

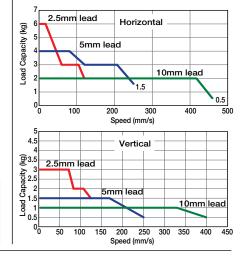
Technical References

Standard
Controllers
Integrated
Rod
Type
Mini
Standard
Controllers
Integrated
Table/Arm
/Flat Type
Mini
Standard

- Since the RCP3 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.
- Please note that the maximum speed is different when used horizontally versus vertically.
- The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 2.5mm-lead model, or when used vertically). This is the upper limit of the acceleration.

■ Speed vs. Load Capacity

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.



## Actuator Specifications ■ Lead and Load Capacity (Note 1) Please note that the maximum load capacity decreases as the speed increases Max. Load Capacity (Note 1) Maximum Push Lead (mm) Stroke Vertical (kg) RCP3-TA5C-I-35P-10-10-2-3-4 10 25~100 RCP3-TA5C-I-35P-5-1 - 2 - 3 - 4 5 ~ 4 $\sim$ 1.5 68 (25mm RCP3-TA5C-I-35P-2.5-1 - 2 - 3 - 4 2.5 136

Stroke an	d Maximum Speed
Stroke	$25 \sim 100$ (25mm increments)
10	465 <400>
5	250
2.5	125
	(Unit: mm/s)

## ① Stroke List

Stroke (mm)	Standard Price
25	-
50	-
75	-
100	-

Legend ①Stroke ②Compatible controller ③Cable length ④Options

## ③ Cable List

(Note 2) See page A-66 for pushing force graphs.

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

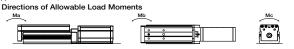
- \* The standard cable is the motor-encoder integrated robot cable.
- \* See page A-39 for cables for maintenance.

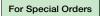
PMEC /AMEC PSEP /ASEP ROBO NET PCON ACON PSEL ASEL SSEL

Option Code	Standard Price	Standard Price
В	→ A-25	-
CJT	→ A-25	-
CJR	→ A-25	-
CJL	→ A-25	-
CJB	→ A-25	-
NM	→ A-33	-
	B CJT CJR CJL CJB	$\begin{array}{ccc} \mathbf{B} & \rightarrow \mathbf{A-25} \\ \mathbf{CJT} & \rightarrow \mathbf{A-25} \\ \mathbf{CJR} & \rightarrow \mathbf{A-25} \\ \mathbf{CJL} & \rightarrow \mathbf{A-25} \\ \mathbf{CJL} & \rightarrow \mathbf{A-25} \\ \mathbf{CJB} & \rightarrow \mathbf{A-25} \end{array}$

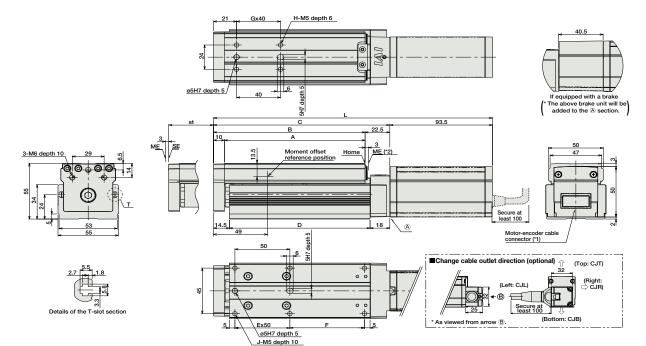
Actuator Specifications	5			
Item	Description			
Drive System	Ball screw ø8mm C10 grade			
Positioning Repeatability	±0.02mm			
Lost Motion	0.1 mm or less			
Base	Material: Material: Aluminum (special alumite treated)			
Allowable Static Moment	Ma: 25.5 N·m Mb: 36.5 N·m Mc: 56.1 N·m			
Allowable Dynamic Moment (*)	Ma: 6.57 N·m Mb: 9.32 N·m Mc: 14.32 N·m			
Overhang Load Length	Within the load moment range			
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)			
(*) Based on a 5.000km servic	e life.			

**273** RCP3-TA5C









■ Dimensions/Weight by Stroke

\* Adding a brake will increase the actuator's weight by 0.3kg

			uio u	otautoi o mo	gin by olong
Str	oke	25	50	75	100
L	No Brake	229	254	279	304
_	Brake-Equipped	269.5	294.5	319.5	344.5
,	Ā	103	128	153	178
E	3	113	138	163	188
(		135.5	160.5	185.5	210.5
	)	103	128	153	178
	<b>E</b>	1	1	2	2
	F	43	68	43	68
(	3	1	1	2	2
ı	+	4	4	6	6
	J	6	6	8	8
Weigl	nt (kg)	1.2	1.4	1.5	1.7

(\*1) The motor-encoder cable (integrated) is connected. (See page A-39 for details on cables.)

(\*2) After homing, the slider moves to the ME; therefore, please watch for any interference with the surrounding objects.

ME: Mechanical end

SE: Stroke end

The RCP3 serie	es actuators car	operate with the co	ntrollers below. Select the controller ac	cording to your usag	je.			
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Solenoid Valve Type		PMEC-C-35PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477
Solenoid valve Type	PSEP-C	PSEP-C-35PI-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	1	PSEP-CW-35PI-NP-2-0	No homing necessary with simple absolute type.				-	
Positioner Type		PCON-C-35PI-NP-2-0	Positioning is possible for up to 512 points	512 points			-	→ P525
Safety-Compliant Positioner Type		PCON-CG-35PI-NP-2-0	rosuorinig is possible for up to 512 points		DC24V		-	
Pulse Train Input Type Differential Line Driver)	<u>,                                    </u>	PCON-PL-35PI-NP-2-0	Pulse train input type with differential line driver support	(-)			-	
Pulse Train Input Type (Open Collector)		PCON-PO-35PI-NP-2-0	Pulse train input type with open collector support				-	
Serial Communication Type		PCON-SE-35PI-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RPCON-35P	Dedicated to field network	768 points			-	→ P503
Program Control Type		PSEL-C-1-35PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P557

IAI

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