

P2-RA8R

Model Specification Items

RCP2 - RA8R -Туре

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

I: Incremental

– 60P -Encoder type - Motor type

60□size

60P: Pulse motor,

Lead 10: 10mm

5:5mm

Stroke 50: 50mm 300: 300mm **P4**

Applicable controller P4: PCON-CFA

 Cable length N: None P: 1m S: 3m

See Options below.

5: 3m * Please specify M:5m side-mounted motor X□□:Custom length X□□:Robot cable direction by an option code.

Options

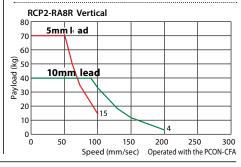
CE RoHS

Technical References



- (1) The load capacity is based on operation at an acceleration of 0.1G for 5mm-lead, and 0.2G for 10mm-lead. These values are the upper limits for the acceleration.
- (2) Please note that the controller for the RA8R will be the PCON-CFA (for high-thrust motors).
- (3) The horizontal load capacity is based on the use of an external guide.
- (4) See page A-71 for details on push motion.

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	CP2-RA	BR Horiz	zonta	I					
120	5mm	lead							
100									
Payload (kg)	10mm	lead	75						
aylo?					7				
₫ 40					_				
20						/	12		
0	50		l 0 ed (mr	150 n/se		200 Opera		250 rith th	300 N-CF <i>F</i>



50~300 (every 50mm)

200

Actuator Specifications

■ Leads and Payloads

Model number	Lead (mm)	Connection cable	Maximum Horizontal (kg)		Maximum pushing force (N	Stroke (mm)
RCP2-RA8R-I-60P-10-①-P4-②-③	10	PCON-CFA	60	40	1,000	50 to 300
RCP2-RA8R-I-60P-5-①-P4-②-③	5	PCON-CFA	100	70	2,000	(every 50mm)

RCP2-RA8R-I-60P-5-①-P4-②-③	5	PCON-CFA	100	70	2,000	50mm)	5
Code explanation ① Stroke ② Cable	length	③ Options	*See page	A-71 for detai	ls on push motio	n.	

	l
(Unit: mm/s)

①Stroke (mm)	Standard price
50	_
100	_
150	_
200	_
250	_
300	_

②Cable Length

Stroke Lead 10

Туре	Cable symbol	Standard price
	P (1m)	_
Standard type	S (3m)	_
	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	_
	R01 (1m) ~ R03 (3m)	_
	R04 (4m) ~ R05 (5m)	_
Robot cable	R06 (6m) ~ R10 (10m)	_
	R11 (11m) ~ R15 (15m)	_
	R16 (16m) ~ R20 (20m)	_

^{*} See page A-59 for cables for maintenance.

3Options

Name	Option code	Page	Standard Prices
Connector cable exit direction	A1 ~ A3	→ A-41	
Brake	В	→ A-42	_
Flange	FL	→ A-44	_
Foot bracket	FT	→ A-48	
Non-motor end specification	NM	→ A-52	_
Side-mounted motor at the top	MT1/MT2/MT3	→ A-57	_
Side-mounted motor to the right	MR1/MR2	→ A-57	_
Side-mounted motor to the left	ML1/ML3	→ A-57	_

Actuator Specifications

Actuator Specifications	
ltem	Description
Drive method	Ball screw, ø16mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Rod	ø40mm Stainless steel pipe
Rod non-rotation precision	±1.0 deg
Ambient operating temperature/humidity	0 to 40°C 85% PH may (Non-condensing)

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Do not apply any external force on the rod from any direction other than the direction of the rod's motion. If a force is exerted on the rod in a perpendicular or rotational direction, the detent may

Note:



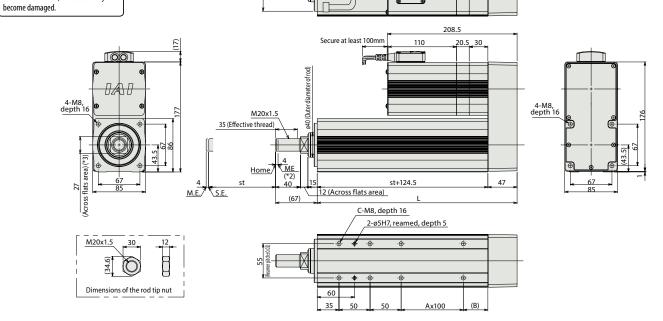
(*1) Connect the motor and encoder cables here.

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

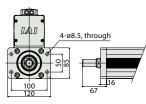
(*3) The orientation of the bolt will vary depending on the product.

(*4) When installing the actuator by using flange and front housing, be careful not to apply external force to the main body.

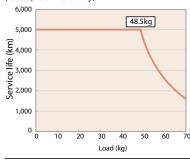
ME: Mechanical end Cable joint connector *1 SE: Stroke end



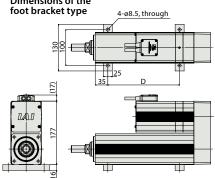
Dimensions of the flange type



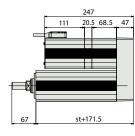
Relationship of payload and service life (lead 5, used vertically)



Dimensions of the



Dimensions of the brake type



■ Dimensions and Weights by Stroke (mm)

3,									
Stroke		50	100	150	200	250	300		
	L	221.5	271.5	321.5	371.5	421.5	471.5		
A B C D		0	0	1	1	2	2		
		39.5	89.5	39.5	89.5	39.5	89.5		
		6	7	8	8	10	10		
		100	100	200	200	300	300		
Weight	without brake	7.7	8.6	9.4	10.3	11.1	12		
(kg)	with brake	8.6	9.5	10.3	11.2	12.0	12.9		

Applicable Controllers
RCP2 series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

	ner 2 series actuators ca	i be operate	d with the controllers malcate	a below. Select the type according to you	ii iiiteilaea applica	ition.			
	Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
	Positioner type	er type PCON-CFA-60P PCON-CFA-60P		Equipped with a high-output driver Positioner type based on PIO control	512 points			_	
	Pulse-train type	1	PCON-CFA-60PI-PLN-□-0-□ PCON-CFA-60PI-PLP-□-0-□	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P607
Field network type		PCON-CFA-60PI-①-0-0-□	Equipped with a high-output driver Supporting 7 major field networks	768 points			_		

IAI

* ① indicates field network specification symbol (DV, CC, PR, CN, ML, EC, EP).

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