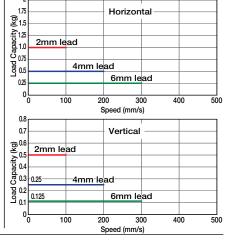


Technical **全** P. A-**5** References

Due to the characteristics of the pulse motor, the RCP3 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.

■ Speed vs. Load Capacity



Notes or

Rod Type Mini
Standard
Controllers Integrated

- (1) The load capacity is based on operation at an acceleration of 0.2G. This is the upper limit of the acceleration.
- 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.
- (3) The maximum pushing force is exerted at 5mm/s.
- (4) If the actuator is used in a dusty environment, its service life will become significantly shorter.
- (5) This model uses a lead screw. Please ensure that your usage is appropriate for its characteristics. (See page Pre-42 for more information.)

Actuator Specifications ■ Lead and Load Capacity

Model	Feed Screw	Lead (mm)	Max. Load Horizontal (kg)		Maximum Push Force (N)	Positioning Repeatability (mm)	Stroke (mm)
RCP3-RA2BC-I-20P-6S-1-2-3-4		6	0.25	0.125			
RCP3-RA2BC-I-20P-4S-①-②-③-④	Lead Screw	4	0.5	0.25	See page A-68.	±0.05	25 ~ 150 (25mm increments)
RCP3-RA2BC-I-20P-2S-①-②-③-④		2	1	0.5			inoromonio,
egend ① Stroke ② Compatible controller ③	Cable le	ngth 4	Options				

■ Stroke and Maximum Speed				
Lead	Stroke	25 (mm)	50 (mm)	75~150 (mm)
ew	6	180	280	300
Lead Screw	4	180	20	00
Les	2		100	

		(1) S	trol	ke l	Lis
--	--	----	-----	------	------	-----

	Standard Price
Stroke (mm)	Feed Screw
	Lead Screw
25	-
50	-
75	-
100	-
125	-
150	-

③ Cable List

	Туре	Cable Symbol	Standard Price
Standard	P (1m)	-	
	(Robot Cables)	S (3m)	-
		M (5m)	-
1		X06 (6m) ~ X10 (10m)	-
	Special Lengths	X11 (11m) ~ X15 (15m)	-
		X16 (16m) ~ X20 (20m)	-

- * The RCP3 comes standard with a robot cable.
- * See page A-39 for cables for maintenance.

④ Option List			
Name	Option Code	See Page	Standard Price
Brake	В	→ A-25	-
	NINA		

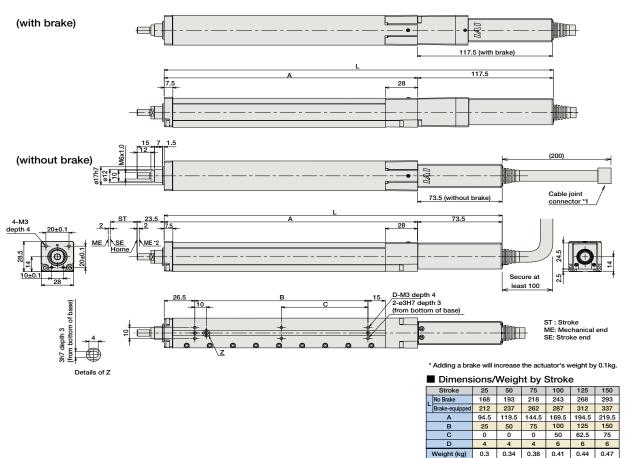
Actuator Specification	ns
Item	Description
Drive System	Lead screw ø6mm C10 grade
Lost Motion	0.3mm or less (initial value)
Base	Material: Aluminum (white alumite treated)
Guide	Sliding guide
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (non-condensing)
Service Life	Horizontal: 5 million cycles Vertical: 10 million cycles

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



Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type	PMEC-C-20PI-NP-2-①		Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477	
Solenoid valve Type	1	PSEP-C-20PI-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-20PI-NP-2-0	No homing necessary with simple absolute type.				-	F407	
Positioner Type	PCON-C-20PI-NP-2-0 PCON-CG-20PI-NP-2-0	PCON-C-20PI-NP-2-0	Positioning is possible for up to 512	512 points			-		
Safety-Compliant Positioner Type		points				-			
Pulse Train Input Type Differential Line Driver)		PCON-PL-20PI-NP-2-0	Pulse train input type with differential line driver support	(-) 64 points 768 points	DC24V	2A max.	-	→ P525	
Pulse Train Input Type (Open Collector)		PCON-PO-20PI-NP-2-0	Pulse train input type with open collector support		(-)			-	
Serial Communication Type		PCON-SE-20PI-N-0-0	Dedicated to serial communication				-		
Field Network Type		RPCON-20P	Dedicated to field network				-	→ P503	

IAI

* This is for the single-axis PSEL.

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

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Mini
Standard
Controllers
Integrated

Rod
Type
Mini
Standard
Controllers
Integrated

fable/Arm
Flat Type

Mini
Standard

PMEC AMEC PSEP ASEP ASEP ASEP ASED SCON PSEL ASEL SSEL