

RCS2-SA5D

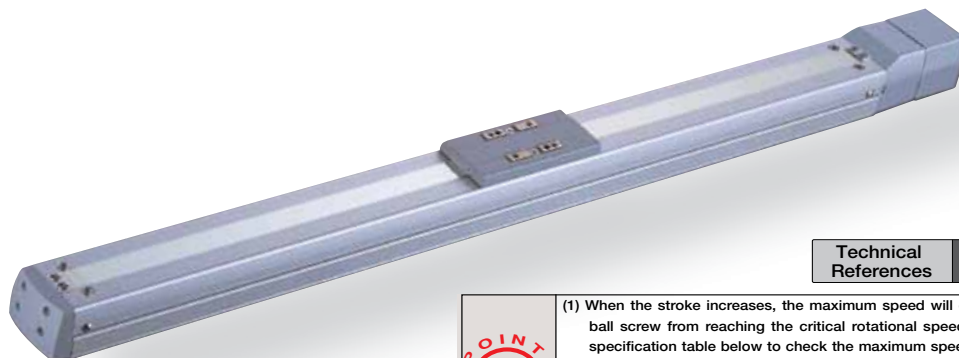
ROBO Cylinder Slider Type 52mm Width 200V Servo Motor
Motor Built-In (Direct Coupled)

■ Configuration: **RCS2** — **SA5D** — — **20** — — — — —

Series — Type — Encoder — Motor — Lead — Stroke — Compatible Controllers — Cable Length — Option

I : Incremental A:Absolute 20: 20W Servo motor 12: 12mm 50: 50mm T1: XSEL-J/K N : None BE : Brake (Cable exiting end)
 6: 6mm 3: 3mm 500: 500mm (50mm pitch increments) T2: SC0N P : 1m BL : Brake (Cable exiting left)
 SSEL S : 3m BR : Brake (Cable exiting right)
 XSEL-P/Q M : 5m NM: Reversed-home
 X : Custom Length SR : Slider Roller
 R : Robot Cable

* See page Pre-35 for explanation of each code that makes up the configuration name.



Technical References P. A-5

POINT 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 operation at an acceleration of 0.3G (0.2G for the 3mm-lead model).
These values are the upper limits for the acceleration.

Actuator Specifications

Lead and Load Capacity

Model	Motor Output (W)	Lead (mm)	Max. Load Capacity		Rated Thrust (N)	Stroke (mm)
			Horizontal (kg)	Vertical (kg)		
RCS2-SA5D-①-20-12-②-③-④-⑤	20	12	4	1	16.7	50 ~ 500 (50mm increments)
RCS2-SA5D-①-20-6-②-③-④-⑤		6	8	2	33.3	
RCS2-SA5D-①-20-3-②-③-④-⑤		3	12	4	65.7	

Legend ① Encoder ② Stroke ③ Compatible controller ④ Cable length ⑤ Options

Stroke and Maximum Speed

Lead	Stroke		500 (mm)
	50 ~ 450 (50mm increments)	500 (mm)	
12	800	760	
6	400	380	
3	200	190	

(Unit: mm/s)

Encoder & Stroke List

② Stroke (mm)	Standard Price	
	① Encoder Type	
	Incremental	Absolute
50	-	-
100	-	-
150	-	-
200	-	-
250	-	-
300	-	-
350	-	-
400	-	-
450	-	-
500	-	-

④ Cable List

Type	Cable Symbol	Standard Price
Standard	P (1m)	-
	S (3m)	-
	M (5m)	-
Special Lengths	X06 (6m) ~ X10 (10m)	-
	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)	-

* For cables for maintenance, see page A-39.

⑤ Option List

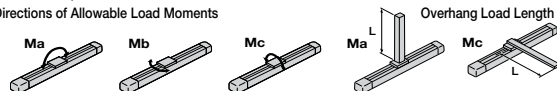
Name	Option Code	See Page	Standard Price
Brake (Cable exiting end)	BE	→ A-25	-
Brake (Cable exiting left)	BL	→ A-25	-
Brake (Cable exiting right)	BR	→ A-25	-
Reversed-home	NM	→ A-33	-
Slider Roller	SR	→ A-36	-

Actuator Specifications

Item	Description
Drive System	Ball screw Ø10mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum (white alumite treated)
Allowable Static Moment	Ma: 18.6N·m Mb: 26.6N·m Mc: 47.5N·m
Allowable Dynamic Moment (†)	Ma: 4.9N·m Mb: 6.8N·m Mc: 11.7N·m
Overhang Load Length	Ma direction: 150mm or less Mb-Mc direction: 150mm or less
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (Non-condensing)

(†) Based on 5,000km travel life.

Directions of Allowable Load Moments



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