



ntrollers ntegrated

Rod
Type

Mini

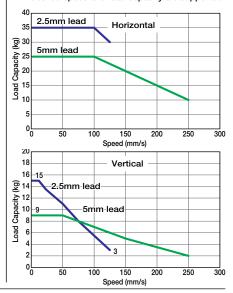
Standard

Controllers
Integrated

- (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 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.

■ 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 ■ Stroke and Maximum Speed ■ Lead and Load Capacity (Note 1) Please note that the maximum load capacity decreases as the speed increases Max. Load Capacity (Note 1) Maximum Push Stroke Lead Stroke Horizontal (kg) Vertical (kg) Force (N) (Note: RCP2-SRA4R-I-35P-5-1-2-3-4 $20 \sim 200\,$ 5 ~ 25 ~ 9 90 5 (10mm RCP2-SRA4R-I-35P-2.5-1 - 2 - 3 - 4 2.5 ~ 35 ~ 15 170 2.5 (Note 3) or the pushing force graphs ts over 100mm.

Legend: 1 Strok	e Compatible controller Cable length	Note 2) See page A-69 for Note 3) 50mm increments
- OL 1 1:		
① Stroke Lis	51	1
Stroke (mm)	Standard Price	
20 - 50		Ī

③ Cable List

Туре	Cable Symbol	Standard Price
Standard	P (1m)	-
	S (3m)	-
(Robot Cables)	M (5m)	-
	X06 (6m) ~ X10 (10m)	-
Special Lengths	X11 (11m) ~ X15 (15m)	-
	X16 (16m) ~ X20 (20m)	-

 $20\sim200$

250

125

(Unit: mm/s)

- * The cable is a motor-encoder integrated cable, and is provided as a robot cable.
- * See page A-39 for cables for maintenance.

A Ontion List

60~100 150

Option Code	See Page	Standard Price
В	→ A-25	-
FL	→ A-27	-
FLR	→ A-28	-
FT	→ A-29	-
FT2/FT4	→ A-31	-
NM	→ A-33	-
	B FL FLR FT FT2/FT4	$\begin{array}{ccc} \textbf{B} & \rightarrow \textbf{A-25} \\ \textbf{FL} & \rightarrow \textbf{A-27} \\ \textbf{FLR} & \rightarrow \textbf{A-28} \\ \textbf{FT} & \rightarrow \textbf{A-29} \\ \textbf{FT2/FT4} & \rightarrow \textbf{A-31} \end{array}$

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

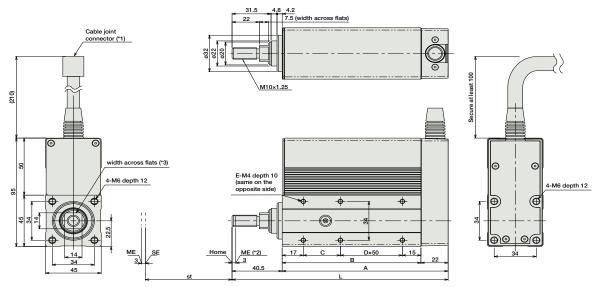
Actuator Specifications

Item	Description					
Drive System	Ball screw ø8mm C10 grade					
Positioning Repeatability	±0.02mm					
Lost Motion	0.1mm or less					
Rod Diameter	ø22mm					
Non-rotating accuracy of rod	_					
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (non-condensing)					

149



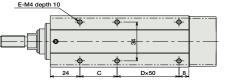




* The exterior dimensions for the brake-equipped model is no different than the standard model.

However, 70mm is the minimum stroke of the brake-equipped models.

(i.e. The brake is not compatible at 60mm strokes and under.)



M10×1.25

- ST : Stroke SE : Stroke end ME: Mechanical end
- (*1) The motor-encoder cable is connected here. See page A-39 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.
- (*3) The orientation of the bolt will vary depending on the product.

■ Dimensions/Weight by Stroke (Add 0.2kg for brake equipped)

Stroke	20	30	40	50	60	70	80	90	100	150	200
L	124.5	134.5	144.5	154.5	164.5	174.5	184.5	194.5	204.5	254.5	304.5
Α	84	94	104	114	124	134	144	154	164	214	264
В	62	72	82	92	102	112	122	132	142	192	242
С	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)	0.83	0.89	0.96	1.02	1.08	1.14	1.21	1.27	1.33	1.64	1.95

② Compatible Controllers

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Pag	
Solenoid Valve Type	4194	PMEC-C-35PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P47	
Soleliolu valve Type	1	PSEP-C-35PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			-	→ P487	
Splash-Proof Sole- noid Valve Type	I	PSEP-CW-35PI-NP-2-0	No homing necessary with simple absolute type.				-		
Positioner Type	E	PCON-C-35PI-NP-2-0	Positioning is possible for up to 512 points	512 points			-		
Safety-Compliant Positioner Type		PCON-CG-35PI-NP-2-0	r contouring to possible for up to 012 points				-		
Pulse Train Input Type (Differential Line Driver)		PCON-PL-35PI-NP-2-0	Pulse train input type with differential line driver support		(-)	DC24V	2A max.	-	→ P5
Pulse Train Input Type (Open Collector)		PCON-PO-35PI-NP-2-0	Pulse train input type with open collector support	(-)			-		
Serial Communication Type		PCON-SE-35PI-N-0-0	Dedicated to serial communication	64 points			-		
Field Network Type		RPCON-35P	Dedicated to field network	768 points			-	→ P5	
Program Control Type		PSEL-C-1-35PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P5	

* This is for the single-axis PSEL.
* ① is a placeholder for the power supply voltage (1: 100V, or 2: 100~240V).

IAI

150 RCP2-SRA4R



Mini
Standard
Controllers
Integrated
Rod
Type
Mini
Standard
Controllers
Integrated
Table/Arm
Flat Type
Mini

PMEC /AMEC PSEP /ASEP ROBO NET PCON ACON SCON PSEL ASEL