Controllers Integrated

Rod
Type

Mini

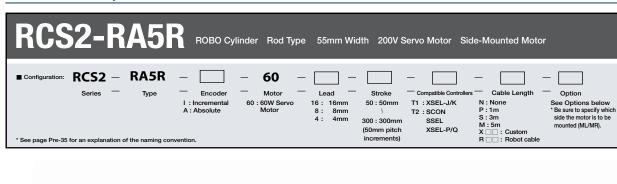
Standard

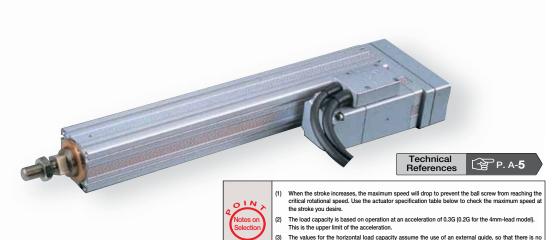
Controllers
Integrated

Table/Arm
//Flat Type

Mini

Standard





Actuator Specifications ■ Lead and Load Capacity Stroke and Maximum Speed Max. Load Capacity 50 ∼ 250 Stroke Lead (mm) Output (W Thrust (N RCS2-RA5R-1 -60-16-2 -3 -4 -5 16 63.8 16 800 50 ~ 300 RCS2-RA5R-1 -60-8-2 -3 -4 -5 60 8 25.0 5.0 8 127.5 (50mm 400 RCS2-RA5R- 1 -60-4- 2 - 3 - 4 - 5 50.0 11.5 255.1 200 Legend: 1 Encoder 2 Stroke 3 Compatible controller 4 Cable length 5 Options

Encoder & Stroke List

② Stroke (mm)	Standard Price			
	① Encoder			
	Incremental	Absolute		
	1	Α		
50	_	_		
100	100 – –			
150	-	-		
200	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)	_

300

755

377

188

external force from any direction other than the forward/backward direction of the rod.

⑤ Option List			
Name	Option Code	See Page	Standard Price
Connector cable exit direction	A2	→ A-25	-
Brake	В	→ A-25	_
Flange	FL	→ A-27	_
Foot bracket	FT	→ A-29	-
Left-Mounted Motor (Standard)	ML	→ A-33	_
Right-Mounted Motor	MR	→ A-33	_

Actuator Specifications	
Item	Description
Drive System	Ball screw ø12mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1 mm 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% RH or less (non-condensing)

 $245_{\scriptscriptstyle RCS2\text{-}RA5R}$



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





*The RA5R is not available in reversed-home configuration, due to its construction.

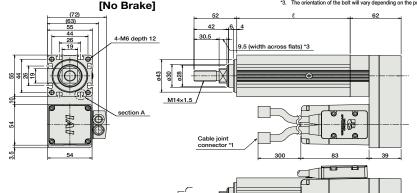
ME (4.8)

M14×1.5

- The motor-encoder cable is connected here. See page A-39 for details on cables.
 When horning, the rod moves to the ME; therefore, please watch for any interference with the surrounding objects.
 ME: Mechanical end
 SE: Stroke end

39

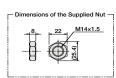
*3. The orientation of the bolt will vary depending on the product.







[Brake-Equipped] 52 72.5 42 30.5 9.5 (width across flats) *3 930



■ Dimensions/Weight by Stroke

RCS2-RA5R (without brake)
 50
 100
 150
 200
 250
 300

 252
 302
 352
 402
 452
 502
 138 188 238 288 338 388 2.3 2.6 2.9 3.2 3.5 3.8

RCS2-RA5R (with brake)								
Stroke	50	100	150	200	250	300		
L	301.5	351.5	401.5	451.5	501.5	551.5		
l	138	188	238	288	338	388		
Weight (kg)	2.6	2.9	3.2	3.5	3.8	4.1		

3 Compatible Controllers		

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

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

- **\tilde{0} is a placeholder for the encoder type (E: incremental A: absolute).

 **\tilde{2} is a placeholder for the power supply voltage (E: 100V, 2: single-phase 200V).

 **\tilde{0} is a placeholder for the SZE type name (1", "K", "P", o" ("O").

 **\tilde{0} is a placeholder for the SZE type name (1", "K", "P", o" ("O").

 **\tilde{0} is a placeholder for the power supply voltage (E: 100V, 2: single-phase 200V, 3: 3-phase 200V).

IAI

RCS2-RA5R **246**



Mini
Standard
Controllers
Integrated
Rod
Type
Mini
Standard
Controllers
Integrated
Table/Arm
/Flat Type
Mini

Controllers

PMEC AMEC
PSEP ASEP
ROBO NET
ERC2
PCON
ACON
SCON
PSEL
ASEL
XSEL