$C \in$

RCA-RGD3C

Robo Cylinder, Rod Type with Double Guide, ø32mm Diameter, 24V Servo Motor, Coupled

Model Specification Items RCA -RGD3C-Series — Type

* See page Pre-47 for details on the model descriptions.

RoHS

— Encoder type — Motor type I: Incremental

* The Simple absolute

considered type "I".

encoder is also

Lead 20: 20W Servo motor

20

10: 10mm 5mm 2.5:2.5mm

200: 200mm

Stroke 50: 50mm

Applicable controller A1:ACON ASEL

A3:AMEC ASEP MSEP

P: 1m S: 3m M:5m X□□: Custom Length R□□: Robot Cable

N: None

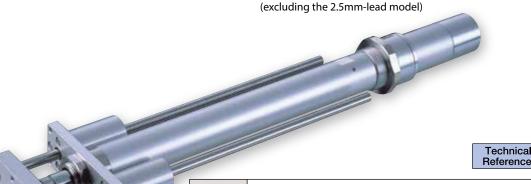
Cable length

Power-saving

— Options

See Options below.

For High Acceleration/Deceleration



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 2.5mm-lead), and 1G acceleration for the high-acceleration models (2.5mm-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 reflect the use of an external guide. 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.

Actuator Specifications

■ Leads and Payloads

Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)	Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)
RCA-RGD3C-I-20-10-①-②-③-④		10	4.0	1.2	36.2	
RCA-RGD3C-I-20-5-①-②-③-④	20	5	9.0	2.7	72.4	50~200 (every 50mm)
RCA-RGD3C-I-20-2.5-①-②-③-④		2.5	18.0	6.2	144.8	

■ Stroke and Maximum Speed Stroke Lead 500 10 2.5 125

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

(Unit: mm/s)

① Stroke

①Stroke (mm)	Standard price
50	_
100	_
150	_
200	

③ Cable Length

Type	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)	
Robot Cable	R04 (4m) ~ R05 (5m)	_
	R06 (6m) ~ R10 (10m)	_
	R11 (11m) ~ R15 (15m)	_
	R16 (16m) ~ R20 (20m)	

^{*} See page A-59 for cables for maintenance.

4) Options			
Name	Option code	See page	Standard price
Brake	В	→ A-42	_
Foot bracket	FT	→ A-49	_
High-acceleration/deceleration (*1)	HA	→ A-50	_
Home sensor (*2)	HS	→ A-50	_
Power-saving (*3)	LA	→ A-52	_
Non-motor end specification	NM	→ A-52	_
Trunnion bracket (back)	TRR	→ A-58	_

(*1) The high-acceleration/deceleration option is not available for 2.5mm-lead model.
(*2) The home sensor (HS) cannot be used on the non-motor end models.
(*3) The high-acceleration/deceleration option and the power-saving option cannot be used simultaneously.

RCA-RGD3C

Actuator Specifications

Description
Ball screw, ø8mm, rolled C10
±0.02mm
0.1mm or less
Single guide (guide rod diameter ø8mm, Ball bush type)
ø16mm
±0.05 deg
0 to 40°C, 85% RH or less (Non-condensing)

For Special Orders

P.15

www.intelligentactuator.com

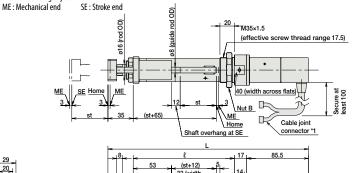


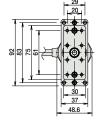
Dimensional Drawings



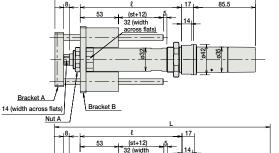
- (*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
 (*2) After homing, the slider moves to the ME, therefore, please watch for any interference
 - with surrounding objects.





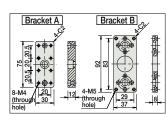


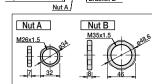






[Brake-Equipped]





Bracket A

■ Dimensions and Weight by Stroke

DCA DCDDC (•	
RCA-RGD3C (wit	nout b	rake)		
Stroke	50	100	150	200
L	277.5	327.5	377.5	427.
Ł	140	190	240	290
Weight (kg)	1.1	1.2	1.4	1.5

	RCA-	RGD30	(with	brake
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RCA-RGD3C (With brake)						
Stroke	50	100	150	200		
L	316.5	366.5	416.5	466.5		
l	140	190	240	290		
Weight (kg)	1.3	1.4	1.6	1.7		

② Applicable Controllers

RCA series actuators can be operated with the controllers indicated below. Select the type according to your intended application. * ACON-CY also can be used.

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power-supply capacity	Standard price	Reference page
Calanaid Valua Tura	The state of the s	AMEC-C-20SI()-())-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537
Solenoid Valve Type	1	ASEP-C-20SI①-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points	pints		_	→ P547
Solenoid valve multi-axis type PIO specification	lune I	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected					, DEC2
Solenoid valve multi-axis type Network specification	iiii j	MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points			_	→ P563
Positioner type	E	ACON-C-20SI()-())-2-0	Positioning is possible for up to 512	512 points	DC24V (Power-savin 1.7A rated 3.4A max.	(Power-saving) 1.7A rated	_	
Safety-Compliant Positioner Type		ACON-CG-20SI①-①-2-0	points				_	
Pulse Train Input Type (Differential Line Driver)	C.	ACON-PL-20SI①	Pulse train input type with differential line driver support				_	→ P631
Pulse Train Input Type (Open Collector)	ė	ACON-PO-20SI ①- ①-2-0	Pulse train input type with open collector support				_	
Serial Communication Type		ACON-SE-20SI①-N-0-0	Dedicated Serial Communication	64 points			_	
Program Control Type		ASEL-CS-1-20SI①-①-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points			_	→ P675
	N France			' '				→ P675

- *This is for the single-axis ASEL.
 * (II) indicates I/O type (NP/PN).
- * Enter the code "HA" or "LA" in ① when the high-acceleration/deceleration option or the power-saving option is specified.
 * ⑩ indicates number of axes (1 to 8).
 * ⑩ indicates field network specification symbol.