

Controllers
Integrated

Rod
Type

Mini

Standard

Controllers
Integrated

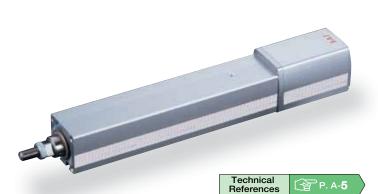
Table/Arr
/Flat Typ

Mini

Standard

Sold & Serviced By:





lotes or

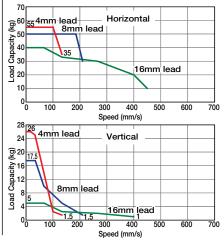
When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.

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.

The load capacity is based on operation at an acceleration of 0.2G.
0.2G is the upper limit of the acceleration.
In addition, 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					
■ Lead and Load Capacity (Note 1) Please r	note that the m	aximum load o	apacity decre	ases as the sp	eed increases
Model	Lead	Max. Load Ca	pacity (Note 1)	Maximum Push	Stroke
Wiodei	(mm)	Horizontal (kg)	Vertical (kg)	Force (N)(Note 2)	(mm)
RCP2-RA6C-I-56P-16-①-②-③-④	16	~ 40	~ 5	240	
RCP2-RA6C-I-56P-8-①-②-③-④	8	~ 50	∼ 17.5	470	50 ~ 300 (50mm increments)
RCP2-RA6C-I-56P-4-①-②-③-④	4	~ 55	~ 26	800	morements
Legend: Stroke Compatible controller Cable length	Options	(Note 2) S	ee page A-69	for the pushing	force graphs.

mum load o	apacity decre	ases as the spe	eed increases.	Stroke and	d Maximum Speed
lax. Load Ca		Maximum Push Force (N)(Note 2)	000	Stroke	$50 \sim 300$ (50mm increments)
~ 40	~ 5	240		16	450 <400>
∼ 50	∼ 17.5	470	50 ~ 300 (50mm increments)	8	210
\sim 55	~ 26	800	,	4	130
~ 50 ~ 17.5 470 (50mm increment		force graphs.	* The values enclosed	in < > apply for vertical usage. (Unit: mm/s)	

① Stroke List

O Otroito Lit	
Stroke (mm)	Standard Price
50	-
100	-
150	-
200	-
250	-
200	

③ Cable List

Туре	Cable Symbol	Standard Price
	P (1m)	-
Standard	S (3m)	-
	M (5m)	-
	X06 (6m) ~ X10 (10m)	-
Special Lengths	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-39 for cables for maintenance.

Option List			
Name	Option Code	See Page	Standard Price
Brake	В	→ A-25	-
Flange	FL	→ A-27	-
Foot bracket	FT	→ A-29	-
Reversed-home	NM	→ A-33	-

Actuator Specifications				
Item	Description			
Drive System	Ball screw ø12mm C10 grade			
Positioning Repeatability	±0.02mm			
Lost Motion	0.1mm or less			
Rod Diameter	ø30mm			
Non-rotating accuracy of rod	±1.0 deg			
Ambient Operating Temp /Humidity	0 ~ 40°C 85% BH or less (non-condensing)			

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Do not apply any external force on the rod from any

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25

ME ction A (4.8)

(4 nuts provided)

For Special Orders



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The motor-encoder cable is connected here See page A-39 for details on cables.

When homing, the rod moves to the M.E.; therefore, please watch for any interference with the surrounding objects.

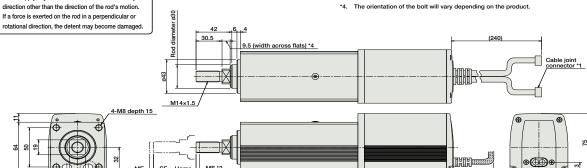
ME: Mechanical end

SE: Stroke end

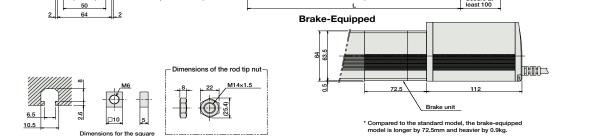
The values enclosed in "()" are reference dimensions.

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- *3. Please note that there is no T-slot on the base of the brake unit.
- *4. The orientation of the bolt will vary depending on the product.



T-slot effective range *3



■ Dimensions/Weight by Stroke

250 ;	300
338 ;	388
450	500
5.1	5.6
	338 450

The RCP2 series	actuators can	operate with the cont	rollers below. Select the controller a	ccording to your usa	ge.			
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Pag
Solenoid Valve Type	110	PMEC-C-56PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477
Sciencia valve type		PSEP-C-56PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points		2A max.	-	- → P487
Splash-Proof Solenoid Valve Type		PSEP-CW-56PI-NP-2-0	No homing necessary with simple absolute type.				-	
Positioner Type		PCON-C-56PI-NP-2-0	Positioning is possible for up to 512 points	512 points			-	→ P525
Safety-Compliant Positioner Type		PCON-CG-56PI-NP-2-0	i controlling is possible for up to 512 politics	312 points	DC24V		-	
Pulse Train Input Type Differential Line Driver)		PCON-PL-56PI-NP-2-0	Pulse train input type with differential line driver support	(-)			-	
Pulse Train Input Type (Open Collector)		PCON-PO-56PI-NP-2-0	Pulse train input type with open collector support	(-)			-	
Serial Communication Type		PCON-SE-56PI-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RPCON-56P	Dedicated to field network	768 points			-	→ P503
Program Control Type		PSEL-C-1-56PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P557

IAI

RCP2-RA6C **146**



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Table/Arm
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PMEC /AMEC PSEP /ASEP /ASEP ROBO NET ERG2 PCON ACON SCON PSEL SSEL