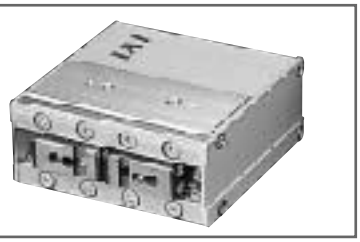
RCP2-GRS

Robo Gripper: Actuator Width 69 mm, Pulse Motor



Type: Gripper (69 mm wide) | Stroke: 10 mm (5 mm each side) | Maximum gripping force: 21.0 N

Model Specification Items: Series – Type – Encoder type – Motor – Gear ratio – Stroke – Applicable controller – Cable length – Options

(Example) RCP2 – GRS – I – PM – 1 – 10 – P1 – S – SB

* Refer to page 37 for details on the specification items.

Model/Specifications

Model	Encoder type	Motor	Gear ratio	Stroke (mm)	Maximum opening/closing speed (Note 1) (mm/sec)	Maximum gripping force (Note 2) (N)
RCP2-GRS-I-PM-1-10-P1-△-☐	Incremental	Pulse motor	1 / 1	10 (5 each side)	33.3	21.0

* In the above model name, △ indicates the cable length and ☐ the applicable option(s).

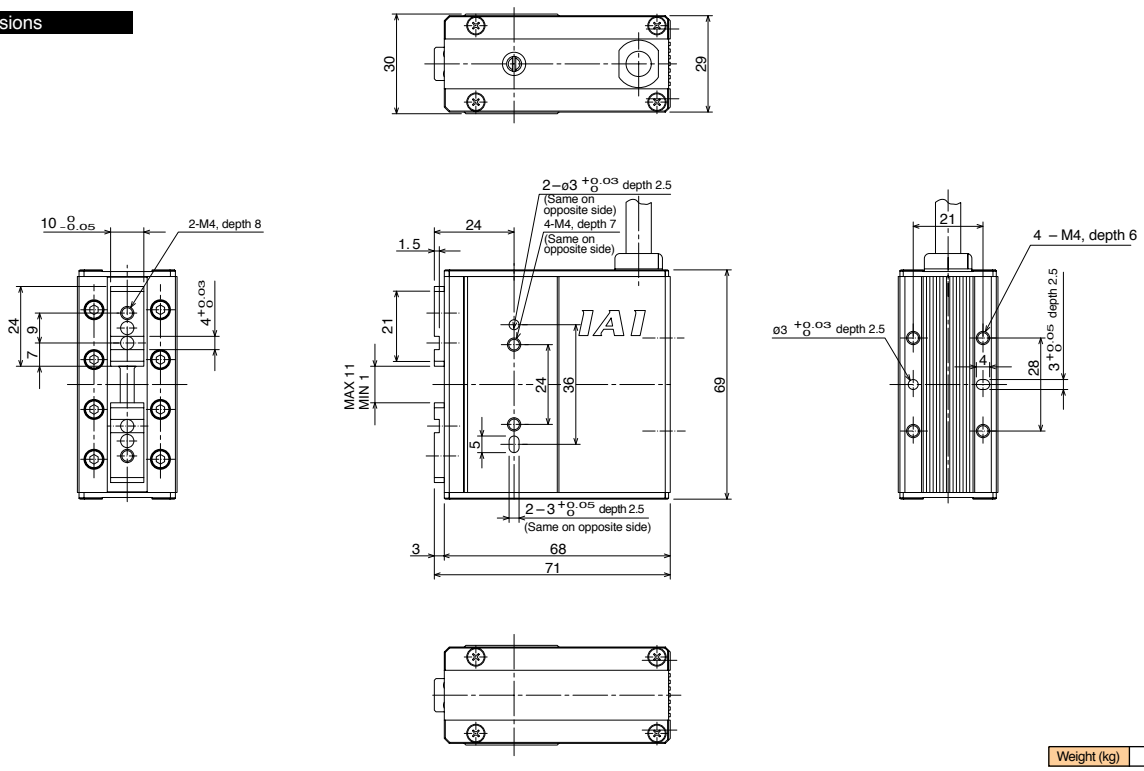
Options

Name	Type	Page
Shaft Bracket	SB	→P140
Flange Bracket	FB	→P140

Common Specifications

Drive system	Timing belt + Trapezoid screw (lead 1.5)
Positioning repeatability	±0.01mm
Backlash	0.15 mm or less each side (Always pressured to open condition using spring)
Guide	Cross roller guide
Allowable load moment	Ma : 6.3N • m Mb : 6.3N • m Mc : 7.0N • m
Base	Material: Aluminum with white alumite treatment
Cable length (Note 4)	N: No cable, P: 1 m, S: 3 m, M: 5 m, X☐☐ : Length specification, R☐☐ : Robot cable
Weight	0.36kg

Dimensions



Weight (kg)	0.36

Specifications

Applicable controller	Maximum number of controlled axes	Compatible encoder type	Program operation	Positioner operation	Pulse-train control	Power-supply voltage	Page
RCP2-C	1 axis	Incremental	×	○	×	DC24V	→P151
RCP2-CG	1 axis	Incremental	×	○	×	DC24V	→P151

Caution

(Note 1) The speed of one finger. The relative speed of two fingers is twice the specified value.
(Note 2) The sum of gripping forces of both fingers when the gripping point distance and overhung distance are both 0. The actual feasible gripping force will vary depending on various conditions. Refer to page 35 for details.
(Note 3) The positioning repeatability when the target position is approached from the same direction.
(Note 4) The maximum cable length is 20 m. Specify the desired length in meters (e.g., X08 = 8 m).

* Refer to page 23 for other points to note.