

 ϵ RoHS For High Acceleration/Deceleration *CE compliance is optional. (*1) Except all 60W models and 100W 4mm lead models Technical References (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. (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). . Notes or (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

Actuator Specifications

■ Leads and Payloads

Motor output (W)	Lead (mm)	Max. Loac Horizontal (kg)	Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)
	16	12.0	1.3	63.8	
60	8	25.0	4.3	127.5	
	4	50.0	10.8	255.1	50~300
	16	15.0	2.8	105.8	(every 50mm)
100	8	30.0	8.3	212.7	
	4	60.0	17.3	424.3	
	60 100	output (W) (mm) 16 60 8 4 16 100 8 4	output (W) (mm) Horizontal (kg) 60 8 25.0 4 50.0 16 15.0 8 30.0 4 60.0	output (W) (mm) Horizontal (kg) Vertical (kg) 60 8 25.0 4.3 4 50.0 10.8 16 15.0 2.8 100 8 30.0 8.3 4 60.0 17.3	output (W) (mm) Horizontal (kg) Vertical (kg) thrust (N) 60 8 25.0 4.3 127.5 4 50.0 10.8 255.1 100 8 30.0 8.3 212.7 4 60.0 17.3 424.3

■ Stroke and Maximum Speed

external force from any direction other than the forward/backward direction of the rod. See the technical resources (page A-111) for the allowable weight using the supplied guide alone.

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

(Unit: mm/s)

P.5

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

②Stroke (mm)	Standard price						
	①Encoder Type						
	Incren	nental	Absolute				
	Motor Output (W)		Motor Output (W)				
	60W	100W	60W	100W			
50	_	_	_	_			
100			_	_			
150	_	_	_	_			
200	_	_	_	_			
250			_	_			
300	_	_	_	_			

4 Cable Length

(4) See page A-71 for details on push motion.

Туре	Cable symbol	Standard Price
	P (1m)	_
Standard	S (3m)	_
	M (5m)	_
	X06 (6m) ~ X10 (10m)	_
Special length	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-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	_
Guide mounting direction	GS2~GS4	→ A-50	_
High acceleration/deceleration (*1)	HA	→ A-50	_

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

Actuator Specifications

ltem	Description
Drive System	Ball screw, ø12mm, rolled C10
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Guide	Single guide (guide rod diameter ø10mm, ball bush type)
Rod diameter	ø30mm
Non-rotating accuracy of rod	±0.1 deg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

For Special Orders

(72)

(62)

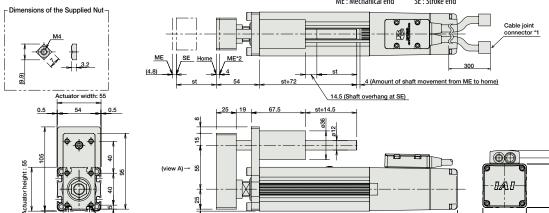
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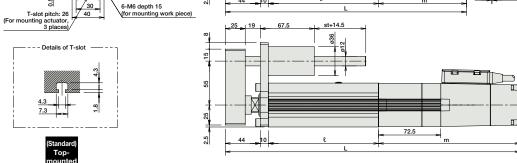
Dimensional Drawings

www.intelligentactuator.com

2D CAD 3D CAD *The RGS5C 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





■ Dimensions and Weight by Stroke

RCS2-RGS5C (without brake)

	itesz itesse (without bruite)								
	Stroke	50	100	150	200	250	300		
	60W	284	334	384	434	484	534		
L .	100W	302	352	402	452	502	552		
	l	138	188	238	288	338	388		
m	60W			9	2				
m 100W		110							
,	Weight (kg)	2.5	2.8	3.2	3.6	3.9	4.3		

PCS2-PGS5C (with brake)

1163	C32-NG33C (With blake)						
	Stroke		100	150	200	250	300
-	60W	356.5	406.5	456	506.5	556.5	606.5
_	100W	374.5	424.5	474.5	524.5	574.5	624.5
	l	138	188	238	288	338	388
m	60W	164.5					
m	100W	182.5					
	Weight (kg)	2.8	3.1	3.5	3.9	4.2	4.6

3 Applicable Controllers

Guide mounting direction (as viewed from view A)

GS3 Bottom

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page																						
Positioner mode			Up to 512 positioning points are supported.	512 points	Single-phase 100VAC																									
Solenoid valve mode		SCON-CA-60①-NP-2-⑪	Actuators can be operated through the same control used for solenoid valves.	7 points		*Power supply capacity will vary depending on the controller, so please refer to	_	. 0643																						
Field network type	ius/	SCON-CA-100①-NP-2-⑪	Movement by numerical specification is supported.	768 points			_	→ P643																						
Pulse-train input control type			Dedicated pulse-train input type	(—)	Single-phase 200VAC 3-phase		vary depending on the	vary depending on the	vary depending on the controller, so	_																				
Positioner multi-axis, network type	自然	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)		the instruction manual for	_	→ 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			_	→ P685																						
Program control type, 1 to 8 axes	Pilita	XSEL-@-1-60①-N1-EEE-2-® XSEL-@-1-100①-N1-EEE-2-®	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axes connected			_	→ P695																						

- *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).
- * \bigcirc indicates the encoder type (l: Incremental / A: Absolute). * \bigcirc indicates the XSEL type (J / K / P / Q / R / S). * \bigcirc indicates field network specification symbol.