

# **RCP6-RRA**

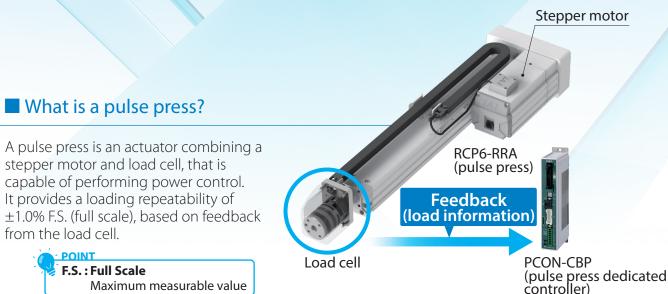
# ROBO Cylinder<sup>®</sup> Pulse Press



www.intelligentactuator.com

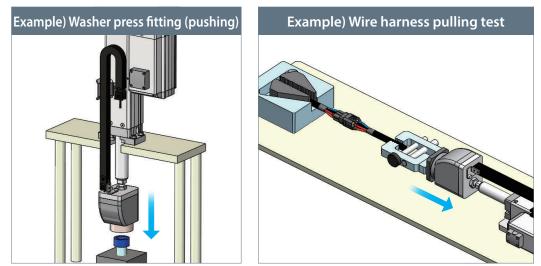
# Actuator compatible with presses that allows for simple power control

# IAI's new pulse press!



# Capable of both pushing and pulling

Both pushing and pulling are supported in the load direction. There are no limitations on pushing or pulling times.



Example System for inspecting air leaks in sweet bread packaging

# 2 Reasonable cost

Equipped with a stepper motor, it is less than half the cost of an IAI servo press.

3 Li

# Lineup

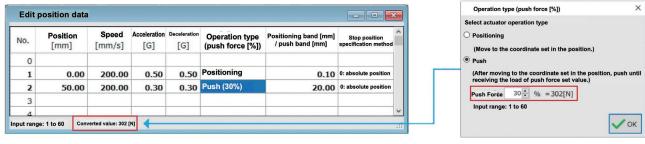
Select from several types based on use (push force from 60N to 2,000N).

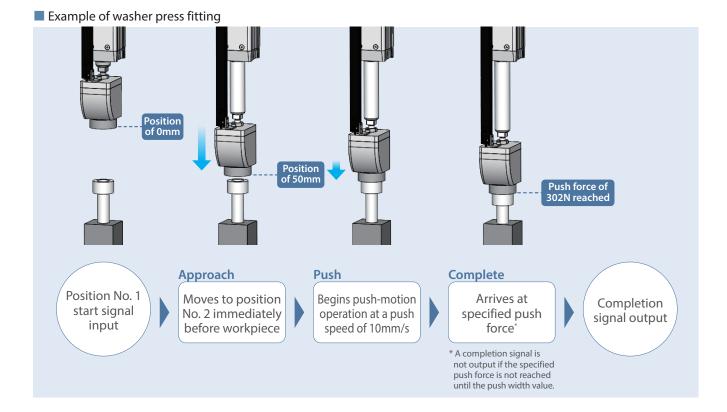
RCP6-RRA4R	60N~300N
RCP6-RRA6R	60N~600N
RCP6-RRA7R	200N~2,000N

# Easy setup using a dedicated tool

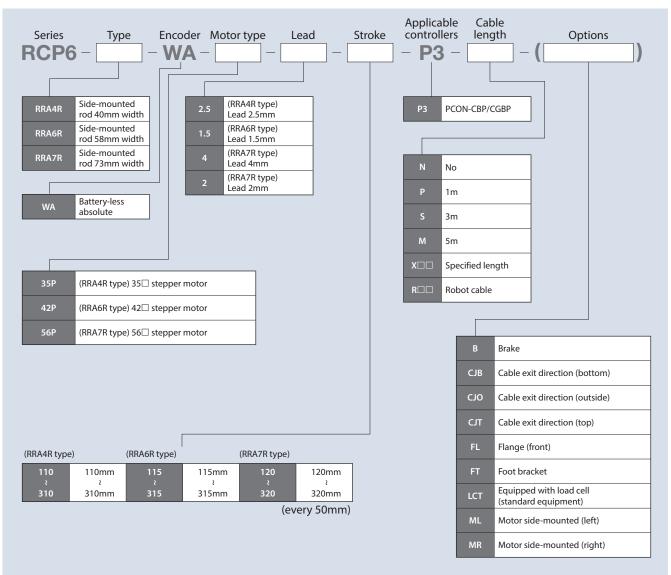
# Pushing/pulling can easily be setup using the PC teaching software or teaching pendant.

#### PC teaching software (screenshot)





# **^**



\*The range of selections varies according to the actuator type. Please refer to the pages of each type for details.

#### **Specification Table**

Time	Stroke (mm) and max speed (mm/s) * Length of band = Stroke (*Numbers in band = Maximum speed by stroke)	Lead	Max. push/ pull force	Payl (k	Reference	
Туре	110         115         120         - Stroke can be selected in 50mm units -         310         315         320	(mm)	(N)	Horizontal	Vertical	page
RRA4R	200	2.5	300	3	3	P5
RRA6R	110	1.5	600	10	10	P9
RRA7R	160	4	1,000	10	10	P13
NNA/ N	85	2	2,000	10	10	PID

# RCP6 ROBO Cylinder®

# **RCP6-RRA4R**

Stepper Motor Absolute Motor mm Model Specification Items 2.5 RCP6 RRA4R WA 35P **P3**  
 Applicable controllers

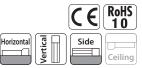
 P3
 PCON
 Series - Type - 
 Encoder type

 WA
 Battery-less absolute
 Motor type Cable length Lead Stroke Option 35P Stepper motor 35 size 2.5 2.5mm 110 110mr N P No Refer to Option below. ≀ 310 1m 310mm S M X 🗆 🗆 3m every 50mm)

5m Specified length RDD Robot cable

Battery

less



Body Width

40

Side-mou

**24**v





(1) There are no limitations on the continuous push time or continuous pull time. (2) Continuous operation is possible at a duty ratio of 100%.

(3) Pay close attention to the mounting method of the body. Please refer to P. 20 for details.

(4) Pay close attention to the mounting orientation. Please refer to P. 20 for details. (5) Please refer to P. 20 for information on load cells.

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

#### Stroke

Stroke (mm)	RCP6-RRA4R
110	0
160	0
210	0
260	0
310	0

**Options** \* Please check the Options reference pages to confirm each option.

Name	Option code	Reference page
Brake (Note 1)	В	17
Cable exit direction (bottom) (Note 1, 2)	CJB	17
Cable exit direction (outside) (Note 1)	OLO	17
Cable exit direction (top) (Note 1)	CJT	17
Flange (front) (Note 1)	FL	17
Foot bracket (Note 2, 3)	FT	18
Equipped with load cell (standard equipment) (Note 4)	LCT	18
Motor side-mounted (left) (Note 5)	ML	18
Motor side-mounted (right) (Note 5)	MR	18

(Note 1) Cable exit direction (CJB/CJO/CJT) and flange (front) (FL) cannot be selected when selecting brake (B) with a stroke of 110mm.
 (Note 2) Foot bracket (FT) cannot be selected when selecting cable exit direction (bottom)

(CJB). (Note 3) Please refer to P. 18 for the number of brackets included.

(Note 4) Be sure to enter a selection in the options section of the model number. (Note 5) Be sure to enter a scole in the options section of the model number.

Cable Length		
Туре	Cable code	P3
	<b>P</b> (1m)	0
Standard type	<b>S</b> (3m)	0
	<b>M</b> (5m)	0
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	0
Specified length	X11(11m) ~ X15(15m)	0
	X16(16m) ~ X20(20m)	0
	R01(1m) ~ R03(3m)	0
	<b>R04</b> (4m) ~ <b>R05</b> (5m)	0
Robot cable	R06(6m) ~ R10(10m)	0
	R11(11m) ~ R15(15m)	0
	R16(16m) ~ R20(20m)	0

#### Main Specifications

		Item	Description
Lead		Ball screw lead (mm)	2.5
_	Payload	Maximum payload (kg) (high-output enabled)	3
izont		Maximum payload (kg) (high-output disabled)	3
ori	Speed /	Max. speed (mm/s)	200
Т	acceleration/	Rated acceleration/deceleration (G)	0.5
	deceleration	Max. acceleration/deceleration (G)	0.5
	Davlagd	Maximum payload (kg) (high-output enabled)	3
Vertical	Payload	Maximum payload (kg) (high-output disabled)	3
Vei	Speed /	Max. speed (mm/s)	200
	acceleration/	Rated acceleration/deceleration (G)	0.5
	deceleration	Max. acceleration/deceleration (G)	0.5
		Max. push force (N)	300
Push		Min. push force (N)	60
		Max. push speed (mm/s)	10
		Max. pull force (N)	300
Pull		Min. pull force (N)	60
		Max. pull speed (mm/s)	10
Brake	2	Brake specification	Non-excitation actuating solenoid brake
		Brake holding force (kg)	3
		Min. stroke (mm)	110
Strok	e	Max. stroke (mm)	310
		Stroke pitch (mm)	50

#### Tables of Payload by Speed/Acceleration

#### High-output setting enabled (the unit for payload is kg)

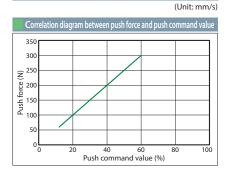
Orientation	Horizontal	Vertical					
Speed	Acceleration (G)						
(mm/s)	0.5	0.5					
0	3	3					
40	3	3					
85	3	3					
130	3	3					
150	3	3					
200	3	3					

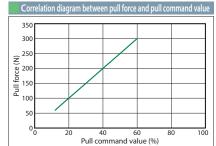
#### High-output setting disabled (the unit for payload is kg)

Orientation	Horizontal	Vertical		
Speed (mm/s)	Accelera	ation (G)		
(mm/s)	0.5	0.5		
0	3	3		
40	3	3		
85	3	3		
130	3	3		
150	3	3		

#### Stroke and Max Speed

High-output	Stroke (mm)									
setting			210	260	310					
Enabled	200									
Disabled	150									

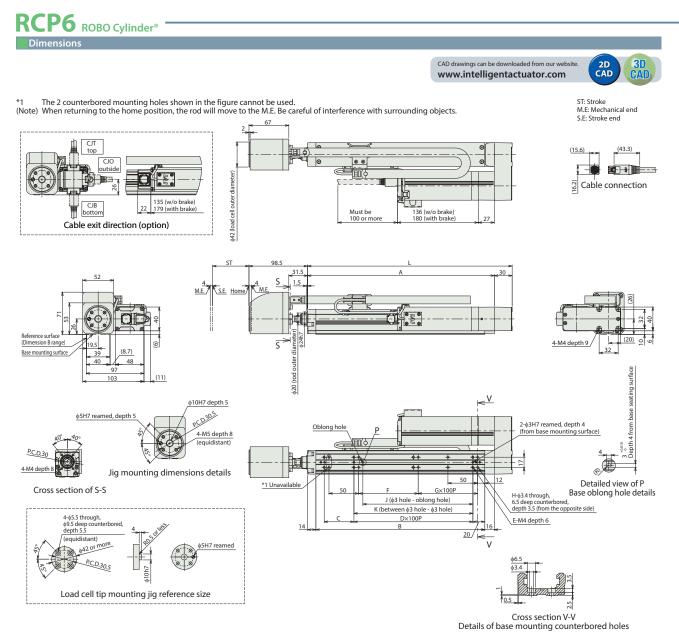




#### Item Description Drive system Ball screw, ø8mm, rolled C10 Positioning repeatability ±0.02mm Lost motion 0.1mm or less 600N Load cell rated capacity Loading repeatability (Note 6) $\pm 1.0\%$ F.S. (Note 7) Ambient operating temperature, humidity 0 ~ 40°C, 85%RH or less (no condensation) IP20 Ingress protection Vibration & shock resistance 4.9m/s<sup>2</sup> CE marking, RoHS directive Overseas standards Motor type Stepper motor Encoder type Battery-less absolute

RCP6 ROBO Cylinder®

Number of encoder pulses 8192 pulse/rev (Note 6) Ratio (in percentage) of the load variations caused by the repeated operations to the load cell rated capacity.
 (Note 7) F.S.: Full Scale, the maximum measurable value.



#### Dimensions by stroke

Stroke	110	160	210	260	310
L	244	294	344	394	444
A	214	264	314	364	414
В	184	234	284	334	384
С	50	100	50	100	50
D	1	1	2	2	3
E	6	6	8	8	10
F	100	50	100	50	100
G	0	1	1	2	2
Н	8	10	10	12	12
J	85	85	185	185	285
К	100	100	200	200	300

#### Mass by stroke

Str	oke	110	160	210	260	310
Mass	Without brake	2.2	2.3	2.4	2.6	2.7
Mass (kg)	With brake	2.4	2.5	2.7	2.8	2.9

#### Applicable Controllers

The actuators on this page can be operated by the controllers indicated below. Please select the type depending on your intended use.

		Maximum	Power		Control method															
Name	External		supply					Network (*selection)								Maximum number	Reference			
	VIOW connectable	voltage	Positioner Pulse-train Program			DV	СС	CIE	PR	CN	ML	ML3	EC	EP	PRT	SSN	ECM	of positioning points	page	
PCON-CBP/ CGBP		1	24VDC	• *Selection	-	-	•	•	•	•	•	•	-	•	•	•	-	-	512 (768 for network spec.)	21

(Note) Please refer to P. 8-17 of the General Catalog 2021 for information on network abbreviation codes such as DV and CC.

# RCP6 ROBO Cylinder®

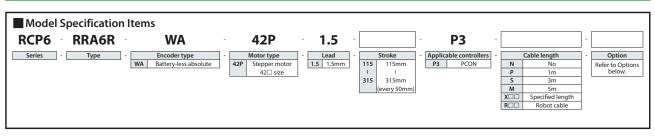
# **RCP6-RRA6R**

(Pulse press specification)

Body Width **24**v 60 Stepper Motor Side-mou Motor mm

Battery-

Absolute









(1) There are no limitations on the continuous push time or continuous pull time. (2) Continuous operation is possible at a duty ratio of 100%.

(3) Pay close attention to the mounting method of the body. Please refer to P. 20 for details.

(4) Pay close attention to the mounting orientation. Please refer to P. 20 for details. (5) Please refer to P. 20 for information on load cells.

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

#### Stroke

Stroke (mm)	RCP6-RRA6R
115	0
165	0
215	0
265	0
315	0

**Options** \* Please check the Options reference pages to confirm each option

Option code	Reference page
В	17
CJB	17
OLO	17
CJT	17
FL	17
FT	18
LCT	18
ML	18
MR	18
	CJB CJO CJT FL FT LCT ML

(Note 1) Foot bracket (FT) cannot be selected when selecting cable exit direction (bottom)

(CJB). (Note 2) Please refer to P. 18 for the number of brackets included.

(Note 3) Be sure to enter a selection in the options section of the model number. (Note 4) Be sure to enter a selection in the options section of the model number.

#### Cable Length Cable code Ρ3 Туре **P**(1m) Standard type **S**(3m) **M**(5m) $\pmb{\textbf{X06}(6m)} \sim \pmb{\textbf{X10}(10m)}$ Specified 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)

#### Main Specifications

		ltem	Description
Lead		Ball screw lead (mm)	1.5
_	Payload	Maximum payload (kg) (high-output enabled)	10
izont	rayioau	Maximum payload (kg) (high-output disabled)	10
lori	Speed / Max. speed (mm/s)		110
Т	acceleration/	Rated acceleration/deceleration (G)	0.3
	deceleration	Max. acceleration/deceleration (G)	0.3
		Maximum payload (kg) (high-output enabled)	10
Vertical	Payload	Maximum payload (kg) (high-output disabled)	10
	Speed /	Max. speed (mm/s)	110
	acceleration/	Rated acceleration/deceleration (G)	0.3
	deceleration	Max. acceleration/deceleration (G)	0.3
		Max. push force (N)	600
Push		Min. push force (N)	60
		Max. push speed (mm/s)	10
		Max. pull force (N)	600
Pull		Min. pull force (N)	60
		Max. pull speed (mm/s)	10
Brake		Brake specification	Non-excitation actuating solenoid brake
		Brake holding force (kg)	10
		Min. stroke (mm)	115
Strok	e	Max. stroke (mm)	315
		Stroke pitch (mm)	50

#### Tables of Payload by Speed/Acceleration

#### High-output setting enabled (the unit for payload is kg)

Horizontal	Vertical
Accelera	ation (G)
0.3	0.3
10	10
10	10
10	10
10	10
10	10
	Accelera 0.3 10 10 10 10

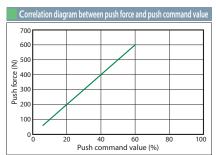
#### High-output setting disabled (the unit for payload is kg)

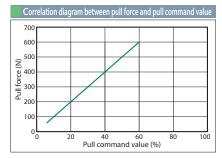
Orientation	Horizontal	Vertical					
Speed (mm/s)	Acceleration (G)						
(mm/s)	0.3	0.3					
0	10	10					
35	10	10					
80	10	10					

#### Stroke and Max Speed

High-output		St	roke (mi	n)		
setting	115 165 215 265		115 165 215 265			
Enabled						
Disabled						

(Unit: mm/s)

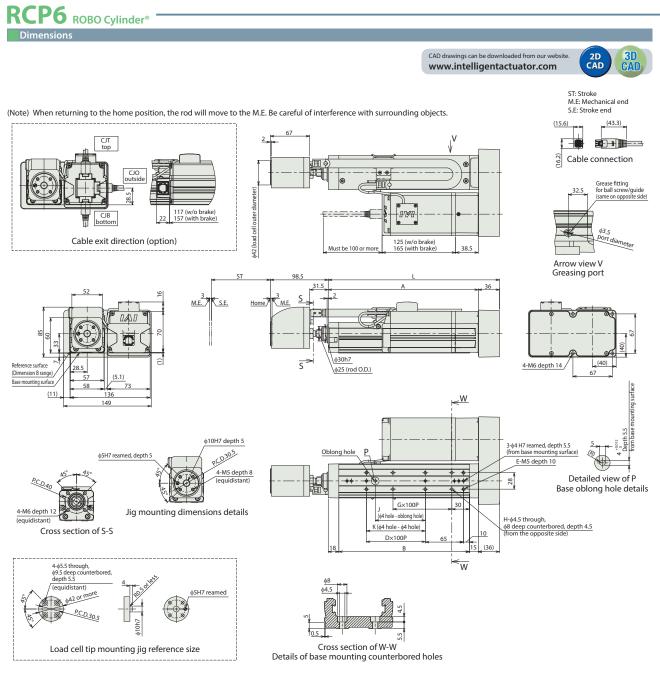




# - RCP6 ROBO Cylinder<sup>®</sup>

ltem	Description
Drive system	Ball screw, $\phi$ 10mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Load cell rated capacity	600N
Loading repeatability (Note 6)	±1.0% F.S. (Note 7)
Ambient operating temperature, humidity	$0 \sim 40^{\circ}$ C, 85%RH or less (no condensation)
Ingress protection	IP20
Vibration & shock resistance	4.9m/s <sup>2</sup>
Overseas standards	CE marking, RoHS directive
Motor type	Stepper motor
Encoder type	Battery-less absolute
Number of encoder pulses	8192 pulse/rev

(Note 6) Ratio (in percentage) of the load variations caused by the repeated operations to the load cell rated capacity.
 (Note 7) F.S.: Full Scale, the maximum measurable value.



#### Dimensions by stroke

Stroke	115	165	215	265	315
L	291	341	391	441	491
A	255	305	355	405	455
В	222	272	322	372	422
D	1	1	2	2	3
E	6	6	8	8	10
G	1	2	2	3	3
Н	4	6	6	8	8
J	85	85	185	185	285
К	100	100	200	200	300

#### Mass by stroke

Str	oke	115	165	215	265	315
Mass	Without brake	4.0	4.2	4.5	4.7	4.9
(kg)	With brake	4.2	4.4	4.6	4.9	5.1

#### Applicable Controllers

The actuators on this page can be operated by the controllers indicated below. Please select the type depending on your intended use.

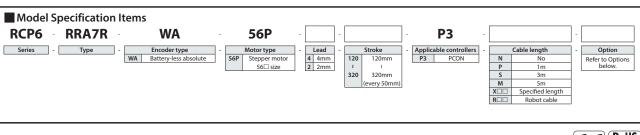
		Maximum	Power				C	ontro	ol me	tho	d										
Name	External		supply								Netv	vork	(*sele	ectio	n)				Maximum number		
Hume	view	connectable axes	voltage	Positioner	Pulse-train Program		DV	CC	CIE	PR	CN	ML	ML3	EC	EP	PRT	SSN	ECM	of positioning points	page	
PCON-CBP/ CGBP		1	24VDC	• *Selection	-	-	•	•	•	•	•	•	-	•	•	•	-	-	512 (768 for network spec.)	21	

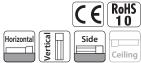
(Note) Please refer to P. 8-17 of the General Catalog 2021 for information on network abbreviation codes such as DV and CC.

**RCP6** ROBO Cylinder®

# **RCP6-RRA7R**

Battery-less **Body Width 24**v 70 mm Stepper Motor Side Absolute Moto









(1) There are no limitations on the continuous push time or continuous pull time. (2) Continuous operation is possible at a duty ratio of 100%.

(3) Pay close attention to the mounting method of the body. Please refer to P. 20 for details.

(4) Pay close attention to the mounting orientation. Please refer to P. 20 for details. (5) Please refer to P. 20 for information on load cells.

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

#### Stroke

	RCP6-	RRA7R
Stroke (mm)	Lead 4 (1000N)	Lead 2 (2000N)
120	0	0
170	0	0
220	0	0
270	0	0
320	0	0

#### **Options** \* Please check the Options reference pages to confirm each option.

Name	Option code	Reference page										
Brake	В	17										
Cable exit direction (bottom) (Note 1)	CJB	17										
Cable exit direction (outside)	OLO	17										
Cable exit direction (top)	CJT	17										
Flange (front)	FL	17										
Foot bracket (Note 1, 2)	FT	18										
Equipped with load cell (standard equipment) (Note 3)	LCT	18										
Motor side-mounted (left) (Note 4)	ML	18										
Motor side-mounted (right) (Note 4)	MR	18										
(Note 1) Foot bracket (ET) cannot be selected when selecting c	able exit direc	Note 1) Foot bracket (FT) cannot be selected when selecting cable exit direction (bottom										

(Note 1) Foot pracket (FT) cannot be selected when selecting code can director.
 (CJB).
 (Note 2) Please refer to P. 18 for the number of brackets included.
 (Note 3) Be sure to enter a selection in the options section of the model number.
 (Note 4) Be sure to enter a code in the options section of the model number.

#### Cable Length

Туре	Cable code	P3
	<b>P</b> (1m)	0
Standard type	<b>S</b> (3m)	0
	<b>M</b> (5m)	0
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	0
Specified length	X11(11m) ~ X15(15m)	0
	X16(16m) ~ X20(20m)	0
	R01(1m) ~ R03(3m)	0
	R04(4m) ~ R05(5m)	0
Robot cable	R06(6m) ~ R10(10m)	0
	R11(11m) ~ R15(15m)	0
	R16(16m) ~ R20(20m)	0

#### Main Specifications

		Descr	iption	
Lead		Ball screw lead (mm)	4	2
_	Payload	Maximum payload (kg) (high-output enabled)	10	10
Horizontal	rayioau	Maximum payload (kg) (high-output disabled)	10	10
ori	Speed /	Max. speed (mm/s)	160	85
Т	acceleration/	Rated acceleration/deceleration (G)	0.3	0.3
	deceleration	Max. acceleration/deceleration (G)	0.3	0.3
	Decile and	Maximum payload (kg) (high-output enabled)	10	10
Vertical	Payload	Maximum payload (kg) (high-output disabled)	10	10
Vei	Speed / acceleration/	Max. speed (mm/s)	160	85
		Rated acceleration/deceleration (G)	0.3	0.3
	deceleration	Max. acceleration/deceleration (G)	0.3	0.3
		Max. push force (N)		2000
Push		Min. push force (N)		200
		Max. push speed (mm/s)	10	10
		Max. pull force (N)	1000	2000
Pull		Min. pull force (N)	200	200
		Max. pull speed (mm/s)	10	10
Brake	2	Brake specification	Non-excitation solenoid bra	
		Brake holding force (kg)	10	10
		Min. stroke (mm)	120	120
Strok	e	Max. stroke (mm)	320	320
		Stroke pitch (mm)	50	50

#### Tables of Payload by Speed/Acceleration

High-output setting enabled (the unit for payload is kg)

#### Lead 4 (1000N)

#### Lead 2 (2000N)

Orientation	Horizontal	Vertical	Orientation
Speed (mm/s)	Accelera	ation (G)	Speed (mm/s)
(mm/s)	0.3	0.3	(mm/s)
0	10	10	0
35	10	10	35
70	10	10	70
115	10	10	85
160	10	10	

0.3

10

10

10

10

Orientation	Horizontal	Vertical				
Speed (mm/s)	Acceleration (G)					
(mm/s)	0.3	0.3				
0	10	10				
35	10	10				
70	10	10				
85	10	10				

....

1 14 11

#### High-output setting disabled (the unit for payload is kg)

10

10

10

10

#### Lead 4 (1000N) Orientation

Speed (mm/s)

0

35

70

115

#### Horizontal Vertical Orientation Horizontal Vertical Acceleration (G) Acceleration (G) Speed (mm/s) 0.3 0.3 0.3 0 10 10 35 10 10

10

10

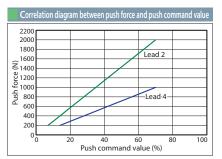
Lead 2 (2000N)

60

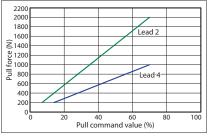
#### Stroke and Max Speed

	Push	High-	Stroke (mm)							
Lead (mm)	force Pull force	output setting	120	170	220	270	320			
4	1000N	Enabled	160							
4	100011	Disabled	115							
2	2000N	Enabled			85					
2	2000IN	Disabled	60							

(Unit: mm/s)



#### Correlation diagram between pull force and pull command value

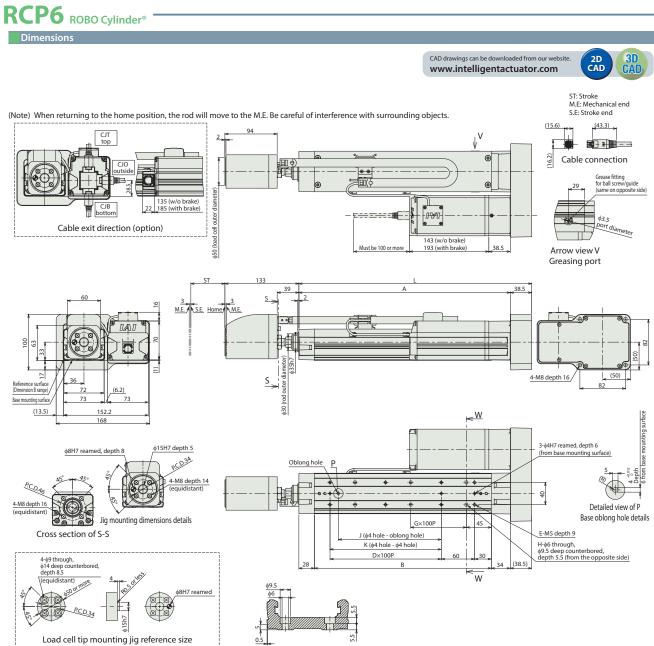


ltem	Description
Drive system	Ball screw, $\phi$ 12mm, rolled C10
Positioning repeatability	±0.02mm
Lost motion	0.1mm or less
Load cell rated capacity	2000N
Loading repeatability (Note 6)	±1.0% F.S. (Note 7)
Ambient operating temperature, humidity	0 ~ 40°C, 85%RH or less (no condensation)
Ingress protection	IP20
Vibration & shock resistance	4.9m/s <sup>2</sup>
Overseas standards	CE marking, RoHS directive
Motor type	Stepper motor
Encoder type	Battery-less absolute
Number of encoder pulses	8192 pulse/rev

(Note 6) Ratio (in percentage) of the load variations caused by the repeated operations to the load cell rated capacity.
 (Note 7) F.S.: Full Scale, the maximum measurable value.

# - RCP6 ROBO Cylinder® IAI

# RCP6-RRA7R 14



#### Cross section of W-W Details of base mounting counterbored holes

#### Dimensions by stroke

Stroke	120	170	220	270	320
L	318.5	368.5	418.5	468.5	518.5
A	280	330	380	430	480
В	218	268	318	368	418
D	1	1	2	2	3
E	6	6	8	8	10
G	1	2	2	3	3
Н	4	6	6	8	8
J	85	85	185	185	285
К	100	100	200	200	300

#### Mass by stroke

Str	roke	120	170	220	270	320
Mass	Without brake	6.0	6.3	6.6	6.9	7.2
Mass (kg)	With brake	6.6	6.9	7.2	7.5	7.8

#### Applicable Controllers

The actuators on this page can be operated by the controllers indicated below. Please select the type depending on your intended use.

		-	-																	
		Maximum	Power				C	ontro	ol me	tho	d									
Name	External		supply								Netv	work	(*sele	ectio	n)				Maximum number	Reference
Hume	view	v connectable voltage Positioner Pulse-train Program DV CC CIE PR CN ML ML3 EC		er Pulse-train Program		Pulse-train Program		itioner Pulse-train Program		EP	PRT	SSN	ECM	of positioning points	page					
PCON-CBP/ CGBP	I	1	24VDC	• *Selection	-	-	•	•	•	•	•	•	-	•	•	•	-	-	512 (768 for network spec.)	21

(Note) Please refer to P. 8-17 of the General Catalog 2021 for information on network abbreviation codes such as DV and CC.

## **Options** -

# Options

#### Brake

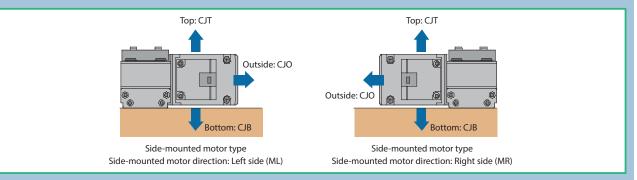
Model B

Description When the actuator is mounted vertically, this works as a holding mechanism that prevents the rod from falling and damaging any attachments when the power or servo is turned off.

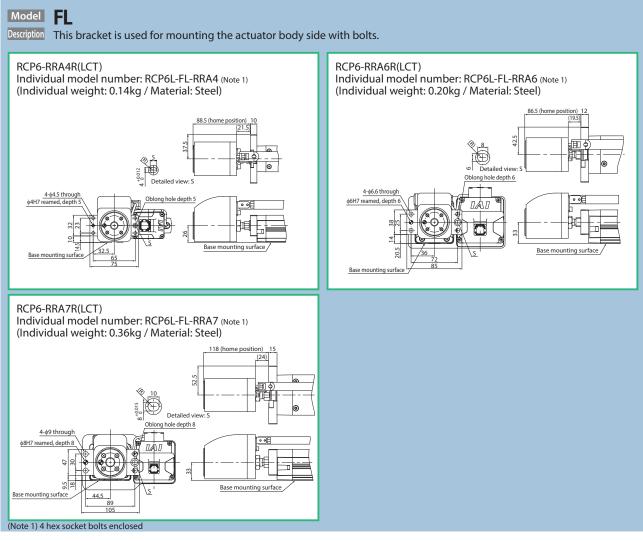
#### Cable exit direction

## Model CJT / CJB / CJO

Description This option allows the exit direction of the motor-encoder cable to be changed to top, bottom, or outside.



#### Flange (front)



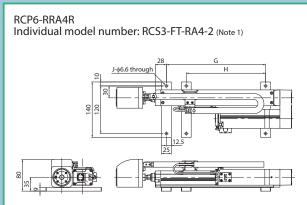
7 Options

# Options A

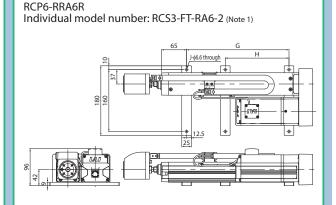
#### **Foot bracket**

#### Model

- Description This bracket is used for mounting the actuator body from the top with bolts.
  - The actuator body may be twisted or deformed if an insufficient number of mounting foot brackets are used. Actuator life could also be shortened.
  - \* Refer to the installation dimensions in the actuator drawing for the installation pitch between the foot brackets.



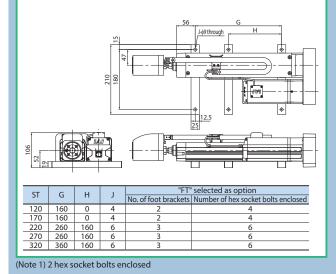
ст	G	ц			selected as option
51	G		,	No. of foot brackets	Number of hex socket bolts enclosed
110	150	0	4	2	4
160	200	0	4	2	4
210	250	200	6	3	6
260	300	200	6	3	6
310	350	200	6	3	6



	ST	G	н		"FT"	selected as option				
	51	9		,	No. of foot brackets	Number of hex socket bolts enclosed				
1	115	165	0	4	2	4				
	165	165	0	4	2	4				
	215	265	165	6	3	6				
	265	265	165	6	3	6				
	315	365	165	6	3	6				

#### RCP6-RRA7R

Individual model number: RCS3-FT-RA7-2 (Note 1)



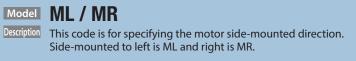
Equipped with load cell

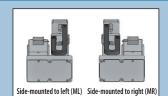


LUI This and in the land

This option installs a load cell to the rod tip and operates with force control.
 \*LCT must be selected for pulse press.

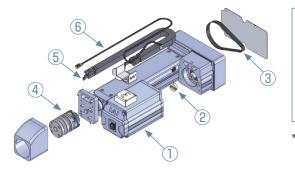
#### Motor side-mounted direction





# Maintenance parts

## **Maintenance part schematics**



Motor unit
 Coupling spacer
 Timing belt
 Load cell unit
 Cable track assembly
 Load cell cable assembly

\* Please refer to the dimensions on the product pages for the direction and dimensions when selecting the cable exit direction option.

## Maintenance part model list

#### The numbers in the tables match the numbers in the schematics.

#### 1 Motor unit

Туре	Motor side-	Cable exit	① Motor	unit model	
Type	mounted direction	direction	Without brake	With brake	
	Left/right same	Not specified	RCP6-MUPP4R	RCP6-MUPP4R-B	
		Bottom	RCP6-MUPP4R-CJB-ML	RCP6-MUPP4R-B-CJB-ML	
	Left side	Outside	RCP6-MUPP4R-CJO-ML	RCP6-MUPP4R-B-CJO-ML	
RRA4R		Тор	RCP6-MUPP4R-CJT-ML	RCP6-MUPP4R-B-CJT-ML	
		Bottom	RCP6-MUPP4R-CJB-MR	RCP6-MUPP4R-B-CJB-MR	
	Right side	Outside	RCP6-MUPP4R-CJO-MR	RCP6-MUPP4R-B-CJO-MR	
		Тор	RCP6-MUPP4R-CJT-MR	RCP6-MUPP4R-B-CJT-MR	
	Left side	Not specified	RCP6-MUPP6R-ML	RCP6-MUPP6R-B-ML	
		Bottom	RCP6-MUPP6R-CJB-ML	RCP6-MUPP6R-B-CJB-ML	
		Outside	RCP6-MUPP6R-CJO-ML	RCP6-MUPP6R-B-CJO-ML	
RRA6R		Тор	RCP6-MUPP6R-CJT-ML	RCP6-MUPP6R-B-CJT-ML	
RRAOR		Not specified	RCP6-MUPP6R-MR	RCP6-MUPP6R-B-MR	
	Right side	Bottom	RCP6-MUPP6R-CJB-MR	RCP6-MUPP6R-B-CJB-MR	
	Right side	Outside	RCP6-MUPP6R-CJO-MR	RCP6-MUPP6R-B-CJO-MR	
		Тор	RCP6-MUPP6R-CJT-MR	RCP6-MUPP6R-B-CJT-MR	
		Not specified	RCP6-MUPP7R-ML	RCP6-MUPP7R-B-ML	
	Left side	Bottom	RCP6-MUPP7R-CJB-ML	RCP6-MUPP7R-B-CJB-ML	
	Left side	Outside	RCP6-MUPP7R-CJO-ML	RCP6-MUPP7R-B-CJO-ML	
RRA7R		Тор	RCP6-MUPP7R-CJT-ML	RCP6-MUPP7R-B-CJT-ML	
nnA/ñ		Not specified	RCP6-MUPP7R-MR	RCP6-MUPP7R-B-MR	
	Right side	Bottom	RCP6-MUPP7R-CJB-MR	RCP6-MUPP7R-B-CJB-MR	
	Right side	Outside	RCP6-MUPP7R-CJO-MR	RCP6-MUPP7R-B-CJO-MR	
		Тор	RCP6-MUPP7R-CJT-MR	RCP6-MUPP7R-B-CJT-MR	

#### ② Coupling spacer

Туре	② Coupling spacer model
RRA4R	CPG-RCP6-S
RRA6R	CPG-RCP0-S
RRA7R	CPG-RCP6-M

#### 3 Timing belt

Туре	③ Timing belt model
RRA4R	TB-RCS3-RA4R
RRA6R	TB-RCS3-RA6R
RRA7R	TB-RCS3-RA7R

#### (4) Load cell unit

Туре	④ Load cell model
RRA4R	K-TIAI/600N1-1-PT
RRA6R	K-TIAI/000INT-T-PT
RRA7R	K-TIAI/2KN1-1-PT

#### (5) Cable track assembly

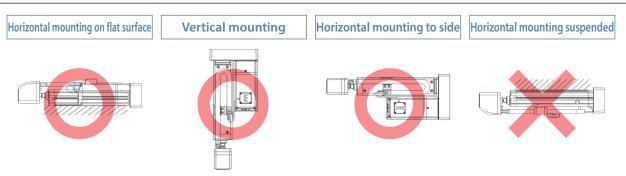
Туре	Stroke	(5) Cable track assembly model				
	110mm	CVR-P6PP-16				
	160mm	CVR-P6PP-18				
RRA4R	210mm	CVR-P6PP-23				
	260mm	CVR-P6PP-28				
	310mm	CVR-P6PP-31				
	115mm	CVR-P6PP-18				
	165mm					
RRA6R	215mm	CVR-P6PP-23				
	265mm	CVR-P6PP-28				
	315mm	CVR-P6PP-33				
	120mm	CVR-P6PP-18				
	170mm					
RRA7R	220mm	CVR-P6PP-23				
	270mm	CVR-P6PP-28				
	320mm	CVR-P6PP-33				

#### 6 Load cell cable assembly

Туре	Stroke	6 Load cell cable assembly model			
	110mm	CB-P6PP-LDC006			
	160mm	CB-P6PP-LDC007			
RRA4R	210mm	CB-P6PP-LDC008			
	260mm	CB-P6PP-LDC009			
	310mm	CB-P6PP-LDC010			
	115mm	CB-P6PP-LDC006			
	165mm	CB-P6PP-LDC007			
RRA6R	215mm	CB-P6PP-LDC008			
	265mm	CB-P6PP-LDC009			
	315mm	CB-P6PP-LDC010			
	120mm	CB-P6PP-LDC006			
	170mm	CB-P6PP-LDC008			
RRA7R	220mm	CB-P6PP-LDC008			
	270mm	CB-P6PP-LDC009			
	320mm	CB-P6PP-LDC010			

# Mounting orientation and load cell handling precautions

## **Mounting orientation**

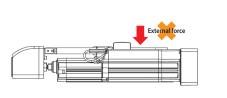


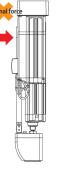
• Keep the body installation surface and workpiece mounting surface flatness at 0.05mm/m or lower. Uneven flatness will increase the sliding resistance of the slider and may cause a malfunction.

## **Precautions for installation**

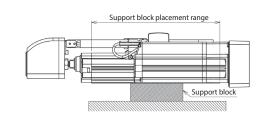
Keep the following in mind when using a screw hole or foot bracket to fix in place.

Do not attempt to apply any external force to the body of ROBO Cylinder. External force may cause malfunctions or damage to parts.



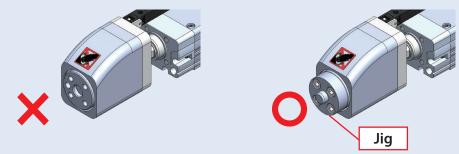


Prepare a support block as shown in the figure below when fixing the base seating surface horizontally, even if there is no external force applied on the body.

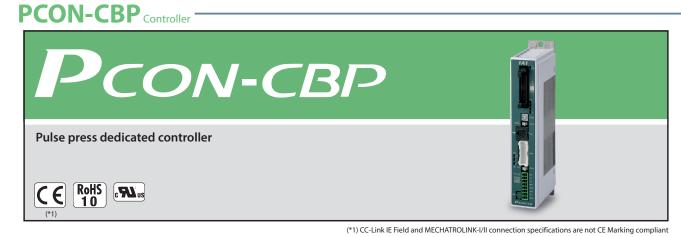


# Load cell handling precautions

- Never push/pull during positioning operations. Doing so will damage the load cell.
- Use with a jig mounted to the load cell.



- Do not apply a radial load or moment load to the body of the load cell.
- Do not subject the body of the load cell to collisions or other shocks exceeding the specified value. Be especially careful not to mistakenly collide with the load cell during mounting.
- Be careful not to hold the product by the load cell when transporting it.
- The load cell must be periodically calibrated. Please refer to the instruction manual for information on calibration.



Features

### 1 High resolution battery-less absolute encoder support

Pulse press specification actuators are equipped with high resolution battery-less absolute encoders. As no battery is needed for retaining position data, it is possible to save space around the control panel, which helps to keep down the cost of the equipment.



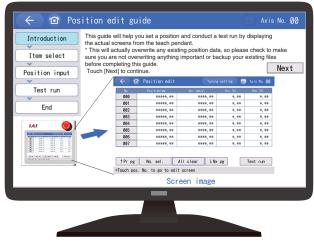
## 2 Supports force control using a load cell

The current load value can be read from the load cell. Load directions are supported from either press fitting or pulling, and can be easily switched out by specifying position data.

## **3** N unit display support for target loads

Position data pushing (%) is displayed as a converted target load (N). If the collision detection function is disabled, a converted "N" value is also displayed for the threshold (%).

#### [PC-compatible teaching software]



IA-OS: Position editing screen

[Teaching pendant]



TB-02: Position editing screen

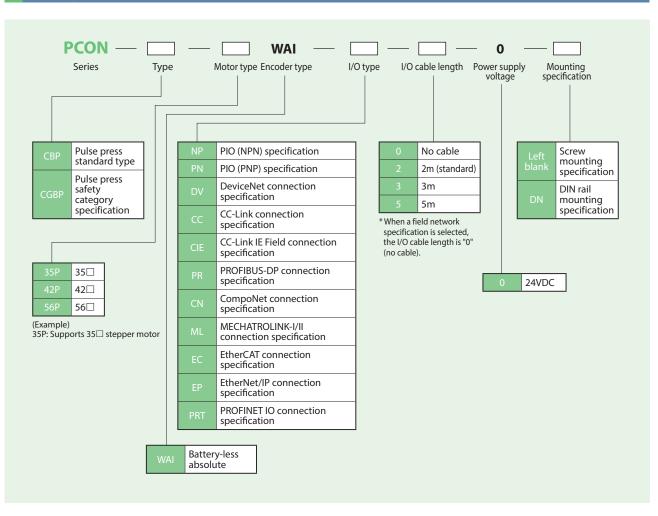
PCON-CBP Controller

List of Models

Model		PCON-CBP/CGBP								
External view										
	Field network type									
I/O type	Positioner	<b>Device</b> Net	CC-Link	CC-Línk <b>IE B</b> ield	₽ŖŎĘŢ <sup>®</sup> BŪŠ	CompoNet ∣	MECHATROLINK	Ether <b>CAT.</b>	EtherNet/IP	profo® Neti
ио туре	type	DeviceNet connection specification	connection	CC-Link IE Field connection specification	PROFIBUS-DP connection specification	CompoNet connection specification	I,II connection	connection	connection	
I/O type model number	NP/PN	NP/PN DV CC CIE PR CN ML EC EP PRT								
PCON-CBP/CGBP	-	-	-	-	-	-	_	-	-	-

\*1 MECHATROLINK-I/II is treated as an Intelligent I/O and supports only asynchronous commands.

#### **Model Specification Items**



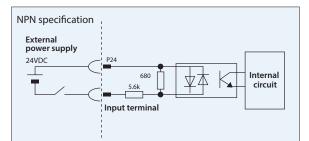


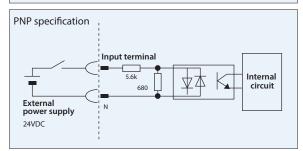
# PCON-CBP Controller

#### PIO Input/Output Interface

#### ■ Input/output External input specification

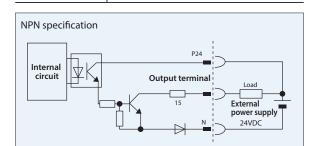
ltem	Specifications
Input voltage	24VDC ±10%
Input current	5mA, 1 circuit
	ON voltage: 18VDC min. OFF voltage: 6VDC max.



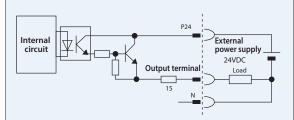


#### Input/output External input specification

Item	Specifications
Load voltage	24VDC
Maximum load current	50mA, 1 circuit
Leakage current	2mA max /point







#### **Types of PIO Patterns (Control Patterns)**

This controller has 8 types of control methods.

Please set the PIO pattern that best suits your application in Parameter No.25, "PIO Pattern Selection."

Туре	Set value of parameter No.25	Mode	Over	view
PIO pattern 0	0 (factory setting)	Positioning mode (standard type)	•Number of positioning points: 64 points •Zone signal output <sup>*1</sup> : 1 point	•Position number command: Binary code •Position zone signal output <sup>2</sup> : 1 point
PIO pattern 1	1	Teaching mode (teaching type)	•Number of positioning points: 64 points •Position zone signal output <sup>2</sup> : 1 point •Current position data can be written to the p	<ul> <li>Position number command: Binary code</li> <li>Jog (inching) operation using PIO signals is supported</li> <li>position table using PIO signals</li> </ul>
PIO pattern 2	2	256-point mode (256 positioning points type)	•Number of positioning points: 256 points •Position number command: Binary code •Position zone signal output <sup>2</sup> : 1 point	
PIO pattern 3	3	512 mode (512 positioning points type)	•Number of positioning points: 512 points •Position number command: Binary code •No zone signal output	
PIO pattern 4	4	Solenoid valve mode 1 (7-point type)	•Number of positioning points: 7 points •Zone signal output <sup>•1</sup> : 1 point	<ul> <li>Position number command: Individual number signal ON</li> <li>Position zone signal output<sup>2</sup>: 1 point</li> </ul>
PIO pattern 5	5	Solenoid valve mode 2 (3-point type)	•Number of positioning points: 3 points •Completion signal: A signal equivalent to a L •Zone signal output" : 1 point	•Position number command: Individual number signal ON .S (limit switch) signal can be output •Position zone signal output <sup>2</sup> : 1 point
PIO pattern 6	6 Force control mode 1		•Number of positioning points: 32 points •Position zone signal output <sup>2</sup> : 1 point •Load cell calibration command	•Position number command: Binary code
PIO pattern 7	/ Force control mod		•Number of positioning points: 5 points •Position zone signal output <sup>-2</sup> : 1 point •Load cell calibration command	•Position number command: Individual number signal ON

\*1 Zone signal output: Please set the desired zone range in Parameter No.1/2 or 23/24. It will remain effective once home return is completed.

\*2 Position zone signal output: This command function relates to the position number. Set the desired zone range in the position table. This function will only become enabled when the corresponding position is specified. It will be disabled for all other position commands.

#### The table below lists the signal assignments for the I/O flat cable under different PIO patterns. Connect an external device (such as a PLC) according to this table.

					Para	meter No.25, "P	O Pattern Selec	tion"		
	Category	PIO function	0	1	2	3	4	5	6	7
			Positioning mode	Teaching mode	256-point mode	512-point mode	Solenoid valve mode 1	Solenoid valve mode 2	Force control mode 1	Force control mode 2
Pin number		Number of positioning points	64 points	64 points	256 points	512 points	7 points	3 points	32 points	5 points
		Home return signal	0	0	0	0	0	×	0	0
	Input	Jog signal	×	0	×	×	×	×	×	×
umper		Teaching signal (current position writing)	×	0	×	×	×	×	×	×
		Brake release	0	×	0	0	0	0	0	0
		Moving signal	0	0	×	×	×	×	×	×
	Output	Zone signal	0	Δ	Δ	×	0	0	Δ	Δ
		Position zone signal	0	O (Note 1)	O (Note 1)	×	0	0	O (Note 1)	(Note 1)
1A	24V					P24				
2A	24V		· · · · · · · · · · · · · · · · · · ·			P24	·	·		
3A						_				
4A	—									
5A		INO	PC1	PC1	PC1	PC1	ST0	ST0	PC1	ST0
5A 6A		IN1	PC1 PC2	PC1 PC2	PC1 PC2	PC1 PC2	ST0		PC1 PC2	
								ST1(JOG+)		ST1
7A		IN2	PC4	PC4	PC4	PC4	ST2	ST2 (non-functional)	PC4	ST2
8A		IN3	PC8	PC8	PC8	PC8	ST3	_	PC8	ST3
9A		IN4	PC16	PC16	PC16	PC16	ST4	_	PC16	ST4
10A		IN5	PC32	PC32	PC32	PC32	ST5	—	—	—
11A		IN6	_	MODE	PC64	PC64	ST6	_	_	-
12A	Input	IN7	—	JISL	PC128	PC128	—	—	—	—
13A		IN8	_	JOG+	_	PC256	—	—	CLBR	CLBR
14A		IN9	BKRL	JOG-	BKRL	BKRL	BKRL	BKRL	BKRL	BKRL
15A		IN10	RMOD	RMOD	RMOD	RMOD	RMOD	RMOD	RMOD	RMOD
16A		IN11	HOME	HOME	HOME	HOME	HOME	_	HOME	HOME
17A		IN12	*STP	*STP	*STP	*STP	*STP	_	*STP	*STP
18A		IN13	CSTR	CSTR/PWRT	CSTR	CSTR	—	—	CSTR	-
19A		IN14	RES	RES	RES	RES	RES	RES	RES	RES
20A		IN15	SON	SON	SON	SON	SON	SON	SON	SON
1B		OUT0	PM1(ALM1)	PM1(ALM1)	PM1(ALM1)	PM1(ALM1)	PE0	LSO	PM1	PE0
2B		OUT1	PM2(ALM2)	PM2(ALM2)	PM2(ALM2)	PM2(ALM2)	PE1	LS1(TRQS)	PM2	PE1
3B		OUT2	PM4(ALM4)	PM4(ALM4)	PM4(ALM4)	PM4(ALM4)	PE2	LS2 (Note 2)	PM4	PE2
4B		OUT3	PM8(ALM8)	PM8(ALM8)	PM8(ALM8)	PM8(ALM8)	PE3	—	PM8	PE3
5B		OUT4	PM16	PM16	PM16	PM16	PE4	_	PM16	PE4
6B		OUT5	PM32	PM32	PM32	PM32	PE5	_	TRQS	TRQS
7B		OUT6	MOVE	MOVE	PM64	PM64	PE6	_	LOAD	LOAD
8B		OUT7	ZONE1	MODES	PM128	PM128	ZONE1	ZONE1	CEND	CEND
9B	Output	OUT8	PZONE/ZONE2	PZONE/ZONE1		PM256	PZONE/ZONE2	PZONE/ZONE2		PZONE/ZONE1
10B		OUT9	RMDS	RMDS	RMDS	RMDS	RMDS	RMDS	RMDS	RMDS
11B		OUT10	HEND	HEND	HEND	HEND	HEND	HEND	HEND	HEND
12B		OUT11	PEND	PEND/WEND	PEND	PEND	PEND	_	PEND	PEND
13B		OUT12	SV	SV	SV	SV	SV	SV	SV	SV
14B		OUT13	*EMGS	*EMGS	*EMGS	*EMGS	*EMGS	*EMGS	*EMGS	*EMGS
15B		OUT14	*ALM	*ALM	*ALM	*ALM	*ALM	*ALM	*ALM	*ALM
										*ALML
16B		OUT15 LOAD/TRQS *ALML *ALML LOAD/TRQS *ALML LOAD/TRQS *ALML LOAD/TRQS *ALML LOAD/TRQS *ALML *ALML *ALML *ALML								
17B	—					_				
18B	014									
19B	0V					N				
20B	0V				s a negative logic s	N				

(Note) In the table above, the asterisk (\*) symbol accompanying each code indicates a negative logic signal. PM1 through PM8 are alarm binary code output signals that are used when an alarm is generated. (Note 1) In all PIO patterns other than pattern 3, this signal can be switched with PZONE by setting Parameter No.149 accordingly.

(Note 2) The setting will not become effective until the home return is completed.

Reference: Negative logic signals Signals denoted by \* are negative logic signals. Negative logic input signals are processed when turned OFF. Negative logic output signals normally remain ON while the power is supplied, and turn OFF when the signal is output.

#### Field Network Specification: Explanation of Operation Modes

If controlling via a field network, one of the following 8 modes can be selected to operate the actuator. Please note that the data areas required on the PLC side will vary depending on the mode.

#### Mode description

	Mode	Description
0	Remote I/O mode	Similar to the PIO specification, this mode operates by turning bits ON/OFF over a network. The number of positioning points and functions will vary depending on the operation patterns (PIO patterns) set by the controller's parameters.
1	Position/simple direct value mode	The target position value is directly input, while all other operational conditions (speed, acceleration, etc.) are used by specifying the position number of the desired operating condition entered in position data.
2	Half direct value mode	The actuator is operated by directly inputting values other than the target position (speed, acceleration/deceleration, and push current).
3	Full direct value mode	The actuator is operated by directly inputting values for the target position, speed, acceleration/deceleration rate, push current limit value, etc. The current position, current speed, command current value, and load cell data can also be read.
4	Remote I/O mode 2	This mode is the same as the remote I/O mode above, with the added functionality of reading the current position and command current value.
5	Position/simple direct value mode 2	This mode provides a force control function instead of the display and zone functions of the position/simple direct value mode above.
6	Half direct value mode 2	This can read load cell data instead of the command current (which is a function of the half direct value mode above).
7	Remote I/O mode 3	This mode is the same as the remote I/O mode above, with the added functionality of reading current position and load cell data.

#### Required data size for each network

	Mode	DeviceNet	CompoNet	CC-Link	CC-Link IE Field	MECHATROLINK-I/II	PROFIBUS-DP	EtherCAT	EtherNet/IP	PROFINET IO
0	Remote I/O mode	2 bytes	2 bytes	1 station	4 words	2 bytes	2 bytes	2 bytes	2 bytes	2 bytes
1	Position/simple direct value mode	8 bytes	8 bytes	1 station	4 words	8 bytes	8 bytes	8 bytes	8 bytes	8 bytes
2	Half direct value mode	16 bytes	16 bytes	2 stations	8 words	16 bytes	16 bytes	16 bytes	16 bytes	16 bytes
3	Full direct value mode	32 bytes	32 bytes	4 stations	16 words	X (Note 1)	32 bytes	32 bytes	32 bytes	32 bytes
4	Remote I/O mode 2	12 bytes	12 bytes	1 station	4 words	12 bytes	12 bytes	12 bytes	12 bytes	12 bytes
5	Position/simple direct value mode 2	8 bytes	8 bytes	1 station	4 words	8 bytes	8 bytes	8 bytes	8 bytes	8 bytes
6	Half direct value mode 2	16 bytes	16 bytes	2 stations	8 words	16 bytes	16 bytes	16 bytes	16 bytes	16 bytes
7	Remote I/O mode 3	12 bytes	12 bytes	1 station	4 words	12 bytes	12 bytes	12 bytes	12 bytes	12 bytes

(Note 1) MECHATROLINK does not support the full direct value mode.

#### List of functions by operation mode

Mode	Remote I/O mode	Position/simple direct value mode	Half direct value mode	Full direct value mode(Note 1)	Remote I/O mode 2	Position/simple direct value mode 2	Half direct value mode 2	Remote I/O mode 3
Number of positioning points	512 points	768 points	Unlimited	Unlimited	512 points	768 points	Unlimited	512 points
Operates by direct assignment of position data	×	0	0	0	×	0	0	×
Direct assignment of speed/acceleration	×	×	0	0	×	×	0	×
Push-motion operation	0	0	0	0	0	0	0	0
Current position reading	×	0	0	0	0	0	0	0
Current speed reading	×	×	0	0	×	×	0	×
Operates by specifying position No.	0	0	×	×	0	0	×	0
Completed position number reading	0	0	×	×	0	0	×	0
Force control	△(Note 2)	×	×	0	(Note 2)	0	0	(Note 2)
Current load data reading	×	×	×	0	×	0	0	0

\*  $\bigcirc$  indicates that the operation is supported, and imes indicates that it is not supported.

(Note 1) MECHATROLINK does not support the full direct value mode.

(Note 2) Usable when PIO pattern is set to 6 or 7.

PCON-CBP Controller -

#### **Specification List**

Item		Specification		
		PCON-CBP/CGBP		
Number of controlled axes		1 axis		
Power supply voltage		24VDC ±10%		
Load current (including control-side current consumption) (Note 1)		High-output setting disabled: 2.2A max. High-output setting enabled: 3.5A rated / 4.2A max.		
Electromagnetic brake po	wer (for actuator with brake)	24VDC±10%, 0.15A (max.)		
Inrush current (Note 2)		8.3A		
Momentary power failure	resistance	500µs max.		
Supported encoders		High-resolution battery-less absolute encoder: 8192 pulses/rev		
Actuator cable length		Up to 20m		
External interface	PIO specification	Dedicated 24VDC signal input/output (NPN/PNP selection) Input max. of 16 points, output max. of 16 points, cable length max. of 10m		
	Field network specification	DeviceNet, CC-Link, CC-Link IE Field, PROFIBUS-DP, CompoNet, MECHATROLINK-I/II, EtherCAT, EtherNet/IP, PROFINET IO		
Data setting, input metho	d	PC teaching software, touch panel teaching pendant		
Data retention memory		Position data and parameters are saved in non-volatile memory (no limit to rewrite)		
Operation mode		Positioner mode		
Number of positioner-mode positions		Up to 512 points for positioner type or up to 768 points for network type (Note) The total number of positioning points varies depending on which PIO pattern is selected		
Insulation resistance		10MΩ or more at 500VDC		
Electric shock protection	nechanism	Class I, basic insulation		
Mass (Note 3)		Screw mounting specification: 250g or less, DIN rail mounting specification: 285g or less		
Cooling method		Natural air cooling		
	Ambient operating temperature	0~40°C		
Environment	Ambient operating humidity	85% RH or less (no condensation)		
	Operating environment	Free from corrosive gases		
	Ingress protection	IP20		
	A			

(Note 1) 0.3A higher for the field network specification.

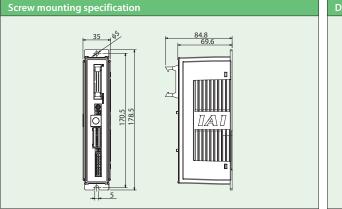
(Note 2) Inrush current flows for approx. 5 msec after power is turned ON (at 40°C). Please note that the inrush current value varies depending on the impedance of the power line. (Note 3) 30g heavier for the field network specification.

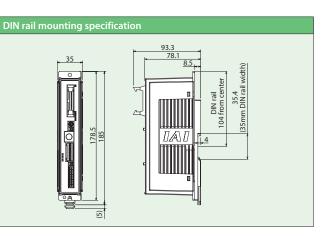
# PCON-CBP Controller

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

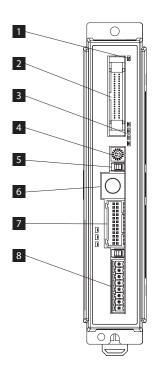








#### Part Names



#### 1 Controller display status LED

Indicates the status of the controller.

 $\bigcirc:\mathsf{ON}, \times:\mathsf{OFF}, \precsim:\mathsf{Blinking}$ 

LED		Operating status	
SV (green)	ALM (red)	Operating status	
×	×	Control power OFF	
^	~	Servo OFF	
		Alarm (operation cancel level or above)	
×	Motor drive power su	Motor drive power supply	
		Emergency stop	
0	×	Servo ON	
☆	×	AUTO servo OFF	
O (or	ange)	Initialized when power is turned ON	

#### 2 PIO connector /field network connector

Cable connector for performing parallel communication with peripheral devices such as PLC.

#### 3 Current/alarm monitor LED

Displays the normal command current ratio. Displays the alarm code when an alarm occurs.

LED	Operating status					
STS3 (green)	Status display -Servo ON: Displays the current command current ratio (proportion of rated value).					
	STATUS		0	Command current ratio		
STS2 (green)		ALM8	ALM4	ALM2	ALM1	Simple alarm code
		×	×	×	×	0.00% ~ 6.24%
STS1 (green)		×	×	×	0	6.25% ~ 24.99%
		×	×	0	0	25.00% ~ 49.99%
STS0 (green)		×	0	0	0	50.00% ~ 74.99%
		0	0	0	0	75.00% ~ 100.00% or higher
	•During alarm: Displays a simple alarm code.					

#### 4 Axis number setting switch

Used to set an address to identify each controller, when controllers are linked.

#### 5 Operation mode setting switch

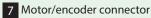
Switch for the interlock.

Name	Description
MANU	Commands from PIO are not received
AUTO	Commands from PIO can be received

\* The emergency stop switch on the touch panel teaching pendant is enabled when the connection is made, regardless of the status (AUTO or MANU). Be sure to turn the power OFF when disconnecting the touch panel teaching pendant and SIO communication cable.



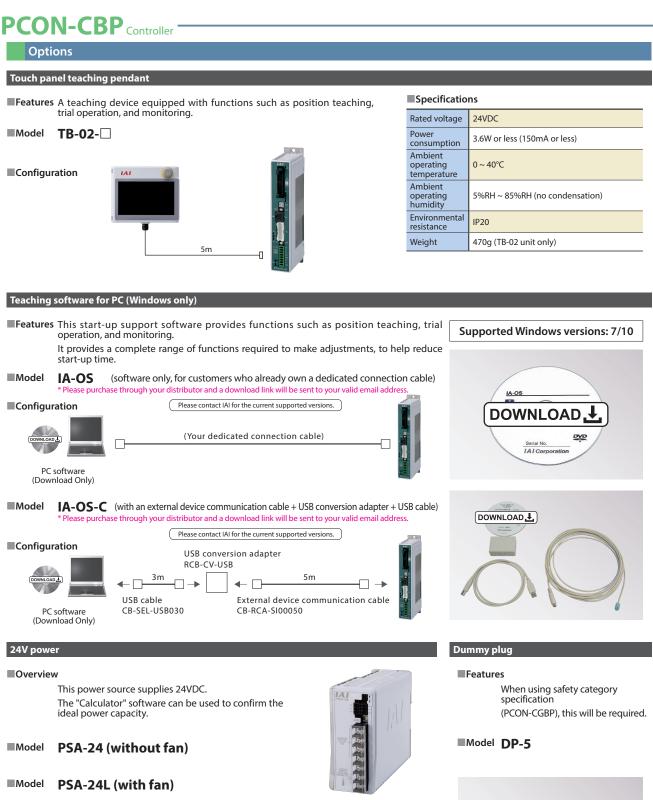
Connector for touch panel teaching pendant or PC communication connection.

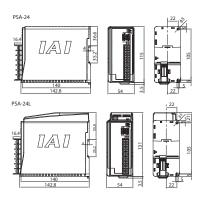


Connector to connect an actuator motor and encoder cable.

#### 8 Power supply connector

Connector for power supply and emergency stop status signal input.





ltem	Specifications				
Item	100VAC input	200VAC input			
Power input voltage range	100VAC ~ 230VAC±10%				
Input power supply current	3.9A or less	1.9A or less			
Power capacity	Without fan: 250VA With fan: 390VA	Without fan: 280VA With fan: 380VA			
Inrush current"	Without fan: 17A (typ.) With fan: 27.4A (typ.)	Without fan: 34A (typ.) With fan: 54.8A (typ.)			
Generated heat	28.6W	20.4W			
Output voltage range <sup>12</sup>	24V ±10%				
Continuous rated output	Without fan: 8.5A (204W), with fan: 13.8 (330W)				
Peak output	17A (408W)				
Efficiency	86% or more	90% or more			
Parallel connection <sup>13</sup>	Up to 5 units				
<ul> <li>*1 The pulse width of flowing inrush current is 5ms or less.</li> <li>*2 This power supply can vary the output voltage according to the load in order to enable parallel operation. The power supply is therefore for use with IAI controllers only.</li> <li>*3 Parallel connection cannot be used under the following conditions.</li> <li>Parallel connection of PSA-24 (specification without fan) and PSA-24L (specification with fan)</li> </ul>					

Parallel connection with a power supply unit other than this power supply
 Parallel connection with PS-24

PCON-CBP



PCON-CBP Controller

**Maintenance Parts** 

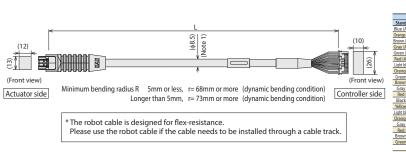
When placing an order for a replacement cable after purchasing a product, please use the model name shown below.

#### Table of compatible cables

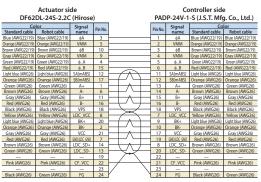
Model name	Motor/encoder cable	Motor/encoder robot cable			
RCP6-RRA□R-LCT	CB-CAN-MPA	CB-CAN-MPA			
Model name	PIO flat cable				
PCON-CBP/CGBP	CB-PAC-PIO				

## 

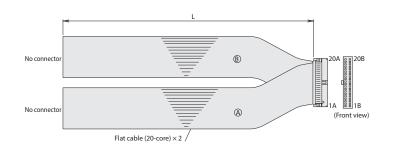
\* Please indicate the cable length (L) in 
, maximum 20m
Example) 080 = 8m



(Note 1) If the cable length is 5m or more,  $\phi 9.1$  cable diameter applies for both non-robot cables and robot cables.



#### 



\* Please indicate the cable length (L) in  $\Box\Box\Box$ , maximum 10m Example) 080 = 8m



Catalog No. CE0286-2A (2021OCT)

#### IAI America, Inc.

USA Headquarters & Western Region (Los Angeles) : 2690 W. 237th Street, Torrance, CA 90505 (310) 891-6015 Midwest Branch Office (Chicago) : 110 East State Parkway, Schaumburg, Illinois 60173 (847) 908-1400 Southeast Branch Office (Atlanta) : 1220 Kennestone Circle, Suite 108, Marietta, GA 30066 (678) 354-9470 www.intelligentactuator.com

JAPAN Headquarters : 577-1 Obane, Shimizu-ku, Shizuoka-shi, Shizuoka, 424-0103, JAPAN The information contained in this product brochure may change without prior notice due to product improvements.

#### IAI Industrieroboter GmbH

Ober der Röth 4, D-65824 Schwalbach am Taunus, Germany

IAI (Shanghai) Co., Ltd. Shanghai Jiahua Business Center A8-303, 808, Hongqiao Rd., Shanghai 200030, China

#### IAI Robot (Thailand) Co., Ltd.

825 Phairojkijja Tower 7th Floor, Debaratana Rd., Bangna Nuea, Bangna, Bangkok 10260, Thailand