* See page Pre-47 for details on the model descriptions.

Arm Flat Type

P3-TA6C

Model Specification Items RCP3 - TA6C -**42P** — Encoder type — Motor type

I: Incremental The Simple absolute 42□ size encoder is also considered type "I".

42P: Pulse motor, 12:12mm 6: 6mm 3: 3mm

25: 25mm 150: 150mm (25mm pitch increments)

Stroke

Applicable controller P1: PCON-PL/PO/SE **PSEL** P3: PCON-CA

PMEC/PSEP MSEP

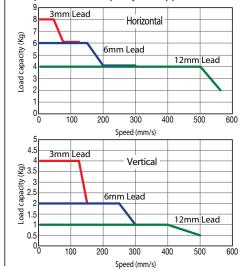
Cable length N: None P: 1m S: 3m

See Options below.

M:5m X□□:Custom Length

■ Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the RCP3 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.



RoHS

Technical References



- (1) Since the RCP3 series use a pulse motor, the load capacity decreases at high speeds. Check in the Speed vs. Load Capacity graph to see if your desired speed and load capacity are supported.
- (2) Please note that the maximum speed is different when used horizontally versus vertically.
- (3) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 3mm-lead model, or when used vertically). This is the upper limit of the acceleration.
- (4) See page A-71 for details on push motion.

Actuator Specifications

■ Leads and Payloads (Note 1) Please note that the maximum load capacity decreases as the speed increases.

Model number	Model number Lead (mm) Horizontal (kg) Vertical (kg) Lead (mm) Horizontal (kg) Vertical (kg)			Rated thrust (N)	Stroke (mm)		
RCP3-TA6C-I-42P-12-①-②-③-④	12	~4	~1	60			
RCP3-TA6C-I-42P-6-①-②-③-④	6	~ 6	~2	110	25~150 (every 25mm)		
RCP3-TA6C-I-42P-3-①-②-③-④	3	~8	~4	189			

■ Stroke and	(Unit: mm/s)	
Stroke Lead	25~100 (every 25mm)	
12	560<500>	
6	300	
3	150	

Code explanation Stroke Applicable Controller Cable length Options *See page A-71 for details on push motion. *The values enclosed in < > apply to vertical settings.

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①Stroke (mm)	Standard price
25	_
50	_
75	_
100	_
125	_
150	_

④ Options			
Name	Option code	See page	Standard price
Brake	В	→ A-42	
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	_
Non-motor end specification	NM	→ A-52	_

③Cable Length

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

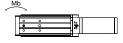
* The standard cable is the motor-encoder integrated robot cable. * See page A-59 for cables for maintenance.

Actuator Specifications

(*) Based on 5,000km of traveling life

Directions of allowable load moments





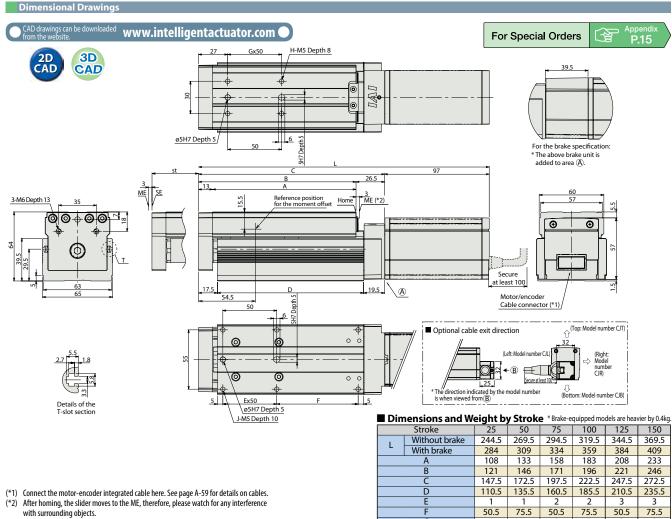


10

2.6

10

2.8



ME : Mechanical end SE : Stroke end

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Referenc page
Solenoid Valve Type		PMEC-C-42PI-①-2-⑪	Easy-to-use controller, even for beginners	AC100V AC200V		Refer to P541	_	→ P537
Soletiola valve Type	8	PSEP-C-42PI-①-2-0	Simple controller operable with the same signal as a solenoid valve			Refer to P555	_	→ P547
Solenoid valve multi-axis type PIO specification		MSEP-C-(1)-~-(1)-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected		Refer to		. 0540	
Solenoid valve multi-axis type Network specification		MSEP-C-(11)-~-(1V)-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points		P572	_	→ P563
Positioner type High-output specification		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	_	→ P607
Field network type High-output specification		PCON-CA-42PI-Ŵ-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points	DC24V		_	
Pulse Train Input Type (Differential Line Driver)	C	PCON-PL-42PI-①-2-0	Pulse train input type with differential line driver support	()		Refer to P628	_	
Pulse Train Input Type (Open Collector)		PCON-PO-42PI-①-2-0	Pulse train input type with open collector support	- (—)			_	→ P623
Serial Communication Type		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		Refer to P671	_	→ P665

Weight (kg)

1.8

2.2

2.4