Slider Type

Standard

ntegrated

Ro Typ

IVIII

ontrollers ntegrated

/Flat Typ

Standard

Rotary Type

Cleanroom Type

Splash Proo

CONTROLLE

PSEP /ASEP

ERC2

ACON

PSEL

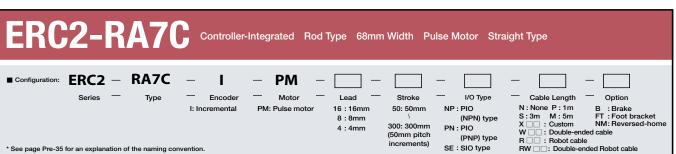
SSEI

Pulse Moto

Servo Moto (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.

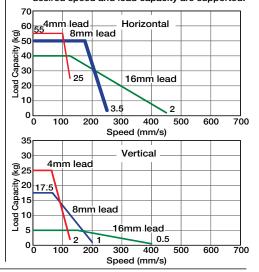
Since the ERC2 series use a pulse motor, the load capacity decreases at high speeds. Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.

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

(4) The value for the horizontal load capacity is with an external guide.

■ Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the ERC2 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.



	Actuator Specifications							
	<u> </u>							
	■ Lead and Load Capacity (Note 1) Please n	Stroke and Maximum Speed						
	Model	Lead	Max. Load Cap	pacity (Note 1)	Maximum Push Stroke		Stroke	50~300
		(mm)	Horizontal (kg)	Vertical (kg)	Force (N)(Note 2)	(mm)	Lead	(50mm increments)
	ERC2-RA7C-I-PM-16-1 - 2 - 3 - 4	16	~ 40	~ 5	220		16	450 <400>
						50~300		
	ERC2-RA7C-I-PM-8-①-②-③-④	8	~ 50	~ 17.5	441	(50mm increments)	8	250 <200>
	ERC2-RA7C-I-PM-4-①-②-③-④	4	~ 55	~ 25	873	increments)	4	125
Legend Stroke 2 I/O Type 3 Cable length 4 Options (Note 2) See page A						force graphs.	* The values enclosed	lin < > apply for vertical usage. (Unit: mm/s)

① Stroke List						
Stroke (mm)	Standard Price					
50	-					
100	-					
150	-					
200	-					
250	-					
300	-					

Туре	Cable Symbol	Standard Price
Standard	P (1m)	_
	S (3m)	-
	M (5m)	_
Special Lengths	X06 (6m) ~ X10 (10m)	_
	W01 (1m) ~ W03 (3m)	_
Double-Ended	W04 (4m) ~ W05 (5m)	-
	W06 (6m) ∼ W10 (10m)	_
Robot Cable	R01 (1m) ~ R03 (3m)	-
	R04 (4m) ~ R05 (5m)	-
	R06 (6m) ~ R10 (10m)	-
Double-Ended Robot Cable	RW01 (1m)~ RW03 (3m)	_
	RW04 (4m)~ RW05 (5m)	-
	RW06 (6m)~ RW10 (10m)	_

The values in < > apply to the SE type.
* See page A-39 for cables for maintenance.

Actuator Specifications

③ Cable List

4 Option List									
Name	Option Code	See Page	Standard Price						
Brake	В	→ A-25	-						
Foot bracket	FT	→ A-29	-						
Reversed-home	NM	→ A-33	-						
	1	, A-00							

Description
Description
Ball screw ø12mm C10 grade
±0.02mm
0.1mm or less
ø30mm special SUS type
±1.5 deg
0 ~ 40°C, 85% RH or less (non-condensing)

Dimensions

For Special Orders

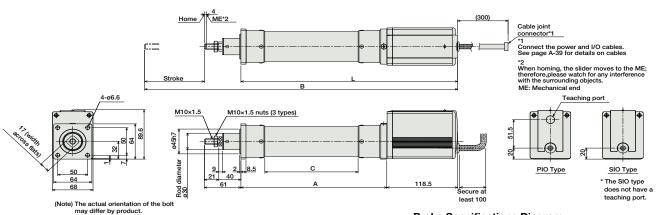






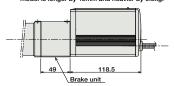
Note:

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.



Brake Specifications Diagram

* Compared to the standard model, the brake-equipped model is longer by 49mm and heavier by 0.5kg.



■ Dimensions/Weight by Stroke

Stroke	50	100 150		200	250	300	
L	312.5	362.5	412.5	462.5	512.5	562.5	
Α	194	244	294	344	394	444	
В	423.5	523.5	623.5	723.5	823.5	923.5	
С	106	156	206	256	306	356	
Weight (kg)	2.7	2.9	3.0	3.2	3.3	3.5	

I/O Type (Built-In Controller)

② I/O Type

The integrated controller in the ERC2 series can be selected from the following 3 types based on the type of external input and output (I/O). Select the controller according to your applications.

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
PIO Type (NPN)		ERC2-RA7C-I-PM	Easy to control, capable of positioning up to 16 points	16				
PIO Type (PNP)	ERC2-RA7C-I-PM		Supports the PNP I/O, commonly used overseas.	16	DC24V	2A max.	-	→ P515
SIO Type		ERC2-RA7C-I-PMSE	For connecting to a field network (gateway unit used)	64				