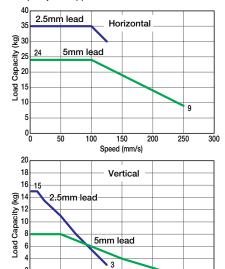




- (1) Since the RCP2 series use a pulse motor, the load capacity decreases at high speeds. Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.
- (2) The load capacity is based on operation at an acceleration of 0.03G (0.2G is for the 2.5mm-lead model, 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. See the technical resources (page A-110) for the allowable weight using the supplied guide alone.
- (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) Horizontal (kg) Vertical (kg)		Max. push force (N)	Stroke (mm)
RCP2-SRGD4R-1-35P-5-①-②-③-④	5	~24	~8	112	20 to 200
RCP2-SRGD4R-1-35P-2.5-①-②-③-④	2.5	~35	~15	224	(every 10mm) (Note 2)

Stroke and	Maximum Speed
Stroke	207

50

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

150

Speed (mm/s)

200

250

300

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

(Unit: mm/s)

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

③Cable Len	gth		
Туре	Cable symbol	Standard price	
C. I. I.	P (1m)	_	
Standard type (Robot cable)	S (3m)	_	
(Nobot cable)	M (5m)	_	
	X06 (6m) ~ X10 (10m)	_	
Special length	X11 (11m) ~ X15 (15m)	_	
	X16 (16m) ~ X20 (20m)	_	

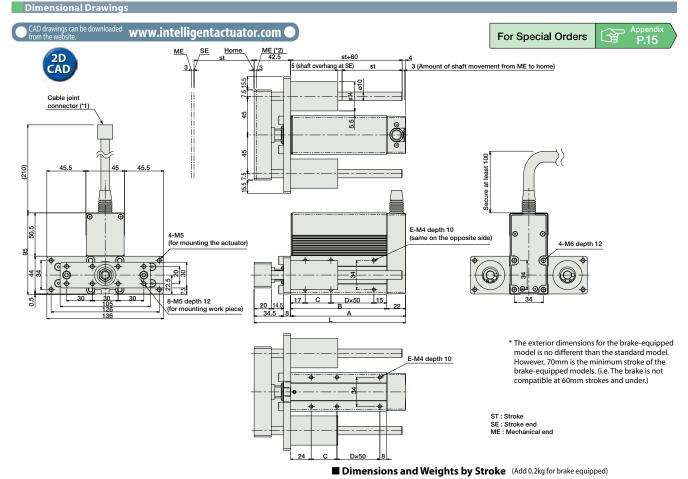
- * The cable is a motor-encoder integrated cable, and is provided as a robot cable.
- * See page A-59 for cables for maintenance.

Option code	Page	Standard Price
В	→ A-42	_
FLR	→ A-46	_
NM	→ A-52	_
	B FLR	B → A-42 FLR → A-46

* The brake is available for strokes of 70m	m 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	±0.05 deg
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

RCP2 ROBO Cylinder



 $(*1)\$ Connect the motor-encoder integrated cable here. (See page A-59 for details on cables.)

(*2) When homing, the rod moves to the mechanical end position; therefore, please watch for any interference with the surrounding objects.

Stroke	20	30	40	50	60	70	80	90	100	150	200
L	126.5	136.5	146.5	156.5	166.5	176.5	186.5	196.5	206.5	256.5	306.5
Α	84	94	104	114	124	134	144	154	164	214	264
В	62	72	82	92	102	112	122	132	142	192	242
C	30	40	50	60	70	30	40	50	60	60	60
D	0	0	0	0	0	1	1	1	1	2	3
E	4	4	4	4	4	6	6	6	6	8	10
Weight (kg)	1.47	1.55	1.62	1.7	1.77	1.84	1.92	1.99	2.07	2.44	2.81

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page	
Solenoid Valve Type		PMEC-C-35PI-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P537	
Soleriold valve Type	1	PSEP-C-35PI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			Refer to P555	_	→ P547
Solenoid valve multi-axis type PIO specification	dinner i	MSEP-C-(1)-~-(1)-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected	256 points		Refer to	_	→ P563	
Solenoid valve multi-axis type Network specification	HH	MSEP-C-(11)-~-(10)-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected			P572		7 7 203	
Positioner type High-output specification		PCON-CA-35PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			_		
Pulse-train type High-output specification		PCON-CA-35PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P607	
Field network type High-output specification		PCON-CA-35PI	Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V	DC24V		_	
Pulse Train Input Type (Differential Line Driver)	Ĉ	PCON-PL-35PI-①-2-0	Pulse train input type with differential line driver support	(—)			_		
Pulse Train Input Type (Open Collector)		PCON-PO-35PI-①-2-0	Pulse train input type with open collector support	(—)		Refer to P628	_	→ P623	
Serial Communication Type	Ĩ	PCON-SE-35PI-N-0-0	Dedicated Serial Communication	64 points			_		
Program Control Type		PSEL-CS-1-35PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	_	→ P665	



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^{* (}i) indicates number of axes (1 to 8). * (i) indicates field network specification symbol. * (ii) indicates N (NPN specification) or P (PNP specification) symbol.