

RCA2-TA5R

ROBO Cylinder Table Type Side-Mounted Motor 55mm Width 24V Servo Motor Ball Screw

■ Configuration: **RCA2** — **TA5R** — **I** — **20** — — — — —

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

10 : 10mm
5 : 5mm
2.5 : 2.5mm

25: 25mm
100: 100mm (25mm pitch increments)

A1: ACON
RACON
ASEL
A3: AMEC
ASEP

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

See Options below
* Be sure to specify which side the motor is to be mounted (ML/MR).

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

Power-saving



Technical References P. A-5



- (1) Please note that the maximum speed is different when used horizontally versus vertically.
- (2) The load capacity is based on operation at an acceleration of 0.3G (0.2G for the 2.5mm-lead model, or when used vertically). This is the upper limit of the acceleration.

Actuator Specifications					
■ Lead and Load Capacity					
Model	Motor Output (W)	Lead (mm)	Max. Load Capacity		Stroke (mm)
			Horizontal (kg)	Vertical (kg)	
RCA2-TA5R-I-20-10-①-②-③-④	20	10	2	1	34
RCA2-TA5R-I-20-5-①-②-③-④		5	3.5	2	68
RCA2-TA5R-I-20-2.5-①-②-③-④		2.5	5	3	137

Legend: ① Stroke ② Compatible controller ③ Cable length ④ Options

■ Stroke and Maximum Speed	
Stroke Lead	25 ~ 100 (25mm increments)
10	465 <400>
5	250
2.5	125

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

① Stroke List	
Stroke (mm)	Standard Price
25	-
50	-
75	-
100	-

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

* The standard cable is the motor-encoder integrated robot cable.
* See page A-39 for cables for maintenance.

④ Option List			
Name	Option Code	See Page	Standard Price
Brake	B	→ A-25	-
Cable exit direction (Top)	CJT	→ A-25	-
Cable exit direction (Outside)	CJO		-
Cable exit direction (Bottom)	CJB		-
Power-saving	LA	→ A-32	-
Left-mounted Motor (Standard)	ML	→ A-33	-
Right-mounted motor	MR	→ A-33	-
Reversed-home	NM	→ A-33	-

Actuator Specifications	
Item	Description
Drive System	Ball screw ø8mm C10 grade
Positioning Repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum (special alumite treated)
Allowable Static Load Moment	Ma: 25.5 N·m Mb: 36.5 N·m Mc: 56.1 N·m
Allowable Dynamic Load Moment	Ma: 6.57 N·m Mb: 9.32 N·m Mc: 14.32 N·m
Overhang Load Length	Within the load moment range
Ambient Operating Temp./Humidity	0~40°C, 85% RH or less (non-condensing)

Directions of Allowable Load Moments



5,000 km service life

