

RCP2CR-HS8C

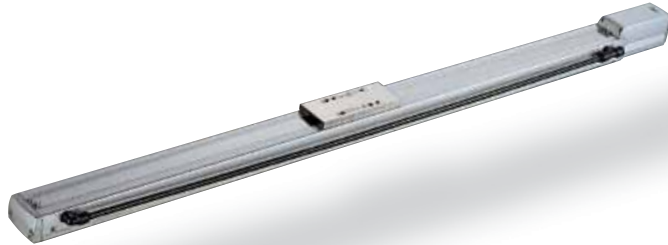
Cleanroom ROBO Cylinder High-Speed Slider Coupling Type 80mm Width Pulse motor Steel Base

■ Configuration: **RCP2CR** — **HS8C** — **I** — **86P** — — — **P2** — —

Series — Type — Encoder — Motor — Lead — Stroke — Compatible Controllers — Cable Length — Option

I: Incremental 86P: Pulse motor 56 high output 30: 30mm 50: 50mm 1000: 1000mm (50mm pitch increments) P2: PCON-CF N: None B: Brake
 P: 1m S: 3m M: 5m X : Custom R : Robot cable NM: Reversed-home VR: Intake port on opposite side

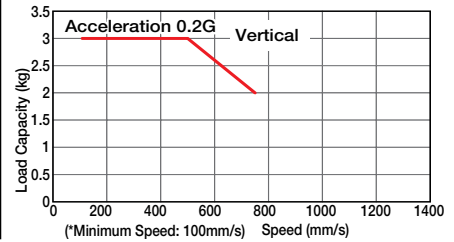
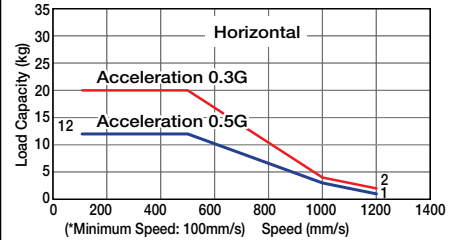
* See page Pre-35 for an explanation of the naming convention.



Technical References P. A-5

- POINT** Notes on Selection
- Due to the large lead of the ball screw in high-speed actuators, operating at low speeds may cause vibration and/or noise. Therefore, use the actuator at speeds over 100mm/s.
 - 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 RCP2 series use the pulse motor, the load capacity decreases at high speeds. In the Speed vs. Load Capacity graph on the right, 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 when used vertically). 0.5G (horizontal) and 0.3G (vertical) are the upper limits of the acceleration.

■ Speed vs. Load Capacity
 Due to the characteristics of the Pulse motor, the RCP2 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.

Model	Lead (mm)	Max. Load Capacity (Note 1)		Stroke (mm)
		Horizontal (kg)	Vertical (kg)	
RCP2CR-HS8C-I-86P-30-①-P2-②-③	30	~ 20	~ 3	50~1000 (50mm increments)

Legend ① Stroke ② Cable length ③ Options

■ Stroke and Maximum Speed

Lead	Stroke	50 ~ 800 (50mm increments)	~ 900 (mm)	~ 1000 (mm)	Suction Volume (N/min)
		30	1200 <750>	1000 <750>	

* The values enclosed in "< >" apply to vertical usage (Unit: mm/s)

① Stroke List

Stroke (mm)	Standard Price
50/100	-
150/200	-
250/300	-
350/400	-
450/500	-
550/600	-
650/700	-
750/800	-
850/900	-
950/1000	-

② Cable List

Type	Cable Symbol	Standard Price
Standard Type	P (1m)	-
	S (3m)	-
	M (5m)	-
Special Lengths	X06 (6m) ~ X10 (10m)	-
	X11 (11m) ~ X15 (15m)	-
	X16 (16m) ~ X20 (20m)	-
	R01 (1m) ~ R03 (3m)	-
Robot Cable	R04 (4m) ~ R05 (5m)	-
	R06 (6m) ~ R10 (10m)	-
	R11 (11m) ~ R15 (15m)	-
	R16 (16m) ~ R20 (20m)	-

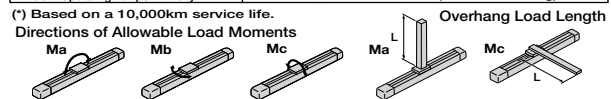
③ Option List

Name	Option Code	See Page	Standard Price
Brake	B	→ A-25	-
Reversed-home	NM	→ A-33	-
Intake port on opposite side	VR	→ A-38	-

Actuator Specifications

Item	Description
Drive System	Ball screw ø16mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.05mm or less
Allowable Static Moment	Ma: 198.9N·m Mb: 198.9N·m Mc: 416.7N·m
Allowable Dynamic Moment (*)	Ma: 36.3N·m Mb: 36.3N·m Mc: 77.4N·m
Overhang Load Length	Ma direction: 450mm or less Mb, Mc direction: 450mm or less
Grease Type	Low dust generation grease (both ball screw and guide)
Cleanliness	Class 10 (0.1µm)
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)

(*) Based on a 10,000km service life.



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