	0.7	0.74	0.77	0.8	0.84	0.87	0.9	0.94	0.97

Applicable Controllers

The RCP4 series actuators can be operated by the controllers indicated below. Please select the type depending to your intended use.

Name	External View	Model Number	Max. Number of Controlled Axes	Maximum Number of Positioning Points	Input Power	Standard Price	Reference Page
Positioner Type High-output Specification		PCON-CA-28P $\text{\textcircled{V}}$ - $\text{\textcircled{1}}$ -2-0	1	512 point	DC24V	-	Please see individual product catalogs for details
Pulse Train Type High-output Specification		PCON-CA-28PWAI-PL $\text{\textcircled{V}}$ -2-0		-		-	
Network Type High-output Specification		PCON-CA-28P $\text{\textcircled{V}}$ - $\text{\textcircled{III}}$ -0-0		768 point		-	
Solenoid Valve Multi-axis Type (PIO Specification)		MSEP- $\text{\textcircled{V}}$ - $\text{\textcircled{II}}$ - $\text{\textcircled{1}}$ -2-0	C: 8 (4 when high-output enabled)	3 point	-		
Solenoid Valve Multi-axis Type (Network Specification)		MSEP- $\text{\textcircled{V}}$ - $\text{\textcircled{II}}$ - $\text{\textcircled{III}}$ -0-0	LC: 6 (3 when high-output enabled)	256 point			
Program Control Multi-axis Type		MSEL-PC-1-28P $\text{\textcircled{V}}$ - $\text{\textcircled{1}}$ -2-4	4	30,000 point	Single-phase AC 100V ~230V	-	
Program Control Multi-axis Type w/Network Board		MSEL-PC-1-28P $\text{\textcircled{V}}$ - $\text{\textcircled{III}}$ -0-4					
Program Control Multi-axis Type Safety Category Compliant Specification		MSEL-PG-1-28P $\text{\textcircled{V}}$ - $\text{\textcircled{1}}$ -2-4					
Program Control Multi-axis Type Safety Category Compliant Spec. w/Network Board		MSEL-PG-1-28P $\text{\textcircled{V}}$ - $\text{\textcircled{III}}$ -0-4					

*Above MSEL models are for single-axis specification * $\text{\textcircled{I}}$ I/O type (NP/PN) * $\text{\textcircled{II}}$ Number of axes * $\text{\textcircled{III}}$ Field network specification code
 $\text{\textcircled{V}}$ Encoder type: WAI=Incremental / SA=Simple absolute. However, WAI and SA cannot be used together for MSEL * $\text{\textcircled{V}}$ C (standard type) or LC (PLC function equipped type)
 $\text{\textcircled{N}}$ (NPN specification)/P (PNP specification) code *The high-output enabled operation is only available when the "High-output setting specification" is selected as an option for the MSEP-C/LC.