[C E]

RCA-RGD3D

Robo Cylinder, Rod Type with Double Guide, ø32mm Diameter, 24V Servo Motor, Built-In Model

Model Specification Items RCA -RGD3D-

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

Series — Type I: Incremental

encoder is also

considered type "I".

20 — Encoder type — Motor type 20: 20W Servo * The Simple absolute motor

Lead 10: 10mm 5mm 2.5:2.5mm

Stroke 50: 50mm 200: 200mm

(50mm pitch increments)

Applicable controller A1:ACON ASEL A3:AMEC

ASEP MSEP N: None P: 1m S: 3m

M:5m X□□: Custom Length R□□: Robot Cable

Cable length



Technical References



— Options

Power-saving

See Options below.

(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 at an acceleration of 0.3G (0.2G for 2.5mm-lead model). These values are the upper limits for the acceleration.

(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. Loac Horizontal (kg)	Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)
RCA-RGD3D-I-20-10-①-②-③-④		10	4	1.2	36.2	
RCA-RGD3D-I-20-5-①-②-③-④	20	5	9	2.7	72.4	50~200 (every 50mm)
RCA-RGD3D-I-20-2.5-①-②-③-④		2.5	18	6.2	144.8	
Code symbological O Stypica O Applicable controller O Coble legath O Options 75						

■ Stroke and Maximum Speed

= 5ti one and maximum speed						
Stroke Lead	50~200 (every 50mm)					
10	500					
5	250					
2.5	125					

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

Notes or

(Unit: mm/s)

① Stroke

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

③ Cable Length

Туре	Cable symbol	Standard Price		
	P (1m)	_		
Standard	S (3m)	_		
	M (5m)	_		
Special length	X06 (6m) ~ X10 (10m)	_		
	X11 (11m) ~ X15 (15m)	_		
	X16 (16m) ~ X20 (20m)	_		
Robot Cable	R01 (1m) ~ R03 (3m)	_		
	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 See page | Standard price Option code Foot bracket → A-49 Home sensor HS → A-50 Power-saving LA → A-52 Non-motor end specification NM → A-52 Trunnion bracket (back) TRR → A-58

Actuator Specifications	
ltem	Description
Drive System	Ball screw, ø8mm, rolled C10
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Guide	Double guide (guide rod diameter ø8mm, Ball bush type)
Rod diameter	ø16mm
Non-rotating accuracy of rod	±0.05 deg
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

^{*}The home sensor (HS) cannot be used on the non-motor end models

CAD drawings can be downloaded www.intelligentactuator.com

For Special Orders



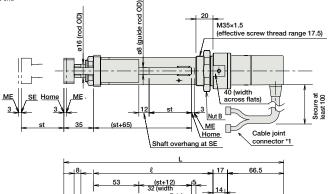


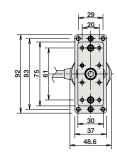
(*1) Connect the motor and encoder cables here. See page A-59 for details on cables.

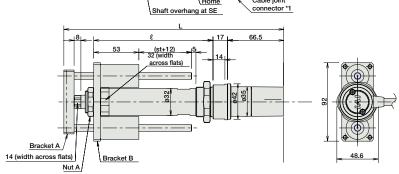
(*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.

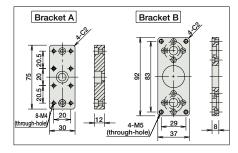
ME: Mechanical end SE: Stroke end

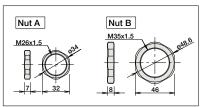
[No Brake]











■ Dimensions and Weight by Stroke RCA-RGD3D (without brake)

mer messe (minious siume)							
Stroke	50	100	150	200			
L	258.5	308.5	358.5	408.5			
l	140	190	240	290			
Weight (kg)	1.1	1.2	1.4	1.5			

RCA-RGD3D models are not equipped with a brake.

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	
Solenoid Valve Type	The state of the s	AMEC-C-20SI()-())-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	_	→ P537	
	1	ASEP-C-20SI①-①-2-0	Simple controller operable with the same signal as a solenoid valve	3 points			_	→ P547	
Solenoid valve multi-axis type PIO specification		MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected				, DEC2		
Solenoid valve multi-axis type Network specification		MSEP-C	Field network-ready positioner type, allowing up to 8 axes to be connected	256 points	DC24V	(Standard) 1.7A rated 5.1A max. (Power-saving) 1.7A rated 3.4A max.			→ P563
Positioner type	I	ACON-C-20SI①-⑪-2-0	Positioning is possible for up to 512	512 points			_		
Safety-Compliant Positioner Type		ACON-CG-20SI①-①-2-0	points				_		
Pulse Train Input Type (Differential Line Driver)		ACON-PL-20SI①	Pulse train input type with differential line driver support	(—)			_	→ P631	
Pulse Train Input Type (Open Collector)		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-1-20SI①-⑪-2-0	Programmed operation is possible. Can operate up to 2 axes	1,500 points	vints		_	→ P675	
Program		ASEL-CS-1-20SI①	Programmed operation is possible.	1,500 points	1/0 h	(AID (DAI)	_	→ P675	

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

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