

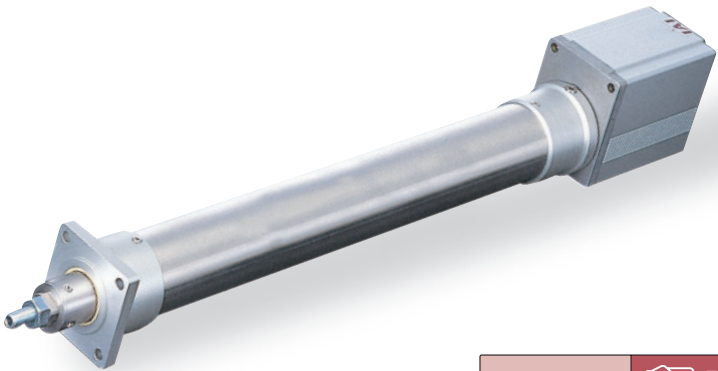
ERC2-RA6C

Integrated Controller, Rod Type, Actuator Dimensions 58mm, Pulse Motor, Straight Type

Model Description **ERC2 - RA6C - I - PM**

Series	Type	Encoder type	Motor type	Lead	Stroke	I/O Type	Cable length	Option
		I: Incremental specification	PM: Pulse motor	12: 12mm 6: 6mm 3: 3mm	50:50mm ~ 300:300mm (set in 50-mm steps)	NP: PIO (NPN) type PN: PIO (PNP) type SE: SIO type	N: None P: 1m M: 5m X□□: Length designation W□□: Cable with connectors R□□: Robot cable RW□□: Robot cable with connectors	B: Brake NM: Reversed-home Specification

See preceding section for model descriptions.

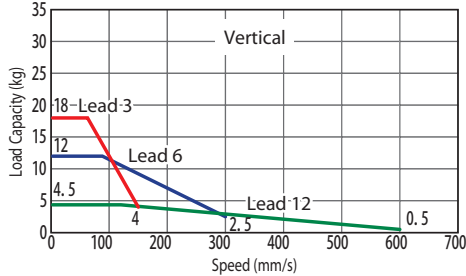
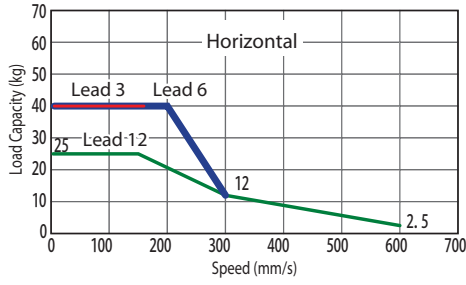


Technical Reference P.451

- POINT**
Notes on selection
- As the stroke length increases, the maximum speed decreases due to hazardous ball screw RPMs. Confirm the desirable maximum speed in the Actuator Specification Table below.
 - Since the ERC2 Series uses a pulse motor, the payload decreases at high speeds. Confirm the payload at the desired speed in the speed vs. payload graph at right.
 - The payload is the value when operated at 0.3G acceleration (0.2G acceleration in vertical operation with 3 lead). The above values are maximum acceleration.
 - Horizontal payload is the value when external guides are used.

Speed vs. Payload Graph

A characteristic of the ERC2 Series pulse motor is that the payload decreases as the speed increases. Use the table below to confirm that there is sufficient speed at the desired payload.



Actuator Specification Table

Leads and Payloads (Note 1) Please note that the maximum payload decreases as the speed increases.

Model	Lead (mm)	Maximum payload (Note 1)		Maximum pushing force (N) (Note 2)	Stroke (mm)
		Horizontal (kg)	Vertical (kg)		
ERC2-RA6C-I-PM-12-①-②-③-④	12	Up to 25	Up to 4.5	78	50 to 300 (every 50mm)
ERC2-RA6C-I-PM-6-①-②-③-④	6	Up to 40	Up to 12	157	
ERC2-RA6C-I-PM-3-①-②-③-④	3	40	Up to 18	304	

Legend ① Stroke ② I/O Type ③ Cable Length ④ Options (Note 2) See pushing force graph on P488. (Unit = mm/s)

Stroke and Maximum Speed

Stroke / Lead	50 to 250 (every 50mm)	300 (mm)
	12	600
6	300	250
3	150	125

① Price by Stroke and ② I/O Type

① Stroke (mm)	Type code	
	RA6C	
	② By I/O Type	
	NP/PN	SE
50	—	—
100	—	—
150	—	—
200	—	—
250	—	—
300	—	—

③ Cable Length Price List

Type	Cable symbol	Standard price
Standard type	P (1m)	—
	S (3m)	—
	M (5m)	—
Special length	X06 (6m) - X10 (10m)	—
Connectors	W01 (1m) - W03 (3m)	—
	W04 (4m) - W05 (5m)	—
	W06 (6m) - W10 (10m)	—
	R01 (1m) - R03 (3m)	—
Robot cable	R04 (4m) - R05 (5m)	—
	R06 (6m) - R10 (10m)	—
	RW01 (1m) - RW03 (3m)	—
Connectors Robot cable	RW04 (4m) - RW05 (5m)	—
	RW06 (6m) - RW10 (10m)	—

See P364 for maintenance cables.

④ Option Price List

Title	Option code	See page	Standard price
Brake	B	P437	—
Foot bracket	FT	P440	—
Reversed-home specification	NM	P442	—

Actuator Specification

Item	Description
Drive System	Ball screw φ10mm rolled C10
Positioning Repeatability	±0.05mm
Backlash	0.1mm or less
Rod Diameter	φ22mm special SUS pipe
Non-rotary Rod Precision	±1.5 degree
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)

