

Rod Type
Mini
Standard
Table/Arr
//Flat Typ
Mini
Standard

#### ROBO Cylinder Rod Type ø32mm Diameter 24V Servo Motor Coupled **RCA** RA<sub>3</sub>C 20 ■ Configuration: Cable Length Туре N: None P:1m S:3m M:5m I: Incremental \* The Simple absolute encoder 10: 10mm 5: 5mm 20 : 20W Servo 50:50mm A1:ACON See Options below RACON Motor 2.5 : 2.5mm 200 : 200mm ASEL A3:AMEC (50mm pitch ASEP \* See page Pre-35 for an explanation of the naming convention.

# For High Acceleration/Deceleration

Power-saving

Cable Symbol

R11 (11m) ~ R15 (15m) R16 (16m) ~ R20 (20m)

X10 (10m)

X15 (15m)

X20 (20m)

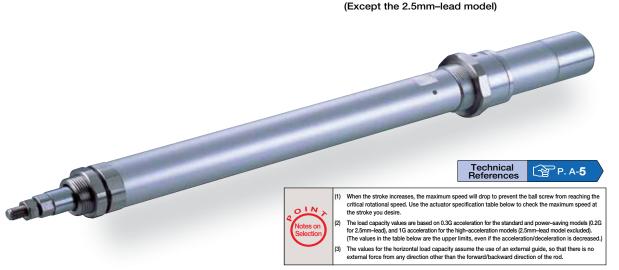
R03 (3m)

R05 (5m)

R10 (10m)

(Unit: mm/s)

Standard Price



Actuator Specifications									
■ Lead and Load Capacity ■ Stroke and Maximum Speed									
Model	Motor	Lead	Max. Load	I Capacity	Rated	Stroke	Stroke	$50\sim 200$	
	Output (w)	(mm)	Horizontal (kg)	Vertical (kg)	Thrust (N)	(mm)	Lead	(50mm increments)	
RCA-RA3C-I-20-10-10-2 -3-4		10	4.0	1.5	36.2		10	500	
110A-11A30-1-20-10-[[]-[2]-[3]-[4]		10	4.0	1.5	30.2	FO 000	10	300	
RCA-RA3C-I-20-5-10-2-3-4	20	5	9.0	3.0	72.4	50~200 (50mm	5	250	
HOA TIAGO I 20 O O O O	20		0.0	0.0	, 2	increments)	- O	200	
RCA-RA3C-I-20-2.5-1 -2 -3 -4			2.5	18.0	6.5	144.8	1	2.5	125
110K 18100 1 20 2.0 [0] [2] [0] [0]				0.0			2.0	120	
Legend ①Stroke ②Compatible controllers ③Cable length ④Options (UI									

# ① Stroke List

Stroke (mm)	Standard Price
50	-
100	-
150	-
200	-

④ Option List							
Name	Option Code	See Page	Standard Price				
Brake	В	→ 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	→ <b>Δ</b> _32	_				

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Brake	В	→ 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	-	

- (\*1) The high-acceleration/deceleration option is not available for 2.5mm-lead model.
  (\*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.

## TRF TRR → A–38

Item	Description			
Drive System	Ball screw ø8mm C10 grade			
Positioning Repeatability	±0.02mm			
Lost Motion	0.1mm or less			
Base	Material: Aluminum (white alumite treated)			
Rod Diameter	ø16mm			
Non-rotating accuracy of rod	±1.0 deg			
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)			

**P** (1m)

**S** (3m) X06 (6m)

X11 (11m)

X16 (16m)

R01 (1m)

R04 (4m)

R06 (6m)

\* See page A-39 for cables for maintenance.

3 Cable List

Type

Standard

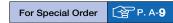
Special Lengths

Robot Cable

Actuator Specifications

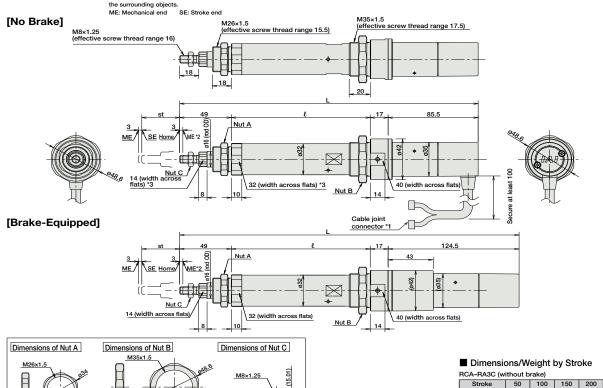
Trunnion bracket (front)

Trunnion bracket (back)



A motor-encoder cable is connected here. See page A-39 for details on cables. When homing, the rod moves to the ME; therefore, please watch for any interference with

\*3. The orientation of the bolt will vary depending on the product.



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	L	283.5	333.5	383.5	433.5		
	l	132	182	232	282		
	Weight (kg)	0.7	0.8	0.9	1.0		
RCA-RA3C (with brake)							
	Stroke	50	100	150	200		
	L	322.5	372.5	422.5	472.5		
	l	132	182	232	282		
	Weight (kg)	0.9	1.0	1.1	1.2		

### ② Compatible Controllers The RCA series actuators can operate with the controllers below. Select the controller according to your usage. AC100V → P477 2.4A rated AMEC-C-20SI ① -NP-2-1 Easy-to-use controller, even for beginners Solenoid Valve Type 1 ASEP-C-20SI ① -NP-2-0 Operable with same signal as solenoid valve. Supports both single and double solenoid types No homing necessary with simple absolute type → P487 Splash-Proof Solenoid Valve Type ASEP-CW-20SI ① -NP-2-0 \_ ACON-C-20SI ① -NP-2-0 Positioner Type Positioning is possible for up to 512 points 512 points Safety-Compliant Positioner Type ACON-CG-20SI ① -NP-2-0 Pulse Train Input Type (Differential Line Driver) Pulse train input type with differential line driver support 1.7A rated 5.1A peak → P535 ACON-PL-20SI ① -NP-2-0 DC24V (-) Pulse Train Input Type (Open Collector) Pulse train input type with open collector support ACON-PO-20SI ① -NP-2-0 Serial Communication Type ACON-SE-20SI 1 -N-0-0 Dedicated to serial communication 64 points Dedicated to field network Field Network Type RACON-20S① 768 points → P503 Programmed operation is possible Operation is possible on up to 2 axes Program Control Type ASEL-C-1-20SI ① -NP-2-0 1500 points → P567 \* This is for the single-axis ASEL. \* ① is a placeholder for the code "HA" or "LA" if the high acceleration/deceleration option or the power-saving option is specified.

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RCA-RA3C 198



Controllers Integrated

Rod
Type

Mini

Standard

Controllers
Integrated

PMEC AMEC PSEP ASEP ASEP ACON SCON PSEL ASEL