

RCA-RA4C

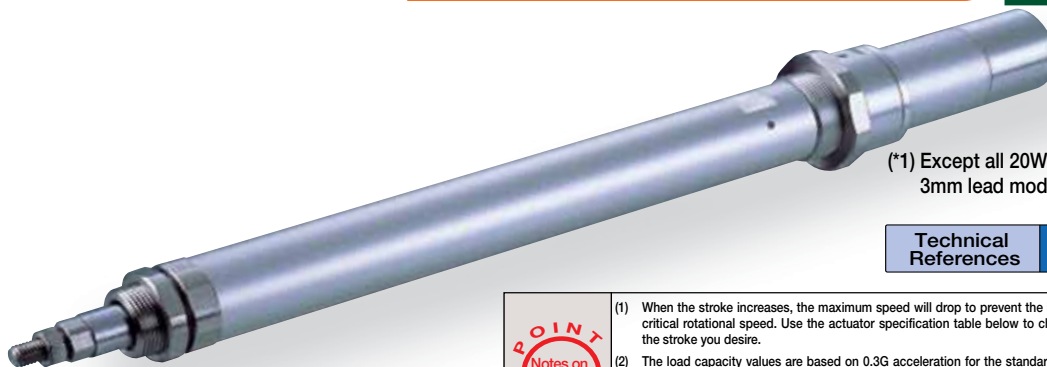
ROBO Cylinder Rod Type ø37mm Diameter 24V Servo Motor Coupled

■ Configuration:	RCA	RA4C								
Series	Type	Encoder	Motor	Lead	Stroke	Compatible Controllers	Cable Length	Option		
		I : Incremental A : Absolute	20 : 20W Servo Motor 30 : 30W Servo Motor	12 : 12mm 6 : 6mm 3 : 3mm	50 : 50mm 300 : 300mm (50mm pitch increments)	A1 : ACON RACON ASEL A3 : AMEC ASEP	N : None P : 1m S : 3m M : 5m X □ : Custom R □ : Robot cable	See Options below		

* The absolute models are only compatible with ASEL
Simple absolute encoders are considered incremental
* See page Pre-35 for an explanation of the naming convention.

For High Acceleration/Deceleration

Power-saving



(*1) Except all 20W models and 30W 3mm lead models

Technical References P. A-5



- (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 values are based on 0.3G acceleration for the standard and power-saving models (0.2G for 3mm-lead), and 1G acceleration for the high-acceleration models (3mm-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 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.

Actuator Specifications

Lead and Load Capacity

Model	Motor Output (W)	Lead (mm)	Max. Load Capacity Horizontal (kg) Vertical (kg)	Rated Thrust (N)	Stroke (mm)
RCA-RA4C-①-20-12-②-③-④-⑤	20	12	3.0 1.0	18.9	50~300 (50mm increments)
RCA-RA4C-①-20-6-②-③-④-⑤		6	6.0 2.0	37.7	
RCA-RA4C-①-20-3-②-③-④-⑤		3	12.0 4.0	75.4	
RCA-RA4C-①-30-12-②-③-④-⑤	30	12	4.0 1.5	28.3	
RCA-RA4C-①-30-6-②-③-④-⑤		6	9.0 3.0	56.6	
RCA-RA4C-①-30-3-②-③-④-⑤		3	18.0 6.5	113.1	

Legend ① Encoder ② Stroke ③ Compatible controller ④ Control length ⑤ Options

Stroke and Maximum Speed

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

(Unit: mm/s)

Encoder & Stroke List

② Stroke (mm)	Standard Price			
	① Encoder			
	Incremental		Absolute	
	Motor Output (W)		Motor Output (W)	
	20W	30W	20W	30W
50	-	-	-	-
100	-	-	-	-
150	-	-	-	-
200	-	-	-	-
250	-	-	-	-
300	-	-	-	-

④ Cable List

Type	Cable Symbol	Standard Price
Standard	P (1m)	-
	S (3m)	-
	M (5m)	-
Special Lengths	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-39 for cables for maintenance.

⑤ Option List

Name	Option Code	See Page	Standard Price
Brake	B	→ A-25	-
Foot bracket	FT	→ A-29	-
Flange bracket (front)	FL	→ A-27	-
Flange bracket (back)	FLR	→ A-28	-
High-acceleration/deceleration (*1)	HA	→ A-32	-
Home sensor (*2)	HS	→ A-32	-
Power-saving (*3)	LA	→ A-32	-
Knuckle joint	NJ	→ A-34	-
Reversed-home	NM	→ A-33	-
Trunnion bracket (front)	TRF	→ A-38	-
Trunnion bracket (back)	TRR	→ A-38	-

(*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 reversed-home models.

(*3) The high acceleration/deceleration option and the power-saving option cannot be used simultaneously.

Actuator Specifications

Item	Description
Drive System	Ball screw ø10mm C10 grade
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 Temp./Humidity	0~40°C, 85% RH or less (non-condensing)

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