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

P2-RTCB/RTCBI

rotation

rotation

RTCRI : Multiple

Model Specification Items

RCP2 -Type

— Encoder type — Motor type — Deceleration Ratio — Oscillation Angle — Applicable controller — RTCB: 330-deg |: Incremental

The Simple absolute

considered type "I".

encoder is also

35P — 35P: Pulse motor, 20: 1/20 35□ size

deceleration ratio 30: 1/30 deceleration

ratio

330: 330-degrees (RTCB only) 360: 360-degrees (RTCBL only)

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

PMEC/PSEP MSEP

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

NM: Non-motor end TA: Table adapter

M:5m X□□:Custom length R□□:Robot cable

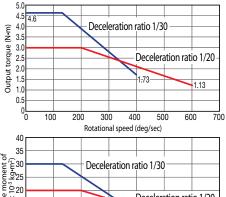
C € RoHS Technical References



- (1) The output torque decreases as the rotational speed increases. Check the Output Torque graph on the right to see whether the speed required for your desired motion is supported.
- (2) The allowable moment of inertia of the rotated work piece varies with the rotational speed. Check the Allowable Moment of Inertia graph on the right to see if the moment of inertia required for your desired motion is within the allowable range.
- (3) The rated acceleration while moving is 0.3G.
- (4) Please note that the PMEC/PSEP controllers cannot be used when performing infinite rotation with the multiple

■ Speed vs. Load Capacity

Due to the characteristics of the pulse motor, the RCP2 series' load capacity decreases at high speeds. In the table below, check if your desired speed and load capacity are supported.



le moment of 10⁻³ kg·m²) 05 cg·m²) Allowable r inertia (× 10 0 12 Deceleration ratio 1/20 11-3-7.5 100 200 300 400 500 600 700

Actuator Specifications

■ Leads and Payload

Model number	Deceleration Ratio	Max. Torque (N·m)	Allowable Movement of Inertia (kg·m²)	Oscillation Angle (deg)
RCP2-RTCB-I-35P-20-330-①-②-③	1/20	3.0	0.02	330
RCP2-RTCB-I-35P-30-330-①-②-③	0-330-①-②-③ 1/30 4.6 0.03		330	
RCP2-RTCBL-I-35P-20-360-①-②-③	1/20	3.0	0.02	360
RCP2-RTCBL-I-35P-30-360-①-②-③	1/30	4.6	0.03	300

■ Deceleration Ratio and Max. Speed

Stroke Deceleration ratio	330/360 (deg)
1/20	600
1/30	400
	(Unit: degrees/s)

Type Oscillation Angle (deg)		Standard price		
RTCB	330	_		
RTCBL	360	_		

②Cable Length

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

^{*} See page A-59 for cables for maintenance.

③ Options

Name	Option code	See page	Standard price
Reversed-rotation	NM	→ A-52	_
Shaft adapter	SA	→ A-54	_
Table adapter	TΔ	→ A-56	_

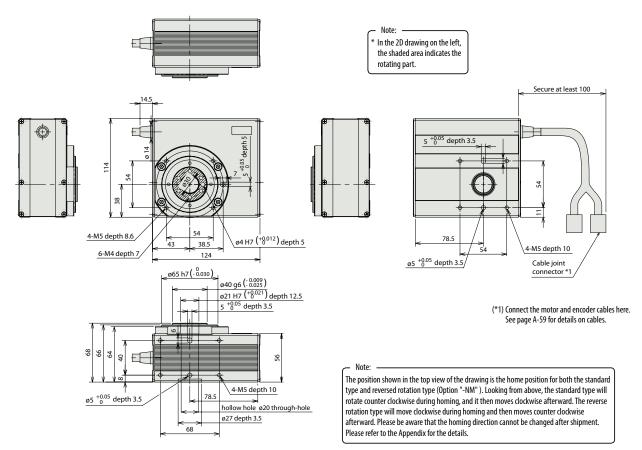
Actuator Specifications

Actuator specifications	
ltem	Description
Drive System	Hypoid gear
Positioning repeatability	±0.01 degrees
Homing accuracy	±0.01 degrees (RTCB) / ±0.03 (RTCBL)
Lost motion	±0.1 degrees
Allowable thrust load	200N
Allowable load moment	17.7 N·m
Weight	2.2kg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

For Special Orders







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①Ap	שווניינ	avie	COIL	ALC: U	ers

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Referen page
Solenoid Valve Type	***	PMEC-C-35PI-①-2-⑪	Easy-to-use controller, even for beginners		AC100V AC200V	Refer to P541	_	→ P53
		PSEP-C-35PI-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	un	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			Refer to P572	_	→ P563
Solenoid valve multi-axis type Network specification		MSEP-C-(11)-~-(10)-0-0	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points				
Positioner type High-output specification		PCON-CA-35PI-①-2-0	Equipped with a high-output driver Positioner type based on PIO control	512 points	- DC24V	Refer to P618	_	→ P607
Pulse-train type High-output specification		PCON-CA-35PI-PL□-2-0	Equipped with a high-output driver Pulse-train input type	(—)			_	
Field network type High-output specification		PCON-CA-35PI-Ŵ-0-0	Equipped with a high-output driver Supporting 7 major field networks	768 points			_	
Pulse Train Input Type (Differential Line Driver)		PCON-PL-35PI-①-2-0	Pulse train input type with differential line driver support	(—)		Refer to P628	_	
Pulse Train Input Type (Open Collector)		PCON-PO-35PI-①-2-0	Pulse train input type with open collector support				_	→ P623
Serial Communication Type	Ī	PCON-SE-35PI-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		PSEL-CS-1-35PI-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points		Refer to P671	_	→ P6

IAI

RCP2-RTCB/RTCBL 408