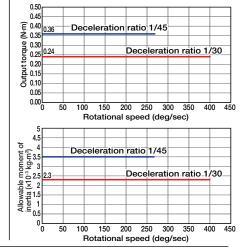
ROBO Cylinder Rotary Small Flat Type 72mm Width Pulse Motor RCP2 **20P** Motor - Deceleration Ratio Compatible Control Cable Length Type Encoder Oscillation Angle Option RTCS: 330 degree I: Incremental 26 rotation \* The Simple absolute encoder is also considered type "I". 28P: 28 ☐ size 30: 1/30 Pulse motor decel ratio 45: 1/45 330: 330degrees N : None P : 1m S : 3m M : 5m P1: PCON NM :Rever RPCON (RTCS only) SA: Shaft adapter PSEL TA: Table adapter (RTCSL only) P3: PMEC X : Custom R : Robot cable \* See page Pre-35 for an explanation of the naming convention



■ 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.



Rotary Type

Standard
ontrollers
integrated

Rod
Type

Mini

Standard

Controllers
Integrated

Туре

Nalaah Draaf

Controllers

PMEC /AMEC

/ASEP /ASEP ROBO NET

PCON ACON

PSEL

SSEL

Notes on Selection

Actuator Specifications

The output torque decreases as the rotational speed increases.

Check the output torque graph on the right to see whether.

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 rance.

(3) The rated acceleration while moving is 0.2G.

Lead and Load Capacity							
Model	Deceleration Ratio	Max. Torque (N·m)	Allowable Moment of Inertia (kg·m²)	Oscillation Angle (deg)			
RCP2-RTCS-I-20P-30-330-①-②-③	1/30	0.24	0.0023	330			
RCP2-RTCS-I-20P-45-330-1 -2 -3	1/45	0.36	0.0035	330			
RCP2-RTCSL-I-20P-30-360-1 - 2 - 3	1/30	0.24	0.0023	360			
RCP2-RTCSL-I-20P-45-360- ① - ② - ③	1/45	0.36	0.0035	360			

■ Deceleration Ratio and Max. Speed

Stroke Deceleration Ratio	330/360 (deg)
1/30	400
1/45	266
	(Unit: degrees/s)

Legend: ①Compatible controller ②Cable length ③Options

Stroke List

Type	Oscillation Angle (deg)	Standard Price
RTCS	330	-
RTCSL	360	-

② Cable List

Туре	Cable Symbol	Standard Price
Standard Type	P (1m)	-
(Robot Cables)	<b>S</b> (3m)	-
	M (5m)	-
Special Lengths	X06 (6m) ~ X10 (10m)	-
	X11 (11m) ~ X15 (15m)	-
	X16 (16m) ~ X20 (20m)	-

<sup>\*</sup> The standard cable is the motor-encoder integrated robot cable.

③ Option List			
Name	Option Code	See Page	Standard Price
Reversed-rotation (*)	NM	→ A-33	-
Shaft adapter	SA	→ A-35	-
Table adapter	TΛ	→ A-27	_

<sup>\*</sup> Reversed-rotation option can be selected on the multi-rotational model only.

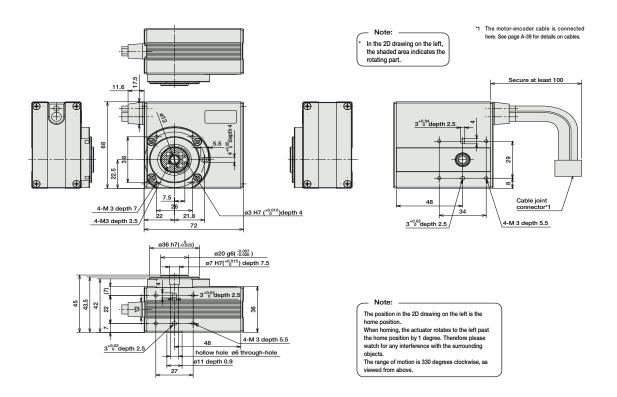
Actuator Specifications				
Item	Description			
Drive System	Hypoid gear			
Positioning Repeatability	±0.05 degrees			
Homing Accuracy	±0.05 degrees			
Lost Motion	±0.1 degrees			
Allowable Thrust Load	30N			
Allowable Load Moment	3.6N·m			
Weight	0.52kg			
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (non-condensing)			

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 $<sup>^{\</sup>star}$  See page A-39 for cables for maintenance.







Weight (kg) 0.48

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
	External view	PMEC-C-20PI-NP-2-①	Easy-to-use controller, even for beginners	max. I ositioning I onto	AC100V AC200V	See P481	-	→ P477
Solenoid Valve Type		PSEP-C-20PI-NP-2-0	Operable with same signal as solenoid valve.  - Supports both single and double solenoid types. No homing necessary with simple absolute type.	3 points			-	→ P487
Splash-Proof Solenoid Valve Type		PSEP-CW-20PI-NP-2-0					-	
Positioner Type	PCC	PCON-C-20PI-NP-2-0	Positioning is possible for up to 512 points	512 points			-	
Safety-Compliant Positioner Type		PCON-CG-20PI-NP-2-0	Toshtoning is possible for up to 512 points				-	
Pulse Train Input Type (Differential Line Driver)		PCON-PL-20PI-NP-2-0 Pulse train input type with differential line driver support  PCON-PO-20PI-NP-2-0 Pulse train input type with open collector support	DC24V	2A max.	ı	→ P525		
Pulse Train Input Type (Open Collector)			(-)		1			
Serial Communication Type	Í	PCON-SE-20PI-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RPCON-20P	Dedicated to field network	768 points				→ P503
Program Control Type	E	PSEL-C-1-20PI-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			_	→ P557

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