

# RCA2-TFA4N

ROBO Cylinder Mini Table Type Short-Length Flat Model 71mm Width  
24V Servo Motor Ball Screw/Lead Screw Models

■ Configuration: **RCA2** — **TFA4N** — **I** — **20** —  — **30** —  —  —

Series — Type — Encoder — Motor — Lead — Stroke — Compatible Controllers — Cable Length — Option

I: Incremental  
\* The simple absolute encoder is also considered type "I".

20: 20W Servo motor

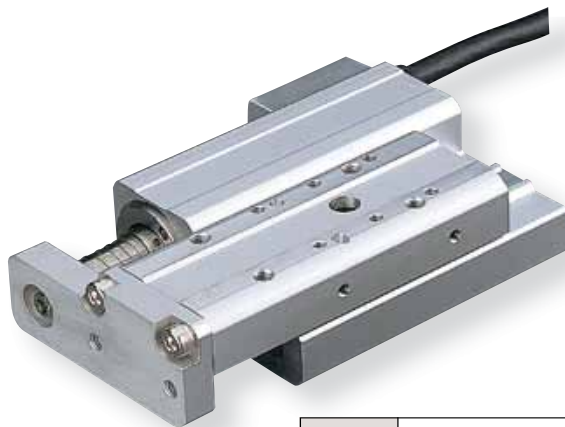
6: 6mm ball screw  
4: 4mm ball screw  
2: 2mm ball screw  
6S: 6mm lead screw  
4S: 4mm lead screw  
2S: 2mm lead screw

A1: ACON  
RACON  
ASEL  
A3: AMEC  
ASEP

N: None  
P: 1m  
S: 3m  
M: 5m  
X   : Custom

K2: Connector cable exit direction  
LA: Power-saving

\* See page Pre-35 for an explanation of the naming convention.



**Power-saving**

**Technical References** P. A-5

**4 POINT Notes on Selection**

- (1) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 2mm-lead model, or when used vertically). This is the upper limit of the acceleration.
- (2) When using the Lead screw model, please ensure that your usage is appropriate for its characteristics. (See page Pre-42 for more information.)

Actuator Specifications										
■ Lead and Load Capacity										
Model	Motor Output (W)	Feed Screw	Lead (mm)	Max. Load Capacity		Rated Thrust (N)	Positioning Repeatability (mm)	Stroke (mm)	Stroke and Maximum Speed	
				Horizontal (kg)	Vertical (kg)				Lead	30 (mm)
RCA2-TFA4N-I-20-6-30-①-②-③	20	Ball screw	6	2	0.5	33.8	±0.02	30 (Fixed)	Ball screw	270 <220>
RCA2-TFA4N-I-20-4-30-①-②-③			4	3	0.75	50.7				200
RCA2-TFA4N-I-20-2-30-①-②-③			2	6	1.5	101.5				100
RCA2-TFA4N-I-20-6S-30-①-②-③	20	Lead screw	6	0.25	0.125	19.9	±0.05	30 (Fixed)	Lead screw	220
RCA2-TFA4N-I-20-4S-30-①-②-③			4	0.5	0.25	29.8				200
RCA2-TFA4N-I-20-2S-30-①-②-③			2	1	0.5	59.7				100

Legend ① Compatible controller ② Cable length ③ Options

\* The values enclosed in "< >" apply to vertical usage. (Unit: mm/s)

Stroke List		
Stroke (mm)	Standard Price	
	Feed Screw	
	Ball Screw Model	Lead Screw Model
30	-	-

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

\* 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	Ball screw/Lead screw ø6mm C10 grade
Lost Motion	Ball screw: 0.1mm or less/Lead screw: 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) Based on a 5,000 km service life set for the guide.

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