ROBO Cylinder Rod Type with Single Guide ø37mm Diameter 200V Servo Motor RCS2-RGS4 Built-In Model \blacksquare Configuration: RCS2 - RGS4D -Encoder Cable Length Option 60 : 60W Servo Motor 30 : 30W Servo Motor I : Incremental A : Absolute 12:12mm 6:6mm N: None 50:50mm T1:XSEL-J/K See Options below N: None
P: 1m
S: 3m
M: 5m
X : Custom
R : Robot cable T2:SCON 3: 3mm 300:300mm SSEL (50mm pitch increments) * See page Pre-35 for an explanation of the naming convention.



(2) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 3mm-lead model). This is the upper limit of the acceleration.

The values for the horizontal load capacity assume the use of an external guide, so that there is no external force from any direction other than the forward/backward direction of the rod. See the technical resources (page A-82) for the allowable weight using the supplied guide alone.

Actuator Specifications

■ Lead and Load Capacity

Model	Motor Output (w)	Lead (mm)	Max. Load Horizontal (kg)		Rated Thrust (N)	Stroke (mm)
	Output (w)	, ,			. ,	(11111)
RCS2-RGS4D-①-20-12-②-③-④-⑤		12	3.0	0.5	18.9	
RCS2-RGS4D-①-20-6-②-③-④-⑤	20	6	6.0	1.5	37.7	
RCS2-RGS4D-①-20-3-②-③-④-⑤		3	12.0	3.5	75.4	50 ~ 300
RCS2-RGS4D-①-30-12-②-③-④-⑤		12	4.0	1.0	28.3	(50mm increments)
RCS2-RGS4D-①-30-6-②-③-④-⑤	30	6	9.0	2.5	56.6	
RCS2-RGS4D-①-30-3-②-③-④-⑤		3	18.0	6.0	113.1	
Legend: 1 Encoder 2 Stroke 3 Compatible controller	4 Cable le	ngth 5	Options			

■ Stroke and Maximum Speed

Stroke	$50 \sim 300$ (50mm increments)
12	600
6	300
3	150

(Unit: mm/s)

Encoder & Stroke List

	Standard Price					
		① En	ncoder			
2 Stroke (mm)	Incren	mental Absolut		olute		
	Motor O	utput (W)	Motor O	Output (W) 30W		
	20W	30W	20W	30W		
50	-	-	-	-		
100	-	-	-	=		
150	-	-	-	=		
200	-	-	-	-		
250	-	-	_	-		
300	_	-	=	=		

(4)	Cable	List	Ì

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 Option Code Standard Price Foot bracket → A-29 Home sensor HS → A-32 NM Reversed-home → A-33 TRR Trunnion bracket (back) → A-38

^{*} The home sensor (HS) cannot be used on the reversed-home models.

Actuator Specifications				
Item	Description			
Drive System	Ball screw ø10mm C10 grade			
Positioning Repeatability	±0.02mm			
Lost Motion	0.1mm or less			
Guide	Single guide (guide rod diameter ø10mm, Ball bush type)			
Rod Diameter	ø20mm			
Non-rotating accuracy of rod	±0.05 deg			
Ambient Operating Temp./Humidity	0 ~ 40°C, 85% RH or less (non-condensing)			

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

For Special Orders

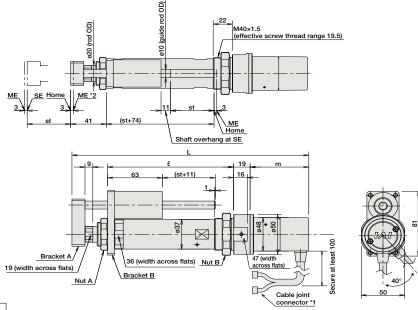


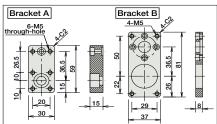


- *1. The motor-encoder cable is connected here. See page A-39 for details on cables.
- When homing, the rod moves to the ME; therefore, please watch for any interference with the surrounding objects.

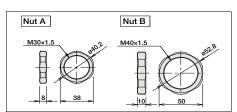
 ME: Mechanical end

 SE: Stroke end





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■ Dimensions/Weight by Stroke

RCS2-RGS4D (without brake)

11002	1002 Tido-15 (Williout Brake)							
S	troke	50	100	150	200	250	300	
L	20W	263.5	313.5	363.5	413.5	463.5	513.5	
_	30W	278.5	328.5	378.5	428.5	478.5	528.5	
	· l	145	195	245	295	345	395	
	20W			58	3.5			
m	30W			73	3.5			
Wei	ight (kg)	1.3	1.5	1.7	1.9	2.1	2.3	

RCS2-RGS4D does not come in a brake-equipped configuration.

(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-20①-NP-2-②	Operable with the same controls as the solenoid valve.	7 points				→ P 547
Serial Communication Type		SCON-C-30D①-NP-2-②	Dedicated to serial communication	64 points	Single-Phase AC 100V Single-Phase AC 200V	Maximum 360VA	-	→ P547
Pulse Train Input Control Type			Dedicated to Pulse Train Input	(-)	3-Phase AC 200V (XSEL-P/Q only)	* Single-axis model operated at 150W		
Program Control 1-2 Axes Type		SSEL-C-1-20①-NP-2-2 SSEL-C-1-30D①-NP-2-2	Programmed operation is possible Operation is possible on up to 2 axes	20000 points	V 1/4 (111)		-	→ P577
Program Control 1-6 Axes Type	Pilita	XSEL-③-1-20①-N1-EEE-2-④ XSEL-③-1-30D①-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.
- $^{\star}\, \textcircled{\scriptsize 1}\,$ is a placeholder for the encoder type (I: incremental / A: absolute)

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