

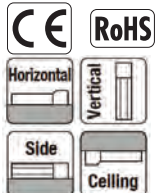
# RCP5-RA8R

ROBO Cylinder, High-thrust Rod Type, Side-mounted Motor Type, Actuator Width 88mm, 24V Pulse Motor

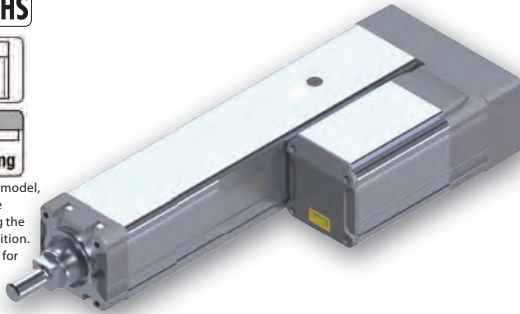
Model	RCP5	RA8R	WA	60P					
Specification	Series	Type	Encoder type	Motor type	Lead	Stroke	Applicable controllers	Cable length	Options
Items			WA: Battery-less absolute specification	60P: Pulse motor, size 60□	20: 20mm 10: 10mm 5: 5mm	50: 50mm 700: 700mm (Every 50mm)	P4: PCON-CFB/CGFB MSEL-PCF/PGF P6: RCON/RSEL	N: No cable P: 1m S: 3m M: 5m X□□: Specified length R□□: Robot cable	Please refer to the options table below.

\*Controller is not included.

## Radial Load Applicable



\* Depending on the model, there may be some limitations to using the vertical mount position. Please refer to P.59 for details.

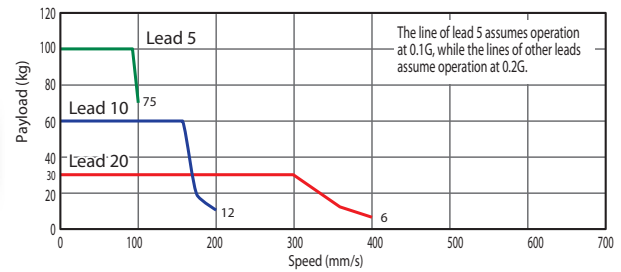


The figure above is the motor side-mounted to the left (ML).

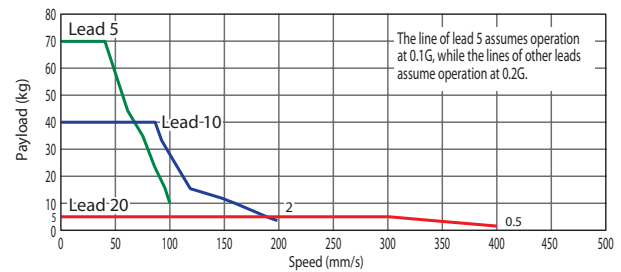
- POINT**  
Note on selection
- (1) The payload assumes operation at an acceleration of 0.1G for lead 5 and operation at an acceleration of 0.2G for lead 10 and lead 20. The above values are the upper limits of acceleration/deceleration.
  - (2) Please note that the RA8R requires a dedicated controller (high-thrust model).
  - (3) The radial cylinder is equipped with a built-in guide. Please refer to the graphs shown in P. 65 and after for the allowable load mass.

## Correlation Diagrams of Speed and Payload

RCP5-RA8R, Horizontal mount, PCON-CFA connected



RCP5-RA8R, Vertical mount, PCON-CFA connected



\* PCON-CFA is a previous model. Current model is PCON-CFB.

## Actuator Specifications

### Lead and Payload

Model number	Lead (mm)	Connected controller	Maximum payload Horizontal (kg) Vertical (kg)	Maximum push force (N)	Stroke (mm)
RCP5-RA8R-WA-60P-20-①-P4-②-③	20	PCON-CFB	30 5	500	50~700 (Every 50mm)
RCP5-RA8R-WA-60P-10-①-P4-②-③	10	PCON-CFB	60 40	1,000	
RCP5-RA8R-WA-60P-5-①-P4-②-③	5	PCON-CFB	100 70	2,000	

Legend: ① Stroke ② Cable length ③ Options \*Please refer to P. 59 for push-motion operation.

### Stroke and Maximum Speed

(Unit: mm/s)

Lead (mm)	50 (mm)	100~450 (mm)	500 (mm)	550 (mm)	600 (mm)	650 (mm)	700 (mm)
20	280	400	360	320	280	240	220
10	200		180	160	140	120	110
5	100		90	80	70	60	55

### ① Stroke

Stroke (mm)	Standard price	Stroke (mm)	Standard price
50	-	400	-
100	-	450	-
150	-	500	-
200	-	550	-
250	-	600	-
300	-	650	-
350	-	700	-

### ② Cable Length

Type	Cable code	Standard price
Standard type	P (1m)	-
	S (3m)	-
	M (5m)	-
Special length	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)	-

\*Please refer to P. 89 for maintenance cables.

### ③ Options

Name	Option code	Reference page	Standard price
Brake	B	→P. 11	-
Cable exit direction (Top)	CJT	→P. 11	-
Cable exit direction (Outside)	CJO	→P. 11	-
Cable exit direction (Bottom)	CJB	→P. 11	-
Motor side-mounted to the left (Standard)	ML	→P. 11	-
Motor side-mounted to the right	MR	→P. 11	-
Flange	FL	→P. 12	-
Non-motor end specification	NM	→P. 11	-

## Actuator Specifications

Item	Description
Drive system	Ball screw Ø16mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Rod	Ø40mm Aluminum
Rod non-rotation precision (*1)	0 deg.
Allowable load and torque on rod tip	Refer to table in the page on the right, refer to P. 65
Rod tip overhang distance	100mm or less
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(\*1) Rod's angular displacement in rotational direction with no applied load is shown.

