Slider Type
Mini
Standard
Controllers Integrated
Rod Type
Mini
Standard
Controllers Integrated
Table/Arm/Flat Type
Mini
Standard
Gripper/Rotary Type
Linear Servo Type
Clean-room Type
Splash-Proof Type
Pulse Motor
Servo Motor (24V)
Servo Motor (200V)
Linear Servo Motor

RCS2-A6R   Robo Cylinder, Arm Type, Actuator Width 58mm, 200V Servo Motor, Side-mounted Motor

Model Specification Items	RCS2	—	A6R	—	—	30	—	—	—	—	—	—	—
	Series		Type		Encoder type	Motor type		Lead		Stroke	Applicable controller	Cable length	Options

Encoder type
I : Incremental
A: Absolute

Motor type
30: 30W Servo motor

Lead
12 : 12mm
6 : 6mm

Stroke
50: 50mm
~
200: 200mm
(50mm pitch increments)

Applicable controller
T1: XSEL-J/K
T2: SCON
MSCON
SSEL
XSEL-P/Q
XSEL-R/S

Cable length
N: None
P: 1m
S: 3m
M:5m
X□□:Custom length
R□□: Robot cable

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

* See page Pre-47 for details on the model descriptions.

CE   RoHS
*CE compliance is optional.

Technical References ☞ Appendix P.5

POINT Notes on selection

(1) When the stroke increases, the maximum speed will drop to prevent the ball screw from reaching the critical rotational speed. Use the actuator specification table below to check the maximum speed at the stroke you desire.
(2) The load capacity is based on operation at an acceleration of 0.2G. This is the upper limit of the acceleration.
(3) See page A-71 for details on push motion.

Actuator Specifications

■ Leads and Payloads

Model number	Motor output (W)	Lead (mm)	Max. Load Capacity Horizontal (kg)	Max. Load Capacity Vertical (kg)	Rated thrust (N)	Stroke (mm)
RCS2-A6R-①-30-12-②-③-④-B-⑤	30	12	—	3	48.4	50~200 (every 50mm)
RCS2-A6R-①-30-6-②-③-④-B-⑤	30	6	—	6	96.8	50~200 (every 50mm)

■ Stroke and Maximum Speed

Stroke Lead	50~200 (every 50mm)
12	400
6	200

(Unit: mm/s)

Code explanation ①Encoder ②Stroke ③Applicable Controller ④Cable Length ⑤Options   *See page A-71 for details on push motion.

①Encoder Type/②Stroke

②Stroke (mm)	Standard price ①Encoder Type	
	Incremental I	Absolute A
50	—	—
100	—	—
150	—	—
200	—	—

④Cable Length

Type	Cable symbol	Standard Price
Standard	P (1m)	—
	S (3m)	—
	M (5m)	—
Special length	X06 (6m) ~ X10 (10m)	—
	X11 (11m) ~ X15 (15m)	—
	X16 (16m) ~ X20 (20m)	—
Robot Cable	R01 (1m) ~ R03 (3m)	—
	R04 (4m) ~ R05 (5m)	—
	R06 (6m) ~ R10 (10m)	—
	R11 (11m) ~ R15 (15m)	—
	R16 (16m) ~ R20 (20m)	—

* See page A-59 for cables for maintenance.

⑤Options

Name	Option code	See page	Standard price
Brake	B	→ A-42	—
CE compliance	CE	→ A-42	—
Bottom-mounted motor	MB	→ A-52	—
Right-mounted motor	MR	→ A-52	—
Left-mounted motor	ML	→ A-52	—
Non-motor end specification	NM	→ A-52	—

Actuator Specifications

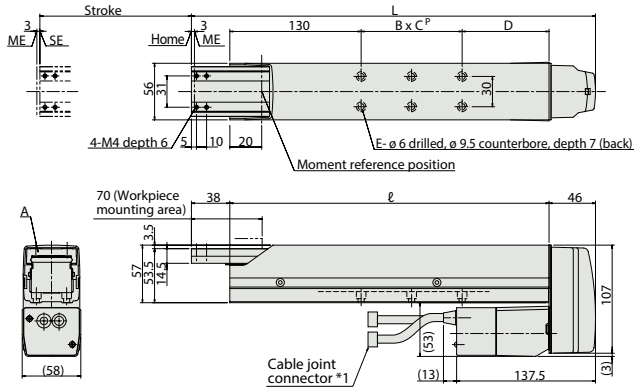| Item	Description
Drive System	Ball screw, ø10mm, rolled C10 (ball screw speed reduced by 1/2 by timing belt)
Positioning repeatability	±0.02mm
Lost Motion	0.1mm or less
Base	Material: Aluminum, white alumite treated
Allowable dynamic moment	Ma: 8.1 N·m, Mb: 10.0 N·m, Mc: 6.5 N·m
Ambient operating temperature, humidity	0 to 40ºC, 85% RH or less (Non-condensing)

Directions of allowable load moments

MA   MB   MC

367   RCS2-A6R
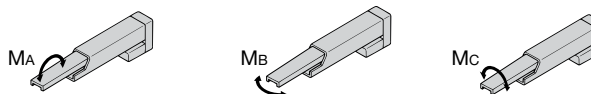
■ Dimensional Drawings

CAD drawings can be downloaded from the website. **www.intelligentactuator.com**

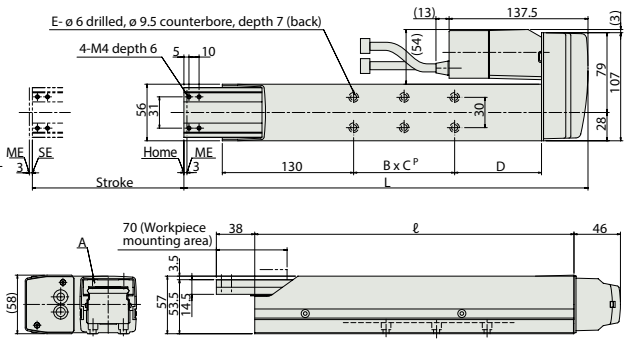**2D CAD** **3D CAD**

For Special Orders ☞ Appendix **P.15**

(*1) Connect the motor and encoder cables here. See page A-59 for details on cables.
(*2) After homing, the slider moves to the ME, therefore, please watch for any interference with surrounding objects.
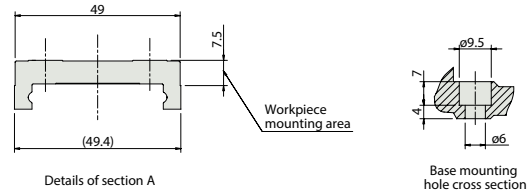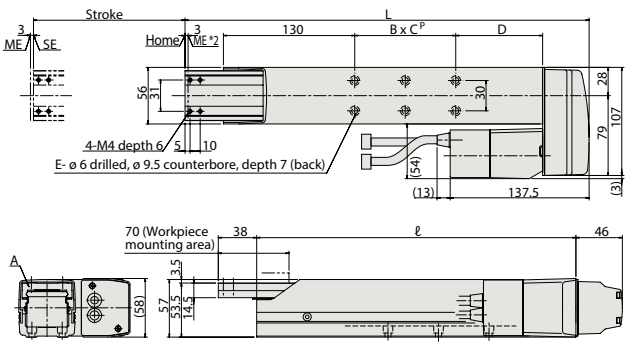ME : Mechanical end   SE : Stroke end

Bottom-mounted motor (option code: MB)

4-M4 depth 6
E- ø 6 drilled, ø 9.5 counterbore, depth 7 (back)
Moment reference position
70 (Workpiece mounting area)
Cable joint connector *1

Right-mounted motor (option code: MR)

E- ø 6 drilled, ø 9.5 counterbore, depth 7 (back)
4-M4 depth 6
70 (Workpiece mounting area)

Left-mounted motor (option code: ML)

4-M4 depth 6
E- ø 6 drilled, ø 9.5 counterbore, depth 7 (back)
70 (Workpiece mounting area)

Details of section A

Workpiece mounting area

Base mounting hole cross section

■ Dimensions and Weight by Stroke

Stroke	50	100	150	200
L	300	350	400	450
ℓ	216	266	316	366
B x C^P	1×30	1×50	2×50	2×50
D	56	86	86	136
E	4	4	6	6
Weight (kg)	3.0	3.3	3.6	3.9

Note: The 50mm stroke model is only available with a right- or left-mounted motor. Please note that there is no 50mm stroke configuration for the standard model.

■ ③ Applicable Controllers

RCS2-series actuators can be operated with the following controllers. Select an appropriate controller type according to your application.

Name	External view	Model number	Features	Maximum number of positioning points	Input power	Power supply capacity	Standard price	Reference page
Positioner mode		SCON-CA-30①-NP-2-⑪	Up to 512 positioning points are supported.	512 points	Single-phase 100VAC Single-phase 200VAC 3-phase 200VAC (XSEL-P/Q/R/S ONLY)	126 VA max. *Power supply capacity will vary depending on the controller, so please refer to the instruction manual for details.	—	→ P643
Solenoid valve mode			Actuators can be operated through the same control used for solenoid valves.	7 points			—	
Field network type			Movement by numerical specification is supported.	768 points			—	
Pulse-train input control type			Dedicated pulse-train input type	(–)			—	
Positioner multi-axis, network type		MSCON-C-1-30①-Ⓥ-0-⑪	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points			—	→ P655
Program control type, 1 to 2 axes		SSEL-CS-1-30①-NP-2-⑪	Program operation is supported. Up to 2 axes can be operated.	20000 points			—	→ P685
Program control type, 1 to 8 axes		XSEL-⑪-1-30①-N1-EEE-2-Ⓥ	Program operation is supported. Up to 8 axes can be operated.	Varies depending on the number of axis connected			—	→ P695

* This is for the single-axis MSCON, SSEL, and XSEL.
* ⑪ indicates the power-supply voltage type (1: 100V / 2: Single-phase 200V).
* Ⓥ indicates the power-supply voltage type (1: 100 V / 2: Single-phase 200V / 3: Three-phase 200V).
* ① indicates the encoder type (I: Incremental / A: Absolute).
* ⑪ indicates the XSEL type (J / K / P / Q /R / S).
* Ⓥ indicates field network specification symbol.

Slider Type
Mini
Standard
Controllers Integrated
Rod Type
Mini
Standard
Controllers Integrated
Table/ Arm/ Flat Type
Mini
Standard
Gripper/ Rotary Type
Linear Servo Type
Clean-room Type
Splash-Proof Type
Pulse Motor
Servo Motor (24V)
Servo Motor (200V)
Linear Servo Motor