CS2-RGD4C

Robo Cylinder, Rod Type with Double Guide, ø37mm Diameter, 200V Servo Motor, Coupled

Model Specification Items RCS2 -RGD4C

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

RoHS

CE compliance is optional.

Type Encoder type I:Incremental

Motor type 20:20W Servo A: Absoulute motor

For High Acceleration/Deceleration

motor

12:12mm 6: 6mm 3: 3mm 30 · 30W Servo

Stroke

50: 50mm 300: 300mm (50mm pitch

increments)

Applicable controller T1: XSEL-J/K T2: SCON MSCON

SSEL XSEL-P/O XSEL-R/S

N: None P: 1m S: 3m

M:5m X□□: Custom Length R□□: Robot Cable

Cable length

(*1) Except all 20W models and 30W 3mm lead models

Technical References



See options below.

Notes or

(1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.

- (2) The load capacity is based on operating the standard and power-saving models at 0.3G (0.2G for 3mm-lead), and 1G acceleration for the high-acceleration models (3mm-lead model excluded). (The values in the table below are the upper limits, even if the acceleration/deceleration is decreased.)
- (3) The values for the horizontal load capacity assume the use of an external guide, so that there is no external force from any direction other than the forward/backward direction of the rod. See the technical resources (page A-112) for the allowable weight using the supplied guide alone.
- (4) See page A-71 for details on push motion.

Actuator Specifications

■ Leads and Payloads Motor Lead Max. Load Capacity Rated Stroke Model number output (W) (mm) (mm) thrust (N) Horizontal (kg) | Vertical (kg) RCS2-RGD4C-①-20-12-②-③-④-⑤ 12 0.5 18.9 RCS2-RGD4C-①-20-6-②-③-④-⑤ 20 37.7 RCS2-RGD4C-①-20-3-②-③-④-⑤ 3 12.0 3.5 75.4 50~300 (every 50mm) RCS2-RGD4C-①-30-12-②-③-④-⑤ 12 4.0 1.0 28.3 RCS2-RGD4C-①-30-6-②-③-④-⑤ 30 6 9.0 2.5 56.6

■ Stroke and Maximum Speed

Stroke Lead	50~300 (every 50mm)
12	600
6	300
3	150

(Unit: mm/s)

Code explanation ① Encoder ② Stroke ③ Applicable controller ④ Cable length ⑤ Options *See page A-71 for details on push motion.

①Encoder Type/②Stroke

RCS2-RGD4C-①-30-3-②-③-④-⑤

	Standard price					
②Stroke (mm)	①Encoder Type					
	Increr	nental	Absolute			
	Motor Output (W)		Motor Output (W)			
	20W 30W		20W	30W		
50	_	_	_	_		
100			_	_		
150			_	_		
200	_	_	_	_		
250	_	_	_	_		
300	_	_	_	_		

4 Cable Length

113.1

Actuator Specifications

Non-rotating accuracy of rod

Drive System Positioning Repeatability

Lost Motion

Guide Rod diameter Item

Ambient operating temperature, humidity

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

Ball screw, ø10mm, rolled C10

±0.02mm 0.1mm or less

ø20mm

±0.05 deg

Description

Double guide (guide rod diameter ø10mm, ball bush type)

0 to 40°C, 85% RH or less (Non-condensing)

* See page A-59 for cables for maintenance.

Name	Option code	See page	Standard price
Brake	В	→ A-42	_
CE compliance	CE	→ A-42	_
Foot bracket	FT	→ A-49	_
High-acceleration/deceleration (*1)	HA	→ A-50	_
Home sensor (*2)	HS	→ A-50	_
Non-motor end specification	NM	→ A-52	_
Trunnion bracket (back)	TRR	→ A-58	_

(*1) The high-acceleration/deceleration option is not available for all 20W models and 30W model with 3mm lead.

me sensor (HS) cannot be used on the non-motor end models.

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For Special Orders



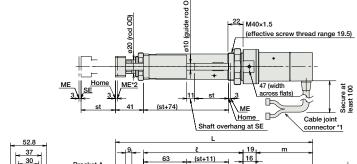


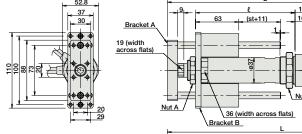
[No Brake]

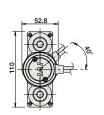


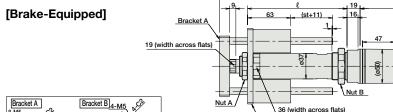
(*1) Connect the motor and encoder cables here. See page A-59 for details on cables.

(*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects. ME: Mechanical end SE: Stroke end









Nut A

M30×1.5

■ Dimensions and Weight by Stroke RCS2-RGD4C (without brake)

	Stroke	50	100	150	200	250	300		
L	20W	285.5	335.5	385.5	435.5	485.5	535.5		
	30W	300.5	350.5	400.5	450.5	500.5	550.5		
	l	145	195	245	295	345	395		
	20W	80.5							
Ш	m 30W		95.5						
	Weight (kg)	1.8	2.0	2.2	2.4	2.6	2.8		

RCS2-RGD4C (with brake)

Stroke		50	100	150	200	250	300
_	20W	328.5	378.5	428.5	478.5	528.5	578.5
_	30W	343.5	393.5	443.5	493.5	543.5	593.5
l		145	195	245	295	345	395
m	20W	123.5					
m	30W			13	3.5		
Weight (kg)		2.0	2.2	2.4	2.6	2.8	3.0

3 Applicable Controllers

8-M5 through-hole tx

Nut B

36 (width across flats)
Bracket B

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page	
Positioner mode			Up to 512 positioning points are supported.	512 points		*Power supply capacity will vary depending on the controller, so please refer to	_	→ P643	
Solenoid valve mode	1	SCON-CA-20①-NP-2-⑪ SCON-CA-30D①-NP-2-⑪	Actuators can be operated through the same control used for solenoid valves.	7 points	Single-phase 100VAC Single-phase 200VAC 3-phase				
Field network type			Movement by numerical specification is supported.	768 points			_		
Pulse-train input control type			Dedicated pulse-train input type	(—)			_		
Positioner multi-axis, network type	田林	MSCON-C-1-20①-②-0-⑪ MSCON-C-1-30D①-②-0-⑪	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	200VAC (XSEL-P/Q/R/S ONLY)		the instruction manual for	_	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-20①-NP-2-⑪ SSEL-CS-1-30D①-NP-2-⑪	Program operation is supported. Up to 2 axes can be operated.	20,000 points			_	→ P685	
Program control type, 1 to 8 axes	Pilita	XSEL-(1)-1-20(1)-N1-EEE-2-(1) XSEL-(1)-1-30D(1)-N1-EEE-2-(1)	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axes connected			_	→ P695	

*This is for the single-axis MSCON, SSEL, and XSEL.

* ① indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V).

* ② indicates the power-supply voltage type (1: 100 V / 2: Single-phase 200V / 3: Three-phase 200V).

* ② indicates the power-supply voltage type (1: 100 V / 2: Single-phase 200V / 3: Three-phase 200V).