$C \in$

CS2-RGD4D

Robo Cylinder, Rod Type with Double Guide, ø37mm Diameter, 200V Servo Motor, Built-In Model

Model Specification Items RCS2 -RGD4D-Type

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

RoHS *CE compliance is optional - Encoder type -

Motor type I:Incremental 20 : 20W Servo A: Absoulute motor

motor

12:12mm 6: 6mm 30 · 30W Servo

3: 3mm

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

increments)

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

N: None P: 1m S: 3m

M:5m X□□: Custom Length

SSEL XSEL-P/O

R□□: Robot Cable

Cable length

Technical References



- Options

See options below.

- (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.
- The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 3mm-lead model). This is the upper limit of the acceleration.
- (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

Model number	Motor output (W)	Lead (mm)	Max. Loac Horizontal (kg)	Vertical (kg)	Rated thrust (N)	Stroke (mm)
RCS2-RGD4D-①-20-12-②-③-④-⑤		12	3.0	0.5	18.9	
RCS2-RGD4D-①-20-6-②-③-④-⑤	20	6	6.0	1.5	37.7	
RCS2-RGD4D-①-20-3-②-③-④-⑤		3	12.0	3.5	75.4	50~300
RCS2-RGD4D-①-30-12-②-③-④-⑤		12	4.0	1.0	28.3	(every 50mm)
RCS2-RGD4D-①-30-6-②-③-④-⑤	30	6	9.0	2.5	56.6	
RCS2-RGD4D-①-30-3-②-③-④-⑤		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

	Standard price					
	①Encoder 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)	_
Robot Cable	R04 (4m) ~ R05 (5m)	_
	R06 (6m) ~ R10 (10m)	_
	R11 (11m) ~ R15 (15m)	_
	R16 (16m) ~ R20 (20m)	_

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

⑤ Options Option code | See page | Standard price CE compliance CE → A-42 Foot bracket FT → A-49 Home sensor HS → A-50 Non-motor end specification NM → A-52

Trunnion bracket (back) TRR → A-58 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	Double 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)

Dimensional Drawings

CAD drawings can be downloaded www.intelligentactuator.com

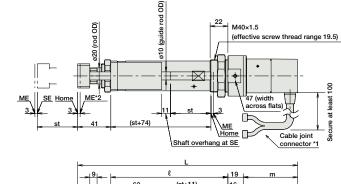
For Special Orders

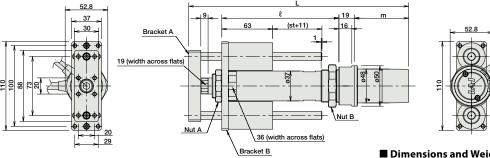


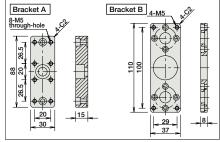


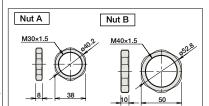
- (*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
- (*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects. ME: Mechanical end SE: Stroke end

[No Brake]









■ Dimensions and Weight by Stroke RCS2-RGD4D (without brake)

	Stroke	50 100 150 200 250 30				300		
	20W	263.5	313.5	363.5	413.5	463.5	513.5	
_	30W	278.5	328.5	378.5	428.5	478.5	528.5	
	l	145	195	245	295	345	395	
m	20W	58.5						
1111	30W	73.5						
1	Weight (kg)	1.6	1.8	2.1	2.3	2.5	2.7	

RCS2-RGD4D models are not equipped with a brake.

③ Applicable Controllers

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	1	SCON-CA-20①-NP-2-⑪	Actuators can be operated through the same control used for solenoid valves.	7 points		126 VA max.		→ P643
Field network type	iue/	SCON-CA-30D①-NP-2-①	Movement by numerical specification is supported.	768 points	Single-phase 100VAC	*Power supply capacity will vary depending on the controller, so please refer to the instruction manual for	_	7 7043
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC 3-phase		_	
Positioner multi-axis, network type	图数	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)		_	→ 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	emea	XSEL-(II)-1-20(I)-N1-EEE-2-(IV) XSEL-(II)-1-30D(I)-N1-EEE-2-(IV)	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).