

(1) 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.

(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.

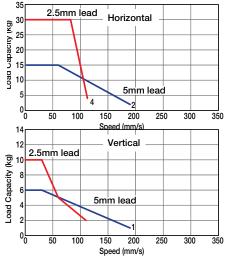
(3) The load capacity is based on operation at an acceleration of 0.02G. 0.02G is the upper limit of the acceleration.

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.

(4) See page A-71 for details on push motion.

■ 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

■ Leads and Payloads

(Note 1) Please note that the maximum load capacity decreases as the speed increases.

Stroke and Maximum Speed

Model number		Maximum pay Horizontal (kg)	yload (Note 1) Vertical (kg)	Maximum pushing force (Note 2)	Stroke (mm)
RCP2-RA3C-I-28P-5-①-②-③-④	5	~15	~6	73.5	50 to 200
RCP2-RA3C-I-28P-2.5-①-②-③-④	2.5	~30	~10	156.8	(every 50mm)

Stroke Lead	50~200 (every 50mm)
5	187
2.5	114

Code explanation ① Stroke ② Applicable Controller ③ Cable length ④ Options *See page A-71 for details on push motion.

(Unit: mm/s)

①Stroke

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

3Cable Length

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

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

4 Options

Name	Option code	Page	Standard Price
Flange	FL	→ A-44	_
Foot bracket	FT	→ A-48	_
Non-motor end specification	NM	→ A-52	_

Actuator Specifications

Metadtor Specifications	
ltem	Description
Drive method	Ball screw, ø8mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Rod	ø22mm
Rod non-rotation precision	±1.5 deg
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

Dimensional Drawings

www.intelligentactuator.com

For Special Orders





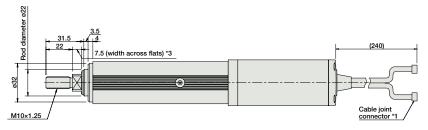


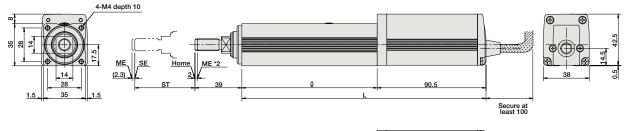
Note: Do not apply any external force on the rod from any direction other than the direction of the rod's motion. If a force is exerted on the rod in a perpendicular or rotational direction, the detent may become damaged.

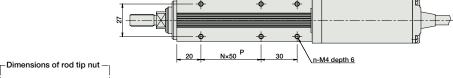
(*1) Connect the motor and encoder cables here. (See page A-59 for details on cables.)

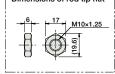
(*2) When homing, the rod moves to the ME; therefore, please watch for any interference with the surrounding objects. ME: Mechanical end

SE: Stroke end (*3) The orientation of the bolt will vary depending on the product.









■ Dimensions and Weight by Stroke

Stroke	50	100	150	200				
₽.	112.5	162.5	212.5	262.5				
L	203	253	303	353				
N	1	2	3	4				
n	6	8	10	12				
Weight (kg)	0.8	0.95	1.1	1.25				

② Applicable Controllers

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

Name External Madel number Features Maximum number of Input Power-supply Standard Reference								
Name	view	Model number	Features	positioning points	power	capacity	price	page
Solenoid Valve Type	The second	PMEC-C-28SPI-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P537
Solenoid valve Type		PSEP-C-28SPI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points		Refer to P555	_	→ P547
Solenoid valve multi-axis type PIO specification	lum*	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to		→ P563
Solenoid valve multi-axis type Network specification		MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572	_	7 2503
Positioner type High-output specification	. 41	PCON-CA-28SPI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			_	
Pulse-train type High-output specification		PCON-CA-28SPI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P607
Field network type High-output specification		PCON-CA-28SPI-W-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V		_	
Pulse Train Input Type (Differential Line Driver)		PCON-PL-28SPI-①-2-0	Pulse train input type with differential line driver support	(—)		Refer to P628	_	
Pulse Train Input Type (Open Collector)	-	PCON-PO-28SPI-①-2-0	Pulse train input type with open collector support	()			_	→ P623
Serial Communication Type		PCON-SE-28SPI-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		PSEL-CS-1-28SPI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	_	→ P66

*This is for the single-axis PSEL. * ① indicates I/O type (NP/PN). * ① indicates power supply voltage (1: 100V / 2: 100~240V).
* ② indicates number of axes (1 to 8). * ② indicates field network specification symbol. * □ indicates N (NPN specification) or P (PNP specification) symbol.