P2-GRHB

Model Specification Items

RCP2 — GRHB —

I: Incremental

- 42P - 2 -

42P: Pulse motor, 2: Feed screw

lead 2

42□ size

40 -

40:40mm

(20mm per side)

— Encoder type — Motor type — Deceleration Ratio — Stroke — Applicable controller — Cable length P1: PCON-PL/PO/SE N: None

See Options below.

P: 1m **PSEL** S: 3m P3: PCON-CA PMEC/PSEP MSEP

M:5m X□□: Custom Length



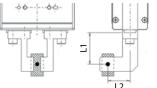
Technical References



- (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 the gripping forces of both fingers, at a gripping point where there is no offset or overhang distance. The work piece weight that can be actually moved depends on the friction coefficient between the gripper fingers and the work piece, as well as on the shape of the work piece. As a rough guide, a work piece's weight should not exceed 1/10 to 1/20 of the gripping force. (See page A-86 for details.)
- (3) The rated acceleration while moving is 0.3G.

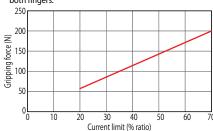
■ Gripping Force vs. Current Limit

The gripping (pushing) force can be adjusted freely within the range of current limits of 20% to 70%.



- * Operate with the L1 distance up to 90mm. L2
- *The gripping force value in the graph below is when both L1 and L2 are at 0 mm. (For gripping force reference per L1 $\,$ distance, see page A-87.)

The gripping force value is the sum of gripping forces of both fingers.



- * The gripping force graph above shows reference numbers. Please allow margins up to \pm 15%.
- * Please note that, when gripping (pushing), the speed is fixed at

Actuator Specifications

■ Lead and Payload

Model number	Deceleration Ratio	Maximum Gripping Force (N)	Stroke (mm)
RCP2-GRHB-I-42P-2-40-①-②-③	2	200 (100 per side)	40 (20 per side)

■ Stroke and Max. Opening/Closing Speed

Stroke Deceleration ratio	40 (mm)
2	100 (per side)

Code explanation ① Applicable Controller ② Cable length ④ Options

(Unit: mm/s)

Stroke

Stroke (mm)	Standard price
40	_

2	Cable	e Len	gth

Туре	Cable symbol	Standard price
Standard (Robot Cables)	P (1m)	_
	S (3m)	_
	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	X11 (11m) ~ X15 (15m)	_
	X16 (16m) ~ X20 (20m)	_

- *The standard cable is the motor-encoder integrated robot cable. * See page A-59 for cables for maintenance.

Actuator Specifications

ltem	Description
Drive System	Timing belt + trapezoidal screw (2 lead)
Positioning repeatability	±0.01mm
Backlash	0.2mm or less per side (constantly pressed out by a spring)
Lost motion	0.15mm or less per side
Guide	Linear guide
Allowable static load moment (*)	Ma: 15.7 N·m, Mb: 26.4 N·m, Mc: 59.8 N·m
Weight	1.5kg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

(*) Based on a 5,000km service life.

③ Options						
Name	Option code	See page	Standard price			
Cable exit direction top)	CJT	→ A-42	_			
Cable exit direction (right)	CJR	→ A-42	_			
Cable exit direction (left)	CJL	→ A-42	_			
Cable exit direction (bottom)	CJB	→ A-42	_			
Flange Bracket	FB	→ A-43	_			
Shaft bracket	SB	→ A-55	_			

CAD drawings can be downloaded www.intelligentactuator.com

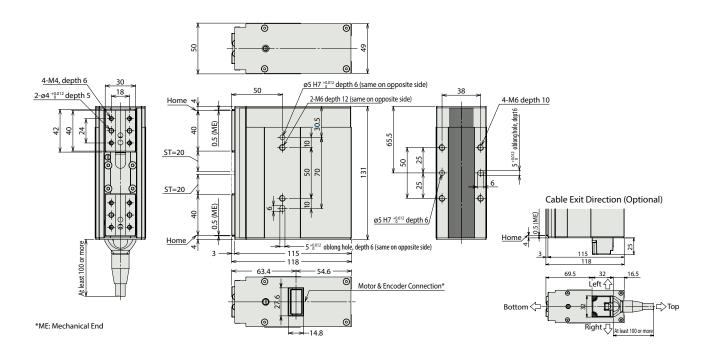
For Special Orders







* Connect the motor-encoder integrated cable here. (See page A-59 for details on cables.)



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Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Colored Market	100	PMEC-C-42PI-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P537
Solenoid Valve Type	1	PSEP-C-42PI-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points	-	Refer to P555	_	→ P54
Solenoid valve multi-axis type PIO specification	dinner i	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to		→ P56
Solenoid valve multi-axis type Network specification	iiii .	MSEP-C-(11)-~-(10)-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572	_	→ P50
Positioner type High-output specification	1	PCON-CA-42PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points			_	
Pulse-train type High-output specification		PCON-CA-42PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)	DC24V	Refer to P618	_	→ P60
Field network type High-output specification		PCON-CA-42PI-W-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V		_	
Pulse Train Input Type (Differential Line Driver)	Ö	PCON-PL-42PI-①-2-0	Pulse train input type with differential line driver support	()			_	
Pulse Train Input Type (Open Collector)		PCON-PO-42PI-①-2-0	Pulse train input type with open collector support	(—)		Refer to P628	_	→ P62
Serial Communication Type	Ĩ	PCON-SE-42PI-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		PSEL-CS-1-42PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points	1	Refer to P671	_	→ P66

*This is for the single-axis PSEL. * ① indicates I/O type (NP/PN). * ⑩ indicates power supply voltage (1: 100V / 2: 100~240V). * ⑪ indicates number of axes (1 to 8). * ⑩ indicates field network specification symbol. * □ indicates N (NPN specification) or P (PNP specification) symbol.

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