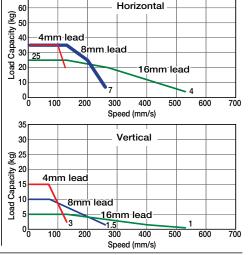




(2) Since the RCP2 series use a pulse motor, the load capacity decreases at high speeds. Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.

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.



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

(3) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 4mm-lead model, or when used

These values are the upper limits for the acceleration.

Actuator Specifications	Stroke and Maximum Speed Stroke and Maximum						
■ Lead and Load Capacity (Note 1) Please in	speed increases.	■ Stroke and Maximum Speed					
Model					Stroke		
model.	(mm)	Horizontal (kg)	Vertical (kg)	(mm)	Lead	(50mm increments)	(mm)
RCP2-SA7R-I-56P-16-①-②-③-④	16	~ 25	~ 5		16	533 〈400〉	480 〈400〉
RCP2-SA7R-I-56P-8-①-②-③-④	8	~ 35	~ 10	(50mm	8	266	240
RCP2-SA7R-I-56P-4-1 -2 -3 -4	4	~ 35	∼ 1 5	increments)	4	133	120
Legend 1 Stroke 2 Compatible controller 3 Cable length	4 Options				* The values enclosed	in < > apply to vertice	al setting. (Unit: mm/

Technical

References

① Stroke Lis	① Stroke List								
Stroke (mm)	Standard Price								
50/100	-								
150/200	-								
250/300	-								
350/400	-								
450/500	-								
550/600	-								
650/700	-								
750/800	-								

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

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

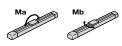
③ Cable List

④ Option List									
Name	Option Code	See Page	Standard Price						
Brake	В	→ A-25	_						
Reversed-home	NM	→ A-33	_						
Left-Mounted Motor (Standard)	ML	→ A-33	_						
Right-Mounted Motor	MR	→ A-33	_						
Slider Roller	SR	→ A-36	_						

riotaato. opoomoans	
Item	Description
Drive System	Ball screw ø12mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum (white alumite treated)
Allowable Static Moment	Ma: 50.4 N·m Mb: 71.9 N·m Mc: 138.0 N·m
Allowable Dynamic Moment (*)	Ma: 13.9 N·m Mb: 19.9 N·m Mc: 38.3 N·m
Overhang Load Length	Ma direction: 230mm or less; Mb·Mc direction: 230mm or less
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (Non-condensing)
(#) D	

^(*) Based on 5,000km travel life. **Directions of Allowable Load Moments**

Actuator Specifications







For Special Orders







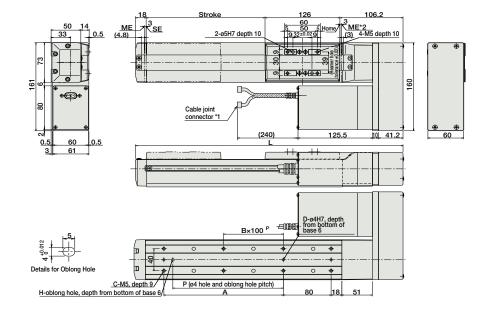
*For the reversed-home model, the dimensions (distance to home) on the motor-side and that on the opposite side are flipped.

- *1. The motor-encoder cable is connected here.
 See page A-39 for details on cables.
 *2. When homing, the slider moves to the ME; therefore, please watch for any interference with the surrounding

objects ME: Mechanical end

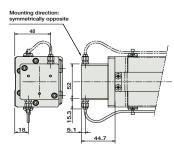
SE: Stroke end

The values enclosed in "()" are reference dimensions.
*The offset reference position for the moment Ma
is the same as the SA7 type. (See P32)



Dimensions of the brake section

Adding a brake will increase the actuator's overall length by 43mm, and its weight by 0.6kg.



* For brake cable exiting from the side, it can only exit from the motor side.

■ Dimensions/Weight by Stroke

	= Billionolololo, Wolght by Ciroko															
Stroke	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800
L	300.2	350.2	400.2	450.2	500.2	550.2	600.2	650.2	700.2	750.2	800.2	850.2	900.2	950.2	1000.2	1050.2
Α	0	100	100	200	200	300	300	400	400	500	500	600	600	700	700	800
В	0	0	0	1	1	2	2	3	3	4	4	5	5	6	6	7
С	4	6	6	8	8	10	10	12	12	14	14	16	16	18	18	20
D	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Н	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Р	0	85	85	185	185	285	285	385	385	485	485	585	585	685	685	785
Weight (kg	4.5	4.7	5.0	5.2	5.4	5.6	5.9	6.1	6.3	6.5	6.8	7.0	7.2	7.4	7.7	7.9

② Compatible Controllers

The RCP2 series actuators can operate with the controllers below. Select the controller according to your usage.

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type	118	PMEC-C-56PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477	
Solenoid valve type	1	PSEP-C-56PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			_	→ P487	
Splash-Proof Solenoid Valve Type		PSEP-CW-56PI-NP-2-0	No homing necessary with simple absolute type.				_	7 1 407	
Positioner Type	PCON-C-56PI-NP-2-0		Positioning is possible for up to 512 points	512 points			-		
Safety-Compliant Positioner Type		PCON-CG-56PI-NP-2-0		OTZ points	DC24V	2A max.	-		
Pulse Train Input Type (Differential Line Driver)	Ó	PCON-PL-56PI-NP-2-0	Pulse train input type with differential line driver support	(-)			_	→ P525	
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 Can operate up to 2 axes	1500 points			_	→ P557	

* This is for the single-axis PSEL. * \odot is a placeholder for the power supply voltage (1: 100V / 2: 100 \sim 240V).

