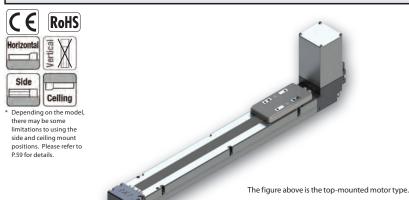
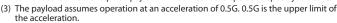
RCP5-BA6/BA6U ROBO Cylinder, Belt Type, Actuator Width 58mm, Pulse Motor, Top-mounted Motor/Bottom-mounted Motor

■Model RCP5 WA **42P** 48 **P3** Applicabl Specification Type Encoder type -Motor type Stroke Cable length Options controllers Items BA6: Belt type WA: Battery-less 42P: Pulse motor, 48: Equiv. P3: PCON-CA N: No cable 300: 300mm Please refer to Top-mounted absolute size 42□ MSFP P: 1m the options S: 3m MSEL specification 2200: 2.200mm table below. motor BA6U: Belt type (Every 100mm) M: 5m X□□: Specified length *Controller is not included. mounted motor R□□: Robot cable



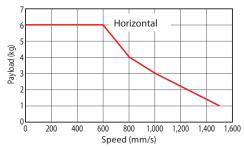
Please set the operation speed at 100mm/s or higher for the belt type as it may cause vibration or noise when used at lower speed.
 Due to a pulse motor used for RCP5 series, its payload gets lower when operated at higher speed. Please refer to the correlation diagram of speed and payload on this page to make sure that the required payload will be met at the operation speed you desire.



(4) Push-motion operation cannot be performed.

■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.

Actuator Specifications

Legend: Tstroke Cable length Options

■Lead and Payload

Model number	Motor attached side	Lead (mm)	Maximum payload Horizontal (kg)	Stroke (mm)	
RCP5-BA6-WA-42P-48-①-P3-②-③	Тор	Equiv. to	6	300~2,200 (Every 100mm)	
RCP5-BA6U-WA-42P-48-①-P3-②-③	Bottom	48mm	0		

■Stroke and Maximum Speed							
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
	(mm) Equiv. to	(mm) (mm) Equiv. to 890	(mm) (mm) (mm) Equiv. to 890 1,070	(mm) (mm) (mm) (mm) Equiv. to 890 1,070 1,220	(mm) (mm) (mm) (mm) (mm) Equiv. to 890 1,070 1,220 1,340	(mm) (mm) (mm) (mm) (mm) (mm) Equiv. to 890 1,070 1,220 1,340 1,400	(mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm) Equiv. to 890 1,070 1,220 1,340 1,400 1,440

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		
	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)	-		

Ma: 44.5N•m, Mb: 44.5N•m, Mc: 89.2N•m

③ Options						
Name	Option code	Reference page	Standard price			
Brake	В	→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	-			

ltem	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

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.

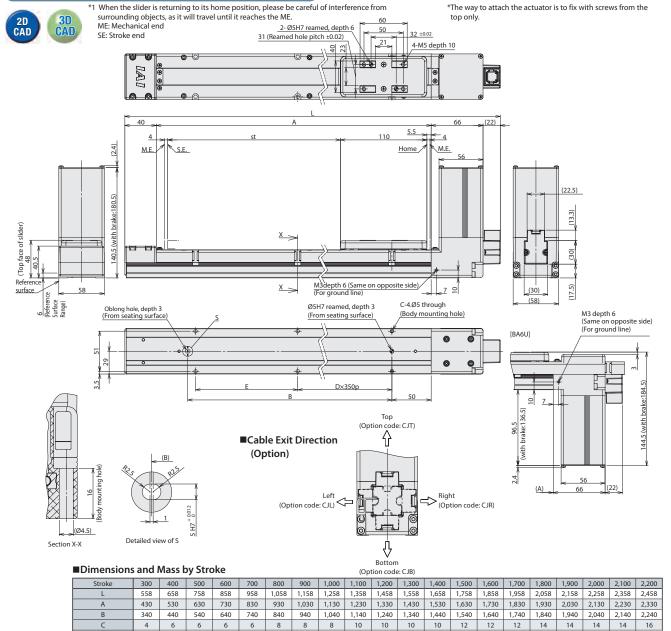
Actuator Specifications

Static allowable moment

(*) 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.

^{*}Please refer to P. 89 for maintenance cables

CAD drawings can be downloaded from our website. www.intelligentactuator.com



^{*}The weights shown in the table above are for BA6. The weight increases by 0.2kg for BA6U.

1 1

Applicable Controllers The RCP5 series actuators can be operated by the controllers indicated below. Please select the type depending on your intended use

280 380

3.3 3.5 3.7

2 2 2

130

3.3 3.5 3.7 3.9 4.2

230

3.9 4.1 4.3

The first 3 series declared by the controllers indicated below. These select the type depending on your intended disc.							
Name	External view	Model number	Max. number of controlled axes	Maximum number of positioning points	Input power	Standard price	Reference page
Positioner type (High-output specification)		PCON-CA-42PWAI-①-2-0	1	512 points	DC24V	-	→P. 69
Pulse train type (High-output specification)		PCON-CA-42PWAI-PL -2-0				-	
Network type (High-output specification)		PCON-CA-42PWAI0-0		768 points		-	
Solenoid valve multi-axis type (PIO specification)	1,000	MSEP	C: 8 (4 when high-output enabled) LC: 6 (3 when high-output enabled)	3 points		-	→P. 77
Solenoid valve multi-axis type (Network specification)		MSEP		256 points			
Program control multi-axis type		MSEL-PC-1-42PWAI-①-2-4	4	30,000 points	Single-phase AC 100V~230V	-	→P. 87
Program control multi-axis type (w/network board)	0	MSEL-PC-1-42PWAI-W-0-4					
Program control multi-axis type (Safety category compliant spec.)		MSEL-PG-1-42PWAI-①-2-4					
Program control multi-axis type (Safety category compliant spec. w/network board)		MSEL-PG-1-42PWAI0-4					

3 3 3 3

80

180

4.6

280

4.4 4.6

4.8

330

4

130

4.8 5 5.2 5.4

5.2

380

4 4 5

230 330

5.4

5.6

5 5 5 6

180 280

5.6

5.9 6.1 6.3

6.3

80

5.8 6 130

6.7

380

6.5

D

Mass Without brake

(kg) With brake

0

330

2.2

2.6

80 180

2.4 2.7 2.9 3.1

2.8 3.1

^{*}Above MSEL models are for single-axis specification

^{*(}I) I/O type (NP/PN)

^{*(}II) Number of axes

^{*(}iii) Field network specification code *(iiii) Field network specification) or P (PNP specification) code *The high output enabled operation is only available when the "High-output setting specs" is selected in the MSEP-C/LC.