RCS2-RA4C ROBO Cylinder Rod Type ø37mm Diameter 200V Servo Motor Coupled \blacksquare Configuration: RCS2 - RA4C Туре N: None P:1m S:3m M:5m I : Incremental A: Absloute 20 : 20W Servo 12: 12mm 50 : 50mm T1:XSEL-J/K See Options below Motor 6: 6mm T2:SCON 30 : 30W Servo 3mm 300:300mm SSEL Motor XSEL-P/Q (50mm pitch X : Custom
R : Robot cable increments) * See page Pre-35 for an explanation of the naming convention.

For High Acceleration/Deceleration



Actuator Specifications

■ Lead and Load Capacity

Model	Motor Output (w)	Lead (mm)	Max. Load Horizontal (kg)	<u> </u>	Rated Thrust (N)	Stroke (mm)		
RCS2-RA4C-①-20-12-②-③-④-⑤		12	3.0	1.0	18.9			
RCS2-RA4C-①-20-6-②-③-④-⑤	20	6	6.0	2.0	37.7			
RCS2-RA4C-①-20-3-②-③-④-⑤		3	12.0	4.0	75.4	50 ~ 300 (50mm		
RCS2-RA4C-①-30-12-②-③-④-⑤		12	4.0	1.5	28.3	increments)		
RCS2-RA4C-①-30-6-②-③-④-⑤	30	6	9.0	3.0	56.6			
RCS2-RA4C-①-30-3-②-③-④-⑤		3	18.0	6.5	113.1			
Legend: ①Encoder ②Stroke ③Compatible controller ④Cable length ⑤Options								

■ Stroke and Maximum Speed

Stroke Lead	$50 \sim 300$ (50mm increments)
12	600
6	300
3	150
	# 1 · · · · · · · · · · · · · · · · · ·

(Unit: mm/s)

Encoder & Stroke List

	Standard Price								
	① Encoder Type								
2 Stroke (mm)	Increr	nental	Absolute						
	Motor pov	ver output	Motor power output						
	20W 30W		20W	30W					
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.

© Option List			
Name	Option Code	See Page	Standard Price
Brake	В	→ A-25	-
Foot bracket	FT	→ A-29	_
Flange bracket (front)	FL	→ A-27	-
Flange bracket (back)	FLR	→ A-28	_
High-acceleration/deceleration (*1)	HA	→ A-32	-
Home sensor (*2)	HS	→ A-32	-
Knuckle joint	NJ	→ A-34	_
Reversed-home	NM	→ A-33	-
Trunnion bracket (front)	TRF	→ A-38	-
Trunnion bracket (back)	TRR	→ A-38	_

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)					
Rod Diameter	ø20mm					
Non-rotating accuracy of rod	±1.0 deg					
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (non-condensing)					

Dimensions

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

For Special Orders

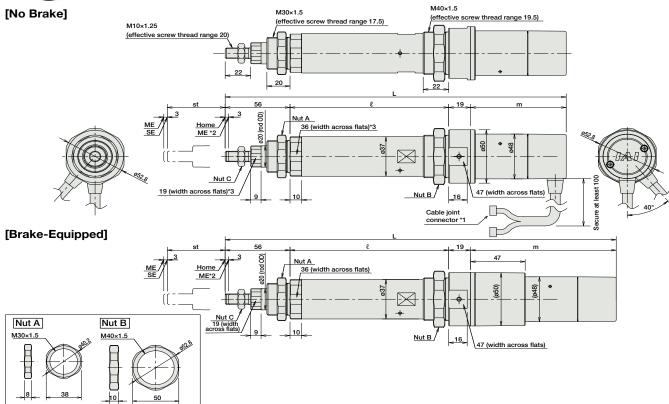






- *1. The motor-encoder cable is connected here. See page A-39 for details on cables.
 - *2. When homing, the rod moves to the ME; therefore, please watch for any interference with the surrounding objects. ME: Mechanical end SE: Stroke end

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



Nut C (19.6)M10x1.25

■ Dimensions/Weight by Stroke

RCS2-RA4C (without brake)

S	troke	50 100		150	200	250	300
L	20W	292.5	342.5	392.5	442.5	492.5	542.5
_	30W	307.5	357.5	407.5	457.5	507.5	557.5
	Ł		187	237	287	337	487
	20W			80	.5		
m	30W		95.5				
Wei	Weight (kg)		1.2	1.4	1.5	1.7	1.8

BCS2-BA4C (with brake)

11002-11A40 (With blake)									
Stroke		50	100	150	200	250	300		
L	20W	335.5	385.5	435.5	485.5	535.5	585.5		
-	30W	350.5	400.5	450.5	500.5	550.5	600.5		
	Ł	137	187	237	287	337	487		
20W	20W	123.5							
m 30W				13	8.5				
Weight (kg)		1.3	1.5	1.6	1.7	1.9	2.0		

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				
Solenoid Valve Mode		SCON-C-20①②-NP-2-③ SCON-C-30D①②-NP-2-③	Operable with same controls as solenoid valve.	7 points				. 25.47
Serial Communication Type			SCON-C-30D①②-NP-2-③	Dedicated to serial communication	64 points	Single-Phase AC 100V Single-Phase AC 200V	360VA max.	360VA max.
Pulse Train Input Control Type			Dedicated for 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-1-20①-NP-2-③ SSEL-C-1-300①-②-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-④-1-20①-N1-EEE-2-⑤ XSEL-④-1-300①②-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.

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

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

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

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

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

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