Arm Flat Type



Model Specification Items

RCP3 - TA4R -

I: Incremental

encoder is also

The Simple absolute

considered type "I".

28P — Encoder type — Motor type

28□ size

28P: Pulse motor, 6: 6mm 4mm

2: 2mm

Stroke 20: 20mm

Applicable controller P1: PCON-PL/PO/SE **PSEL** 100: 100mm P3: PCON-CA (10mm pitch increments)

MSEP

PMEC/PSEP

N: None P: 1m S: 3m M:5m X□□:Custom Length

Cable length

Options See Options below.
*Be sure to specify which side the motor is to be mounted (ML/MR).

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





Technical References

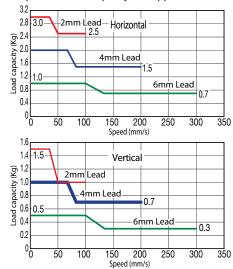


(1) The payload is the value when operated with acceleration of 0.3G (or 0.2G in the case of 2mm-lead and vertical usage). The upper limit for acceleration is 0.3G (or 0.2G in the case of 2mm-lead and vertical usage).

(2) See page A-71 for details on push motion.

■ 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.



Actuator Specifications

RCP3-TA4R-I-28P-2-10-20-30-4

■ Leads and Payloads (Note 1) Please note that the maximum load capacity decreases as the speed increases. Positioning repeatability Max. Load Capacity (Note 1) Lead Rated Model number Screw (mm) thrust (N) lorizontal (kg) Vertical (kg) RCP3-TA4R-I-28P-6-①-②-③-④ 25 ~0.5 Ball 20~100 RCP3-TA4R-I-28P-4-10-2-3-4 4 ~2 ~1 37 ±0.02 screw (every 10mm)

2

	= Stroke and Maximum Speed				
	Lea	Stroke d	20~100 (mm)		
	N.	6	300		
	Ball screw	4	200		
Ľ	ğ	2	100		

~3 Code explanation Stroke Applicable Controller Cable length Options See page A-71 for details on push motion.

~1.5

①Stroke	
①Stroke (mm)	Standard price
20	_
30	_
40	_
50	_
60	_
70	_
80	_
90	_
100	_

④ Options						
Name	Option code	See page	Standard price			
Brake	В	→ A-42	_			
Cable exit direction (top)	CJT	→ A-42	_			
Cable exit direction (outside)	CIO	→ A-42	_			
Cable exit direction (bottom)	CJB	→ A-42	_			
Side-mounted motor to the left (standard)	ML	→ A-52	_			
Side-mounted motor to the right	MR	→ A-52	_			
Non-motor end specification	NM	→ A-52	_			

③Cable Le	ength
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75

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

*The standard cable for the RCP3 is the robot cable.
*See page A-59 for cables for maintenance.

Actuator Specifications

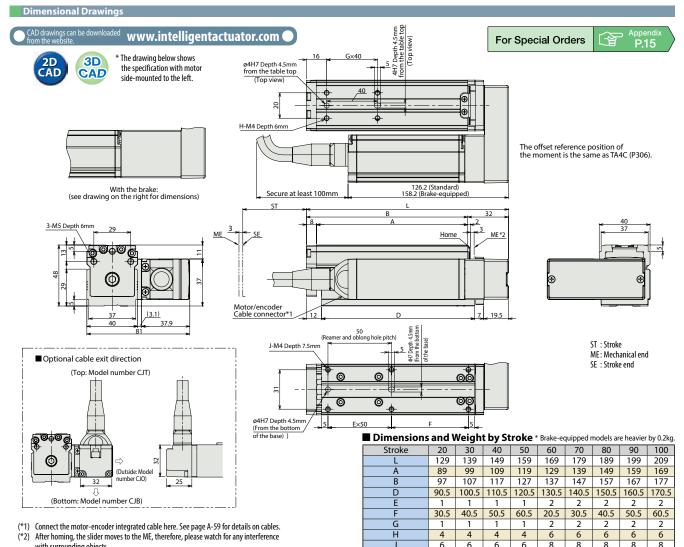
ltem	Description
Drive System	Ball screw, ø6mm, rolled C10
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Allowable dynamic moment (*)	Ma: 4.2 N·m, Mb: 6 N·m, Mc: 8.2 N·m
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

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

Directions of allowable load moments







②Applicable Controllers

RCP3 series actuators can be operated with the controllers indicated below. Select the type according to your intended application.

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Solenoid Valve Type		PMEC-C-28PI-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P53
solelloid valve Type		PSEP-C-28PI-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		MSEP-C-()-~-()-2-0	Positioner type based on PIO control, allowing up to 8 axes to be connected		- DC24V	Refer to P572	_	→ P563
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				
Positioner type High-output specification		PCON-CA-28PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points		Refer to P618	_	→ P607
Pulse-train type High-output specification		PCON-CA-28PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)			_	
Field network type High-output specification		PCON-CA-28PI-®-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points			_	
Pulse Train Input Type (Differential Line Driver)		PCON-PL-28PI-①-2-0	Pulse train input type with differential line driver support	(—) 64 points		Refer to P628	_	
Pulse Train Input Type (Open Collector)		PCON-PO-28PI-①-2-0	Pulse train input type with open collector support					→ P623
Serial Communication Type		PCON-SE-28PI-N-0-0	Dedicated Serial Communication			_		
Program Control Type		PSEL-CS-1-28PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	_	→ P66

Weight (kg)

0.7

0.8

0.8

0.8

0.9

0.9

0.9

1.0

1.0

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