

RCP2-SRA4R

ROBO Cylinder, Short-length Rod Type, Actuator Width 45mm, Pulse Motor, Side-mounted Motor

Model Specification Items	RCP2	SRA4R	I	35P					
	Series	Type	Encoder type	Motor type	Lead	Stroke	Applicable controller	Cable length	Options
			I: Incremental *The Simple absolute encoder is also considered type "I".	35P: Pulse motor, size 35□	5: 5mm 2.5: 2.5mm	20: 20mm 200: 200mm (10mm pitch increments) * 50mm increments over 100mm	P1: PCON-PL/PO/SE PSEL P3: PCON-CA PMEC/PSEP MSEP	N: None P: 1m S: 3m M: 5m X□□: Custom length	* See options below.

* See page Pre-47 for details on the model descriptions.



Technical References

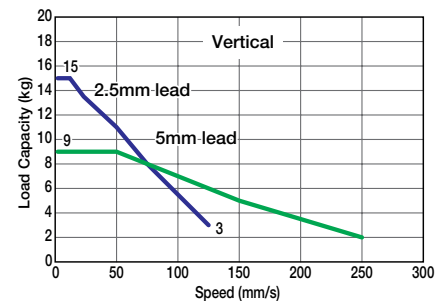
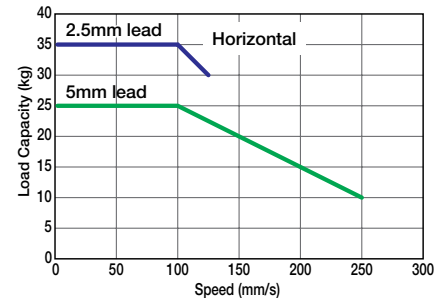
Appendix P.5



- (1) Since the RCP2 series use a pulse motor, the load capacity decreases at high speeds. Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.
- (2) The load capacity is based on operation at an acceleration of 0.3G (0.2G is for the 2.5mm-lead model, or when used vertically). This is the upper limit of the acceleration.
- (3) The horizontal load capacity is based on the use of an external guide. If an external force is exerted on the rod from a direction other than the motion of the rod, the detent may become damaged.
- (4) See page A-71 for details on push motion.

Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the RCP2 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.



Actuator Specifications

Leads and Payloads (Note 1) Please note that the maximum load capacity decreases as the speed increases. (Note 2) 50mm increments over 100mm.

Model number	Lead (mm)	Maximum payload (Note 1)		Max. push force (N)	Stroke (mm)
		Horizontal (kg)	Vertical (kg)		
RCP2-SRA4R-1-35P-5-①-②-③-④	5	~25	~9	112	20 to 200 (every 10mm) (Note 2)
RCP2-SRA4R-1-35P-2.5-①-②-③-④	2.5	~35	~15	224	

Stroke and Maximum Speed

Stroke Lead	20~200 (every 10mm)
5	250
2.5	125

Legend ① Stroke ② Applicable Controller ③ Cable length ④ Options *See page A-71 for details on push motion.

(Unit: mm/s)

① Stroke

① Stroke (mm)	Standard price
25 ~ 50	—
60 ~ 100	—
150	—
200	—

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 cable is a motor-encoder integrated cable, and is provided as a robot cable.

* See page A-59 for cables for maintenance.

④ Options

Name	Option code	Page	Standard Price
Brake	B	→ A-42	—
Flange bracket (front)	FL	→ A-44	—
Flange bracket (rear)	FLR	→ A-46	—
Foot bracket 1 (base mounting)	FT	→ A-48	—
Foot bracket 2 (right/left side mounting)	FT2/FT4	→ A-48	—
Non-motor end specification	NM	→ A-52	—

* The brake is available for strokes of 70mm or more.

Actuator Specifications

Item	Description
Drive method	Ball screw, ø8mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Rod diameter	ø22mm
Rod non-rotation precision	—
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

