RCA2-TCA3N ROBO Cylinder Mini Table Type Short-Length Compact Model 32mm Width 24V Servo Motor Lead Screw ■ Configuration: RCA2- TCA3N -30 I: Incremental
* The simple 10: 10W Servo 4S: 4mm lead screw 30: 30mm A1: ACON N: None K2: Connector cable motor 2S: 2mm lead screw RACON P:1m exit direction absolute encoder ASEL S : 3m LA: Power-saving 1S: 1mm lead screw is also considered type "I". A3: AMEC M : 5m ASEP X □□: Custom * See page Pre-35 for an explanation of the naming convention.

(1) The load capacity is based

Power-saving

Technical References



The load capacity is based on operation at an acceleration of 0.2G.
 This is the upper limit of the acceleration.

e) This model uses a Lead screw, therefore please ensure that your usage is appropriate for its characteristics. (See page Pre-42 for more information.)

Actuator Specifications ■ Lead and Load Capacity ■ Stroke and Maximum Speed Model Stroke (mm) (mm) RCA2-TCA3N-I-10-4S-30-1-2-3 0.25 25.1 200 4 0.125 4 screw Lead 30 RCA2-TCA3N-I-10-2S-30-1 - 2 - 3 10 2 0.5 0.25 50.3 ±0.05 2 100 Lead : (Fixed) RCA2-TCA3N-I-10-1S-30-1 -2 -3 1 1 0.5 100.5 1 50 (Unit: mm/s) Legend ① Compatible controller ② Cable length ③ Options

Stroke List	
Stroke (mm)	Standard Price
30	-

(2) Cable List				
Cable Symbol	Standard Price			
P (1m)	_			
S (3m)	-			
M (5m)	-			
X06 (6m) ~ X10 (10m)	-			
X11 (11m) ~ X15 (15m)	-			
X16 (16m) ~ X20 (20m)	-			
	Cable Symbol P (1m) S (3m) M (5m) X06 (6m) ~ X10 (10m) X11 (11m) ~ X15 (15m)			

- * The RCA2 comes standard with a robot cable.
- * See page A-39 for cables for maintenance.

③ Option List					
Name	Option Code	See Page	Standard Price		
Connector cable exit direction	K2	→ A-32	-		
Power-saving	LA	→ A-32	-		

Actuator Specifications					
Item	Description				
Drive System	Lead screw ø4mm C10 grade				
Lost Motion	0.3mm or less (initial value)				
Frame	Material: Aluminum (white alumite treated)				
Allowable Dynamic Moment (Note)	Ma: 9.9 N·m Mb: 9.9 N·m Mc: 3.3 N·m				
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)				
Service Life	Horizontal: 10 million cycles Vertical: 5 million cycles				
(Note) Record on a F 000 km consists life act for the guide					

(Note) Based on a 5,000 km service life set for the guide.

Slider Type

Standard

Rod Type

Min

Controllers Integrated

/Flat Type

Mini

Gripper/ Rotary Type

Туре

Cleanroom Type

μιαστι τ του

Controllers

PSEP /ASEP

NET

PCON

PSEL

005

Pulse Motor

(24V)

Servo Motor (200V)

Lineaı Servo Motoı



Dimensions

CAD drawings can be downloaded from IAI website. www.intelligentactuator.com

For Special Orders

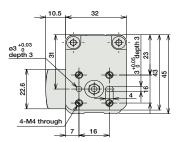


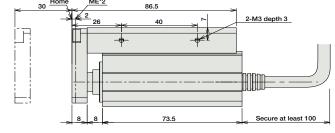


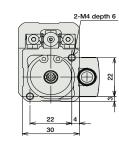


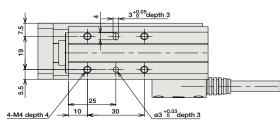
- *1 The motor-encoder cable is connected here. See page A-39 for details on cables.
 - When homing, the table moves to the mechanical end; therefore, please watch for any interference with the surrounding objects.

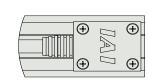
(300)ME: Mechanical end Cable joint connector*1 SE: Stroke end ø3^{+0.03}depth 3 0 -0 0 0 ___0 3^{+0.05}depth 3 4-M4 depth 5.5











Connector cable exit direction (Model: K2) * Rotates 180° with respect to standard model.

■ Dimensions/Weight by Stroke

- Dimensions/Weight by Ottoke				
Stroke	30			
Weight (kg)	0.37			

① Compatible Controllers

The RCA2 serie	The RCA2 series actuators can operate with the controllers below. Select the controller according to your usage.							
Name	External View	Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity	Standard Price	See Page
Solenoid Valve Type	AT .	AMEC-C-10I①-NP-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P477
Soletiold valve Type	1	ASEP-C-10I①-NP-2-0	Operable with same signal as solenoid valve. Supports both single and double solenoid types. No homing necessary with simple absolute type.	3 points			-	→ P487
Splash-Proof Solenoid Valve Type	P	ASEP-CW-10I①-NP-2-0					-	→ P487
Positioner Type		ACON-C-10I①-NP-2-0	Positioning is possible for up to 512 points	512 points			-	
Safety-Compliant Positioner Type		ACON-CG-10I①-NP-2-0	rositioning is possible for up to 312 points	512 points		(Standard) 1.3A rated	-	
Pulse Train Input Type (Differential Line Driver)		ACON-PL-10I①-NP-2-0	Pulse train input type with differential line driver support	(-)	DC24V	4.4A max. (Power-saving)	-	→ P535
Pulse Train Input Type (Open Collector)		ACON-PO-10I①-NP-2-0	Pulse train input type with open collector support	(-)		1.3A rated 2.5A max.	-	
Serial Communication Type		ACON-SE-10I①-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RACON-10①	Dedicated to field network	768 points			-	→ P503
Program Control Type		ASEL-C-1-10I①-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P567

Table/Arm /Flat Type

^{*} This is for the single-axis ASEL.
* ① is a placeholder for the code "LA" if the power-saving option is specified.