* See page Pre-35 for an explanation of the naming convention.

RCP2-RTC/RTCL ROBO Cylinder Rotary Medium Flat Type 88mm Width Pulse Motor ■ Configuration: RCP2 28P Туре Motor Compatible Contro Option 330: 330degrees (RTC only) 360: 360degrees (RTCL only) N : None P : 1m S : 3m I: Incremental * The Simple RTC: 330-degree 28P: 28 □ size 20: 1/20 P1: PCON NM:Reversed-rotation deceleration ratio 30: 1/30 deceleration rotation Pulse **RPCON** SA: Shaft adapter absolute encoder is also considered PSEL RTCL: Multi-rotational motor TA: Table adapter M:5m
X : Custom
R : Robot cable

ratio



type "I".

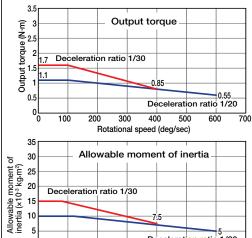
100

Speed vs. Load Capacity

P3: PMEC

PSEP

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.



- 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.
- 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.

Actuator Specifications ■ Lead and Load Capacity

Deceleration Max. Torque Allowable Moment of Oscillation Model

	Hallo	(14 111)	mertia (kg·m)	Aligie (deg)	
RCP2-RTC-I-28P-20-330-①-②-③	1/20	1.1	0.01	330	
RCP2-RTC-I-28P-30-330-①-②-③	1/30	1.7	0.015	330	
RCP2-RTCL-I-28P-20-360-1 -2 -3	1/20	1.1	0.01	360	
RCP2-RTCL-I-28P-30-360-1 - 2 - 3	1/30	1.7	0.015	360	

■ Deceleration Ratio and Max. Speed

300

200

400 500

Rotational speed (deg/sec)

Deceleration ratio 1/20

600

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

Legend:	1 Compatible controller	2 Cable length	3 Options
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Stroke List

Type	Oscillation Angle (deg)	Standard Price
RTC	330	-
RTCL	360	-

② Cable List

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

^{*} See page A-39 for cables for maintenance.

③ Option List See Page Name Option Code Standard Price Reversed-rotation (*) MM → A-33 Shaft adapter SA → A-35 Table adapter TA → A-37

Actuator Specifications				
Item	Description			
Drive System	Hypoid gear			
Positioning Repeatability	±0.01 degrees			
Homing Accuracy	±0.01 degrees			
Lost Motion	±0.1 degrees			
Allowable Thrust Load	50N			
Allowable Load Moment	3.9 N·m			
Weight	0.92kg			
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (non-condensing)			

^{*} Reversed-rotation option can be selected on the multi-rotational model only.

Dimensions

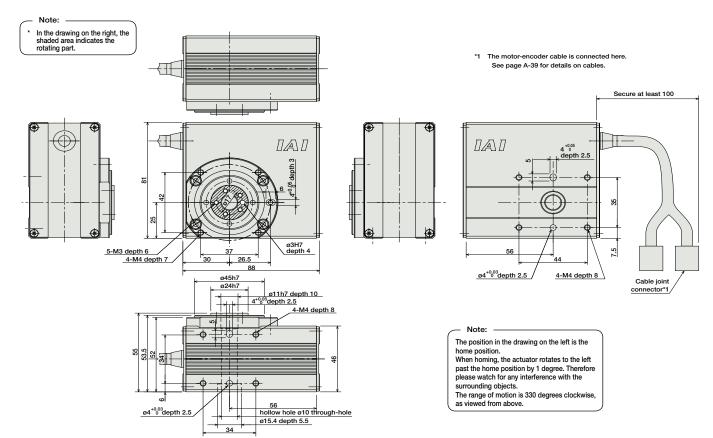
CAD drawings can be downloaded from IAI website. www.intelligentactuator.com

For Special Orders









* The bend radius R of the cable is the same as other models.

Weight (kg) 0.92

|--|

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page	
Solenoid Valve Type	110	PMEC-C-28PI-NP-2-①	Easy-to-use controller, even for beginners		AC100V AC200V	See P481	-	→ P477	
Soleliola valve Type	1	PSEP-C-28PI-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types.	3 points			-	D407	
Splash-Proof Solenoid Valve Type	1	PSEP-CW-28PI-NP-2-0	No homing necessary with simple absolute type.				-	→ P487	
Positioner Type	Í	PCON-C-28PI-NP-2-0	Decitioning is possible for up to 510 points		512 points	540 malaka		-	
Safety-Compliant Positioner Type		PCON-CG-28PI-NP-2-0	Positioning is possible for up to 512 points				-		
Pulse Train Input Type (Differential Line Driver)	Ó	PCON-PL-28PI-NP-2-0	Pulse train input type with differential line driver support		DC24V	DC24V 2A max.	2A max.	-	→ P525
Pulse Train Input Type (Open Collector)		PCON-PO-28PI-NP-2-0	Pulse train input type with open collector support	(-)	(-)		-		
Serial Communication Type	Í	PCON-SE-28PI-N-0-0	Dedicated to serial communication	64 points					
Field Network Type		RPCON-28P	Dedicated to field network	768 points			-	→ P503	
Program Control Type		PSEL-C-1-28PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P557	

^{*} This is for the single-axis PSEL.

* ① is a placeholder for the power supply voltage (1: 100V, 2: 100~240V).