www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru



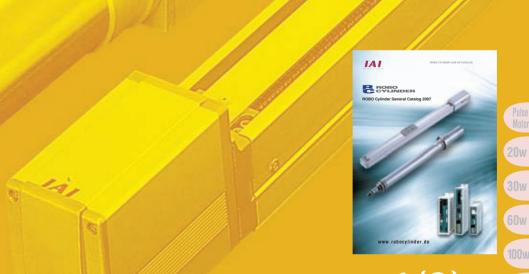
	Slider type	Motor straight type		Width 58mm	ERC2-SA6C	3
				Width 68mm	ERC2-SA7C	5
	Rod type	Standard type		Width 58mm	ERC2-RA6C	7
ERC2				Width 68mm	ERC2-RA7C	9
		Guide type	Single-guide type	Width 58mm	ERC2-RGS6C	11
series				Width 68mm	ERC2-RGS7C	13
			Double-guide type	Width 58mm	ERC2-RGD6C	15
				Width 68mm	ERC2-RGD7C	17





ERC2

# **Controller-Integrated Type**



100w

150w





Rod Type

vrm / Flat Type

Gripper/ Rotary Type

leanroom Type

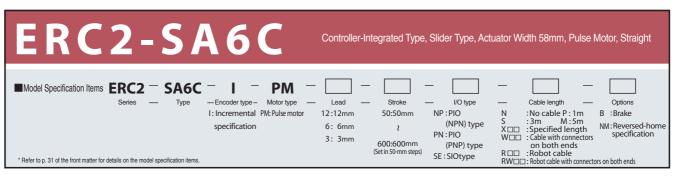
Splash Proof Typ

Contr



68 mm

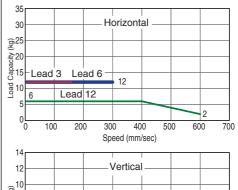
## ERC2 ROBO Cylinder





#### ■ Correlation Diagram of Speed and Load Capacity

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.





- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire.
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 3 or the actuator is operated vertically). This is the maximum acceleration.

	(	0 10	0 20		0 40 eed (mm		500	600	700
	14				l	1			
	12			<u> </u>	/ertica	l	_		_
1	<sub>3</sub> 10						_		_
1	<u> </u>								_
0	6	Lead	3						_
3	10 8 00 4 2 2 4 2 8 01 4 2 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2	-3	igstyle igytyle igstyle igytyle	ead 6					
-	2	_1.5		12_	2.5				
	0							1	
	(	0 10	0 20		0 40 eed (mm		500	600	700
_				Sμ	ccu (IIIIII	1300)			

Lead and Load Capacity (Not	e 1) Take note that the max	imum load capacity	will decrease as th	e speed increases.	■ Stroke and	d Maximum 9
Model	Lead (mm)	Maximum load of Horizontal (kg)		Stroke (mm)	Stroke	50 ~ 600 (Set in 50-mm steps)
ERC2-SA6C-I-PM-12-1-2-3-4	12	~6	~1.5		12	600
ERC2-SA6C-I-PM-6-①-②-③-④	6	12	~3	50 ~ 600 (Set in 50-mm steps)	6	300
ERC2-SA6C-I-PM-3-1-2-3-4	3	12	~6		3	150



20 w

30w

60w

100w

150<sub>W</sub>

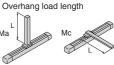
Options		
Name	Model	Page
Brake	В	P381
Reversed-home specification	NM	P385

Actuator Specifications	
Item	Description
Drive method	Ball screw Ø10mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Allowable load moment	Ma: 8.9N • m Mb: 12.7N • m Mc: 18.6N • m
Overhang load length	Ma direction: 150mm or less, Mb/Mc directions: 150mm or less
Ambient operating temperature, humidity	0~40 C, 85% RH or below (non-condensing)

Direction of allowable load moment



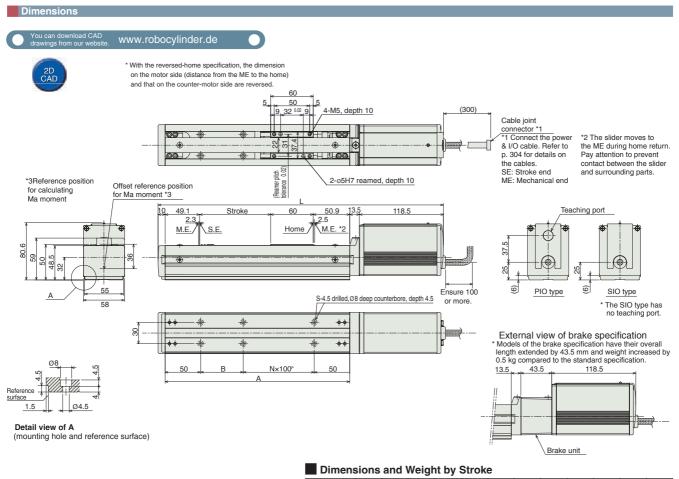




Speed

515 255 125 (Unit: mm/s)





N	1	1	
_			

Stroke	50	100	150	200	250	300	350	400	450	500	550	600
L	352	402	452	502	552	602	652	702	752	802	852	902
Α	210	260	310	360	410	460	510	560	610	660	710	760
В	10	60	10	60	10	60	10	60	10	60	10	60
N	1	1	2	2	3	3	4	4	5	5	6	6
S	6	6	8	8	10	10	12	12	14	14	16	16
Weight (kg)	1.9	2.0	2.1	2.3	2.4	2.6	2.7	2.8	3.0	3.1	3.3	3.4

	I/O Type You can select a desired built-in controller of the ERC2 series from among the following three types, each adopting different external input/output (I/O) specifications. Choose the type that best suits your							
Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference pag	
PIO type (NPN specification)		ERC2-SA6C-I-PM-D-D-NP-D-D	Simple control type capable of positioning to a maximum of 16 points	16				
PIO type (PNP specification)		ERC2-SA6C-I-PM-[]-[]-PN-[]-[]	PNP I/O type popular overseas	16	DC24V	2A max.	→ P295	
SIO type		ERC2-SA6C-I-PM-□-□-SE-□-□	Dedicated field network connection type (using a gateway unit)	64				

Rod Type

58 mm

68 mm

60w

100w

150w





Rod Type

rm / Flat Type

Gripper / lotary Type

Cleanroom Type

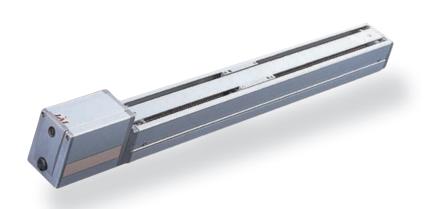
Splash roof Type

Controller

58 mm

68 mm ERC2 ROBO Cylinder

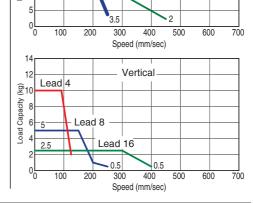
#### **ERC2-SA7C** Controller-Integrated Type, Slider Type, Actuator Width 68mm, Pulse Motor, Straight ■Model Specification Items **ERC2** — **SA7C** Motor type I/O type Cable length Options NP:PIO I: Incremental PM:Pulse motor 16: 16mm :No cable P:1m :3m M:5m B :Brake 50:50mm (NPN) type specification 8: 8mm S : 3m M:5m X □ : Specified length W □ : Cable with connectors on both ends R □ : Robot cable NM:Reversed-home specification PN:PIO 600:600mm (PNP) type SE:SIOtype \* Refer to p. 31 of the front matter for details on the model specification items RW : Robot cable with connectors on both ends



With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.

35
30
Horizontal

Lead 4
Lead 16
Lead 8



# ection (2)

- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire.
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 4 or the actuator is operated vertically). This is the maximum acceleration.

#### Actuator Specifications ■ Lead and Load Capacity (Note 1) Take note that the maximum load capacity will decrease as the speed increases. ■ Stroke and Maximum Speed Lead (mm) Maximum load capacity (Note 1) Stroke (mm) Stroke Horizontal (kg) Vertical (kg) ERC2-SA7C-I-PM-16-1-2-3-4 450 <400> 16 16 50 ~ 600 ERC2-SA7C-I-PM-8-11-2-3-4 8 ~20 ~5 250 8 et in 50-mm ste ERC2-SA7C-I-PM-4-(1)-(2)-(3)-(4) 20 ~10 Explanation of numbers ① Stroke ② I/O type ③Cable length ④ Options \* The figure in < > applies when the actuator is used vertically. (Unit: mm/s)



20w

30w

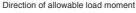
60w

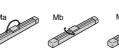
100w

150v

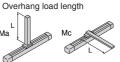
Options		
Name	Model	Page
Brake	В	P381
Reversed-home specification	NM	P385

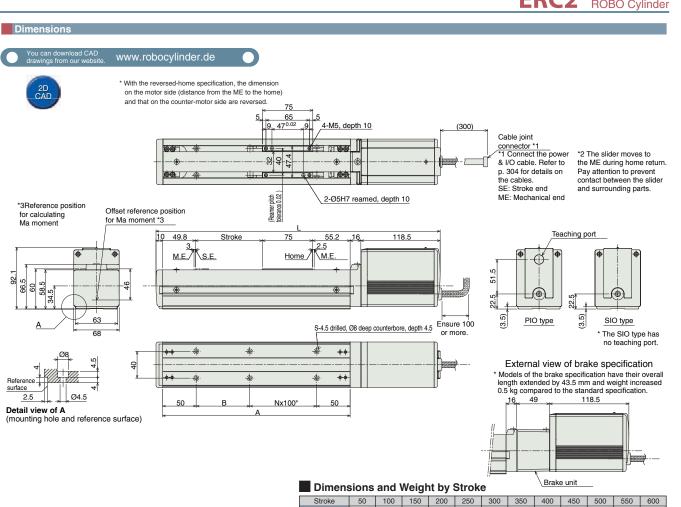
Actuator Specifications	
Item	Description
Drive method	Ball screw Ø10mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Allowable load moment	Ma: 13.8N • m Mb: 19.7N • m Mc: 29.0N • m
Overhang load length	Ma direction: 150mm or less, Mb/Mc directions: 150mm or less
Ambient operating temperature, humidity	0~40C, 85% RH or below (non-condensing )











374.5

230

30 80 30

6

3.1

В

Weight (kg)

424.5 474.5

280 330

3.2

2 2

8 | 8 | 10 | 10

3.4 3.6 3.7

524.5 574.5

380 430

80 30 80 30 80 30 80 30

624.5 674.5

480 530

12

3 4

3.9 4.0 4.2 4.3 4.5

724.5 774.5 824.5

5 5

14 | 14 | 16

680

580 630

12

874.5 924.5

730 780

6

4.6

80

6

16

4.8

		roller of the ERC2 series from among the fol	llowing three types, e	ach adopting different external in	put/output (I/O) specit	ications. Choose the type	that best suits yo
specific purpose	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference page
PIO type (NPN specification)		ERC2-SA7C-I-PM-□-□-NP-□-□	Simple control type capable of positioning to a maximum of 16 points	16			→P295
PIO type (PNP specification)		ERC2-\$A7C-I-PM-□-□-PN-□-□	PNP I/O type popular overseas	16	DC24V	2A max.	
SIO type		ERC2-SA7C-I-PM-□-□-SE-□-□	Dedicated field network connection type (using a gateway unit)	64			

Slider Type

Rod Type

Arm / F

Gripper / Rotary Tyn

Cleanroor

Splas

Control

58

68 mm

Pulse Motor

ZUW

30w 60w

100w

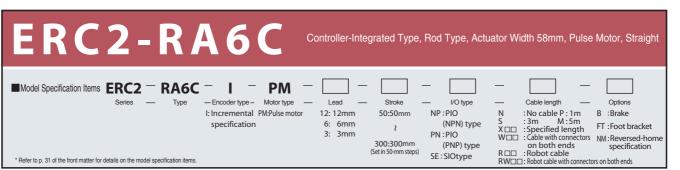
1001

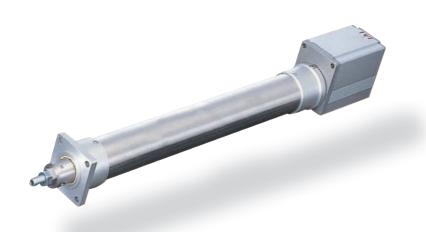




68 mm

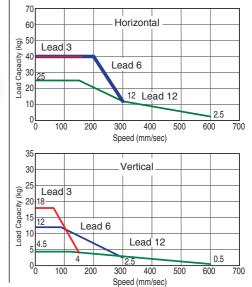
ERC2 ROBO Cylinder





Correlation Diagram of Speed and Load Capacity

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.



- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 3 or the actuator is operated vertically). This is the maximum acceleration.

  (4) The horizontal load capacity assumes use of an external guide

#### Actuator Specifications ■ Lead and Load Capacity (Note 1) Take note that the maximum load capacity will decrease as the speed increases. ■ Stroke and Maximum Speed Maximum load capacity (Note 1) Max. holding push Horizontal (kg) Vertical (kg) force (N) (Note 2) Lead (mm) Stroke (mm) ERC2-RA6C-I-PM-12-1 -2 -3 -4 12 50 ~ 300 ERC2-RA6C-I-PM-6-1 -2 -3 -4 6 ~40 ~12 157 (Set in 50-mm step ERC2-RA6C-I-PM-3-1-2-3-4 ~18

Lead	(Set in 50-mm steps)	(mm)
12	600	500
6	300	255
3	150	125
		(Unit: mm/s)

60w

Options		
Name	Model	Page
Brake	В	P381
Foot bracket	FT	P383
Reversed-home specification	NM	P385

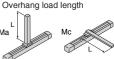
Explanation of numbers Stroke I/O type Cable length Options

Actuator Specifications	
Item	Description
Drive method	Ball screw Ø10mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Rod diameter	Ø22mm, dedicated SUS pipe
Rod non-rotation accuracy	1.5
Ambient operating temperature, humidity	0~40C, 85% RH or below (non-condensing)

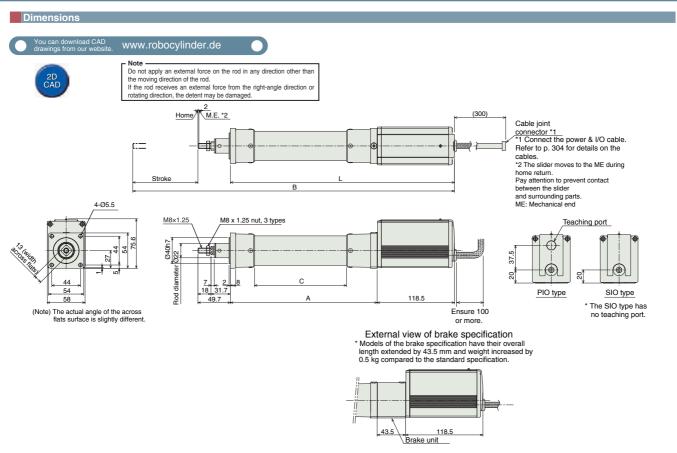
Direction of allowable load moment

(Note 2) Refer to p. 406 for the graph of holding push force









#### ■ Dimensions and Weight by Stroke

Difficitsions and weight by Stroke							
Stroke	50	100	150	200	250	300	
L	293.5	343.5	393.5	443.5	493.5	543.5	
Α	175	225	275	325	375	425	
В	393.2	493.2	593.2	693.2	793.2	893.2	
С	91	141	191	241	291	341	
Weight (kg)	1.6	1.7	1.8	2.0	2.1	2.2	

I/O Type							
You can select a specific purpose		roller of the ERC2 series from among the fol	lowing three types, e	ach adopting different external in	put/output (I/O) specit	fications. Choose the type	that best suits y
Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference pag
PIO type (NPN specification)		ERC2-RA6C-I-PM-🗆-🗆-NP-🗆-🗆	Simple control type capable of positioning to a maximum of 16 points	16			
PIO type (PNP specification)		ERC2-RA6C-I-PM-□-□-PN-□-□	PNP I/O type popular overseas	16	DC24V	2A max.	→P295
SIO type		ERC2-RA6C-I-PM-[]-[]-SE-[]-[]	Dedicated field network connection type (using a gateway unit)	64			

Rod Type

58 mm

68 mm

Pulse Motor 20w

30w

60w 100w

150w



ERC2 **ROBO** Cylinder

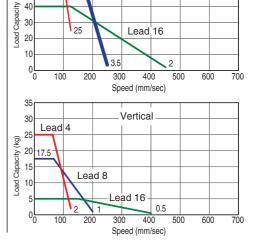
#### C2-RA7C Controller-Integrated Type, Rod Type, Actuator Width 68mm, Pulse Motor, Straight ■Model Specification Items **ERC2** — **RA7C** Motor type I/O type Cable length Options N S X 🗆 🗆 W 🗆 🗆 NP:PIO B :Brake I: Incremental PM:Pulse motor 50:50mm :No cable P:1m :3m M:5m 16: 16mm (NPN) type specification 8: 8mm : 3m M:5m : Specified length : Cable with connectors on both ends : Robot cable FT :Foot bracket γ PN:PIO NM:Reversed-home specification 600:600mm (PNP) type R : Robot cable RW: Robot cable with connectors on both ends SE:SIOtype \* Refer to p. 31 of the front matter for details on the model specification items



**■** Correlation Diagram of Speed and Load Capacity With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied. Lead 4 Horizontal

Lead 8

60 <u>®</u> 50



- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical
- speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.

  (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire.
- (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 4 or the actuator is operated vertically). This is the maximum acceleration.
- (4) The horizontal load capacity assumes use of an external guide.

Explanation of numbers Stroke I/O type Cable length Options

#### Actuator Specifications ■ Lead and Load Capacity (Note 1) Take note that the maximum load capacity will decrease as the speed increases ■ Stroke and Maximum Speed Maximum load capacity (Note 1) Max. holding push Horizontal (kg) Vertical (kg) force (N) (Note 2) Lead (mm) Stroke (mm) Stroke ERC2-RA7C-I-PM-16-1-2-3-4 16 16 50 ~ 300 ERC2-RA7C-I-PM-8-11-2-3-4 8 ~50 ~17.5 441 8 (Set in 50-mm step ERC2-RA7C-I-PM-4-1 -2 -3 -4 ~55



60w

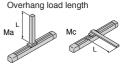
Options		
Name	Model	Page
Brake	В	P381
Foot bracket	FT	P384
Reversed-home specification	NM	P385

Actuator Specifications	
Item	Description
Drive method	Ball screw Ø12mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Rod diameter	Ø30mm, dedicated SUS pipe
Rod non-rotation accuracy	1.5
Ambient operating temperature, humidity	0~40C, 85% RH or below (non-condensing)



(Note 2) Refer to p. 406 for the graph of holding push force.





50 ~ 600 (Set in 50-mm steps)

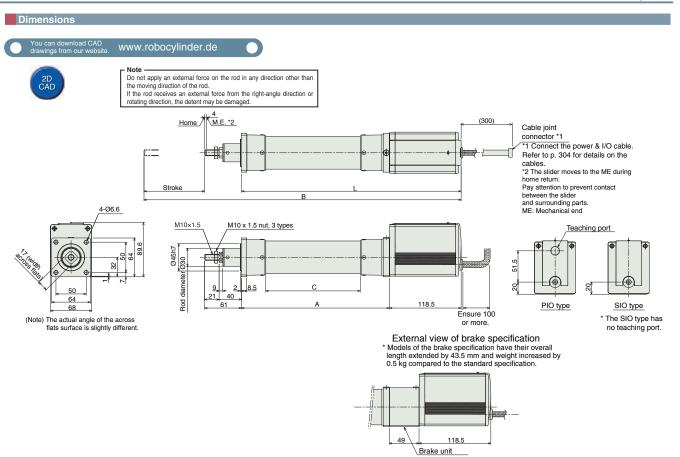
450 <400>

250 <200>

 $^{\star}$  The figure in < > applies when the actuator is used vertically. (Unit: mm/s)







Billiensions and weight by Stroke							
Stroke	50	100	150	200	250	300	
L 31	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	

		roller of the ERC2 series from among the fol	lowing three types, e	ach adopting different external in	put/output (I/O) specit	fications. Choose the type	that best suits yo	
specific purpose.	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference pag	
PIO type (NPN specification)		ERC2-RA6C-I-PM-□-□-NP-□-□	Simple control type capable of positioning to a maximum of 16 points	16				
PIO type (PNP specification)		ERC2-RA6C-I-PM-□-□-PN-□-□	PNP I/O type popular overseas	16	DC24V	2A max.	→P295	
SIO type		ERC2-RA6C-I-PM-□-□-SE-□-□	Dedicated field network connection type (using a gateway unit)	64				

Controller -Integrated Type

Type

Rod Type

Arm / Fla

Gripper/ Rotary Typ

'/ Clea

eanroom Tyne

Splash Proof Type

Controller

58 mm

68 mm

> Pulse Motor

30w

60w

100w

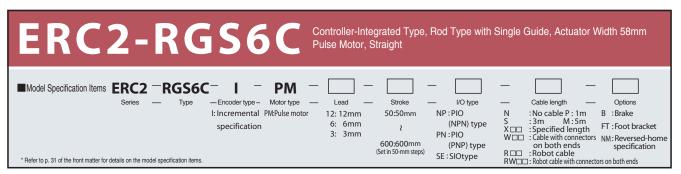
150w

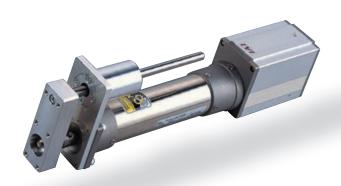






#### ERC2 ROBO Cylinder



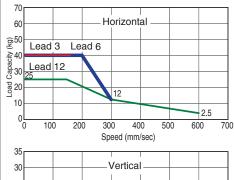


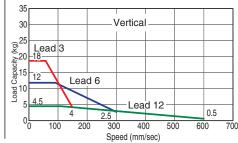
- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire. Subtract the guide weight (refer to the facing page) from the load capacity.

  (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 3 or the
- actuator is operated vertically). This is the maximum acceleration.
- (4) The horizontal load capacity assumes use of an external guide.

#### ■ Correlation Diagram of Speed and Load Capacity

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.





Actuator Specifications							
■ Lead and Load Capacity (Note 1) Take note that the maximum load capacity will decrease as the speed increases.							
Model	Lead			Max. holding push	Stroke		
	(mm)	Horizontal (kg)	vertical (kg)	force (N) (Note 2)	(mm)		
ERC2-RGS6C-I-PM-12-1-2-3-4	12	~25	~4.5	78			
ERC2-RGS6C-I-PM-6-1-2-3-4	6	~40	~12	157	50 ~ 300 (Set in 50-mm steps)		
ERC2-RGS6C-I-PM-3-1-2-3-4	3	40	~18	304			
Explanation of numbers  Stroke  Note 2 I/O type  Cable length  Options (Note 2) Refer to p. 406 for the graph of holding push force.							

Stroke Lead	50 ~ 250 (Set in 50-mm steps)	300 (mm)
12	600	500

■ Stroke and Maximum Speed

300 250 150 125 (Unit: mm/s)

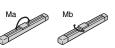
60w

100w

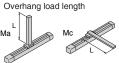
Options		
Name	Model	Page
Brake	В	P381
Foot bracket	FT	P383
Reversed-home specification	NM	P385

Actuator Specifications	
Item	Description
Drive method	Ball screw Ø10mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Rod diameter	Ø22mm, dedicated SUS pipe
Rod non-rotation accuracy	1.5
Ambient operating temperature, humidity	0~40C, 85% RH or below (non-condensing)

Direction of allowable load moment



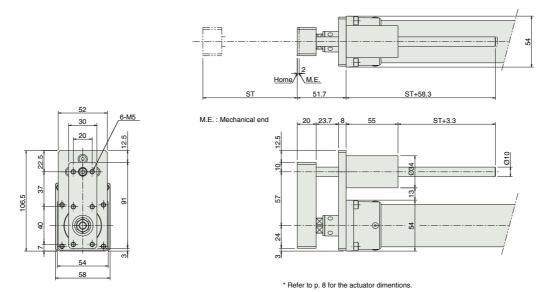












#### ■ Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300	
Guide weight (kg)	0.2	0.2	0.3	0.3	0.3	0.4	
Guide + actuator weight (kg)	1.8	1.9	2.1	2.3	2.4	2.6	

I/O Type							
You can select a specific purpose		roller of the ERC2 series from among the foll	lowing three types, ea	ach adopting different external in	put/output (I/O) specif	fications. Choose the type	that best suits yo
Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference pag
PIO type (NPN specification)		ERC2-RGS6C-I-PM-D-D-NP-D-D	Simple control type capable of positioning to a maximum of 16 points	16			
PIO type (PNP specification)		ERC2-RGS6C-I-PM-II-II-PN-II-II	PNP I/O type popular overseas	16	DC24V	2A max.	→ P295
SIO type		ERC2-RGS6C-I-PM-D-D-SE-D-D	Dedicated field network connection type (using a gateway unit)	64			

ller - Slid

Slider Type

Rod Type

> Arm / Flat Type

Gripper/ Rotary Typ

Cleanr

n Spla

Controlle

58 mm

68 mm

30w 60w 100w

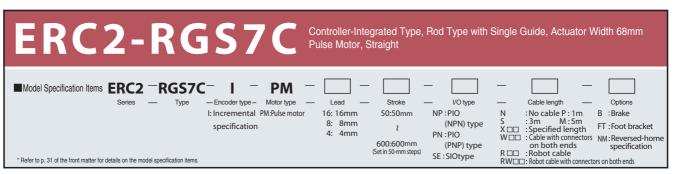
150w

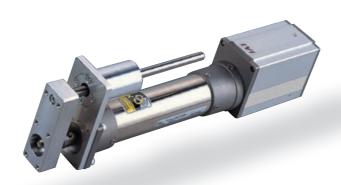
**20**w

ERC2-RGS6C

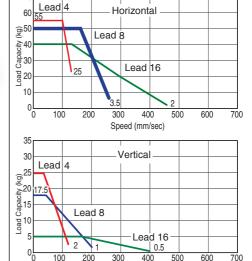


ERC2 ROBO Cylinder





**■** Correlation Diagram of Speed and Load Capacity With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.



Speed (mm/sec)

50 ~ 300 (Set in 50-mm steps)

450 <400>

250 <200>

(Unit: mm/s)

- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire. Subtract the guide weight (refer to the facing page) from the load capacity.

  (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 4 or the
- actuator is operated vertically). This is the maximum acceleration.
- (4) The horizontal load capacity assumes use of an external guide.

#### Actuator Specifications ■ Lead and Load Capacity (Note 1) Take note that the maximum load capacity will decrease as the speed increases. ■ Stroke and Maximum Speed Lead (mm) Maximum load capacity (Note 1) Max. holding push Stroke (mm) Stroke Horizontal (kg) | Vertical (kg) | force (N) (Note 2) ERC2-RGS7C-I-PM-16- (1)-(2)-(3)-(4) 16 16 50 ~ 300 ERC2-RGS7C-I-PM-8-1-2-3-4 8 ~50 ~17.5 8 441 Set in 50-mm ster ERC2-RGS7C-I-PM-4-1)-2-3-4 ~55 873 Explanation of numbers Stroke I/O type Cable length Options (Note 2) Refer to p. 406 for the graph of holding push force.



60w

Options		
Name	Model	Page
Brake	В	P381
Foot bracket	FT	P384
Reversed-home specification	NM	P385

Actuator Specifications	
Item	Description
Drive method	Ball screw Ø12mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Rod diameter	Ø30mm, dedicated SUS pipe
Rod non-rotation accuracy	1.5
Ambient operating temperature, humidity	0~40C, 85% RH or below (non-condensing)

Direction of allowable load moment



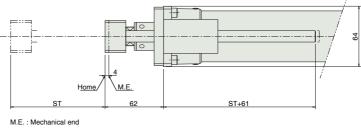


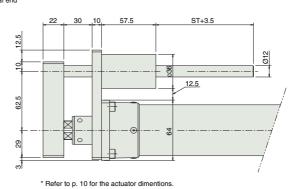












#### ■ Dimensions and Weight by Stroke

Stroke	50	100	150	200	250	300
Guide weight (kg)	0.3	0.3	0.4	0.4	0.5	0.5
Guide + actuator weight (kg)	3.0	3.2	3.4	3.6	3.8	4.0

I/O Type							
You can select a specific purpose		troller of the ERC2 series from among the fol	llowing three types, e	ach adopting different external in	put/output (I/O) specit	fications. Choose the type	that best suits you
Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference page
PIO type (NPN specification)		ERC2-RGS7C-I-PM	Simple control type capable of positioning to a maximum of 16 points	16		2A max.	→P295
PIO type (PNP specification)		ERC2-RGS7C-I-PM-□-□-PN-□-□	PNP I/O type popular overseas	16	DC24V		
SIO type		ERC2-RGS7C-I-PM-II-II-SE-II-II	Dedicated field network connection type (using a gateway unit)	64			

Rod Type

68 mm

Pulse Motor

20w

30w

60w

100w

150w

ERC2-RGS7C



Slider Type

Rod

rm / Flat Type

Gripper/ otary Type

Sleanroom Type

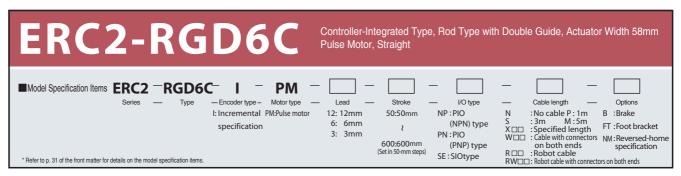
Splash roof Type

Controller

58 mm

> bo mm

ERC2 ROBO Cylinder

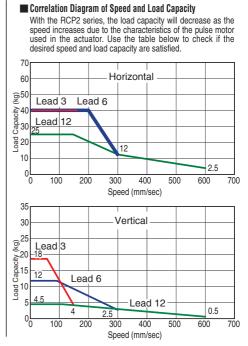




Selection Points

- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to the speed you desire. Subtract the guide weight (refer to the facing page) from the load capacity.
- the speed you desire. Subtract the guide weight (refer to the facing page) from the load capacity.

  (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 3 or the
- actuator is operated vertically). This is the maximum acceleration.
  (4) The horizontal load capacity assumes use of an external guide.



Actuator Specifications						
■ Lead and Load Capacity (Note 1) Take note that the maximum load capacity will decrease as the speed increases.						
Model Lead (mm) Horizontal (kg) Vertical (kg) Max. holding push force (N) (Note 2) (mm) Stroke						
ERC2-RGD6C-I-PM-12-①-②-③-④	12	~25	~4.5	78		
ERC2-RGD6C-I-PM-6-1-2-3-4	6	~40	~12	157	50 ~ 300 (Set in 50-mm steps)	
ERC2-RGD6C-I-PM-3-1-2-3-4	3	40	~18	304		
Explanation of numbers Stroke I/O type Cable length	4 Options	1)	Note 2) Refer to p.	406 for the graph o	f holding push force.	

Stroke Lead	50 ~ 250 (Set in 50-mm steps)	300 (mm)
12	600	500
6	300	250
3	150	125
		(Unit: mm/s)

■ Stroke and Maximum Speed

Pulse Motor

20w

30w

60w

100w

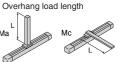
150w

Options		
Name	Model	Page
Brake	В	P381
Foot bracket	FT	P383
Reversed-home specification	NM	P385

Actuator Specifications	
Item	Description
Drive method	Ball screw Ø10mm, rolled C10
Positioning repeatability	±0.05mm
Backlash	0.1mm or less
Rod diameter	Ø22mm, dedicated SUS pipe
Rod non-rotation accuracy	1.5
Ambient operating temperature, humidity	0~40C, 85% RH or below (non-condensing)

Direction of allowable load moment



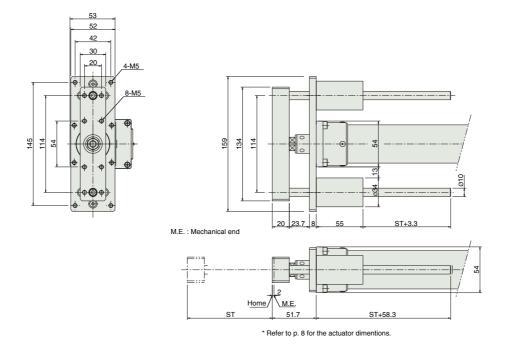












#### ■ Dimensions and Weight by Stroke

<u> </u>							
Stroke	50	100	150	200	250	300	
Guide weight (kg)	0.4	0.4	0.5	0.6	0.6	0.7	
Guide + actuator weight (kg)	2.0	2.1	2.3	2.6	2.7	2.9	

I/O Type									
You can select a specific purpose		roller of the ERC2 series from among the foll	lowing three types, e	ach adopting different external in	put/output (I/O) specif	ications. Choose the type	that best suits you		
Name	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference page		
PIO type (NPN specification)		ERC2-RGD6C-I-PM	Simple control type capable of positioning to a maximum of 16 points	16					
PIO type (PNP specification)		ERC2-RGD6C-I-PM	PNP I/O type popular overseas	16	DC24V	2A max.	→ P295		
SIO type		ERC2-RGD6C-I-PM-D-D-SE-D-D	Dedicated field network connection type (using a gateway unit)	64					

ntroller rrated Tyne

Slider Type

Rod Type

Arm / Fla

Gripper/ Rotary Typ

per/ Clr / Type

anroom

Splash Proof Type

Controller

58 mm

68 mm

Pulse Motor

20w

30w

100w

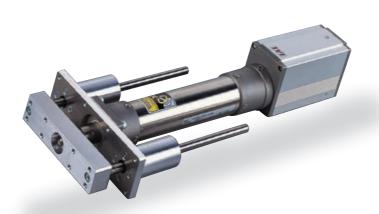
150w

ERC2-RGD6C



ERC2 ROBO Cylinder

#### **ERC2-RGD7C** Controller-Integrated Type, Rod Type, Actuator Width 68mm, Pulse Motor, Straight ■Model Specification Items **ERC2** —**RGD7C** Type Motor type Lead I/O type Cable length Options I: Incremental PM:Pulse motor NP:PIO B :Brake 16: 16mm : No cable P: 1m 50:50mm 3m 8: 8mm (NPN) type S:3m M:5m Specified length W: Specified length W: Cable with connectors on both ends R: Cable with connectors on both ends R: Robot cable RW: Robot cable RW: Robot cable with connectors on both ends specification FT : Foot bracket 4. 4mm PN:PIO NM: Reversed-home specification 600:600mm (PNP) type SE:SIOtype \* Refer to p. 31 of the front matter for details on the model specification items.



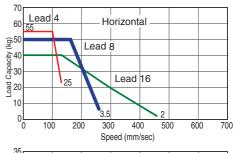
- (1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching a critical speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
- (2) The ERC2 series uses a pulse motor, so the load capacity will decrease as the speed increases. Use the correlation diagram of speed and load capacity on the right to check the load capacity corresponding to
- the speed you desire. Subtract the guide weight (refer to the facing page) from the load capacity.

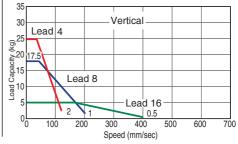
  (3) The load capacity is based on operation at an acceleration of 0.3 G (or 0.2 G if the lead is 4 or the actuator is operated vertically). This is the maximum acceleration.
- (4) The horizontal load capacity assumes use of an external guide.

Explanation of numbers Stroke I/O type Cable length Options

#### Correlation Diagram of Speed and Load Capacity

With the RCP2 series, the load capacity will decrease as the speed increases due to the characteristics of the pulse motor used in the actuator. Use the table below to check if the desired speed and load capacity are satisfied.





#### **Actuator Specifications** ■ Lead and Load Capacity (Note 1) Take note that the maximum load capacity will decrease as the speed increases. Lead (mm) Maximum load capacity (Note 1) Max. holding push Horizontal (kg) | Vertical (kg) | force (N) (Note 2) ERC2-RGD7C-I-PM-16-1-2-3-4 16 50 ~ 300 ERC2-RGD7C-I-PM-8-1-2-3-4 8 ~50 ~17.5 441 Set in 50-mm ster ERC2-RGD7C-I-PM-4-11-2-3-4 ~55 873

						<u>'</u>	
d c	apacity (Note 1)	Max. holding push	Stroke		Stroke	50 ~ 300	
g)	Vertical (kg)	force (N) (Note 2)	(mm)		Lead	(Set in 50-mm steps)	
	~5	220			16	450 <400>	
	~17.5	441	50 ~ 300 (Set in 50-mm steps)		8	250 <200>	
	~25	873			4	125	
(Note 2) Refer to p. 406 for the graph of holding push force.					* The figure in < > applies v	when the actuator is used vertically. (Unit: mm/s)	

■ Stroke and Maximum Speed

Pulse	
Motor	
الفافات	,

60w

100w

Options		
Name	Model	Page
Brake	В	P381
Foot bracket	FT	P384
Reversed-home specification	NM	P385

Actuator Specifications						
Item	Description					
Drive method	Ball screw Ø12mm, rolled C10					
Positioning repeatability	±0.05mm					
Backlash	0.1mm or less					
Rod diameter	Ø30mm, dedicated SUS pipe					
Rod non-rotation accuracy	1.5					
Ambient operating temperature, humidity	0~40C, 85% RH or below (non-condensing)					

Direction of allowable load moment

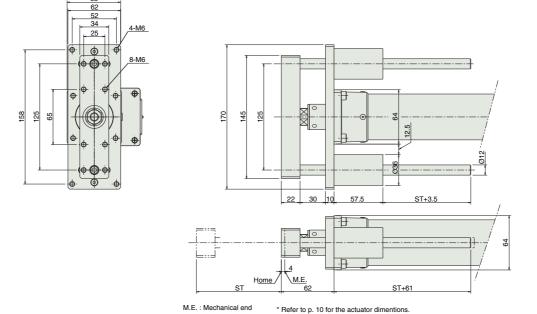












#### ■ Dimensions and Weight by Stroke

		_	•			
Stroke	50	100	150	200	250	300
Guide weight (kg)	0.5	0.6	0.7	0.8	0.9	1.0
Guide + actuator weight (kg)	3.2	3.5	3.7	4.0	4.2	4.5

		troller of the ERC2 series from among the foll	lowing three types, e	ach adopting different external in	put/output (I/O) specit	ications. Choose the type	that best suits you	
specific purpose	External view	Model	Features	Maximum number of positioning points	Input power supply	Power-supply capacity	Reference page	
PIO type (NPN specification)		ERC2-RGD7C-I-PM-[]-[]-NP-[]-[]	Simple control type capable of positioning to a maximum of 16 points	16	mpa para dippy	, surrespondent		
PIO type (PNP specification)		ERC2-RGD7C-I-PM-□-□-PN-□-□	PNP I/O type popular overseas	16	DC24V	2A max.	2A max.	→P295
SIO type		ERC2-RGD7C-I-PM-D-D-SE-D-D	Dedicated field network connection type (using a gateway unit)	64				

Controller -Integrated Type

Slider Type

Rod Type

Arm / Flat

Gripper/ Rotary Typ

Cleanro

m Spla

Controller

58 mm

68 mm

20w 30w

Pulse Motor

60w 100w

150w



Slider

Rod

Arm / Flat Type

Gripper/ Rotary Tyne

Cleanroo Tvne

ntroller pr



S-24 Gi

ERC2

PC

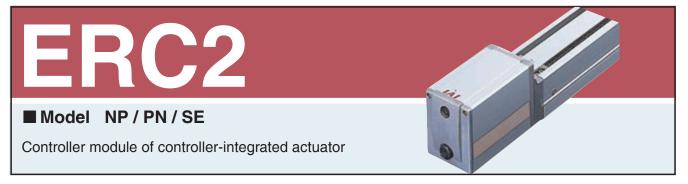
SCON

PS

SSEL

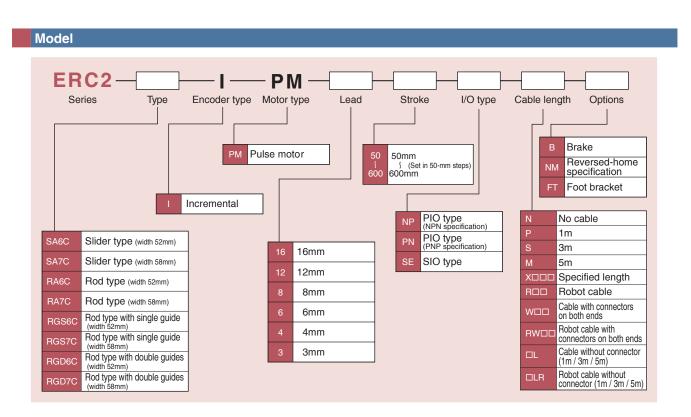
# XSEL

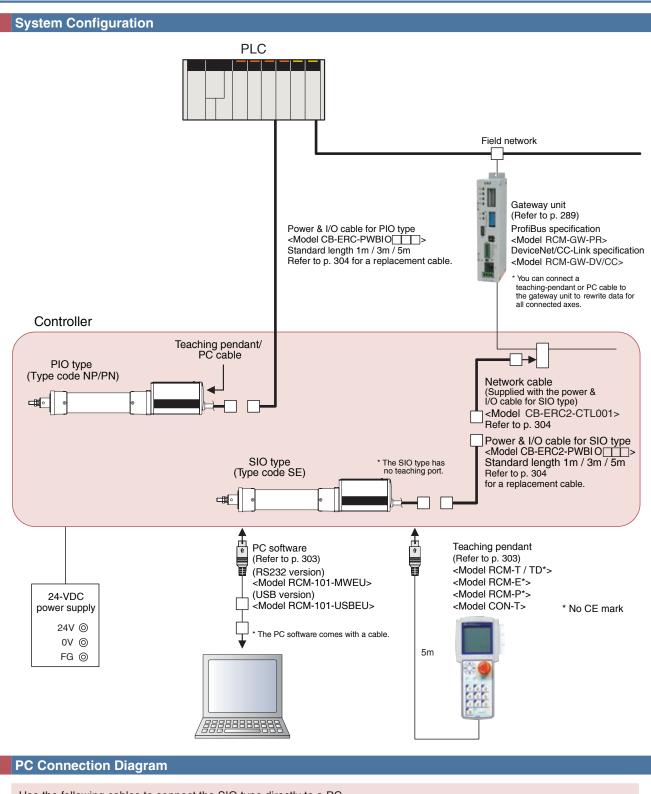
## ERC2 Controller

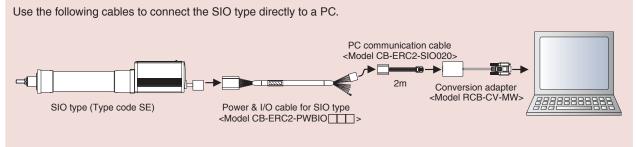


#### Type List

I/O type	NP	SE	
Name	PIO type (NPN specification)	PIO type (PNP specification)	Serial communication type
External view			
Description	Move the actuator by specifying position numbers from PLC via PIO	Connected to a field network via a gateway unit	
Number of position points	16 points	16 points	64 points







Controller -Integrated Type

Type

Rod Type

> Arm / Fla Type

Gripper/ Rotary Type

Cleanroom Type

oom Sp

Controlle

Controller Models

unit

ERC2

PCON

ACON

SCON

PSEL

ASEL

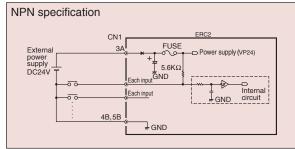
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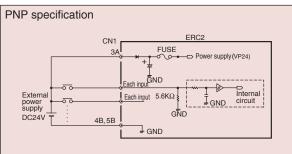
## ERC2 Controller

#### I/O Specifications (PIO Type)

#### ■ Input Part External input specifications

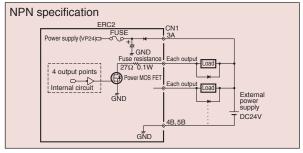
Item	Specification
Number of input points	6 points
Input voltage	24VDC ± 10%
Input current	4mA/circuit
Leak current	1mA max./point
Operating voltage	ON voltage: 18V min. (3.5mA) OFF voltage: 6V max. (1mA)

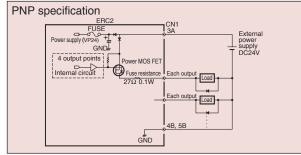




#### ■ Output Part External output specifications

Item	Specification
Number of input points	4 points
Rated load voltage	DC24V
Maximum current	60mA/point
Residual voltage	2V max.
Short-circuit, reverse-voltage protection	Fuse resistance (27Ω 0.1W)





#### I/O Signal Table (PIO Type)

Parameter (PIO pattern selection)	PIO pattern	Pin number
0	8-point type	A standard specification providing eight positioning points, plus a home return signal, zone signal, etc. (The parameter has been set to this pattern prior to the shipment.)
1	3-point type (solenoid valve type)	Simply turn ON three signals of ST0 to ST2 to move the actuator to the corresponding positions (0 to 2), just like you do with solenoid valves. (This allows for easy conversion from air cylinders.)
2	16-point type (zone signal type)	Up to 16 positioning points can be set. (Same as the 8-point type, except that this pattern provides no home return signal.)
3	16-point type (position zone signal type)	A 16-point pattern with a position zone signal instead of a zone signal.

				Parameter (PIO	pattern selection)			
Pin number	0-4	Wire color	0	1	2	3		
Pin number	Category	vvire color	Conventional type	3-point type (solenoid valve type)	16-point type (zone signal type)	16-point type (position zone signal type)		
1A	SIO	Orange (red 1)		SC	GA .			
1B	310	Orange (black 1)	SGB					
2A	24V	Light blue (red 1)		EM	IS1			
2B	0V	Light blue (black 1)		EM	IS2			
3A	24V	White (red 1)		24	1V			
3B	0V	White (black 1)	BLK					
4A	24V	Yellow (red 1)	MPI					
4B	0V	Yellow (black 1)	GND					
5A	24V	Pink (red 1)		M	PI			
5B	0V	Pink (black 1)		GN	ND			
6A		Orange (red 2)	PC1	ST0	PC1	PC1		
6B		Orange (black 2)	PC2	ST1	PC2	PC2		
7A	Innut	Light blue (red 2)	PC4	ST2	PC4	PC4		
7B	Input	Light blue (black 2)	HOME	_	PC8	PC8		
8A		White (red 2)	CSTR	RES	CSTR	CSTR		
8B		White (black 2)	*STP	*STP	*STP	*STP		
9A		Yellow (red 2)	PEND	PE0	PEND	PEND		
9B	Output	Yellow (black 2)	HEND	PE1	HEND	HEND		
10A	Output	Pink (red 2)	ZONE	PE2	ZONE	PZONE		
10B		Pink (black 2)		*Al	LM			

(Note) The signals denoted by an asterisk (\*) (ALM/STP) are negative-logic signals that always remain ON.

#### **System Configuration**

Category	Signal name	Abbreviation	Function overview	
SIO	Serial communication	SGA SGB	Used in serial communication.	
24V	Emergency stop	EMS1 EMS2	These signals are wired to enable the emergency stop switch on the teachi pendant. (Refer to p. 301)	
OV	Brake release	BKR	Connection to 0 V forcibly releases the brake. (150 mA is required)	
	Command position number	PC1 PC2 PC4 PC8	Specify a target position number using 4-bit binary signals (or 3-bit bina signals if the 8-point PIO pattern is selected). (Example) Position 3 → Input PC1 and PC2. Position 7 → Input PC1, PC2 and PC4.	
	Position movement	ST0 ST1 ST2	Turn the ST0 signal ON to move the actuator to position 0. Same for ST1 and ST2. (Operation can be started with these signals alone. No need to input a start signal.)	
Input	Home return	HOME	Home-return operation starts at the leading edge of this signal.	
	Start	CSTR	Input a command position number signal and turn this signal ON, and the actuator will start moving to the specified position.	
	Pause	*STP	This signal is always ON while the actuator is operating normally (negative logic).  The actuator starts to decelerate to a stop at the ON → OFF leading edge of this signal.	
Output 1	Position complete	PEND	This signal turns ON once the actuator has moved to the target position and completed the positioning by entering the specified positioning band. Used to determine if positioning has completed.	
	Completed position number	PE0 PE1 PE2	PE0 is output upon completion of movement to position 0. Same for PE1 and PE2. (These signals are valid only when the 3-point PIO pattern is selected.)	
	Home return complete	HEND	This signal turns ON upon completion of home return.	
	Zone	ZONE	This signal turns ON upon entry into the zone signal range set by parameters.	
	Position zone	PZONE	This signal turns ON upon entry into the zone signal range set by position data.	
	Alarm	*ALM	This signal remain ON in normal conditions and turns OFF upon generation of an alarm (negative logic).  Synchronized with the LED at the top of the motor cover. (A green light stays on in normal conditions, and a red light comes on upon generation of an alarm.)	

(Note) The signals denoted by an asterisk (\*) (ALM/STP) are negative-logic signals that always remain ON.

#### **Specification Table**

	Specification item	Do	assistion		
			escription		
	Туре	PIO specification (NP/PN)	SIO specification (SE)		
	Control method	Field-weakening vector control (patent pending)			
	Positioning command	Position number specification	Position number specification/direct numerical specification		
	Position numbers	Maximum 16 points	Maximum 64 points		
Backup memory		Position number data and parameters are stored in nonvolatile memory. Serial EEPROM with a rewrite life of 100,000 times.			
	PIO	6 dedicated input points / 4 dedicated output points	None		
Electromagnetic brake		Built-in circuit, 24VDC ± 10%, 0.15A max.			
2-color LED indicator		Servo ON (green), alarm/motor drive-power cutoff (red)			
I/F power supply (Note 1)		Same as the control power supply (not insulated)			
	Serial communication	RS485, 1 channel (terminated externally)			
	Absolute function	None			
Forced release of electromagnetic brake		Forcibly released upon connection to 0V (NP) or 24V (PN)	Forcibly released upon connection to 24V		
		I/O cable: 10m max.			
Cable length		SIO connector communication cable: 5m max.			
Dielectric strength voltage		DC500V 10M $\Omega$			
	EMC	EN55011 Class A Group1 (3m)			
	Power-supply voltage	24V±10%			
	Power-supply current	2A max.			
Env	Ambient operating temperature	0~40°C			
Environment	Ambient operating humidity	85% RH or below (non-condensing)			
nent	Operating ambience	Free from corrosive gases			
	Protection class	IP20			

(Note 1) Use an insulated PIO terminal block (optional, refer to p. 302) to insulate the I/O power supply.

Controller -Integrated Ty

Slide: Type

Rod Type

Arm / Fla

Gripper, Rotary Ty

Cleanroo

n Splas

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unit

ERC2

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#### Controller tegrated Typo

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Rod Type

Arm / Flat Type

Gripper/ Rotary Type

Cleanroom Type

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Modele

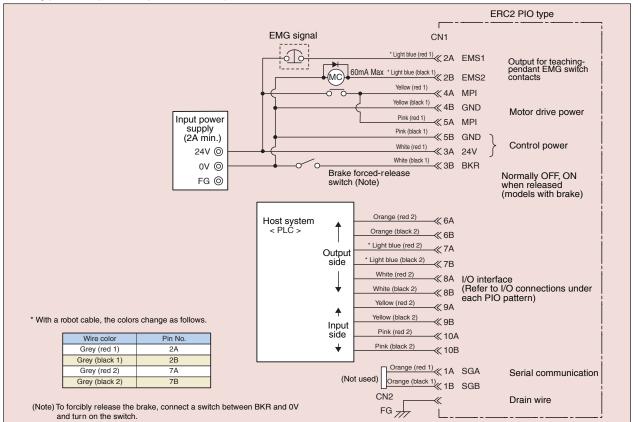
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ERC2

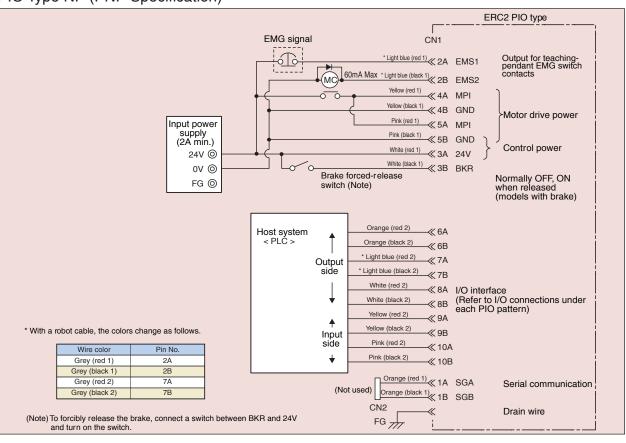
## ERC2 Controller

#### I/O Wiring Diagram

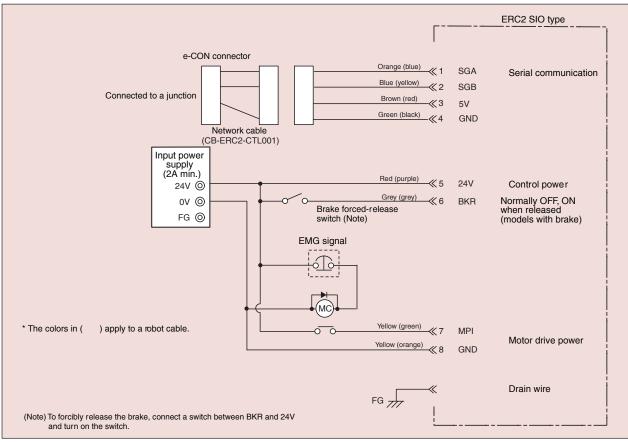
#### PIO Type NP (NPN Specification)

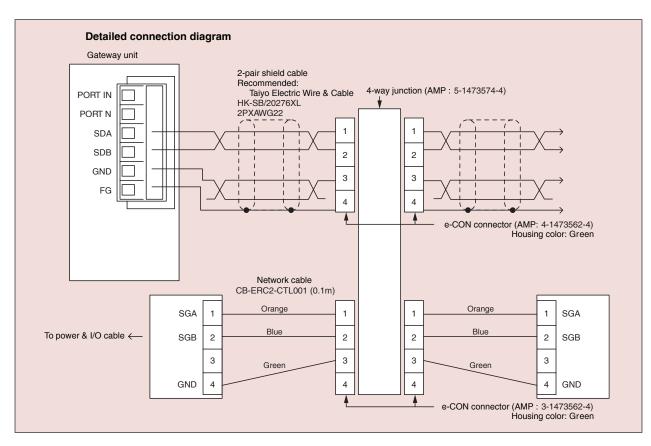


#### PIO Type NP (PNP Specification)



#### SIO Type SE





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Controller tegrated Type

Slider

Rod

Arm / Flat Type

> om Gripper/ Botary Type

> > Splash Proof Type

/ Controller Models

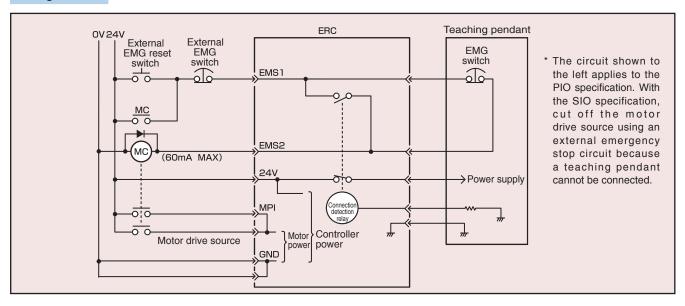
PS-24

## ERC2 Controller

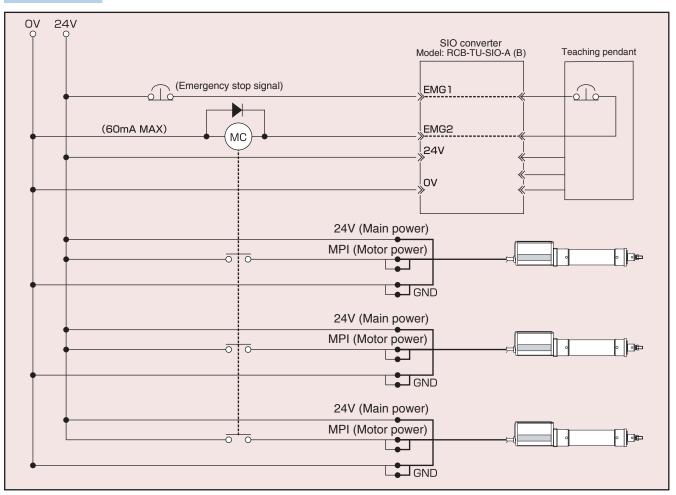
#### **Emergency Stop Circuit**

The ERC2 series has no built-in emergency stop circuit, so the customer must provide an emergency stop circuit based on the logic explained below. (The circuit below is simplified for explanation purpose. Provide a ready circuit, etc., according to your specification.)

#### Single Axis



#### Multiple Axes



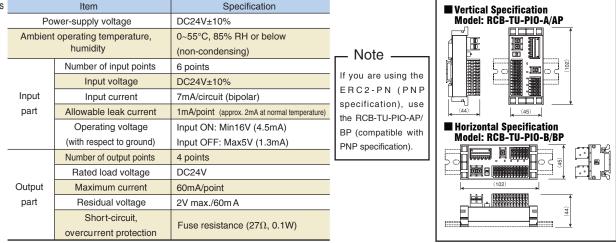
#### **Options**

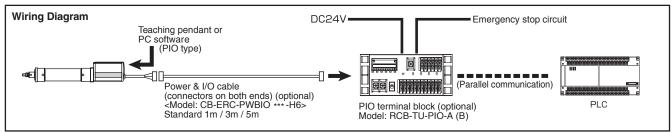
#### Insulated PIO Terminal Block

This terminal block is used to insulate the I/O power or simplify the wiring with a PLC.

- \* When a terminal block is used, the optional power & I/O cable with connectors on both ends must be used.
- Features The input/output ports are non-polar, so the I/O specification of the PLC can be either NPN or PNP.
  - An input/output-signal monitor LED is equipped to check the ON/OFF status of signals.

#### Specifications





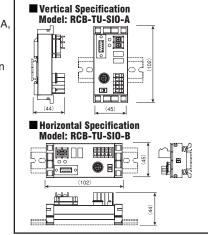
#### SIO Converter

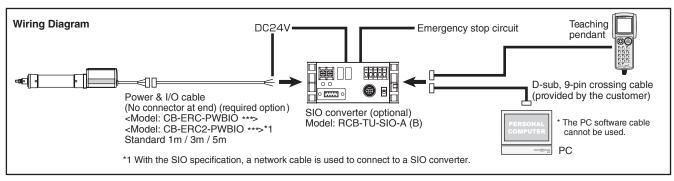
This converter permits RS232 communication by connecting the serial communication line (SGA, SGB) of the power & I/O cable and using a D-sub, 9-pin crossing cable for PC connection.

- Features The connection port for teaching-pendant or PC cable can be installed at any position away from the actuator.
  - Multiple axes can be connected and operated from a PC via serial communication.

#### Specification

ons	Item	Specification
	Power-supply voltage	DC24V±10%
	Ambient operating	0~55°C, 85% RH or below
	temperature, humidity	(non-condensing)
	Terminal resistor	120 $\Omega$ (built-in)





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## ERC2 Controller

#### Options

#### ■ Teaching Pendant

An input device that provides all functions you need for trial operation and adjustment, such as position data input, test operation, as well as monitoring of current axis positions and input/output signals.

Name	Teaching Pendant (No CE mark) *2)	Simple teaching pendant (No CE mark) *2)	Data setting unit (No CE mark) *2)
Model	RCM-T (standard specification) RCM-TD (with deadman switch *1)	RCM-E	RCM-P
Standard price	_	_	_
External view			
Features	A standard, user-friendly teaching pendant equipped with a large LCD screen. A deadman switch type ensuring added safety is also available.	An economical type offering the same functions as the RCA-T at a substantially lower price.	An affordable data setting unit that provides all editing functions other than those relating to axis operation.  * This unit does not support operations relating to axis movement.
Display	21 characters x 16 lines on LCD	16 characters x 2 lines on LCD	16 characters x 2 lines on LCD
Weight	Approx. 550g	Approx. 400g	Approx. 360g
Cable length	5m	5m	5m
Ambient operating temperature, humidity	Ter	mperature: 0~40°C, Humidity: 85% RH or bel	ow
External dimensions	105 32.5, 7.5 80 80	(113.5) (151.262.63 (113.5) (151.262.63 (113.5) (151.262.63	1.A1 1.A1

<sup>\*1</sup> The deadman switch is a safety switch that cuts off the drive source when released to disable operation.

#### **■ PC Software**

A software program that helps input position data and perform test operation.

It significantly facilitates debugging operation by offering wide-ranging functions including jogging, inching, step operation and continuous operation.

## ■ RS232 Communication Type Model RCM-101-MW

<Content>PC software (CD-ROM), PC cable (communication cable + RS232 conversion unit)



# Model R

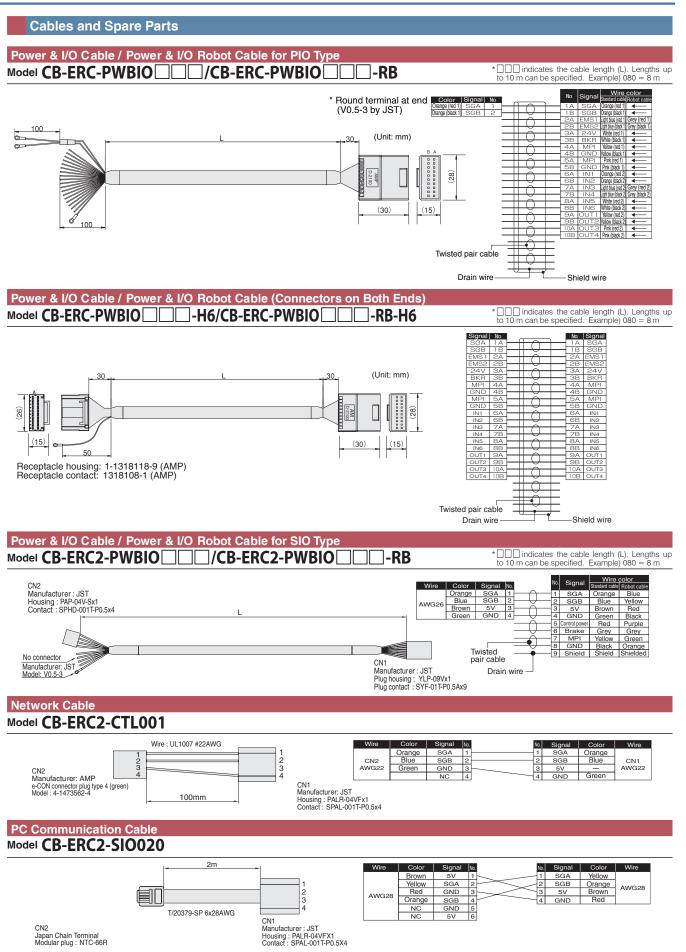
# ■ USB Communication Type Model RCM-101-USB

<Content>PC software (CD-ROM),
PC cable
(communication cable + USB
conversion unit + USB cable)



861F-92	-	内部755		電点	_
概在位置[mm] \$00.01		主電車	4-4-17	電流组(må)	
現在連度(ma/s) 0.00 アラームコート 00		用点试验完了	FUN	定信管法比(X) 4	
		(予約)	MANU		
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老件	00.00	名称	PC#B	- 名称	状態
PCI	0FF	Pel	OFF	単点わす	OFF
PCZ	OFF	P#2	OFF	クリーフ・カンサ	OFF
PC4	OFF.	P#4	OFF	#+8*+40±91	OFF
PER	OFF	Pet	OFF	(予約)	OFF
PCIE:	OFF	P#16	OFF	(子約)	OFF
PC32	0FF	P#32	OFF	(予約)	OFF
	QFF	MOYE	OFF	(予約)	OFF.
+	OFF.	ZONET	ON	(2-7'LIR	OFF
e (5.5)	OFF	PZONE.	OFF	1-1-138	OW
911.1	OFF:	ANDO	ON	(予約)	OFF
RWCO	OFF	HEND	ON	(予約)	OFF
HOME	OFF	PEND	ON	(予約)	OFF
*ETP	OFF	SY.	ON	(予約)	910
CSTR	OFF	*ENGI	ON	(予約)	OFF
RED	OFF	+ALM	ON	(予約)	OFF
204	OFF	+EALH	ON	(予約)	OFF

<sup>\*2</sup> Teaching pendant CON-T is conforming to ANSI/CE mark (see extra CON-T flyer)



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Slider Type

Rod Type

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Controller Models

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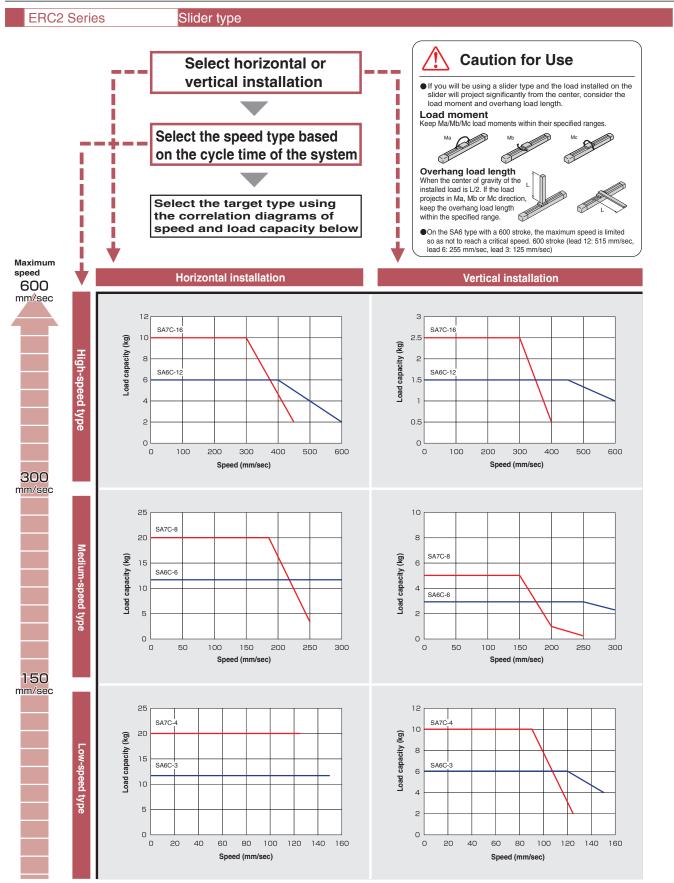
SEL

ASEL

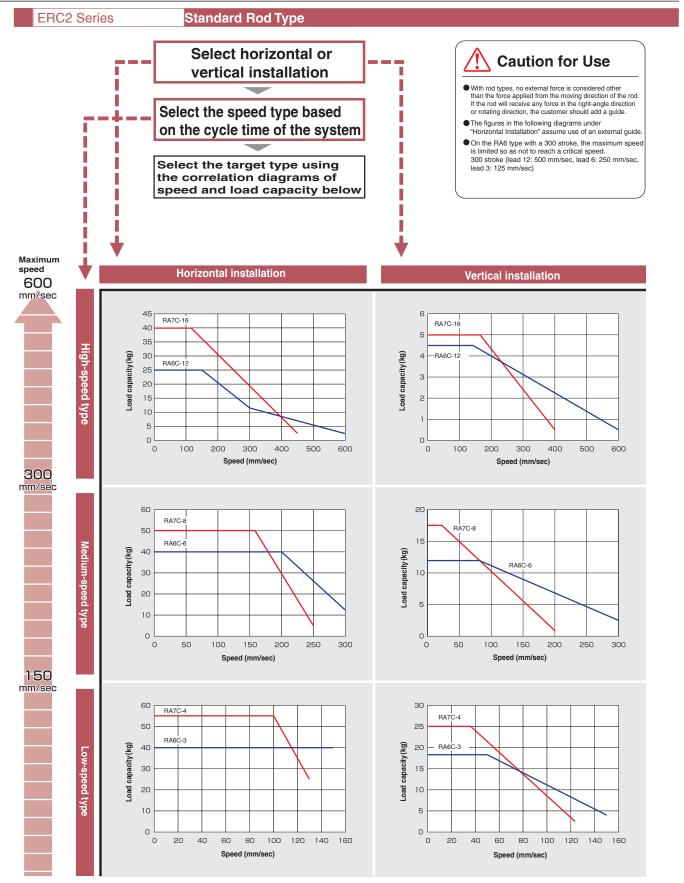
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Model Selection Information (Correlation Diagram of Speed and Load Capacity)

## Selection Guide (Correlation Diagram of Speed and Load Capacity)



#### Model Selection Information (Correlation Diagram of Speed and Load Capacity)



(Note) In the above diagrams, the figure after the type code indicates the lead.

### Model Selection Information (Holding Push Force)

# Selection Guide Correlation (Diagrams of Holding Push Force and Current-Limiting Value)

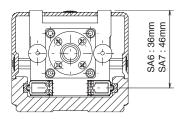
ERC2 Series

Slider type

When performing push-motion operation using a slider type, limit the holding push current to prevent the reactive moment generated by the holding push force from exceeding 80% of the rated moment (Ma, Mb) specified in the catalog.

The position where guide moment is applied is illustrated below to facilitate moment calculation. Calculate the moment by considering an offset required at the position where push force is applied.

Since applying an excessive force exceeding the rated moment may damage the guide and shorten the service life of the actuator, set sufficient holding push current by considering a safety factor.



Note — Note — Note — Note travel speed is fixed to 20 mm/s during push-motion operation.

Position where moment is applied

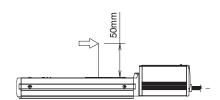
#### Calculation example)

If a holding push force of 100 N is applied at the position shown to the right on the ERC2-SA7C type, the moment received by the guide is calculated as follows:

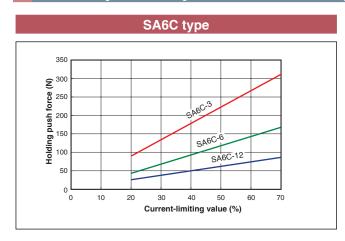
Ma=(46+50)x100

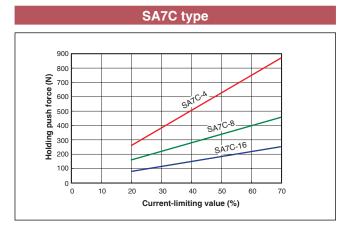
=9600(N•mm) =9.6(N•m)

Since the rated moment of the SA7 (Ma) is 13.8 (N-m),  $13.8 \times 0.8 = 11.04 > 9.6$ . Accordingly, the requirement is satisfied. If Mb moment generates as a result of push motion, follow the same procedure to calculate the actual moment based on the overhang load and confirm that it is within 80% of the rated moment.



Correlation Diagrams of Holding Push Force and Current-Limiting Value \* The figures in the following diagrams are reference values and may differ slightly from actual values





## Model Selection Information (Holding Push Force)

#### **ERC2 Series**

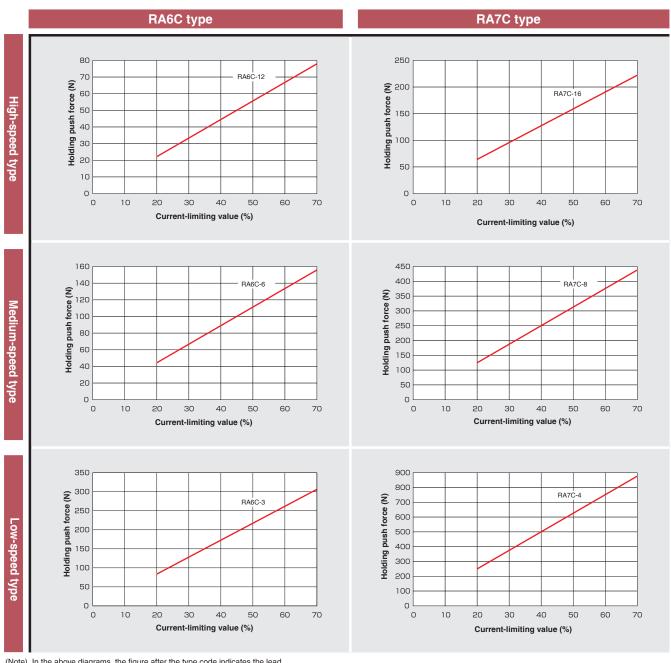
#### Rod type

The Holding push force applied in push-motion operation can be changed freely by changing the current-limiting value in the

Since the maximum holding push force varies from one model toanother, use the diagrams below to check the required holding push force and select a type that satisfies the force requirement.

#### **Caution for Use**

- The relationships of holding push force and current-limiting value represent reference values and may differ slightly from actual values.
- If the current-limiting value is less than 20%, the holding push force may fluctuate. Keep the current-limiting value to 20% or above.
- The travel speed is fixed to 20 mm/s during pushmotion operation.



(Note) In the above diagrams, the figure after the type code indicates the lead.

## www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

ERC2 Series
Extract Cat. No. 0507-E

The information contained in this catalog is subject to change without notice for the pupose of product inprovement



Providing quality products since 1986



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