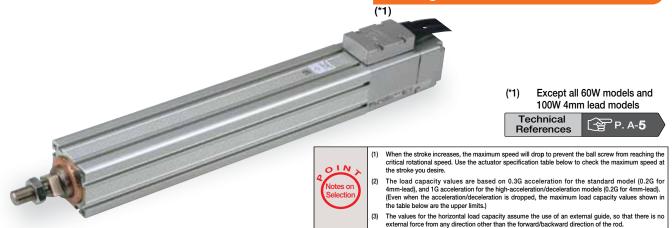


For High Acceleration/Deceleration



Actuator Specifications

■ Lead and Load Capacity

Model	Motor Output (w)	Lead (mm)	Max. Load Horizontal (kg)		Rated Thrust (N)	Stroke (mm)				
RCS2-RA5C-①-60-16-②-③-④-⑤	. , ,	16	12.0	2.0	63.8					
RCS2-RA5C-1 -60-8-2-3-4-5	60	8	25.0	5.0	127.5					
RCS2-RA5C-①-60-4-②-③-④-⑤		4	50.0	11.5	255.1	50 ~ 300 (50mm				
RCS2-RA5C-①-100-16-②-③-④-⑤		16	15.0	3.5	105.8	increments)				
RCS2-RA5C-①-100-8-②-③-④-⑤	100	8	30.0	9.0	212.7					
RCS2-RA5C-①-100-4-②-③-④-⑤		4	60.0	18.0	424.3					
Legend: 1 Encoder 2 Stroke 3 Compatible controller	Legend: ①Encoder ②Stroke ③Compatible controller ④Cable length ⑤Options									

■ Stroke and Maximum Speed

Stroke Lead	$50 \sim 250$ (50mm increments)	300 (mm)
16	800	755
8	400	377
4	200	188
		41

(Unit: mm/s)

Encoder & Stroke List

		Standard Price					
	① Encoder Type						
② Stroke (mm)	Incremental		Absolute				
	Motor power output		Motor pov	ver output			
	60W	100W	60W	100W			
50	-	-	-	-			
100	-	-	-	-			
150	-	-	-	-			
200	-	-	-	-			
250	-	-	-	-			
300	-	-	-	-			

(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)	_

^{*} See page A-39 for cables for maintenance.

⑤ Option List See Page Name Option Code Standard Price Connector cable exit direction **A2** → A-25 Brake В → A-25 FL Flange → A-27 FT Foot bracket → A-29 High-acceleration/deceleration (*1) HA → A-32

(*1) The high-acceleration/deceleration option is not available for all 60W models and 100W model with 4mm lead.

Actuator Specifications	
Item	Description
Drive System	Ball screw ø12mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum (white alumite treated)
Rod Diameter	ø30mm
Non-rotating accuracy of rod	±0.7 deg
Ambient Operating Temp /Humidity	0 ~ 40°C, 85% BH or less (non-condensing)



CAD drawings can be downloaded from IAI website. www.intelligentactuator.com

For Special Orders





Dimensions

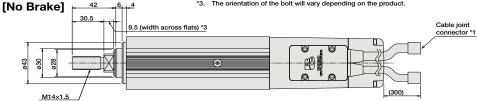


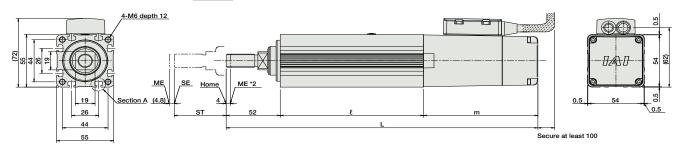
*The RA5C is not available in reversed-home configuration, due to its construction.

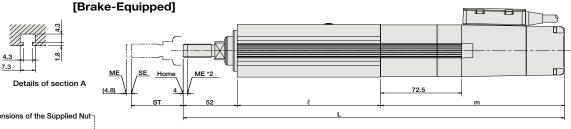
- *1. The motor-encoder cable is connected here. See page A-39 for details on cables.
- When homing, the rod moves to the ME; therefore, please watch for any interference with the surrounding objects.

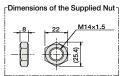
ME: Mechanical end SE: Stroke end

*3. The orientation of the bolt will vary depending on the product.









■ Dimensions/Weight by Stroke

RCS2-RA5C (brake)

	S	troke	50	100	150	200	250	300
	L	60W	282	332	382	432	482	532
	-	100W	300	350	400	450	500	550
	€		138	188	238	288	338	388
Ī	60W				9	2		
	m	100W		110				
	Weight (kg)		1.9	2.2	2.5	2.8	3.1	3.4

RCS2	RCS2-RA5C (with brake)								
S	Stroke		100	150	200	250	300		
L	. 60W		404.5	454.5	504.5	554.5	604.5		
-	100W	372.5	422.5	472.5	522.5	572.5	622.5		
	l	138 188 238 288 338 388			388				
m	60W 164.5								
1111	100W			18:	2.5				
Wei	ght (kg)	2.2	2.5	2.8	3.1	3.4	3.7		

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			-	→ P547	
Solenoid Valve Mode		SCON-C-60①-NP-2-③ SCON-C-100①②-NP-2-③	Operable with same controls as solenoid valve.	7 points	Single-Phase AC 100V 360VA max. Single-Phase AC 200V				
Serial Communication Type			Dedicated to serial communication	64 points		360VA max.			
Pulse Train Input Control Type			Dedicated to Pulse Train Input	(-)	Three-phase AC 200V (XSEL-P/Q only)	* When operating a 150W single-Axes model			
Program Control 1-2 Axes Type		SSEL-C-1-60①-NP-2-③ SSEL-C-1-100 ① ②-NP-2-③	Programmed operation is possible Operation is possible on up to 2 axes	20000 points				-	→ P577
Program Control 1-6 Axes Type	Pilita	XSEL-④-1-60 ①-N1-EEE-2-⑤ XSEL-④-1-100 ①②-N1-EEE-2-⑤	Programmed operation is possible Operation is possible on up to 6 axes	20000 points			-	→ P587	

 * For SSEL and XSEL, only applicable to the single-Axes model.

- **Of is a placeholder for the encoder type (! incremental / A: absolute).

 **② is a placeholder for the encoder type (! incremental / A: absolute).

 **② is a placeholder for the code "HA" if the high-acceleration/deceleration option is specified.

 **③ is a placeholder for the power supply voltage (! 1: 100V, 2: single-phase 200V).

 **⑤ is a placeholder for the XSEL type name ("U", "K", "P", "Q").

 **⑤ is a placeholder for the power supply voltage (1: 100V, 2: single-phase 200V, or 3: three-phase 200V).