■ Configuration:

Mini
Standard
Controllers
Integrated

Rod
Type

Mini
Standard
Controllers
Integrated

Table/Arm
/Flat Type

Mini
Standard

Gripper/
Rotary Type

Type

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

RCA2- TA5R-20 Compatible Controlle Encoder Motor Lead Stroke 20: 20W Servo

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

motor

10:10mm 5:5mm

25: 25mm 100: 100mm (25mm pitch

Cable Length A1: ACON N : None RACON P:1m ASEL A3: AMEC M:5m ASEP X □□: Custom

Option See Options below

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

Power-saving



Technical References





- (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 Max. Load Capacity
Horizontal (kg) Vertical (kg) Thrust (N) RCA2-TA5R-I-20-10-10-2-3-4 RCA2-TA5R-I-20-5-①-②-③-④ RCA2-TA5R-I-20-2.5-1-2-3-4

RCA2-TA5R-I-20-10-①-②-③-④		10	2	1	34	05 400
RCA2-TA5R-I-20-5-①-②-③-④		5	3.5 2 68 (25mr	25~100 (25mm increments)		
RCA2-TA5R-I-20-2.5-①-②-③-④		2.5	5	3	137	increments)
Legend: ① Stroke ② Compatible controller ③ Cable length	0 4 Opt	ions				

Stroke and Maximum Speed

Stroke	$25\sim 100$ (25mm increments)			
10	465 <400>			
5	250			
2.5	125			
* The values enclosed	in "< >" apply to vertical usage. (Unit: mm/s			

1 Stroke List

U Otroke Ek	
Stroke (mm)	Standard Price
25	_
50	-
75	-
100	_

③ Cable List

	Туре	Cable Symbol	Standard Price
Standard Type	P (1m)	_	
	(Robot Cables)	S (3m)	-
		M (5m)	-
1	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	В	→ A-25	-
Cable exit direction (Top)	CJT		
Cable exit direction (Outside)	CJO	→ A-25	_
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





Controllers Integrated

Rod Type

Mini

Standard

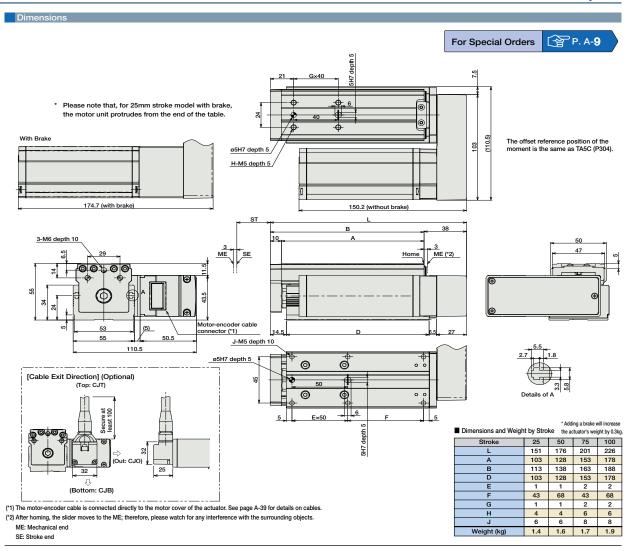
Controllers Integrated

Table/Arm /Flat Type

Mini

Standard

PSEP / ASEP ROBO NET ERC2 PCON ACON SCOON PSEL ASEL



Name		Model	Description	Max. Positioning Points	Input Voltage	Power Supply Capacity		See Page
		AMEC-C-20SI①-NP-2-1	Easy-to-use controller, even for beginners		AC100V	2.4A rated	-	→ P477
Solenoid Valve Type	1	ASEP-C-20SI①-NP-2-0	Operable with same signal as solenoid valve.	3 points		(Standard) 1.3A rated	-	→ P487
Splash-Proof Solenoid Valve Type	D	ASEP-CW-20SI①-NP-2-0	Supports both single and double solenoid types. No homing necessary with simple absolute type.				-	
Positioner Type		ACON-C-20SI①-NP-2-0	Desirius is assessible forces to 540 as inte	512 points			-	
Safety-Compliant Positioner Type		ACON-CG-20SI①-NP-2-0	Positioning is possible for up to 512 points	512 points			-	
Pulse Train Input Type Differential Line Driver)		Ó	ACON-PL-20SI①-NP-2-0	Pulse train input type with differential line driver support	()	DC24V	4.4A max. (Power-saving)	-
Pulse Train Input Type (Open Collector)	ě	ACON-PO-20SI®-NP-2-0 Pulse train input type with open collector support		1.3A rated 2.5A max. –	-			
Serial Communication Type	1	ACON-SE-20SI①-N-0-0	Dedicated to serial communication	64 points			-	
Field Network Type		RACON-20S①	Dedicated to field network	768 points			-	→ P503
Program Control Type	Ĩ	ASEL-C-1-20SI①-NP-2-0	Programmed operation is possible Operation is possible on up to 2 axes	1500 points			-	→ P567

IAI

RCA2-TA5R 312

