

RCS2-GR8

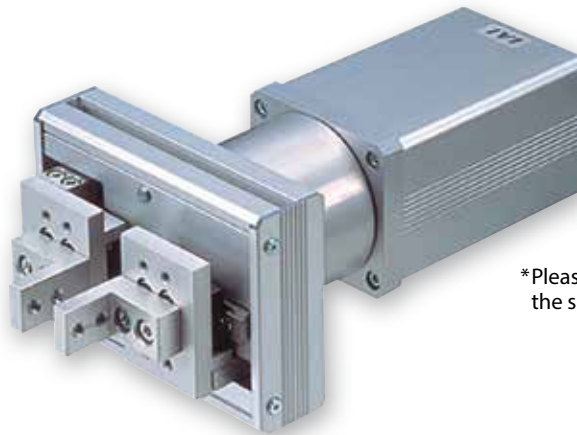
ROBO Cylinder, 2-Finger Gripper, Long Stroke Slider Type, Actuator Width 104 ~ 284mm, 200V servo Motor

Model Specification Items	RCP2 — GR8 — I — 60 — 5 — <input type="checkbox"/> — <input type="checkbox"/> — <input type="checkbox"/> — <input type="checkbox"/>	Series	Type	Encoder type	Motor type	Deceleration Ratio	Stroke	Applicable controller	Cable length	Options
					I: Incremental	60: 60W Servo motor	5:1/5	20: 20mm 40: 40mm (60): 60mm (80): 80mm 100: 100mm (120): 120mm (200): 200mm	T1: XSEL-J/K T2: SCON MSCON SSEL XSEL-P/Q XSEL-R/S	N: None P: 1m S: 3m M: 5m X <input type="checkbox"/> : Custom length R <input type="checkbox"/> : Robot cable

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



*CE compliance is optional.



*Please note that, when gripping (pressing), the speed is fixed at 10mm/s

Technical References Appendix P.5



- (1) Stroke values enclosed in "()" are (60, 80, 120, 200) are semi-standard models.
- (2) The maximum gripping force is the sum of both fingers.

Actuator Specifications

Lead and Payload

Model number	Motor Output (W)	Deceleration Ratio	Gripping force at a stop (N) (Note 1)	Rated gripping force at a travel (N) (Note 2)	Stroke (mm)
RCS2-GR8-I-60-5-①-②-③-④	60	1/5	22.5 (11.25 per side)	31.3 (15.65 per side)	20, 40, (60), (80), 100, (120), (200)

Code explanation ① Stroke ② Applicable controller ③ Cable length ④ Options

(Note 1) The value of allowable load at a stop
(Note 2) The value of allowable load when fingers are traveling

① Stroke

① Stroke (mm)	Standard price
20	—
40	—
(60)	—
(80)	—
100	—
(120)	—
(200)	—

③ Cable 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.

④ Options

Name	Option code	See page	Standard price
CE compliance	CE	→ A-42	—

Actuator Specifications

Item	Description
Drive System	Rack and pinion
Positioning repeatability	±0.04mm
Lost motion	0.7mm or less per side
Base	Material: Aluminum, white alumite treated
Allowable static load moment	Ma: 5.1 N·m, Mb: 5.1 N·m, Mc: 10.4 N·m
Ambient operating temperature, humidity	0 to 40°C, 85% RH or less (Non-condensing)

- 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

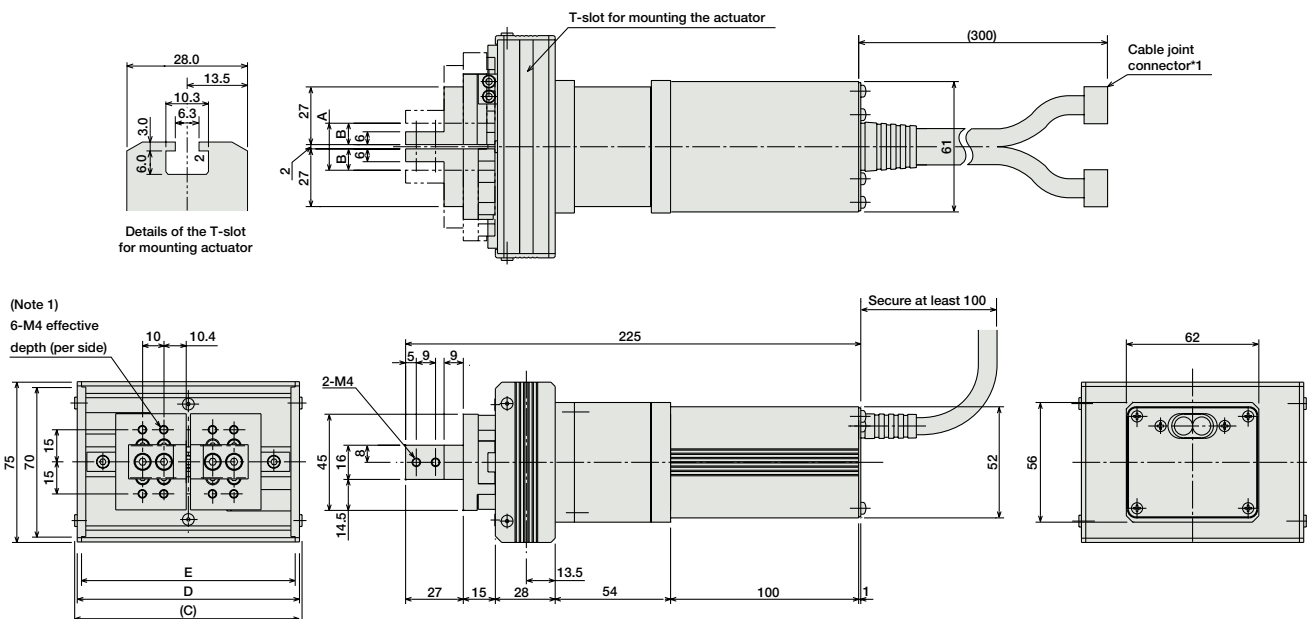
Dimensional Drawings

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

For Special Orders Appendix P.15



*The opening side of the slider is the home position.



(Note 1) 6-M4 effective depth (per side)

(*1) Connect the motor and encoder cables here. See page A-59 for details on cables.

(Note 1) The number of tapped holes on the finger mounting plate is for one side. In addition, by default, each finger is secured using 2 tapped holes

■ Dimensions and Weight by Stroke

Stroke	20	40	(60)	(80)	100	(120)	(200)
A	22	42	62	82	102	122	202
B	10	20	30	40	50	60	100
C	106.4	126.4	146.4	166.4	186.4	206.4	286.4
D	104	124	144	164	184	204	284
E	100	120	140	160	180	200	280
Weight (kg)	1.8	1.9	1.9	2.0	2.0	2.1	2.3

*1 The strokes enclosed in "()" are semi-standard configurations, and will require longer delivery time.

② 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-60I-NP-2-①	Up to 512 positioning points are supported.	512 points	Single-phase 100VAC Single-phase 200VAC 3-phase 200VAC (XSEL-P/Q/R/S ONLY)	218 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-1-60-NP-0-①	Up to 6 axes can be operated. Movement by numerical specification is supported.	256 points	3-phase 200VAC (XSEL-P/Q/R/S ONLY)	218 VA max. *Power supply capacity will vary depending on the controller, so please refer to the instruction manual for details.	—	→ P655		
Program control type, 1 to 2 axes		SSEL-CS-1-60I-NP-2-①	Program operation is supported. Up to 2 axes can be operated.	20,000 points					—	→ P685
Program control type, 1 to 8 axes		XSEL-N-1-60I-N1-EEE-2-③	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.
 * ① indicates the XSEL type (J / K / P / Q / R / S).
 * ② indicates field network specification symbol.

* ① indicates the power-supply voltage type (1: 100 V / 2: Single-phase 200 V).
 * ③ indicates the power-supply voltage type (1: 100 V / 2: Single-phase 200 V / 3: Three-phase 200 V).