Mini tandard

Ro

Mir

ontrollers ntegrated

/Flat Type

Standard

inear Serv. Typ

Cleanroom Type

Splash Proof

DMEO

PSEP /ASEP ROBO

PCOI

SCO

ASE

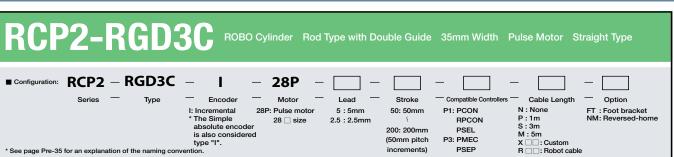
XSE

ulse Moto

Servo Motoi (24V)

Servo Motor (200V)

> Linear ervo Motor





(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.

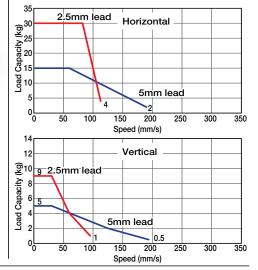
Since the RCP2 series use a pulse motor, the load capacity decreases at high speeds.

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. See the technical resources (page A-83) for the allowable weight using the supplied guide alone.

■ 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	naximum load o	apacity decre	ases as the sp	eed increases.	■ Stro
Model	Lead (mm)	Max. Load Ca Horizontal (kg)	, , ,	Maximum Push Force (N)(Note 2)	000	Lead
RCP2-RGD3C-I-28P-5-①-②-③-④	5	~ 15	~ 5	73.5	50 ∼ 200	5
RCP2-RGD3C-I-28P-2.5-①-②-③-④	2.5	~ 30	~ 9	156.8	(50mm increments)	2.5
Legend: ① Stroke ② Compatible controller ③ Cable length ④	Options	(Note 2) S	See page A-69	for the pushing	force graphs.	

■ Stroke and Maximum Speed				
Stroke Lead	$50\sim 200$ (50mm increments)			
5	187			
2.5	114 <93>			
	(Unit: mm/s)			

① Stroke List

Stroke (mm)	Standard Price
50	-
100	-
150	-
200	_

③ Cable List					
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.

4 Option List			
Name	Option Code	See Page	Standard Price
Foot bracket	FT	→ A-29	-
Reversed-home	NM	→ A-33	-

Description
Ball screw ø8mm C10 grade
±0.02mm
0.1 mm or less
Double guide Guide rod diameter ø10mm Ball bush type
ø22mm
±0.05 deg
0 ~ 40°C, 85% RH or less (non-condensing)

Dimensions

CAD drawings can be downloaded from IAI website. www.intelligentactuator.com

For Special Orders



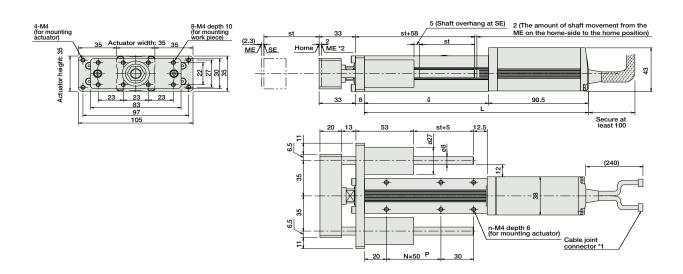




*1. The motor-encoder cable is connected here. See page A-39 for details on cables.

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.



■ Dimensions/Weight by Stroke

Stroke	50	100	150	200				
٤	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)	1.1	1.3	1.4	1.6				

② Compatible Controllers

Name External View Model Description Max. Positioning Points Input Voltage Power Supply Capacity Standard Price See Page												
Name	External view	PMEC-C-28SPI-NP-2-①	Easy-to-use controller, even for beginners	3 points	AC100V	See P481	Standard Frice	→ P477				
Solenoid Valve Type			,		AC200V							
		PSEP-C-28SPI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.		3 points	3 points			-	→ P487		
Splash-Proof Sole- noid Valve Type	p	PSEP-CW-28SPI-NP-2-0	No homing necessary with simple absolute type.				-					
Positioner Type	Ĩ.	PCON-C-28SPI-NP-2-0	Positioning is possible for up to 512 points	512 points			-					
Safety-Compliant Positioner Type		PCON-CG-28SPI-NP-2-0	To stituting is possible for up to 312 points				-					
Pulse Train Input Type (Differential Line Driver)	Ó	PCON-PL-28SPI-NP-2-0	Pulse train input type with differential line driver support	- (-) 64 points 768 points	(-)	DC24V	(-)	(-)	DC24V	2A max.	-	→ P525
Pulse Train Input Type (Open Collector)		PCON-PO-28SPI-NP-2-0	Pulse train input type with open collector support						-			
Serial Communica- tion Type		PCON-SE-28SPI-N-0-0	Dedicated to serial communication				-					
Field Network Type		RPCON-28SP	Dedicated to field network				-	→ P503				
Program Control Type		PSEL-C-1-28SPI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P557				

* This is for the single-axis PSEL.

* ① is a placeholder for the power supply voltage (1: 100V, or 2: 100∼240V).