

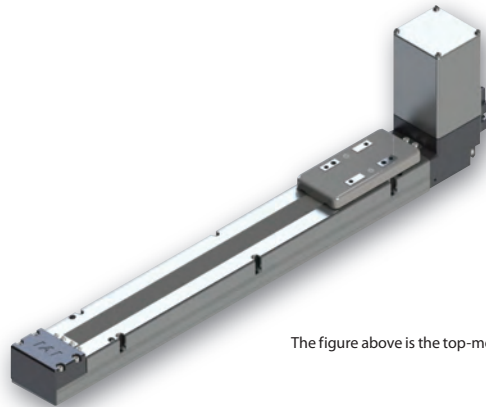
RCP5-BA6/BA6U ROBO Cylinder, Belt Type, Actuator Width 58mm, Pulse Motor, Top-mounted Motor/Bottom-mounted Motor

Model	RCP5	WA	42P	48	P3				
Specification	Series	Type	Encoder type	Motor type	Lead	Stroke	Applicable controllers	Cable length	Options
Items		BA6: Belt type Top-mounted motor BA6U: Belt type Bottom-mounted motor	WA: Battery-less absolute specification	42P: Pulse motor, size 42□ 48: Equiv. to 48mm		300: 300mm 2200: 2,200mm (Every 100mm)	P3: PCON-CA MSEP MSEL	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.



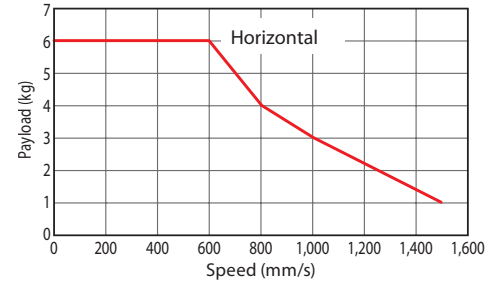
* Depending on the model, there may be some limitations to using the side and ceiling mount positions. Please refer to P.59 for details.



The figure above is the top-mounted motor type.

Correlation Diagram of Speed and Payload

Due to a pulse motor used for RCP5 series, its payload gets lower when operated at higher speed. Please refer to this diagram below to make sure that the required payload will be met at the operation speed you desire.



Warnings

- This model cannot be installed in the vertical mount position.
- Horizontal and ceiling mount specifications cannot be installed in the side position. Similarly, side mount specification cannot be installed in a horizontal or ceiling mount position.
- The maximum stroke for the side and ceiling mount positions is 1,000mm.

- POINT**
Note on selection
- (1) Please set the operation speed at 100mm/s or higher for the belt type as it may cause vibration or noise when used at lower speed.
 - (2) Due to a pulse motor used for RCP5 series, its payload gets lower when operated at higher speed. Please refer to the correlation diagram of speed and payload on this page to make sure that the required payload will be met at the operation speed you desire.
 - (3) The payload assumes operation at an acceleration of 0.5G. 0.5G is the upper limit of the acceleration.
 - (4) Push-motion operation cannot be performed.

Actuator Specifications

Lead and Payload

Model number	Motor attached side	Lead (mm)	Maximum payload		Stroke (mm)
			Horizontal (kg)		
RCP5-BA6-WA-42P-48-①-P3-②-③	Top	Equiv. to 48mm	6		300~2,200 (Every 100mm)
RCP5-BA6U-WA-42P-48-①-P3-②-③	Bottom				

Stroke and Maximum Speed

(Unit: mm/s)

Lead (mm)	300 (mm)	400 (mm)	500 (mm)	600 (mm)	700 (mm)	800 (mm)	900~2,200 (Every 100mm)
Equiv. to 48mm	890	1,070	1,220	1,340	1,400	1,440	1,500

Legend: ① Stroke ② Cable length ③ Options

① Stroke

Stroke (mm)	Standard price	Stroke (mm)	Standard price
300	-	1,300	-
400	-	1,400	-
500	-	1,500	-
600	-	1,600	-
700	-	1,700	-
800	-	1,800	-
900	-	1,900	-
1,000	-	2,000	-
1,100	-	2,100	-
1,200	-	2,200	-

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 (Right)	CJR	→P. 11	-
Cable exit direction (Left)	CJL	→P. 11	-
Cable exit direction (Bottom)	CJB	→P. 11	-
Ceiling mount type	CIM	→P. 59	-
Left side-mount type	SIL	→P. 59	-
Right side-mount type	SIR	→P. 59	-
Non-motor end specification	NM	→P. 11	-

Actuator Specifications

Item	Description
Drive system	Timing belt
Positioning repeatability	±0.08mm
Lost motion	0.1mm or less
Base	Material: Aluminum with white alumite treatment
Dynamic allowable moment (*1)	Ma: 15.7N·m, Mb: 15.7N·m, Mc: 31.6N·m
Static allowable moment	Ma: 44.5N·m, Mb: 44.5N·m, Mc: 89.2N·m
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

*Reference for overhang load length/Ma: 150mm or less, Mb, Mc: 150mm or less

(*1) Assumes a standard rated life of 5,000km.

(*2) The operational life will vary depending on operation and installation conditions. Please refer to the general catalog for details on operational life, allowable moment direction, and overhang load length.

