RCA-RGS3D Robo Cylinder, Rod Type with Single Guide, ø32mm Diameter, 24V Servo Motor, Built-In Model Model Specification Items RCA -RGS3D-20 Series — Type — Encoder type — Motor type Lead Stroke Applicable controller Cable length — Options A1:ACON N: None P: 1m I: Incremental 20: 20W Servo 10: 10mm 50: 50mm See Options below. * The Simple absolute motor 5: 5mm ASEL 2.5:2.5mm S: 3m 200: 200mm A3:AMEC encoder is also M:5m X□□: Custom Length R□□: Robot Cable (50mm pitch increments) ASEP considered type "I".



Actuator Specifications								
■ Leads and Payloads ■ Stroke and Maximum Speed								
Model number	Motor output (W)	Lead (mm)	Max. Load Horizontal (kg)	Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)	Stroke Lead	50~200 (every 50mm)
RCA-RGS3D-I-20-10-①-②-③-④		10	4.0	1.2	36.2		10	500
RCA-RGS3D-I-20-5-①-②-③-④	20	5	9.0	2.7	72.4	50~200 (every 50mm)	5	250
RCA-RGS3D-I-20-2.5-①-②-③-④		2.5	18.0	6.2	144.8		2.5	125
Code explanation (1) Stroke (2) Applicable controller (3) Cable length (4) Options (See page A-7) for details on push motion (Unit: n								

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

③ Cable Length						
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)	_				
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			
Foot bracket	FT	→ 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	_			
* The home sensor (HS) cannot be used on the non-motor and models						

Actuator Specifications					
Item	Description				
Drive System	Ball screw, ø8mm, rolled C10				
Positioning Repeatability	±0.02mm				
Lost Motion	0.1mm or less				
Guide	Single 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)				

Dimensional Drawings

www.intelligentactuator.com

For Special Orders

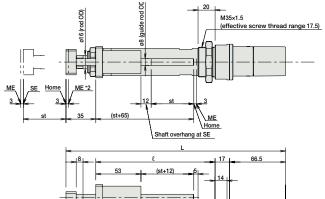


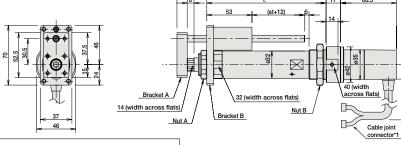


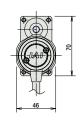
 (*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
 (*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.

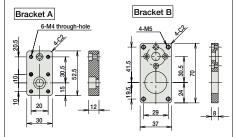
ME: Mechanical end SE: Stroke end

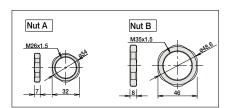
[No Brake]











■ Dimensions and Weight by Stroke RCA-RGS3D (without brake)

The state of the s							
Stroke	50	100	150	200			
L	258.5	308.5	358.5	408.5			
l	140	190	240	290			
Weight (kg)	0.9	1.1	1.2	1.3			

RCA-RGS3D 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	
C. I IVI . T	No.	AMEC-C-20SI①-⑪-2-1	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			_	→ P547	
Solenoid valve multi-axis type PIO specification	lune.	MSEP-C	Positioner type based on PIO control, allowing up to 8 axes to be connected			(Standard) 1.7A rated 5.1A max. (Power-saving) 1.7A rated 3.4A max.	_	→ P563	
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			7 7503	
Positioner type		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				_	→ P631	
Pulse Train Input Type (Differential Line Driver)	Ē.	ACON-PL-20SI①-⑪-2-0	Pulse train input type with differential line driver support	(—)			_		
Pulse Train Input Type (Open Collector)	ě	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			_	→ P675	

*This is for the single-axis ASEL.
* (II) indicates I/O type (NP/PN).

*Enter the code "LA" in ① when the power-saving specification is specified.
*⑩ indicates number of axes (1 to 8).
*⑫ indicates field network specification symbol.