



Gripper Type/Rotary Type

RCP2 RCS2



www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

	2-Finger gripper type		Width 60mm	RCP2-GRS	243
RCP2			Width 74mm	RCP2-GRM	245
series	3-Finger gripper	Lever type	Width 60mm	RCP2-GR3LS	247
24V			Width 80mm	RCP2-GR3LM	249
Servo Motor Type		Slider type	Width 62mm	RCP2-GR3SS	251
.71-			Width 80mm	RCP2-GR3SM	253
RCS2	2-Finger gripper	Long stroke type	Width 104mm to		
series			284mm	RCS2-GR8	255
24V					
Servo Motor Type					
DCD3	Rotary type	Vertical		RCP2-RTB/RTBL	257
RCP2		Flat		RCP2-RTC/RTCL	259
series					
24V Servo Motor Type					
DCCO	Rotary type	Straight motor type	Width 64mm	RCS2-RT6	261
RCS2		Reverse-mounted motor type	Width 64mm	RCS2-RT6R	263
series		Reverse-mounted motor, hollow axis type	Width 68mm	RCS2-RT7R	265
200V Servo Motor Type					

Pulse Motor 20 P Pulse Motor

35_P

Pulse Motor

56_P Pulse Motor 86 P

Servo Motor

Servo Motor 20 w

Servo Motor 30 w Servo Motor

Servo Motor

150w

750 w

Servo Motor

Servo Motor 20 w

Servo Motor

60 W Servo Motor

100 w Servo Motor

Servo Motor 750 w

RCP 2 www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

ROBO Cylinder, Gripper Type, Actuator Width 69mm, Pulse Motor ■Model Description RCP2 — GRS **20P** 10 Cable length I:Incremental 20P: Pulse motor 10: 10mm (5mm on one side) P1: PCON 1: Deceleration ratio SB: Shaft bracket : 1m : 3m : 5m specification FB: Flange bracket 20 Size 1/1 **PSEL** X□□: Length R□□: Robot cable See preceding section for model descriptions



Technical Reference

(3) P. 451

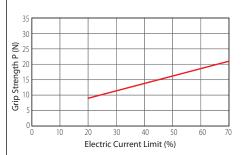
Notes on selection

- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.
- (2) The maximum gripping force is the sum of gripping forces of both fingers when the gripping point distance is 0 and overhang distance is 0. Although the weight of a work part that can be physically transferred varies depending on the friction coefficient determined by the finger material and work material, as well as on the shape of the work, a rough guide is that normally the work weight should not exceed 1/10 to 1/20 of the gripping force (provide a greater allowance if the actuator is operated at high acceleration/deceleration or receives shock).
- (3) The rated acceleration during movement is 0.3G.

■Gripping Force Adjustment

The gripping force (push force) can be adjusted freely within the range of current limiting values of 20% to 70%.

* The gripping forces in the following diagrams indicate the sums of gripping forces of both fingers.



*Please note that speed is fixed at 5mm/s when gripping (pushing).

Actuator Specification Table

■Leads and Payloads

Legend: 1 Cable length 2 Option

Model	Gear Ratio (mm)	Max. gripping force (N)	Stroke (mm)			
RCP2-GRS-I-20P-1-10-P1-10-2	1	21	10			

Stroke and Max. Opening/Closing Speed

Stroke 10 (mm)

1 33.3

(Unit = mm/s)

Price List by Stroke					
	Type code				
Stroke	GRS				
(mm)	Encoder type				
	Incremental				
10	-				

① Cable Length Price List

Type	Cable symbol			Standard price
	P (1m)			-
Standard type	S (3m)			-
	M (5m)			-
	X06 (6m)	to	X10 (10m)	-
Special length	X11 (11m)	to	X15 (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-
	R11 (11m)	to	R15 (15m)	-
	R16 (16m)	to	R20 (20m)	-

*See P374 for maintenance cables.

② Option Price List Title Option code See page Standard price Shaft bracket SB →P445 Flange bracket FB →P437

Actuator Specification					
Item	Description				
Drive System	Timing belt + Trapezoidal screw (Lead 1.5)				
Positioning Repeatability	±0.01mm				
Backlash	0.15mm or less per side (pressure is constantly exerted by spring)				
Guide	Cross roller guide				
Allowable load moment	Ma: 6.3N·m, Mb: 6.3N·m, Mc: 7.0N·m				
Weight	0.36kg				
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)				

www.intelligentactuator.com

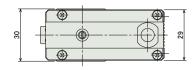
Information on special orders

译 P. 454

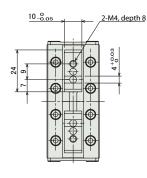


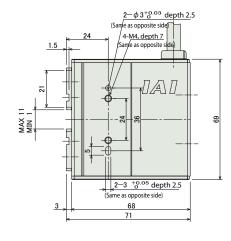


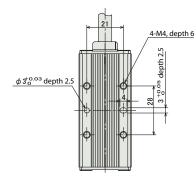
- * The slider home position is on the open side
- * See P374 for motor-encoder cable details.



*The cable bending radius R is the same as for other models.







CAUTION

The holes in the slider shown above, other than tapped holes, are used to install the slider onto the actuator body. They cannot be used as finger positioning holes. Use the key slots to position the fingers.



Weight (kg) 0.36

Title	External View	Model	Features	Max. positioning points	Input power	Power-supply capacity	Standard price	See page
Positioner type	É	PCON-C-20PI-NP-2-0	Up to 512-point	I I			-	
Safety category compatible positioner type		PCON-CG-20PI-NP-2-0	positioning possible	512 points			-	
Solenoid valve type		PCON-CY-20PI-NP-2-0	Same as solenoid valve controlled operation enabled	3 points			-	→P365
Pulse series input type (differential line driver specification)	á	PCON-PL-20PI-NP-2-0	Differential line driver compatible pulse series input type		DC24V	Maximum 2A	-	→P305
Pulse series input type (open collector specification)	B	PCON-PO-20PI-NP-2-0	Open collector compatible pulse series input type	(-)	DG24V		-	
Serial communication type		PCON-SE-20PI-NP-0-0	Serial communications special type	64 points			-	
Field network type		RPCON-20P	Field network dedicated type	768 points			-	→P343
Program control type		PSEL-C-1-20PI-NP-2-0	Programmable type capable of operating up to 2 axes	1500 points			-	→P395

IAI

30 w

60 W Servo Motor

100 w Servo Motor

150 w Servo Motor 750 w RCP2www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

RCP2-GRM

ROBO Cylinder, Gripper Type, Actuator Width 74mm, Pulse Motor





Technical Reference **全** P. 451

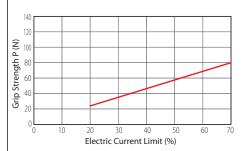
Notes on selection

- The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.
- (2) The maximum gripping force is the sum of gripping forces of both fingers when the gripping point distance is 0 and overhang distance is 0. Although the weight of a work part that can be physically transferred varies depending on the friction coefficient determined by the finger material and work material, as well as on the shape of the work, a rough guide is that normally the work weight should not exceed 1/10 to 1/20 of the gripping force (provide a greater allowance if the actuator is operated at high acceleration/deceleration or receives shock).
- (3) The rated acceleration during movement is 0.3G.

■Gripping Force Adjustment

The gripping force (push force) can be adjusted freely within the range of current limiting values of 20% to 70%.

* The gripping forces in the following diagrams indicate the sums of gripping forces of both fingers.



*Please note that speed is fixed at 5mm/s when gripping (pushing).

Actuator Specification Table

Legend: 1 Cable length 2 Option

■Leads and Payloads

Model	Gear Ratio (mm)	Max. gripping force (N)	Stroke (mm)			
RCP2-GRM-I-28P-1-14-P1-①-②	1	80	14			

Stroke and Max. Opening/Closing Speed Stroke 14 (mm) 1 36.7

(Unit = mm/s)

Price List by Stroke						
	Type code					
Stroke	GRM					
(mm)	Encoder type					
	Incremental					
14	-					

Type	Cable symbol			Standard price
	P (1m)			-
Standard type	S (3m)			-
	M (5m)			-
	X06 (6m)	to	X10 (10m)	-
Special length	X11 (11m)	to	X15 (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-

R11 (11m) to **R15** (15m)

R20 (20m)

*See P374 for maintenance cables.

1 Cable Length Price List

② Option Price List						
Title	Option code	See page	Standard price			
Shaft bracket	SB	→P445	-			
Flange bracket	FB	→P437	-			
Flange bracket	FB	→P437	-			

Actuator Specification					
Item	Description				
Drive System	Timing belt + Trapezoidal screw (Lead 1.5)				
Positioning Repeatability	±0.01mm				
Backlash	0.15mm or less per side (pressure is constantly exerted by spring)				
Guide	Cross roller guide				
Allowable load moment	Ma: 6.3N·m, Mb: 6.3N·m, Mc: 8.3N·m				
Weight	0.5kg				
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)				

CAD drawings can be downloaded www.intelligentactuator.com

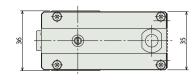
Information on special orders



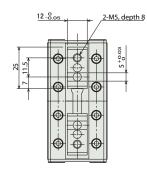


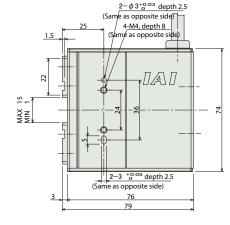


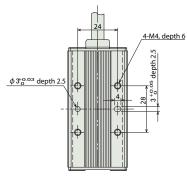
- * The slider home position is on the open side
- * See P374 for motor-encoder cable details.



* The cable bending radius R is the same as for other models.

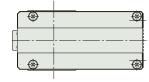






CAUTION

The holes in the slider shown above, other than tapped holes, are used to install the slider onto the actuator body. They cannot be used as finger positioning holes. Use the key slots to position the fingers.



Weight (kg) 0.5

Compatible Controllers The RCP2 series actuators can be operated with the following controllers. Select the type that is compatible with your application. Positioner type PCON-C-28PI-NP-2-0 Up to 512-point positioning 512 points Safety category possible compatible PCON-CG-28PI-NP-2-0 positioner type Same as solenoid Solenoid valve PCON-CY-28PI-NP-2-0 valve controlled 3 points type operation enabled →P365 Pulse series input type (differential line Differential line driver compatible PCON-PL-28PI-NP-2-0 pulse series input type driver specification) DC24V Maximum 2A (-)Pulse series input Open collector compatible pulse series input type type (open collector specification) PCON-PO-28PI-NP-2-0 Serial Serial PCON-SE-28PI-NP-0-0 communications 64 points communication type special type Field network Field network RPCON-28P 768 points →P343 dedicated type type Programmable type capable of operating up to 2 axes Program PSEL-C-1-28PI-NP-2-0 1500 points →P395 control type

IAI

RCP2-GRM **246**

> ...

Flat Rota

pper/

Splash

Controller

Coupling

Reversemounted

Pulse Motor 20 P

28_P

35_P

42 P Pulse Motor

56 P Pulse Motor

> 86 P Servo Motor

Servo Motor

20 w Servo Motor

Servo Motor

Servo Motor

Servo Motor

actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

ROBO Cylinder, 3-Finger Gripper, Lever Type, Actuator Width 62mm, Pulse

■Model Description RCP2 − GR3LS − 28P -30 -19 **P1** - Deceleration ratio -Stroke Compatible Controllers Cable length Encoder type Motor type Option I:Incremental 28P: Pulse motor 30: Deceleration ratio 19: 19 degrees P1: PCON SB: Shaft bracket FB: Flange bracket : 1m specification 28 Size 1/30 **PSEL** : 3m : 5m X□□: Length R□□: Robot cable See preceding section for model descriptions



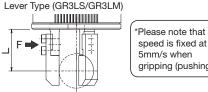
Technical Reference



OIN

- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.
- (2) The maximum gripping force is the sum of gripping forces of all fingers when the gripping point distance is 10 and overhang distance is 0. Refer to the explanation on the right when determining the weight of a work part that can be physically transferred.
- (3) The rated acceleration during movement is 0.3G.

■Grip Force vs. Current-limitating Graph

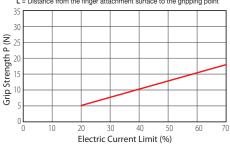


speed is fixed at 5mm/s when gripping (pushing).

*The values in the graph below are the grip strength at a gripping point 10mm from the base. The actual gripping force decreases in inverse proportion to the distance from the opening/closing fulcrum.

Calculate the actual gripping force using the formulas below: Effective gripping force (S type) = $P \times 24/(L + 14)$ Effective gripping force (M type) = $P \times 28.5/(L + 18.5)$ P = Gripping force determined from the graph

L = Distance from the finger attachment surface to the gripping point



Actuator Specification Table

Legend: 1 Cable length 2 Option

■Leads and Pavloads

= Education in a yio add					
Model	Gear Ratio (mm)	Max. gripping force (N)	Stroke (degrees)		
RCP2-GR3LS-I-28P-30-19-P1-① -②	30	18	19		

■Stroke and Max. Opening/Closing Speed

	maxi e perimig, ereemig e peea
Stroke Deceleration ratio	19 (degrees)
30	200

(Unit = mm/s)

Price List by Stroke Type code Stroke **GR3LS** (mm) Encoder type Incremental 10

① Cable Length Price List

Туре	Cable symbol			Standard price
	P (1m)		-	
Standard type	S (3m)			-
	M (5m)			-
	X06 (6m)	to	X10 (10m)	-
Special length	X11 (11m)	to	X15 (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-
	R11 (11m)	to	R15 (15m)	-
	R16 (16m)	to	R20 (20m)	-

*See P374 for maintenance cables.

② Option Price List Option code See page Standard price Shaft bracket Flange bracket →P437

Actuator Specification				
Item	Description			
Drive System	Worm gear + Worm wheel gear			
Positioning Repeatability	±0.01 degrees			
Backlash	1° or less per side (fingers always pressured to open side via spring)			
Weight	0.6kg			
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)			

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

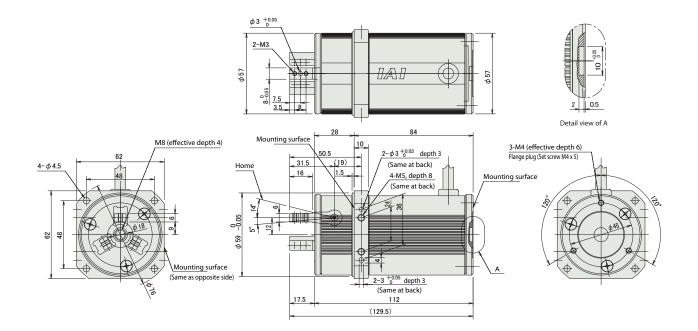
Information on special orders

P. 454





- * During home return, the fingers return along a line expanding outward by 1° from the home. Pay attention to prevent contact between the fingers and surrounding parts.
- * See P374 for motor–encoder cable details.



Weight (kg) 0.6

Title	External View	Model	Features	Max. positioning points	Input power	Power-supply capacity	Standard price	See page
Positioner type		PCON-C-28PI-NP-2-0	Up to 512-point	l I			-	
Safety category compatible positioner type		PCON-CG-28PI-NP-2-0	positioning possible	512 points			-	
Solenoid valve type		PCON-CY-28PI-NP-2-0	Same as solenoid valve controlled operation enabled	3 points			-	→P365
Pulse series input type (differential line driver specification)	ő	PCON-PL-28PI-NP-2-0	Differential line driver compatible pulse series input type		DC24V	Marrian OA	-	→P305
Pulse series input type (open collector specification)		PCON-PO-28PI-NP-2-0	Open collector compatible pulse series input type	(-)	DC24V	Maximum 2A	-	
Serial communication type		PCON-SE-28PI-NP-0-0	Serial communications special type	64 points			-	
Field network type		RPCON-28P	Field network dedicated type	768 points			-	→P343
Program control type		PSEL-C-1-28PI-NP-2-0	Programmable type capable of operating up to 2 axes	1500 points			-	→P395

IAI

RCP2-GR3LS **248**

Typo

Arm/Fla

Gripper/
Rotary Type

Spl

Contro

Coupling

Revers

Pulse Motor 20 P

28_P

35 P Pulse Motor

42 P Pulse Motor

56 P

86 P

10w

Servo Motor

Servo Motor

30 w Servo Motor

> Servo Motor 100 w

Servo Motor 150 w

Servo Motor 750 w

www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

ROBO Cylinder, 3-Finger Gripper, Lever Type, Actuator Width 80mm, Pulse



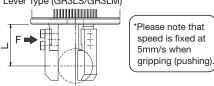


Technical Reference P. 451



- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.
- (2) The maximum gripping force is the sum of gripping forces of all fingers when the gripping point distance is 10 and overhang distance is 0. Refer to the explanation on the right when determining the weight of a work part that can be physically transferred.
- (3) The rated acceleration during movement is 0.3G.

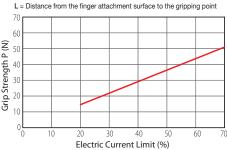
■Grip Force vs. Current-limitating Graph Lever Type (GR3LS/GR3LM)



*The values in the graph below are the grip strength at a gripping point 10mm from the base. The actual gripping force decreases in inverse proportion to the distance from the opening/closing fulcrum.

Calculate the actual gripping force using the formulas below: Effective gripping force (S type) = $P \times 24/(L + 14)$ Effective gripping force (M type) = $P \times 28.5/(L + 18.5)$

P = Gripping force determined from the graph



Actuator Specification Table

Legend: 1 Cable length 2 Option

■Leads and Payloads

= Ecuac and Fayloudo			
Model	Gear Ratio (mm)	Max. gripping force (N)	Stroke (degrees)
RCP2-GR3LM-I-42P-30-19-P1-①-②	30	51	19

■Stroke and Max. Opening/Closing Speed

	maxi o poi iii gi o ioo iii g o poo u
Stroke Deceleration ratio	19 (degrees)
30	200

(Unit = mm/s)

Price List by	Stroke
	Type code
Stroke (mm)	GR3LM
	Encoder type
	Incremental
40	

① Cable Length Price List

Туре	Cab	Standard price		
	P (1m)		-	
Standard type	S (3m)			-
	M (5m)			-
	X06 (6m)	to	X10 (10m)	-
Special length	X11 (11m)	to	X15 (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-
	R11 (11m)	to	R15 (15m)	-
	R16 (16m)	to	R20 (20m)	-

*See P374 for maintenance cables.

② Option Price List Option code See page Standard price Shaft bracket Flange bracket →P437

Actuator Specification				
Item	Description			
Drive System	Worm gear + Worm wheel gear			
Positioning Repeatability	±0.01 degrees			
Backlash	1° or less per side (fingers always pressured to open side via spring)			
Weight	1.1kg			
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)			

www.intelligentactuator.com

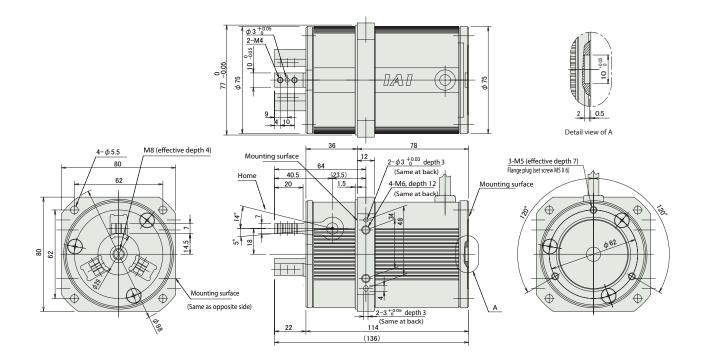
Information on special orders

译 P. 454





- * During home return, the fingers return along a line expanding outward by 1° from the home. Pay attention to prevent contact between the fingers and surrounding parts.
 * See P374 for motor–encoder cable details.



Weight (kg) 1.1

Title	External View	Model	Features	Max. positioning points	Input power	Power-supply capacity	Standard price	See page
Positioner type	E	PCON-C-42PI-NP-2-0	Up to 512-point				-	
Safety category compatible positioner type		PCON-CG-42PI-NP-2-0	positioning possible	512 points			-	
Solenoid valve type		PCON-CY-42PI-NP-2-0	Same as solenoid valve controlled operation enabled	3 points			-	, D005
Pulse series input type (differential line driver specification)	_	PCON-PL-42PI-NP-2-0	Differential line driver compatible pulse series input type		D004V		-	→P365
Pulse series input type (open collector specification)		PCON-PO-42PI-NP-2-0	Open collector compatible pulse series input type	(-)	DC24V	Maximum 2A	-	
Serial communication type		PCON-SE-42PI-NP-0-0	Serial communications special type	64 points			-	
Field network type		RPCON-42P	Field network dedicated type	768 points			-	→P343
Program control type		PSEL-C-1-42PI-NP-2-0	Programmable type capable of operating up to 2 axes	1500 points			-	→P395

IAI

RCP2-GR3LM **250**

v.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru P2-GR3SS

ROBO Cylinder, 3-Finger Gripper, Slider Type, Actuator Width 62mm, Pulse



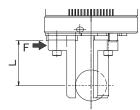


Technical Reference



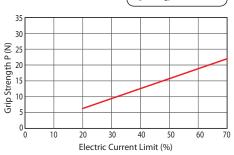
- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.
- (2) The maximum gripping force is the sum of gripping forces of all fingers when the gripping point distance is 10 and overhang distance is 0. Refer to the explanation on the right when determining the weight of a work part that can be physically transferred.
- (3) The rated acceleration during movement is 0.3G.

■Grip Force vs. Current-limitating Graph Slider type (GR3SS/GR3SM)



* Keep the distance (L) from the finger attachment surface to the gripping point to the following dimensions or less.

GR3SS→50mm or less GR3SM→80mm or less *The speed is fixed at 5mm/s when gripping (pushing).



Actuator Specification Table

Legend: 1 Cable length 2 Option

■Leads and Pavloads

= Ecuac and Fayloudo			
Model	Gear Ratio (mm)	Max. gripping force (N)	Stroke (mm)
RCP2-GR3SS-I-28P-30-10-P1-①-②	30	22	10

■Stroke and Max. Opening/Closing Speed

	maxi o poi iii gi o ioo iii g o poo u
Stroke Deceleration ratio	10 (mm)
30	40

(Unit = mm/s)

Price List by Stroke			
	Type code		
Stroke	GR3SS		
(mm)	Encoder type		
	Incremental		
10	-		

① Cable Length Price List

Туре	Cable symbol			Standard price
	P (1m)			-
Standard type	S (3m)			-
	M (5m)			-
	X06 (6m)	to	X10 (10m)	-
Special length	X11 (11m)	to	X15 (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-
	R11 (11m)	to	R15 (15m)	-
	R16 (16m)	to	R20 (20m)	-

*See P374 for maintenance cables.

② Option Price List Option code See page Standard price Shaft bracket Flange bracket →P437

Actuator Specification				
Item	Description			
Drive System	Worm gear + Worm wheel gear			
Positioning Repeatability	±0.01mm			
Backlash	0.3mm or less per side (fingers always pressured to open side via spring)			
Guide	Close roller guide			
Allowable load moment	Ma: 3.8N·m, Mb: 3.8N·m, Mc: 3.0N·m			
Weight	0.6kg			
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)			

CAD drawings can be downloaded www.intelligentactuator.com

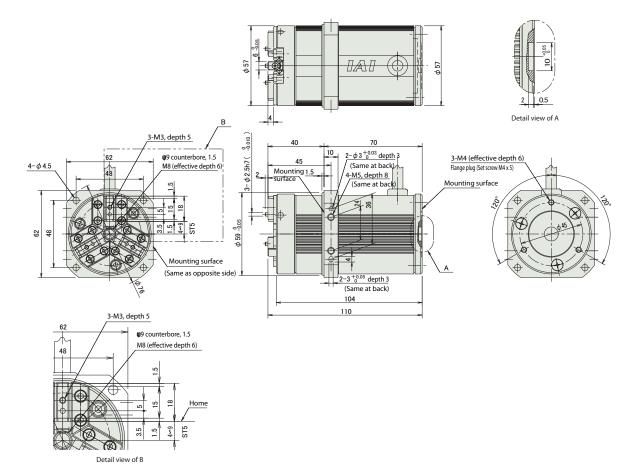
Information on special orders







- * During home return, the fingers return along a line expanding outward by 0.5 mm from the home. Pay attention to prevent contact between the fingers and surrounding parts.
- * See P374 for motor–encoder cable details.



Weight (kg) 0.6

Title	External View	Model	Features	Max. positioning points	Input power	Power-supply capacity	Standard price	See page
Positioner type	External view	PCON-C-28PI-NP-2-0	Up to 512-point		mpat power	т омет-зарру сараску	-	Occ page
Safety category compatible positioner type		PCON-CG-28PI-NP-2-0	positioning possible	512 points	512 points		-	
Solenoid valve type		PCON-CY-28PI-NP-2-0	Same as solenoid valve controlled operation enabled	3 points			-	→P365
Pulse series input type (differential line driver specification)	ő	PCON-PL-28PI-NP-2-0	Differential line driver compatible pulse series input type		DC24V	Maximum 2A	-	→P305
Pulse series input type (open collector specification)		PCON-PO-28PI-NP-2-0	Open collector compatible pulse series input type	(-)	DG24V	Maximum 2A	-	
Serial communication type		PCON-SE-28PI-NP-0-0	Serial communications special type	64 points			-	
Field network type		RPCON-28P	Field network dedicated type	768 points			-	→P343
Program control type		PSEL-C-1-28PI-NP-2-0	Programmable type capable of operating up to 2 axes	1500 points			-	→P395

RCP2-GR3SS 252

₹ ₽

Table Arm/Fl

Gripper/
Rotary Type

nroom res

ontroller

ing Built

Reversemounted

Pulse Motor 20 P

28_P

35 P Pulse Motor

Pulse Motor

Pulse Motor

86 P Servo Motor

10w

Servo Motor 20 w

Servo Motor

Servo Motor

Servo Motor

Servo Motor 150 w

750 w

ww.actuator.ru тел.:(49<u>5) 662-87-56, e-mail: iai@actuator.ru</u>

ROBO Cylinder, 3-Finger Gripper, Slider Type, Actuator Width 80mm, Pulse

■Model Description RCP2 - GR3SM -**42P** 30 Compatible Controllers

Cable length 14: 14mm (7mm on one side) P1: PCON specification 42 Size 1/30 **PSEL** : 1m FB: Flange bracket : 3m : 5m X□□: Length
R□□: Robot cable

See preceding section for model descriptions

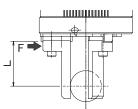


Technical Reference



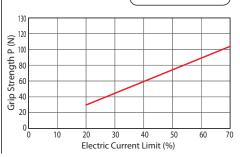
- (1) The maximum opening/closing speed indicates the operating speed on one side. The relative operating speed is twice this value.
- (2) The maximum gripping force is the sum of gripping forces of all fingers when the gripping point distance is 10 and overhang distance is 0. Refer to the explanation on the right when determining the weight of a work part that can be physically transferred.
- (3) The rated acceleration during movement is 0.3G.

■Grip Force vs. Current-limitating Graph Slider type (GR3SS/GR3SM)



* Keep the distance (L) from the finger attachment surface to the gripping point to the following dimensions or less.

GR3SS→50mm or less GR3SM→80mm or less *The speed is fixed at 5mm/s when gripping (pushing).



Actuator Specification Table

Legend: 1 Cable length 2 Option

■Leads and Payloads

Model	Gear Ratio (mm)	Max. gripping force (N)	Stroke (mm)
RCP2-G3SM-I-42P-30-14-P1-①-②	30	102	14

■Stroke and Max. Opening/Closing Speed

	maxi e perimig, ereemig e peea
Stroke Deceleration ratio	14 (mm)
30	50

(Unit = mm/s)

Type code **GR3SM** Stroke (mm) Encoder type Incremental 14

① Cable Length Price List

Type	Cab	Standard price		
	P (1m)			-
Standard type	S (3m)			-
	M (5m)			-
	X06 (6m)	to	X10 (10m)	-
Special length	X11 (11m)	to	X15 (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-
	R11 (11m)	to	R15 (15m)	-
	R16 (16m)	to	R20 (20m)	-

*See P374 for maintenance cables.

② Option Price List Option code See page Standard price Shaft bracket Flange bracket →P437

Actuator Specification			
Item	Description		
Drive System	Worm gear + Worm wheel gear		
Positioning Repeatability	±0.01mm		
Backlash	0.3mm or less per side (fingers always pressured to open side via spring)		
Guide	Close roller guide		
Allowable load moment	Ma: 6.3N·m, Mb: 6.3N·m, Mc: 5.7N·m		
Weight	1.2kg		
Ambient operating temperature humidity	0 to 40°C 85% BH or less (non-condensing)		

CAD drawings can be downloaded www.intelligentactuator.com

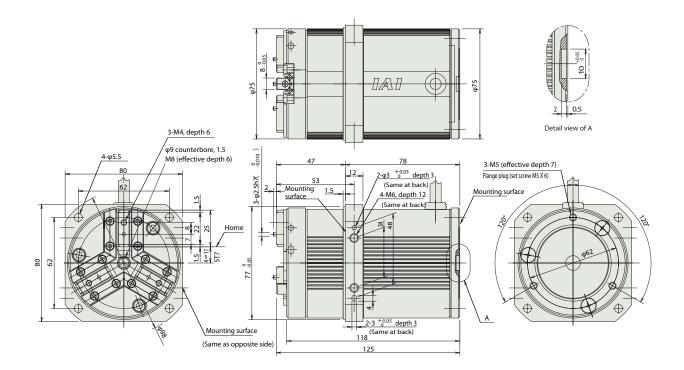
Information on special orders

P. 454





- * During home return, the fingers return along a line expanding outward by 0.5 mm from the home. Pay attention to prevent contact between the fingers and surrounding parts.
- * See P374 for motor–encoder cable details.



Weight (kg) 1.2

Compatible Controllers The RCP2 series actuators can be operated with the following controllers. Select the type that is compatible with your application. PCON-C-42PI-NP-2-0 Positioner type Up to 512-point positioning 512 points Safety category possible PCON-CG-42PI-NP-2-0 compatible positioner type Same as solenoid Solenoid valve PCON-CY-42PI-NP-2-0 valve controlled 3 points type operation enabled →P365 Pulse series input type (differential line Differential line driver compatible PCON-PL-42PI-NP-2-0 pulse series input type driver specification) DC24V Maximum 2A (-)Pulse series input Open collector compatible pulse series input type type (open collector specification) PCON-PO-42PI-NP-2-0 Serial Serial PCON-SE-42PI-NP-0-0 communications 64 points communication type special type Field network Field network RPCON-42P 768 points →P343 dedicated type type Programmable type capable of operating up to 2 axes Program PSEL-C-1-42PI-NP-2-0 1500 points →P395 control type

IAI

RCP2-GR3SM **254**

Rod Type

lable Arm/Flat

> Gripper/ Rotary Type

> > Splash

ontroller

ing Built

Reversemounted

20 P

Pulse Motor

Pulse Motor

Pulse Motor

86 P

10w

Servo Motor 20 w

Servo Motor

Servo Moto

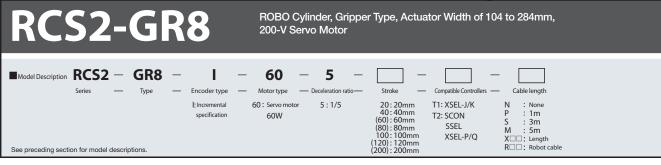
Servo Motor 100 w

Servo Motor

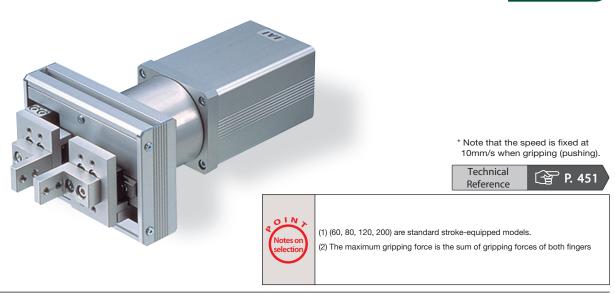
Servo Motor

Servo Motor

RCS2 www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru



Power saving



Actuator Specification Table					
■Leads and Payloads					
Model	Motor output (W)	Deceleration ratio	Max. gripping force (N)	Stroke (mm)	
RCS2-GR8-I-60-5-①-②-③	60	1/5	45.1	20, 40, (60), (80), 100, (120), (200)	
Legend: 1 Stroke 2 Cable length 3 Option					

Price List by 1 Stroke

	Type code
① Stroke (mm)	GR8
	Encoder type
(111111)	Incremental
	I
20	-
40	-
(60)	-
(80)	-
100	-
(120)	-
(200)	-

② Cable Length Price List

Туре	② C	Standard price		
	P (1m)			-
Standard type	S (3m)			-
	M (5m)			-
	X06 (6m)	to	X10 (10m)	-
Special length	X11 (11m)	to	X15 (15m)	-
	X16 (16m)	to	X20 (20m)	-
	R01 (1m)	to	R03 (3m)	-
	R04 (4m)	to	R05 (5m)	-
Robot cable	R06 (6m)	to	R10 (10m)	-
	R11 (11m)	to	R15 (15m)	-
	R16 (16m)	to	R20 (20m)	-

^{*}See P374 about maintenance cables.

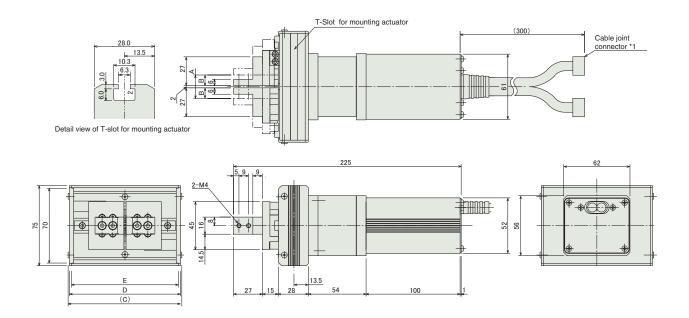
Actuator Specification

Item	Description
Drive System	Rack & pinion
Positioning Repeatability	±0.04mm
Backlash	0.7mm or less
Base	Material: aluminum white alumite treated
Allowable load moment	Ma: 5.1N·m, Mb: 5.1N·m, Mc: 10.4N·m
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)





* The slider home is located on the open side



*1 Connect the motor cable, motor-encoder cable. See p.334 for cable details

■Dimensions and Weight by Stroke

Stroke	20	40	(60)	(80)	100	(120)	(200)
Α	22	42	62	82	102	122	202
В	10	20	30	40	50	60	100
С	106.4	126.4	146.4	166.4	186.4	206.4	286.4
D	104	124	144	164	184	204	284
Е	100	120	140	160	180	200	280
Weight (kg)	1.8	1.9	1.9	2.0	2.0	2.1	2.3
4.4 700							

*1 The stroke inside the () is the shipped value for reference settings.

Compatible Controllers

Title	External View	Model	Features	Max. positioning points	Input power	Power-supply capacity	Standard price	See page				
Positioner type			Up to 512-point positioning possible	512 points								
Solenoid valve type		SCON-C-60①-NP-2-②	Same as solenoid valve controlled operation enabled	7 points	Single-phase AC 100V	Maximum 360VA * 1-axis specification operated at 150W	360VA * 1-axis specification operated at					→P385
Serial communication type		SCON-C-00U-INF-2-W	Serial communications special Type	64 points	Single-phase AC 200V			-	7500			
Pulse train input control type			Pulse train input type special type	(-)	Three-phase AC 200V							
Program control 1-2 axis type		SSEL-C-1-60①-NP-2-②	Programmable type capable of operating up to 2 axes	1500 points	(XSEL-P/Q only)	only)		-	→P415			
Program control 1 to 6-axis type	Pilled	XSEL-③-1-60①-N1-EEE-2-④	Programmed operation enabled, 1-6 axis type	4000 points			Inquiries	→P425				

*SSEL, XSEL are for 1-axis specification.

*① indicates the encoder type (I: Incremental, A: Absolute).

*② indicates the power-supply voltage type (1: 100V, 2: Single-phase 200V).

*③ indicates the XSEL type (J/K/P/Q).

*④ indicates the power-supply voltage type (1: 100V, 2: Single-phase 200V, 3: Three-phase 200V).

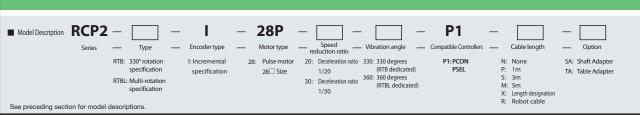
IAI

RCS2-GR8 256

60w

www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

ROBO Cylinder, Verticle Rotary Type, Actuator Width 50mm, **Pulse Motor**





■Speed vs. Payload Graph

(1) Output torque decreases as rotational speed increases. Use the output torque graph at the right to determine if the required operating speed can be acheived (2) The allowable intertial moment of a rotatable work varies depending on the rotating speed.

-Output torque-Ontbut torque (N·m) 2.5 1.5 1 Gear ratio 1/30 Gear ratio 1/20 100 200 600 700 Rotating speed (deg/sec) 35 Allowable inertial moment 30 moment (x10⁻³kg·m²) 10 10 10 10 10 Allowable inertial Gear ratio 1/30 Gear ratio 1/20 100 200

A characteristic of the RCP2 Series pulse motor is that the payload decreases as the speed increases. Use the table below to confirm that there is sufficient speed at the desired payload.

Actuator Specification Table

Leads and Payloads

Model	Speed reduction ratio	Maximum torque (N·m)	Allowable inertial moment (kg·㎡)	oscillation angle (degrees)
RCP2-RTB-I-28P-20-330-P1-① - ②	1/20	1.1	0.01	000
RCP2-RTB-I-28P-30-330-P1-① - ②	1/30	1.7	0.015	330
RCP2-RTBL-I-28P-20-360-P1-① - ②	1/20	1.1	0.01	360
RCP2-RTBL-I-28P-30-360-P1-①-②	1/30	1.7	0.015	300

■ Deceleration Ratio and Maximum Speed

Rotating speed (deg/sec)

Oscillation Speed Angle reduction ratio	
1/20	600
1/30	400
	(Unit: degrees)

Legend: ① Cable length ② Options

Price List by Stroke

	Type code			
Vibration angle	RTB RTBL			
(degrees)	Encoder type			
	Incremental			
330				

(3) The rated acceleration during movement is 0.3G.

① Cable Length Price List

Туре	Cab	Standard price	
	P (1m)		_
Standard type	S (3m)		_
	M (5m)		_
	X06 (6m)	to X10 (10m)	_
Special length	X11 (11m)	to X15 (15m)	_
	X16 (16m)	to X20 (20m)	_
	R01 (1m)	to R03 (3m)	_
	R04 (4m)	to R05 (5m)	_
Robot cable	R06 (6m)	to R10 (10m)	_
	R11 (11m)	to R15 (15m)	_
	R16 (16m)	to R20 (20m)	_

*Please see P374 for information on the maintenance cable.

2 Option Price List Title Option code See page Standard price Reversed specification(*) Shaft adapter SA P444

Table adapter	TA	P445	_
*Only multiple rotation specific	cations can be selec	ted for reverse rotal	tion specifications

<u> </u>	
Item	Description
Drive method	Hypoid gear
Positioning Repeatability	±0.01 degrees
Return Home Precision	Within ±0.01 degree (RTB)/Within ±0.05 degree (RTBL)
Backlash	±0.1 degrees
Allowable thrust load	50N
Allowable load moment	3.9N•m
Weight	0.86kg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)

Actuator Specification

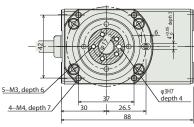
www.intelligentactuator.com

Technical Reference

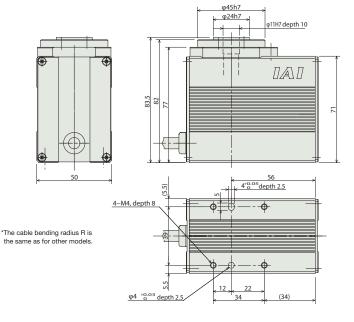


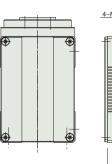


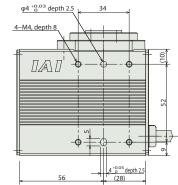
*The diagonal lines in the area to the right show the rotating areas.



The position shown to the left becomes the home position. During home return, the actuator rotates to a position 1° counterclockwise from the current position. Pay attention to prevent contact between the actuator and surrounding parts. The operating range covers up to the 330° position in clockwise rotation as viewed from the top.







Weight (kg) 0.86

Compatible Controllers

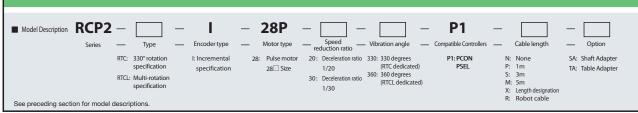
The RCP2 Series actuators can be operated with the following controllers. Select the type that is compatible with your application.

Title	External View	Model	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	See page		
Positioner type		PCON-C-28PI-NP-2-0	Up to 512-point	510 i-t-			_			
Safety category compatible Positioner type		PCON-CG-28PI-NP-2-0	positioning possible	512 points			-			
Solenoid valve type		PCON-CY-28PI-NP-2-0	Same as solenoid valve Controlled operation enabled	3 points			_	P365		
Pulse series input type (Differential line driver specification)	á	PCON-PL-28PI-NP-2-0	Differential line driver compatible Pulse series input type	()	DC24V		Maximum 2A		P303	
Pulse series input type (Open collector specification)		PCON-PO-28PI-NP-2-0	Open collector compatible Pulse series input type	(-)	DO24V	Maximum 2A	-			
Serial communication type		PCON-SE-28PI-NP-0-0	Serial communications Special type	64 points			_			
Field network type		RPCON-28P	Field network Dedicated type	768 points					-	P343
Program control type		PSEL-C-1-28PI-NP-2-0	Programmable type capable of operating up to 2 axes	1500 points			_	P395		

 $\mathsf{RCP2-RTB}\,258$

www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

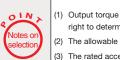
ROBO Cylinder, Flat Rotary Type, Actuator Width 88mm, **Pulse Motor**







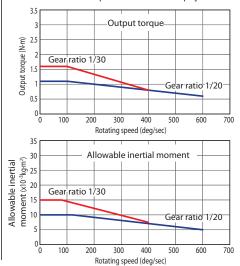
Actuator Specification



- (1) Output torque decreases as rotational speed increases. Use the output torque graph at the right to determine if the required operating speed can be acheived.
- (2) The allowable intertial moment of a rotatable work varies depending on the rotating speed.
- (3) The rated acceleration during movement is 0.3G.

■Speed vs. Payload Graph

A characteristic of the RCP2 Series pulse motor is that the payload decreases as the speed increases. Use the table below to confirm that there is sufficient speed at the desired payload.



Actuator Specification Table

Leads and Payloads

Model	Speed reduction ratio	Maximum torque (N·m)	Allowable inertial moment (kg·m)	oscillation angle (degrees)
RCP2-RTC-I-28P-20-330-P1-① -②	1/20	1.1	0.01	000
RCP2-RTC-I-28P-30-330-P1-①-②	1/30	1.7	0.015	330
RCP2-RTCL-I-28P-20-360-P1-① -②	1/20	1.1	0.01	360
RCP2-RTCL-I-28P-30-360-P1-①-②	1/30	1.7	0.015	300

■ Deceleration Ratio and Maximum Speed

Oscillation Speed Angle reduction ratio	
1/20	600
1/30	400

(Unit: degrees)

Legend: ① Cable length ② Options

Price List by Stroke

	Type code				
Vibration angle	RTC RTCL				
(degrees)	Encoder type				
	Incremental				
330					

① Cable Length Price List

Туре	Cab	Standard price	
	P (1m)		_
Standard type	S (3m)		_
	M (5m)		_
	X06 (6m)	to X10 (10m)	_
Special length	X11 (11m)	to X15 (15m)	_
	X16 (16m)	to X20 (20m)	_
	R01 (1m)	to R03 (3m)	_
	R04 (4m)	to R05 (5m)	_
Robot cable	R06 (6m)	to R10 (10m)	_
	R11 (11m)	to R15 (15m)	_
	R16 (16m)	to R20 (20m)	_

*Please see P374 for information on the maintenance cable.

2 Option Price List

Title	Option code	See page	Standard price
Reversed specification(*)	NM	P258	_
Shaft adapter	SA	P444	_
Table adapter	TA	P445	_

^{*}Only multiple rotation specifications can be selected for reverse rotation specifications.

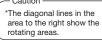
Item	Description
Drive method	Hypoid gear
Positioning Repeatability	±0.01 degrees
Return Home Precision	Within ±0.01 degree (RTC)/Within ±0.05 degree (RTCL)
Backlash	±0.1 degrees
Allowable thrust load	50N
Allowable load moment	3.9N•m
Weight	0.92kg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)

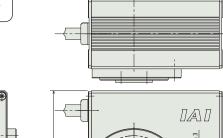


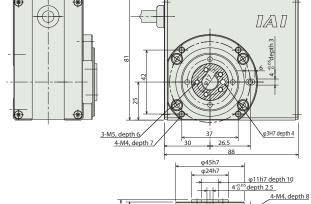


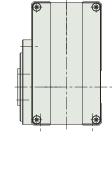


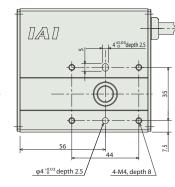












Technical

Reference

P. 451

The position shown to the left becomes the home position. During home return, the actuator rotates to a position 1° counterclockwise from the current position. Pay attention to prevent contact between the actuator and surrounding parts. The operating range covers up to the 330° position in clockwise rotation as viewed from the top.

Caution 56 Hollow φ10 through-holes φ15.4 depth 2.5

Weight (kg) 0.92

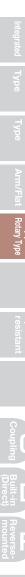
Compatible Controllers

*The cable bending radius R is

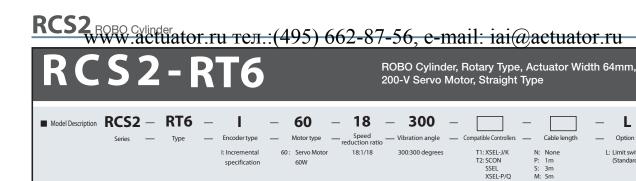
the same as for other models.

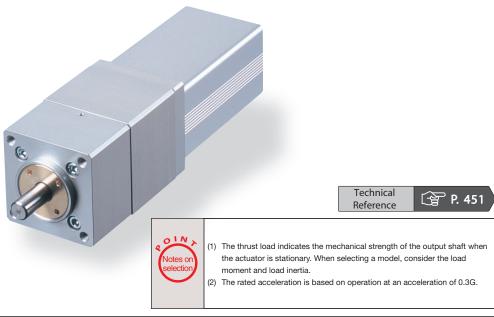
The RCP2 Series actuators can be operated with the following controllers. Select the type that is compatible with your application.

Title	External View	Model	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	See page												
Positioner type		PCON-C-28PI-NP-2-0	Up to 512-point	510 i-t-			_													
Safety category compatible Positioner type		PCON-CG-28PI-NP-2-0	positioning possible	512 points			_													
Solenoid valve type		PCON-CY-28PI-NP-2-0	Same as solenoid valve Controlled operation enabled	3 points			_	P365												
Pulse series input type (Differential line driver specification)	61	Ó	ő	ΘÎ	ő	Ó	ő	ő	ő	ő	ő	Ó	ũ	PCON-PL-28PI-NP-2-0	Differential line driver compatible Pulse series input type	()	DC24V	Maximum 2A		F303
Pulse series input type (Open collector specification)		PCON-PO-28PI-NP-2-0	Open collector compatible Pulse series input type	(-)	DG24V	Maximum 2A	_													
Serial communication type		PCON-SE-28PI-NP-0-0	Serial communications Special type	64 points			_													
Field network type		RPCON-28P	Field network Dedicated type	768 points			_	P343												
Program control type		PSEL-C-1-28PI-NP-2-0	Programmable type capable of operating up to 2 axes	1500 points			_	P395												



See preceding section for model descriptions.





Actuator Specification Tab ■Stroke and Maximum Speed Leads and Payloads Speed Allowable inertial moment (kg·m) oscillation angle (degrees) Speed reduction Rated Motor reduction ratio Model orque (N•r RCS2-RT6-I-60-18-300-10-20-L 1/18 300 1/18 500 2.4 2.5×10⁻²or less Legend: ① Applicable controller ② Cable length (Unit: degrees)

Pricing List By Stroke						
	Type code					
Vibration	RT6					
angle	Encoder type					
(degrees)	Incremental					
	I					
300	_					

2 Cable Length Price List						
Туре	Cab	Standard price				
	P (1m)		_			
Standard type	S (3m)		_			
	M (5m)	_				
	X06 (6m)	to X10 (10m)	_			
Special length	X11 (11m)	to X15 (15m)	_			
	X16 (16m)	to X20 (20m)	_			
	R01 (1m)	to R03 (3m)	_			
	R04 (4m)	to R05 (5m)	_			
Robot cable	R06 (6m)	to R10 (10m)	_			
	R11 (11m)	to R15 (15m)	_			
	R16 (16m)	to R20 (20m)	_			
*DI D00.4						

L

L: Limit switch

X: Length designation R: Robot cable

(Standard equipment)

^{*}Please see P394 for information on the maintenance cable.

Actuator Specification						
Description						
Ball speed reducer						
±0.02 degrees						
0.1 degrees or less						
Material Aluminum White alumite treated						
6.8N⋅m or less						
100N or higher						
0 to 40°C, 85% RH or less (non-condensing)						

www.intelligentactuator.com

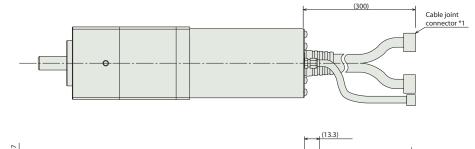
Information on special orders

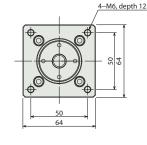


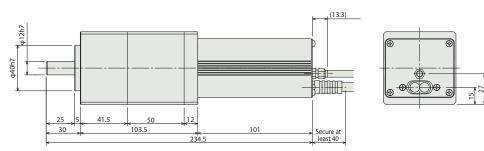




*See P507 for more on home return.







*1 Connect motor cable, encoder cable, limit switch cable See P394 for details on cables.

Weight (kg) 1.9

Compatible Controllers

The RCS2 Series actuators can be operated with the following controllers. Select the type that is compatible with your application.								
Title	External View	Model	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	See page
Positioner mode			Up to 512-point positioning possible	512 points				
Solenoid valve mode		SCON-C-60①-NP-2-②	Same as solenoid valve Controlled operation enabled	7 points	Single-phase AC 100V			P385
Serial communication type		SCON-C-00U-INF-2-W	Serial communications Special type	64 points	Single-phase AC	Maximum 360VA	_	P303
Pulse train input control type			Pulse train input control type Special type	(-)	200V Three-phase AC	*1-axis specification for 150W		
Program control, 1 to 2 axis type		SSEL-C-1-60①-NP-2-②	Programmable type capable of operating up to 2 axes	20000 points	200V (XSEL-P/Q only)	operation	_	P415
Program control, 1 to 6 axis type		XSEL-③-1-60①-N1-EEE-2-④	Programmable type capable of operating up to 6 axes	4000 points			-	P425

*The SSEL and XSEL models are based on a 1-axis specification.

 $^{\star}\mbox{\Large\ensuremath{\textcircled{\Large }}}$ For entering the encoder type (I: incremental/A: absolute).

*(2) Indicates the power-supply voltage type (1: 100V, 2: Single-phase 200V).
*(3) Indicates the XSEL type (J/K/P/Q).

*4 Indicates the power-supply voltage type (1: 100V, 2: Single-phase 200V, 3: Three-phase 200V).

RCS2-RT6 262

60 w



RCS2 ROBO Cylinder www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

RCS2-RT6R

ROBO Cylinder, Rotary Type, Actuator Width 64mm, 200-V Servo Motor, Reversing Type





Technical Reference **全** P. 451

- (1) The thrust load indicates the mechanical strength of the output shaft when the actuator is stationary. When selecting a model, consider the load moment and load inertia.
- (2) The rated acceleration is based on operation at an acceleration of 0.3G.

Actuator Specification Table

■I eads and Payloads

Leads and Layloads								
Model	Motor output (W)	Speed reduction ratio	Rated torque (N·m)	Allowable illertial	oscillation angle (degrees)			
RCS2-RT6R-I-60-18-300-10-2-L	60	1/18	2.4	2.5×10 ⁻² or less	300			

■Stroke and Maximum Speed

Oscillation Speed angle reduction ratio	300 (degrees)
1/18	500

Legend: 1 Applicable controller 2 Cable length

(Unit: degrees)

Pricing List By Stroke

	Type code
Vibration	RT6R
angle	Encoder type
(degrees)	Incremental
	I
300	_

2 Cable Length Price List

Туре	Cab	Standard price	
	P (1m)		_
Standard type	S (3m)		_
	M (5m)	_	
	X06 (6m)	to X10 (10m)	_
Special length	X11 (11m)	to X15 (15m)	_
	X16 (16m)	to X20 (20m)	_
	R01 (1m)	to R03 (3m)	_
	R04 (4m)	to R05 (5m)	_
Robot cable	R06 (6m)	to R10 (10m)	_
	R11 (11m)	to R15 (15m)	_
	R16 (16m)	to R20 (20m)	_

^{*}Please see P394 for information on the maintenance cable.

Actuator Specification

Item	Description
Drive System	Ball deceleration device + timing belt
Positioning Repeatability	±0.02 degrees
Backlash	0.1 degrees or less
Base	Material Aluminum White alumite treated
Allowable load moment	6.8N⋅m or less
Thrust load	100N or higher
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)

www.intelligentactuator.com

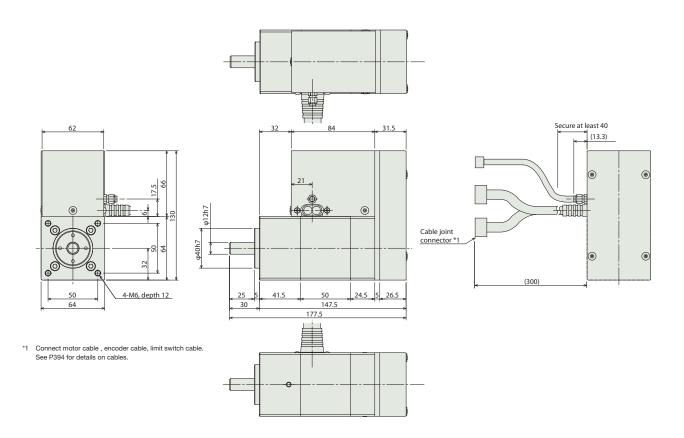
Information on special orders

② P. 454





*See P507 for more on home return.



Weight (kg) 2.8

Compatible Controllers

Title	External View	Model	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	See page
Positioner mode			Up to 512-point positioning possible	512 points		AC 100V Single-phase AC Maximum 360VA		
Solenoid valve mode		SCON-C-60①-NP-2-②	Same as solenoid valve Controlled operation enabled	7 points	100V Single-phase AC		-	P385
Serial communication type			Serial communications Special type	64 points				
Pulse train input control type			Pulse train input control type Special type	(-)	200V Three-phase AC	*1-axis specification for 150W		
Program control, to 2 axis type		SSEL-C-1-60①-NP-2-②	Programmable type capable of operating up to 2 axes	20000 points	200V (XSEL-P/Q only)	operation	_	P415
Program control, I to 6 axis type		XSEL-3-1-601-N1-EEE-2-4	Programmable type capable of operating up to 6 axes	4000 points			_	P425

*The SSEL and XSEL models are based on a 1-axis specification.

 $^{\star}\mbox{\Large\ensuremath{\textcircled{\Large }}}$ For entering the encoder type (I: incremental/A: absolute).

*(2) Indicates the power-supply voltage type (1: 100V, 2: Single-phase 200V).
*(3) Indicates the XSEL type (J/K/P/Q).

*4 Indicates the power-supply voltage type (1: 100V, 2: Single-phase 200V, 3: Three-phase 200V).

IAI

RCS2-RT6R 264



er- Slider
d Type

Type

lable Arm/Flat

Rotary Type

m Splashresistar

Couplii

Built-in Direct)



Pulse Motor
20 P
Pulse Motor

ZÖPPulse Motor

42 P

56_P

Servo Motor

Servo Motor

20w

30 w

60 w Servo Motor

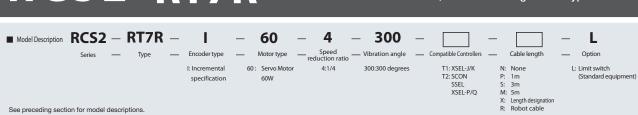
Servo Motor

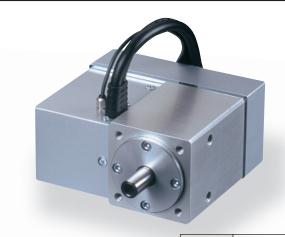
Servo Motor

RCS2 ROBO Cylinder www.actuator.ru тел.:(495) 662-87-56, e-mail: iai@actuator.ru

RCS2-RT7R

ROBO Cylinder, Rotary Type, Actuator Width 68mm, 200-V Servo Motor, Motor Reversing Hollow Type





Technical Reference





- (1) The thrust load indicates the mechanical strength of the output shaft when the actuator is stationary. When selecting a model, consider the load moment and load inertia.
- (2) The rated acceleration is based on operation at an acceleration of 0.3G.

Actuator Specification Table

Leads and Payloads

Model	Motor output (W)	Speed reduction ratio	Rated torque (N·m)	Allowable lifertial	oscillation angle (degrees)
RCS2-RT7R-I-60-4-300-①-②-L	60	1/4	0.764	1.25×10 ⁻³ or less	300

■Stroke and Maximum Speed

Oscillation Speed angle reduction ratio	300 (degrees)
1/4	500

Legend: ① Applicable controller ② Cable length

(Unit: degrees)

Pricing List By Stroke

	Type code
Vibration	RT7R
angle	Encoder type
angle (degrees)	Incremental
	I
300	_

2 Cable Length Price List

Туре	Cab	Standard price			
	P (1m)		_		
Standard type	S (3m)		_		
	M (5m)		_		
	X06 (6m)	to X10 (10m)	_		
Special length	X11 (11m)	to X15 (15m)	_		
	X16 (16m)	to X20 (20m)	_		
	R01 (1m)	to R03 (3m)	_		
	R04 (4m)	to R05 (5m)	_		
Robot cable	R06 (6m)	to R10 (10m)	_		
	R11 (11m)	to R15 (15m)	_		
	R16 (16m)	to R20 (20m)	_		

^{*}Please see P394 for information on the maintenance cable.

Actuator Specification

Item	Description
Drive System	Timing belt
Positioning Repeatability	±0.1 degrees
Backlash	0.1 degrees or less
Base	Material Aluminum White alumite treated
Allowable load moment	8.9N ⋅m or less
Thrust load	100N or higher
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (non-condensing)

www.intelligentactuator.com

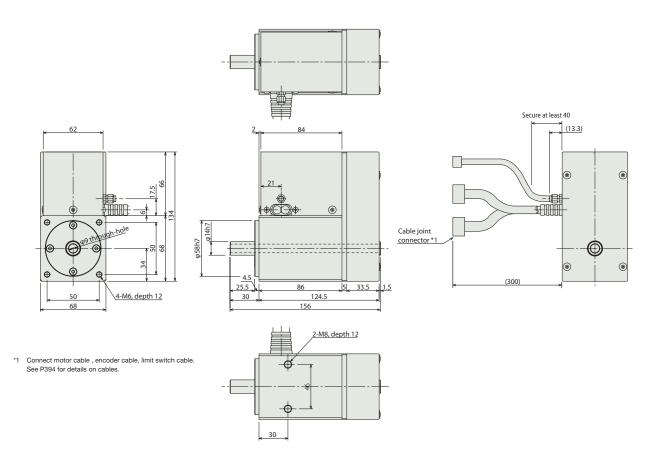
Information on special orders

P. 454





*See P507 for more on home return.



Weight (kg) 2.6

Compatible Controllers

The RCS2 Series actuators can be operated with the following controllers. Select the type that is compatible with your application.									
Title	External View	Model	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	See page	
Positioner mode				Up to 512-point positioning possible	512 points				
Solenoid valve mode		SCON-C-60①-NP-2-②	Same as solenoid valve Controlled operation enabled	7 points	Single-phase AC 100V Single-phase AC 360VA			Door	
Serial communication type			Serial communications Special type	64 points		_	P385		
Pulse train input control type			Pulse train input control type Special type	(-)	200V Three-phase AC	*1-axis specification for 150W			
Program control, 1 to 2 axis type		SSEL-C-1-60①-NP-2-②	Programmable type capable of operating up to 2 axes	20000 points	200V (XSEL-P/Q only)	operation	_	P415	
Program control, 1 to 6 axis type		XSEL-③-1-60①-N1-EEE-2-④	Programmable type capable of operating up to 6 axes	4000 points			-	P425	

*The SSEL and XSEL models are based on a 1-axis specification.

 $^{\star}\mbox{\Large\ensuremath{\textcircled{\Large }}}$ For entering the encoder type (I: incremental/A: absolute).

*(2) Indicates the power-supply voltage type (1: 100V, 2: Single-phase 200V).
*(3) Indicates the XSEL type (J/K/P/Q).

*4 Indicates the power-supply voltage type (1: 100V, 2: Single-phase 200V, 3: Three-phase 200V).

IAI

RCS2-RT7R **266**