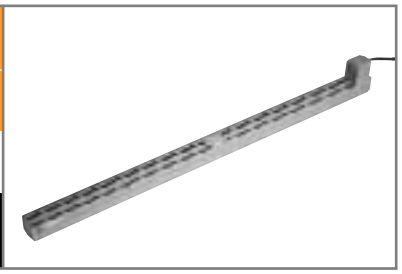
RCP2-BA7 Robo Cylinder Slider-Belt Type, Slider Width 68mm, Pulse Motor, Motor on Top

RCP2-BA7U Robo Cylinder Slider-Belt Type, Slider Width 68mm, Pulse Motor, Motor Underneath



Type / Slider (68mm wide) | Stroke / 600 ~1200mm | Load capacity / 8 kg (horizontal)

■ Model Specification Items: Series — Type — Encoder type — Motor output — Lead — Stroke — Applicable controller — Cable length — Option

(Example) : RCP2 — □BA7□ — □ A□ — □ PM□ — □54 — □1200 — □ P1□ — □ S□ — □NM

Models/Specifications

* The maximum speed of the RCP2 series will vary according to the weight of the load installed on the slider (or rod). Refer to the diagram on the back cover for the relationship of speed and load capacity.

Model	Encoder type	Motor type	Lead (mm)	Stroke (50mm increments) (mm)	Speed (mm/s)	Load capacity (kg) (Note 1)		Motor position
						Horizontal (kg)	Vertical (kg)	
RCP2-BA7-①-PM-54-②-P1-③-④	A: Absolute I: Incremental	Pulse motor	Equivalent to 54	600 ~ 1200	100 ~ 1500	8 ~ 2	—	Top
RCP2-BA7U-①-PM-54-②-P1-③-④							—	Underneath

* In the above model names, ① indicates the encoder type, ② the stroke, ③ the cable length, and ④ the applicable options.

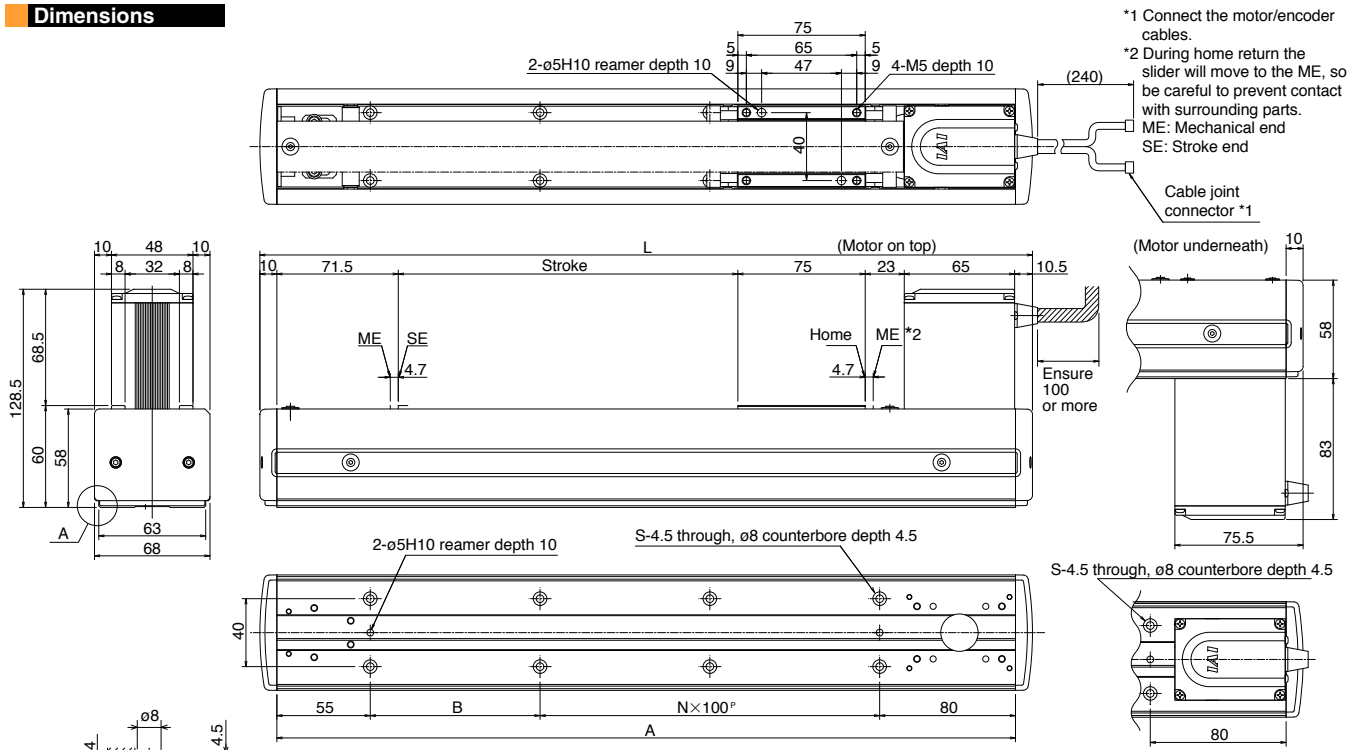
Option

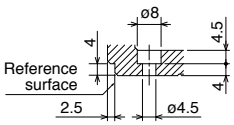
Name	Type	Reference Page
Reversed-home specification	NM	—

Common Specifications

Drive method	Timing belt
Positioning repeatability	±0.1mm
Backlash	0.1mm or less
Guide	Integrated with base
Allowable load moment (Note 2)	Ma: 13.8N • m Mb: 19.7N • m Mc: 29.0N • m
Overhung load length	Ma, Mb, Mc: 150mm or less
Base	Material: Aluminum with white alumite treatment
Cable length (Note 3)	N: No cable, S: 3m, M: 5m, X□□: Specified length R□□: Robot cable
Operating temperature, humidity	0 ~ 40˚C, 85%RH or below (non-condensing)

Dimensions





Detail view of A (Mounting hole and reference surface)

■ Dimensions and Weight by Stroke

Stroke	600	650	700	750	800	850	900	950	1000	1050	1100	1150	1200
L	855	905	955	1005	1055	1105	1155	1205	1255	1305	1355	1405	1455
A	835	885	935	985	1035	1085	1135	1185	1235	1285	1335	1385	1435
B	100	50	100	50	100	50	100	50	100	50	100	50	100
N	6	7	7	8	8	9	9	10	10	11	11	12	12
S	16	18	18	20	20	22	22	24	24	26	26	28	28
Weight(kg)	3.6	3.7	3.9	4.0	4.2	4.3	4.4	4.6	4.7	4.9	5.0	5.2	5.3

Applicable Controller Specifications

Applicable controller	Maximum number of controlled axes	Compatible encoder type	Operating method	Power-supply voltage
RCP2-C	1 axis	Absolute/incremental	Positioner	DC24V
RCP2-CG	1 axis			

Caution

(Note 1) Based on an acceleration of 0.5 G. Due to the structure of the product, vertical transfer applications are not supported.
(Note 2) Based on a traveling life of 5,000 km.
(Note 3) The maximum cable length is 15 m for the absolute type and 20 m for the incremental type. Specify the desired length in meters (ex. X08 = 8 m).