

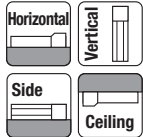
RCP2CR-RTCS/RTCSL

Cleanroom ROBO Cylinder, Rotary, Small Flat Type,
72 mm Body Width, Pulse Motor

RCP2W-RTCS/RTCSL

Dust-proof/Splash-proof ROBO Cylinder, Rotary, Small Flat Type,
72 mm Body Width, Pulse Motor

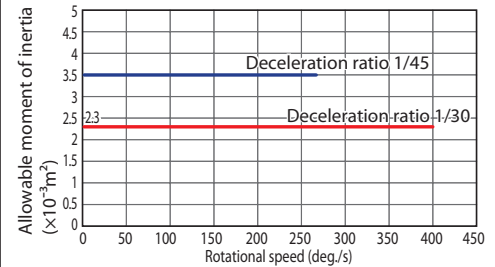
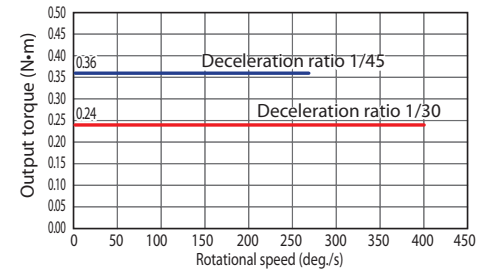
Model Specification Items	RCP2CR RCP2W	Type	Encoder	Motor	Deceleration Ratio	Operating Range	Applicable Controllers	Cable Length	Options
		RTCS: 330-degree rotation specification RTCSL: Multi-rotation specification	I: Incremental * The Simple absolute encoder is also considered type "I."	20P: Pulse motor 20□ size	30: Deceleration ratio 1/30 45: Deceleration ratio 1/45	330: 330 degrees (RTCS only) 360: 360 degrees (RTCSL only)	P1: PCON-CY/PL/PO/SE PSEL P3: PCON-CA PMEC/PSEP MSEP/MSEL	N: None P: 1m S: 3m M: 5m X□□: Custom R□□: Robot cable	NM: Reverse rotation specification SA: Shaft adapter TA: Table adapter



*Can be installed with above orientations.



Correlation Graph of Speed, Output Torque and Allowable Moment of Inertia



- POINT**
Note on selection
- (1) The output torque gets lower as the rotation speed gets faster. Check the output torque graph on the right to see if the necessary speed for the application is possible.
 - (2) The allowable moment of inertia on the rotated work piece will differ depending on the rotation speed. Check the allowable moment of inertia graph on the right to see if the necessary moment of inertia for the application is in the allowable range.
 - (3) The rated acceleration while moving is 0.2 G.
 - (4) Note that PMEC/PSEP Controllers are not capable of infinite rotation operation when used with multi-rotation actuators.

Actuator Specifications

Model	Deceleration Ratio	Maximum Torque (N·m)	Allowable Moment of Inertia (kg·m)	Operating Range (deg.)
RCP2 ①-RTCS-I-20P-30-330-②-③-④	1/30	0.24	0.0023	330
RCP2 ①-RTCS-I-20P-45-330-②-③-④	1/45	0.36	0.0035	330
RCP2 ①-RTCSL-I-20P-30-360-②-③-④	1/30	0.24	0.0023	360
RCP2 ①-RTCSL-I-20P-45-360-②-③-④	1/45	0.36	0.0035	360

Legend: ① Series ② Applicable controllers ③ Cable length ④ Options

Deceleration ratio and Max. speed

Operating Range	330/360 (deg.)
Deceleration Ratio	
1/30	400
1/45	266

(Unit: deg./s)

Type

Type	Operating Range (deg.)	Standard Price
RTCS	330	—
RTCSL	360	—

③ Cable Length

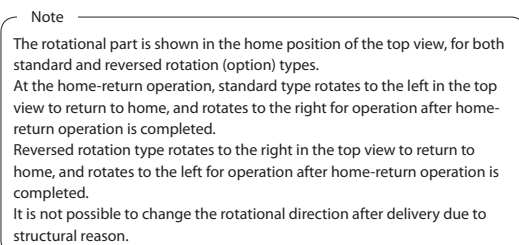
Type	Cable Code	Standard Price	
		P3	P1
Standard Type	P (1 m)	—	—
	S (3 m)	—	—
	M (5 m)	—	—
Special Length	X06 (6 m) ~ X10 (10 m)	—	—
	X11 (11 m) ~ X15 (15 m)	—	—
	X16 (16 m) ~ X20 (20 m)	—	—
Robot Cable	R01 (1 m) ~ R03 (3 m)	—	Robot cable is standard for P1
	R04 (4 m) ~ R05 (5 m)	—	
	R06 (6 m) ~ R10 (10 m)	—	
	R11 (11 m) ~ R15 (15 m)	—	
	R16 (16 m) ~ R20 (20 m)	—	

④ Options

Name	Option Code	Reference	Standard Price
Reverse Rotation Specification	NM	See ROBO Cylinder	—
Shaft Adapter	SA	General Catalog	—
Table Adapter	TA	General Catalog	—

Actuator Specifications

Item	Description	
	Cleanroom	Dust-proof/Splash-proof
Drive System	Hypoid gear	
Positioning Repeatability	±0.05 deg.	
Home-return Accuracy	±0.05 deg. or less (RTCS)/±0.05 deg. or less (RTCSL)	
Lost Motion	±0.1 deg.	
Allowable Thrust Load	30 N	
Allowable Load Moment	3.6 N·m	
Ambient Operating Temperature/Humidity	0~40°C, 85% RH or less (non-condensing)	
Cleanliness	Class 10 (0.1 μm)	—
Pipe Joint for Vacuuming	Quick connect joint, applicable tube outer diameter ø6 mm	—
Air Vacuum Volume	10 Nl/min	—
IP Code	—	IP54 or equivalent
Pipe Joint for Air Purge	Quick connect joint, applicable tube outer diameter ø6 mm	—
Air Purge Flow Volume	—	15 Nl/min
Weight	0.54 kg	



*For the single-axis PSEL and MSEL. *① I/O type (NP/PN) *② Number of axes *③ Field network specification code
 *④ Encoder type WAI: Incremental/SA: Simple absolute. However, WAI and SA cannot be used together for MSEL. *⑤ C (standard type) or LC (PLC function equipped type)
 *⑥ N (NPN specification)/P (PNP specification) code