

Technical References

Mini
Standard
Controllers
Integrated

Rod
Type

Mini
Standard

Controllers
Integrated

Table/Arm
//Flat Typ

Mini
Standard

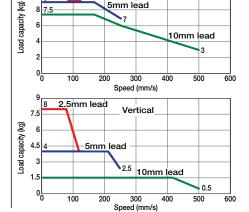
(1) Since the RCP3 series use a pulse motor, a load capacity decreases at high speeds. Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.

(2) The load capacity is based on operation at an acceleration of 0.3G (0.2G for 2.5 mm-lead

model, or when used vertically).
The maximum acceleration is 0.7G (0.3G when used vertically), however, note that the load capacity decreases at high accelerations. For more information, see the table of load capacity by acceleration, on page A-50.

■ Speed vs. Load Capacity Due to the characteristics of the pulse motor, the RCP3 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.

2.5mm lead Horizontal



Actuator Specifications ■ Lead and Load Capacity

Model	Lead (mm)		Capacity Vertical (kg)	Maximum Push Force (N)	Stroke (mm)
RCP3-SA4C-I-35P-10-①-②-③-④	10	~ 7.5	~ 1.5	34	
RCP3-SA4C-I-35P-5-①-②-③-④	5	~ 9	~ 4	68	50~500 (50mm increments)
RCP3-SA4C-I-35P-2.5-①-②-③-④	2.5	~ 11	~ 8	136	incrementaj
Legend	4 Option	ıs			

Stroke and Maximum Speed

Stroke	$50 \sim 500$ (50mm increments)
10	500
5	250
2.5	125
	(Unit: mm/s)

1 Stroke List

1) Stroke Lis	ot .			
Otrostos (mans)	Standard Price			
Stroke (mm)	With cover (standard)	No cover (Option)		
50	ı	_		
100	-	-		
150	-	_		
200	ı	-		
250	-	-		
300	-	-		
350	-	_		
400	-	-		
450	ı	_		
500	_	_		

3 Cable List

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

^{*} See page A-39 for cables for maintenance.

④ Option List			
Name	Option Code	See Page	Standard Price
Brake-Equipped	В	→ A-25	_
Cable Exit Direction (Top)	CJT	→ A-25	_
Cable Exit Direction (Right)	CJR	→ A-25	_
Cable Exit Direction (Left)	CJL	→ A-25	_
Cable Exit Direction (Bottom)	CJB	→ A-25	_
No Cover	NCO	→ A-33	_
Reversed-home	NM	→ A-33	_

Actuator Specifications

Item	Description		
Drive System	Ball screw Ø8mm C10 grade		
Positioning Repeatability	±0.02mm		
Lost Motion	0.1mm or less		
Base	Material: Aluminum (special alumite treated)		
Allowable Static Moment	Ma: 6.8N·m Mb: 9.7N·m Mc: 13.3 N·m		
Allowable Dynamic Moment(*)	Ma: 3.04N·m Mb: 4.31N·m Mc: 5.00N·m		
Overhang Load Length	120mm or less		
Ambient Operating Temp./Humidity	0~40°C, 85%RH or less (Non-condensing)		

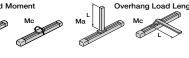
(*) Based on 5,000km travel life.

Directions of Allowable Load Moment

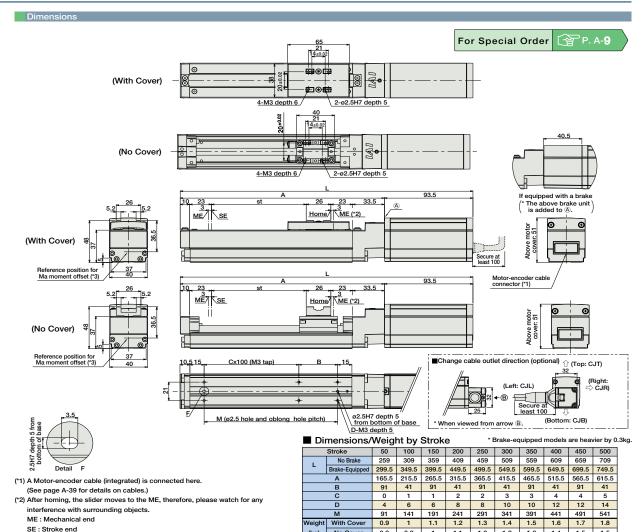








RCP3-SA4C



Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
	110	PMEC-C-35PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477
olenoid Valve Type	1	PSEP-C-35PI-NP-2-0-H	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points	3 points		-	— → P487
Splash-Proof olenoid Valve Type	1	PSEP-CW-35PI-NP-2-0-H	No homing necessary with simple absolute type.				-	
Positioner Type		PCON-C-35PI-NP-2-0-H	Positioning is possible for up to 512	512 points			-	
Safety-Compliant Positioner Type		PCON-CG-35PI-NP-2-0-H	points	512 points			-	
ulse Train Input Type Differential Line Driver)		PCON-PL-35PI-NP-2-0-H	Pulse train input type with differential line driver support	(-)	DC24V	2A Max.	-	→ P525
ulse Train Input Type (Open Collector)			PCON-PO-35PI-NP-2-0-H	Pulse train input type with open collector support	(=)			-
Serial communication Type		PCON-SE-35PI-N-0-0-H	Dedicated to serial communication	64 points 768 points			-	
Field Network Type		RPCON-35P-H	Dedicated to field network				_	→ P503
Program Control Type	E	PSEL-C-1-35PI-NP-2-0-H	Programmed operation is possible. Can operate up to 2 axes	1500 points			_	→ P557

(kg) No Cover 0.9

0.9 1 1.1 1.2 1.2

IAI

RCP3-SA4C 10

1.3 1.4 1.5 1.5

(*3) Reference position for calculating the moment Ma.