RCP2 ROBO Cylinder



Actuator Specifications

Leads and Payloads (Note 1) Please note	e that the ma	ximum load ca	pacity decreas	es as the spe	ed increases
Model number	Lead (mm)	Maximum pa Horizontal (kg)	vload (Note 1) Vertical (kg)	Positioning repeatability (mm)	Stroke (mm)
RCP2-RA10C-1-86P-10-①-P4-②-③	10	~80	~80	1,500	50 to
RCP2-RA10C-1-86P-5-①-P4-②-③	5	150	~100	3,000	300 (every
RCP2-RA10C-1-86P-2.5-①-P4-②-③	2.5	300	~150	6,000	50mm)

Legend ① Stroke ② Cable length ③ Options *See page A-71 for details on push motion.

(1)Stroke	
①Stroke (mm)	Standard price
50	—
100	—
150	—
200	—
250	—
300	—

es.	s. Stroke and Maximum Speed						
	Strok Lead	e 50~300 (every 50mm)					
	10	250 <167>					
	5	125					
	2.5	63					
_							

The values in < > apply when the actuator is used vertically. (Unit: mm/s)

@Cable Length						
Туре	Cable symbol	Standard price				
	P (1m)	—				
Standard type	S (3m)	—				
	M (5m)	—				
	X06 (6m) ~ X10 (10m)	—				
Special length	X11 (11m) ~ X15 (15m)	—				
	X16 (16m) ~ X20 (20m)	—				
	R01 (1m) ~ R03 (3m)	—				
	R04 (4m) ~ R05 (5m)	—				
Robot cable	R06(6m) ~ R10(10m)	—				
	R11 (11m) ~ R15 (15m)	—				
	R16 (16m) ~ R20 (20m)	—				

* See page A-59 for cables for maintenance.

Actuator Specifications

Item	Description
Drive method	Ball screw, ø20mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Rod diameter	ø40mm
Rod non-rotation precision	±1.0 deg
Ambient operating temperature/humidity	0 to 40°C, 85% RH max. (Non-condensing)

3 Options			
Name	Option code	Page	Standard Price
Connector cable exit direction	A1 ~ A3	→ A-41	—
Brake	В	→ A-42	—
Flange	FL	→ A-46	—
Foot bracket	FT	→ A-48	—

Rod Type



Vertical Payload and Service Life

The service life of a rod-type ROBO Cylinder is 5,000km. However, since the RCP2-RA10C has a larger maximum thrust compared to other types, its service life will largely depend on the load capacity and pushing force used. Therefore, when selecting your product using the Speed vs. Load Capacity, or Pushing Force vs. Current Limit graphs, check the service life using the Load Capacity vs. Load Capacity, and Pushing Force vs. Load Capacity graphs.



② Applicable Controllers RCP2 series actuators can be operated with the controllers indicated below. Select the type according to your intended application.								
Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Positioner type		PCON-CFA-86PI-NP-□-0-□ PCON-CFA-86PI-PN-□-0-□	Equipped with a high-output driver Positioner type based on PIO control	512 points			_	
Pulse-train type		PCON-CFA-86PI-PLN-□-0-□ PCON-CFA-86PI-PLP-□-0-□	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P607
Field network type		PCON-CFA-86PI-①-0-0-□	Equipped with a high-output driver Supporting 7 major field networks	768 points			_	
* ① indicates field network specification symbol (DV, CC, PR, CN, ML, EC, EP).								

Pulse Motor