Controllers Integrated

> Rod Type

Mini

Standard

Controllers Integrated

> Table/ /Arm Flat Type

Mini

Gripper/

Linear Servo

roon Typ

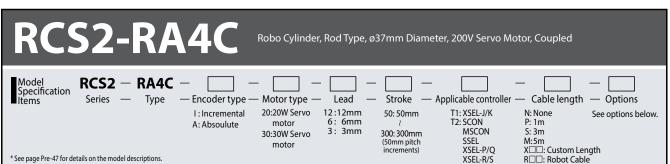
Splash-Proo Type

> Pulse Moto

Servo Motor (24V

Servo Motor (200V)

Linear Servo Motor



selection

*CE compliance is optional.

(1) When the stroke increases, from reaching the critical roto check the maximum spee

For High Acceleration/Deceleration

(*1) Except all 20W models and 30W 3mm 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 operation of the standard model at 0.3G (0.2G for 3mm-lead),

- and the high acceleration/deceleration model at 1G (excluding the 3mm-lead model). (Even when the acceleration/deceleration is dropped, the maximum load capacity values shown in the table below are the upper limits.
- (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.
- (4) See page A-71 for details on push motion.

Actuator Specifications

■ Leads and Payloads						
Model number	Motor output (W)	Lead (mm)	Max. Loac Horizontal (kg)	Capacity Vertical (kg)	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
RCS2-RA4C-①-30-12-②-③-④-⑤		12	4.0	1.5	28.3	(every 50mm)
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	

■ Stroke and Maximum Speed

Stroke Lead	50~300 (every 50mm)
12	600
6	300
3	150

(Unit: mm/s)

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

	Standard price					
②Stroke (mm)	①Encoder Type					
	Incremental		Absolute			
	Motor Ou	itput (W)	Motor Output (W)			
	20W	30W	20W	30W		
50	_	_	_	_		
100	_	_	_	_		
150	_	_	_	_		
200	_		_			
250	_		_			
300	_	_	_			

(5) Options

Name	Option code	See page	Standard price				
Brake	В	→ A-42	_				
CE compliance	CE	→ A-42	_				
Foot bracket	FT	→ A-49	_				
Flange bracket (front)	FL	→ A-45	_				
Flange bracket (back)	FLR	→ A-47	_				
High-acceleration/deceleration (*1)	HA	→ A-50	_				
Home sensor (*2)	HS	→ A-50	_				
Knuckle joint	NJ	→ A-53	_				
Non-motor end specification	NM	→ A-52	_				
Trunnion bracket (front)	TRF	→ A-57	_				
Trunnion bracket (back)	TRR	→ A-58	_				
(*1) The high-acceleration/deceleration option is not available for all 20W models and 30W model with 3mm lead. (*2) The home sensor (HS) cannot be used on the non-motor end models.							

Actuator Specifications	
ltem	Description
Drive System	Ball screw, ø10mm, rolled C10
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 temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

4 Cable Length

Standard Price Type Cable symbol 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) R06 (6m) ~ R10 (10m) **Robot Cable** R11 (11m) ~ R15 (15m) R16 (16m) ~ R20 (20m)

* See page A-59 for cables for maintenance.

www.intelligentactuator.com

For Special Orders



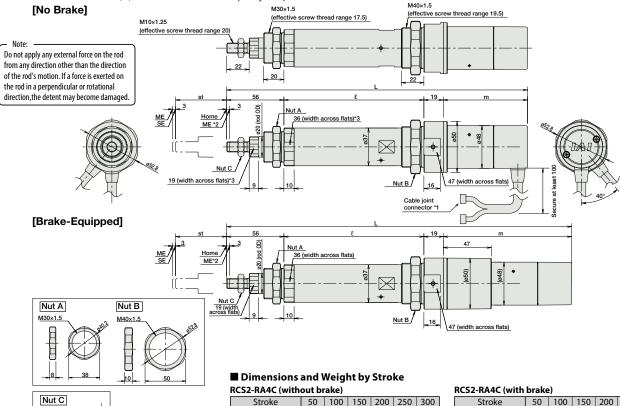




 (*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
 (*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.

SE: Stroke end ME : Mechanical end

(*3) The orientation of the bolt varies depending on the product.



	Stroke					300	
	20W	292.5	342.5	392.5	442.5	492.5	542.5
L	30W	307.5	357.5	407.5	457.5	507.5	557.5
	l	137	187	237	287	337	487
	20W	80.5					
Ш	m 30W			95	.5		
\	Weight (kg)	1.1	1.2	1.4	1.5	1.7	1.8

KC:	RC32-RA4C (With brake)									
	Stroke	50	100	150	200	250	300			
	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			
	l	137 187 237 287 337 48					487			
	20W	123.5								
1111	m 30W			13	8.5					
	Weight (kg) 1.3 1.5 1.6 1.7 1.9 2						2.0			
m	20W 30W	137	187	237 12: 13:	287 3.5 8.5	337	487			

③ Applicable Controllers

M10x1.25

(19.6)

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		100VAC *Power supply capacity will vary depending on the controller, so please refer to				
Solenoid valve mode	H	SCON-CA-20①-NP-2-⑪	Actuators can be operated through the same control used for solenoid valves.	7 points				→ P643		
Field network type		SCON-CA-30D①-NP-2-①	Movement by numerical specification is supported.	768 points			_	→ P043		
Pulse-train input control type			Dedicated pulse-train input type	(—)			_			
Positioner multi-axis, network type	開稿	MSCON-C-1-20①-(⑦-0-⑪) MSCON-C-1-30D①-(⑦-0-⑪)	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	200VAC (XSEL-P/Q/R/S		the instruction manual for	the instruction manual for	_	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-20①-NP-2-⑪ SSEL-CS-1-30D①-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-@-1-20①-N1-EEE-2-® XSEL-@-1-30D①-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).

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