

motor

100 : 100W Servo

motor

8: 8mm

4: 4mm

300: 300mm (50mm pitch

increments)

\* See page Pre-47 for details on the model descriptions. CE For High Acceleration/Deceleration RoHS \*CE compliance is optional.

A: Absoulute

(\*1) Except all 60W models and 100W 4mm lead models

M:5m X□□: Custom Length

R□□: Robot Cable

Technical References



See options below.

Notes or

(1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.

T2·SCON

MSCON

SSEL XSEL-P/O

- (2) The load capacity is based on operating the standard and power-saving models at 0.3G (0.2G for 4mm-lead), and 1G acceleration for the high-acceleration models (4mm-lead model excluded). (The values in the table below are the upper limits, even if the acceleration/deceleration is decreased.)
- (3) 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-112) for the allowable weight using the supplied guide alone.
- (4) See page A-71 for details on push motion.

## ■ Stroke and Maximum Speed

Stroke Lead	50~250 (every 50mm)	300 (mm)
16	800	755
8	400	377
4	200	188
		(Unit: mm/s)

■ Leads and Payloads								
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)	Capacity  Vertical (kg)	Rated thrust (N)	Stroke (mm)		
RCS2-RGD5C-①-60-16-②-③-④-⑤		16	12.0	1.3	63.8			
RCS2-RGD5C-①-60-8-②-③-④-⑤	60	8	25.0	4.3	127.5			
RCS2-RGD5C-①-60-4-②-③-④-⑤		4	50.0	10.8	255.1	50~300		
RCS2-RGD5C-①-100-16-②-③-④-⑤		16	15.0	2.8	105.8	(every 50mm)		
RCS2-RGD5C-①-100-8-②-③-④-⑤	100	8	30.0	8.3	212.7			
RCS2-RGD5C-①-100-4-②-③-④-⑤		4	60.0	17.3	424.3			

Code explanation ① Encoder ② Stroke ③ Applicable controller ④ Cable length ⑤ Options \*See page A-71 for details on push motion.

### ①Encoder Type/②Stroke

Actuator Specifications

	Standard price						
		①Encoder Type					
<pre>②Stroke (mm)</pre>	Incren	nental	Abso	olute			
	Motor Ou	itput (W)	Motor Ou	ıtput (W)			
	60W	60W 100W		100W			
50	_	_	_	_			
100	_	_	_	_			
150	_	_	_	_			
200	_	_	_	_			
250			_	_			
300	_	_	_	_			

(4)	Cabl	$\sim$	OB	ath
	Cau	ы	<u>5-111</u>	<u>. Ш</u>

Туре	Cable symbol	Standard Price
	<b>P</b> (1m)	_
Standard	<b>S</b> (3m)	_
	<b>M</b> (5m)	_
	<b>X06</b> (6m) ~ <b>X10</b> (10m)	_
Special length	<b>X11</b> (11m) ~ <b>X15</b> (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)	_

<sup>\*</sup> See page A-59 for cables for maintenance.

⑤ Options			
Name	Option code	See page	Standard price
Connector cable exit direction	A2	→ A-41	_
Brake	В	→ A-42	_
CE compliance	CE	→ A-42	_
Foot bracket	FT	→ A-49	_
High acceleration/deceleration (*1)	HA	→ A-50	_

(*1) The high-acceleration/deceleration o	ption is not av	ailable for all 60W m	nodels and 100V	/ model with 4mm lea

Actuator Specifications	
Item	Description
Drive System	Ball screw, ø12mm, rolled C10
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Guide	Double guide (guide rod diameter ø12mm, ball bush type)
Rod diameter	ø30mm
Non-rotating accuracy of rod	±0.08 deg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

#### **Dimensional Drawings**

# www.intelligentactuator.com

For Special Orders



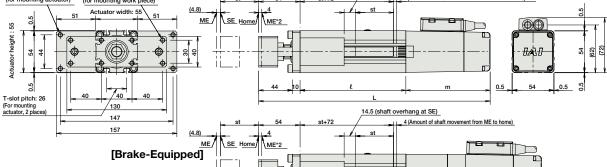




\*The RGD5C is not available in non-motor end configuration, due to its construction.

- (\*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
- (\*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects. ME: Mechanical end SE: Stroke end SE : Stroke end

[No Brake] 936 Details of the T-slot Cable joint Ĺ 14.5 (shaft overhang at SE) 8-M6 depth 15 (for mounting work piece) 4 (Amount of shaft movement from ME to home)



■ Dimensions and Weight by Stroke

RC52-RGD5C (Without brake)									
Stroke		50	100	150	200	250	300		
	60W	284	334	384	434	484	524		
	100W	302	352	402	452	502	552		
	l	138	188	238	288	338	388		
m	60W	92							
111	m 100W		110						
	Weight (kg)	2.7	3.0	3.4	3.8	4.2	5.5		

72.5

	KC2	ICS2-RGDSC (With brake)										
1		Stroke	50	100	150	200	250	300				
]		60W	356.5	406.5	456.5	506.5	556.5	606.5				
	-	100W	374.5	424.5	474.5	524.5	574.5	624.5				
1		l	138	188	238	288	338	388				
	m	60W	164.5									
1	m	100W			182	2.5						
1		Weight (kg)	3.0	3.3	3.7	4.1	4.5	5.8				
_												

## **3 Applicable Controllers**

RCS2-series actuators can be operated with the following controllers. Select an appropriate controller type according to your application.

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Referenc page
Positioner mode			Up to 512 positioning points are supported.	512 points				
Solenoid valve mode	1	SCON-CA-60①-NP-2-⑪ SCON-CA-100①-NP-2-⑪	Actuators can be operated through the same control used for solenoid valves.	7 points		214 VA may		→ P643
Field network type	IME/	SCON-CA-100()-NF-2-()	Movement by numerical specification is supported.	768 points	Single-phase 100VAC	*Power supply capacity will vary depending on the controller, so	-	7 7043
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC 3-phase		_	
Positioner multi-axis, network type	图数	MSCON-C-1-60①-②-0-⑪ MSCON-C-1-100①-②-0-⑪	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	200VAC (XSEL-P/Q/R/S ONLY)	please refer to the instruction manual for details.	_	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-60①-NP-2-⑪ SSEL-CS-1-100①-NP-2-⑪	Program operation is supported. Up to 2 axes can be operated.	20,000 points		uctans.	_	→ P685
Program control type, 1 to 8 axes	Pilled	XSEL1-60	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axes connected			_	→ P69

- \*This is for the single-axis MSCON, SSEL, and XSEL.

  \* ① indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V).

  \* ② indicates the power-supply voltage type (1: 100 V / 2: Single-phase 200V / 3: Three-phase 200V).

  \* ② indicates the power-supply voltage type (1: 100 V / 2: Single-phase 200V / 3: Three-phase 200V).