Slider Type

Standard

ntegrated

Ro Typ

Standar

Table/Arm

Mini

Gripper. Rotary Type

Туре

Тур

Controller

/AMEC

ROBO NET

PCON

SCO

ASEL

XSE

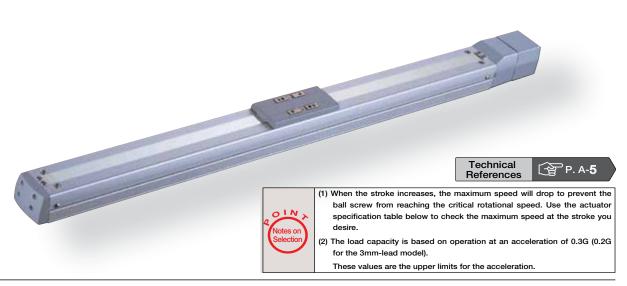
Pulse Mot

Servo Motor (24V)

Servo Motor (200V)

> Linear ervo Motor





Actuator Specifications ■ Lead and Load Capacity ■ Stroke and Maximum Speed Max. Load Capacity Lead Rated 50 ~ 450 Stroke 500 Model Thrust (N RCS2-SA5D-①-20-12-②-③-④-⑤ 12 16.7 12 800 760 4 1 50 ~ 500 RCS2-SA5D- 1 -20-6- 2 - 3 - 4 - 5 20 6 8 2 33.3 (50mm 6 400 380 RCS2-SA5D-1 -20-3-2 - 3 - 4 - 5 4 65.7 3 200 190 Legend ① Encoder ② Stroke ③ Compatible controller ④ Cable length ⑤ Options (Unit: mm/s)

Encoder & Stroke List						
② Stroke (mm)	Standard Price					
	① Encoder Type					
2 Stroke (IIIII)	Incremental	Absolute				
		Α				
50	ı	_				
100	-	_				
150	1	_				
200	1	_				
250	1	_				
300	-	-				
350	-	-				
400	-	-				
450	-	-				
500	-	-				

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	ı						

4 Cable List

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

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

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.

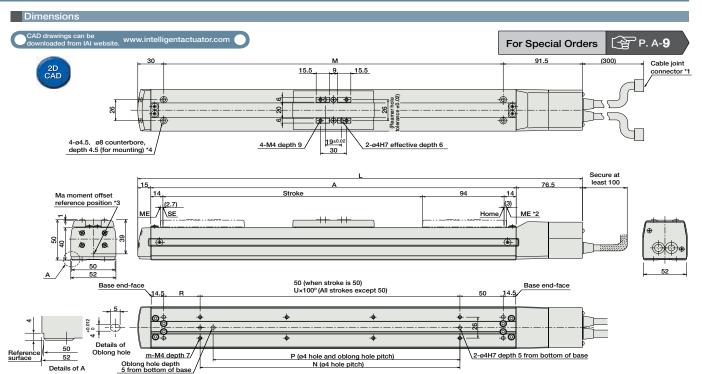
Directions of Allowable Load Moments



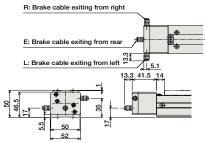








Dimensions of the Brake Section



Adding a brake increases the actuator's overall length (L) by 26.5mm (39.8mm with the cable coming out its end), and its weight by 0.3kg.

- The motor-encoder cable is connected here. See page A-39 for details on cables.

 When homing, the slider moves to the ME; therefore, please watch for any interference with the surrounding objects. ME: Mechanical end SE: Stroke end
- Reference position for calculating the moment Ma.
- 4 If the actuator is secured using only the mounting holes provided on the top surface of the base, the base may twist to cause abnormal sliding of the slider, or may produce abnormal noise. Therefore, when using the mounting holes on the top surface of the base, keep the stroke at 300mm or less.

■ Dimensions/Weight by Stroke

g,g,										
Stroke	50	100	150	200	250	300	350	400	450	500
L	263.5	313.5	363.5	413.5	463.5	513.5	563.5	613.5	663.5	713.5
Α	172	222	272	322	372	422	472	522	572	622
М	142	192	242	292	342	392	442	492	542	592
N	50	100	100	200	200	300	300	400	400	500
Р	35	85	85	185	185	285	285	385	385	485
R	42	42	92	42	92	42	92	42	92	42
U	-	1	1	2	2	3	3	4	4	5
m	4	4	4	6	6	8	8	10	10	12
Weight (kg)	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3

③ Compatible Controllers

The RCS2 series actuators can operate with the controllers below. Select the controller according to your usage.

Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Positioner Mode			Positioning is possible for up to 512 points	512 points	Single-Phase AC 200V * When operating a	operating a 150W single-		
Solenoid Valve Mode		SCON-C-20①-NP-2-②	Operable with same controls as solenoid valve.	7 points				→ P 547
Serial Communication Type			Dedicated to serial communication	64 points			_	→ P347
Pulse Train Input Control Type			Dedicated to Pulse Train Input	(-)				
Program Control 1-2 Axis Type		SSEL-C-1-20①-NP-2-②	Programmed operation is possible Can operate up to 2 axes	20000 points			-	→ P577
Program Control 1-6 Axis Type	emeal.	XSEL-③-1-20①-N1-EEE-2-④	Programmed operation is possible Can operate up to 6 axes	20000 points			-	→ P587

- For SSEL and XSEL, only applicable to the single-axis model.
- *① is a placeholder for the encoder type (I: incremental, A: absolute).

 *② is a placeholder for the power supply voltage (I: 100V, 2: single-phase 200V, 3: 3-phase 200V).
- * ③ is a placeholder for the XSEL type name (J, K, P, or Q).
 * ④ is a placeholder for the power supply voltage (1: 100V, 2: single-phase 200V, 3: 3-phase 200V).