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CS2-RGS4

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

Model Specification Items RCS2 - RGS4C

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

Type Encoder type I:Incremental

Motor type 20:20W Servo A: Absoulute motor 30 · 30W Servo

motor

12: 12mm 6mm 3: 3mm

Stroke 50: 50mm

(50mm pitch

increments)

300: 300mm

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

N: None P: 1m MSCON S: 3m SSEL XSEL-P/O

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

Cable length

RoHS For High Acceleration/Deceleration

*CE compliance is optional.

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

Technical References



See options below.

. Notes on selection (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-111) 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 output (W)	Lead (mm)	Max. Loac Horizontal (kg)	Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)
	12	3.0	0.5	18.9	
20	6	6.0	1.5	37.7	
	3	12.0	3.5	75.4	50~300
	12	4.0	1.0	28.3	(every 50mm)
30	6	9.0	2.5	56.6	
	3	18.0	6.0	113.1	
	20 30	output (W) (mm) 12 20 6 3 12 30 6 3	output (W) (mm) Horizontal (kg) 20 6 6.0 3 12.0 12 4.0 30 6 9.0 3 18.0	output (W) (mm) Horizontal (kg) Vertical (kg) 20 6 6.0 1.5 3 12.0 3.5 12 4.0 1.0 30 6 9.0 2.5 3 18.0 6.0	output (W) (mm) Horizontal (kg) Vertical (kg) thrust (N) 20 6 6.0 1.5 37.7 3 12.0 3.5 75.4 12 4.0 1.0 28.3 30 6 9.0 2.5 56.6 3 18.0 6.0 113.1

■ 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

		Standa	rd price	
		①Encod	der Type	
<pre>②Stroke (mm)</pre>	Incren	nental	Absolute	
	Motor Output (W)		Motor Output (W)	
	20W	30W	20W	30W
50	_	_	_	_
100	_		_	_
150	_	_	_	_
200	_	_	_	_
250	_		_	_
300	_	_	_	_

4 Cable Length

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)	_

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

⊚ options			
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.
(*2) The home sensor (HS) cannot be used on the non-motor end models.

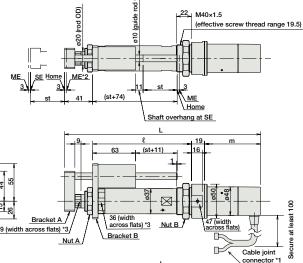
Actuator Specifications	
ltem	Description
Drive System	Ball screw, ø10mm, rolled C10
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Guide	Single guide (guide rod diameter ø10mm, ball bush type)
Rod diameter	ø20mm
Non-rotating accuracy of rod	±0.05 deg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

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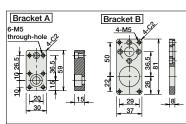


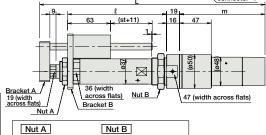
[No Brake]

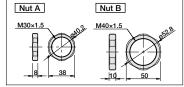




[Brake-Equipped]



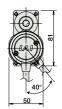




For Special Orders



- (*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
- (*3) The orientation of the bolt varies depending on the product.



■ Dimensions and Weight by Stroke RCS2-RGS4C (without brake)

	Stroke		100	150	200	250	300
1	20W	285.5	335.5	385.5	435.5	485.5	535.5
L	30W	300.5	350.5	400.5	450.5	500.5	550.5
	l	145 195 245 295 345 3					395
	20W		80.5				
m 30W				95	.5		
1	Weight (kg)	1.5 1.6 1.8 2.0 2.2 2.4					

RCS2-RGS4C (with brake)

	Stroke	50	100	150	200	250	300
	20W	328.5	387.5	428.5	478.5	528.5	578.5
L	30W	343.5	393.5	443.5	493.5	543.5	593.5
	l	145	195	245	295	345	395
m	20W	123.5					
111	m 30W			138	8.5		
	Weight (kg)	1.7 1.8 2.0 2.2 2.4 2.6					2.6

3 Applicable Controllers

RCS2-series actuators can be operated with the following controllers. Select an appropriate controller type according to your application.

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				
Solenoid valve mode			Actuators can be operated through the same control used for solenoid valves.	7 points		126 VA max.	_	→ P643
Field network type	iug/	3CON-CA-30D(T)-NF-2-(T)	Movement by numerical specification is supported.	768 points	Single-phase 100VAC	*Power supply capacity will	-	7 7043
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC 3-phase	hase vary depending on the controller, so	_	
Positioner multi-axis, network type	日本	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)	please refer to 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		details.		→ P685
Program control type, 1 to 8 axes	Pilita	XSEL-@-1-20①-N1-EEE-2-® XSEL-@-1-30D①-N1-EEE-2-®	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).
- * \bigcirc indicates the encoder type (l: Incremental / A: Absolute). * \bigcirc indicates the XSEL type (J / K / P / Q / R / S). * \bigcirc indicates field network specification symbol.