

# The New Robo Cylinder that's 25mm x 25mm Super Slim Type is here!

## RoboCylinder Super Slim Type

# RCP2-RPA



### Benefits

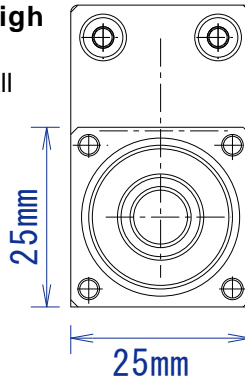
#### Super Slim size of 25mm wide and 25mm high

With a unit size of 25mm wide and 25mm high, it is now possible to install the unit through a small opening. It also becomes possible to make the size of the application smaller.

\* The height of the motor is 42mm.

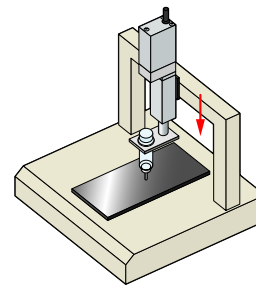
#### Convenient Functions of the Electric Cylinder

1. Maximum of 64 Positioning Points
2. Incremental Motion Function
3. Maximum Push Force of 100N
4. Halt Function / Zone Signaling

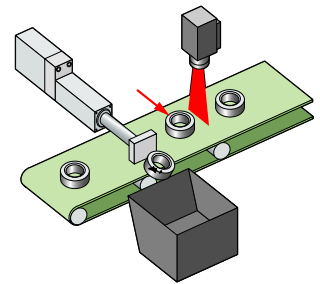


### Application Examples

Miniature 3 axis combination

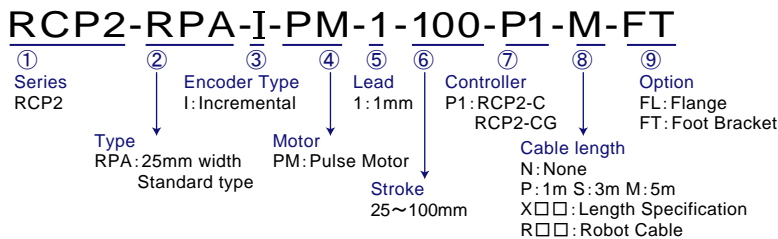


Small parts inspection

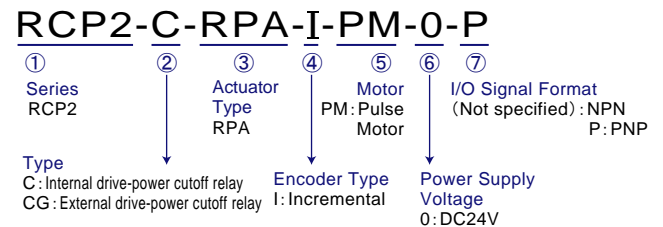


### Model

#### Actuator Model

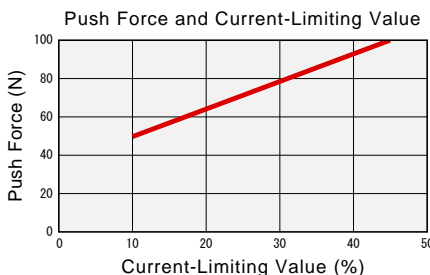


#### Controller Model



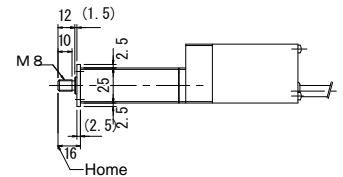
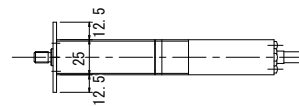
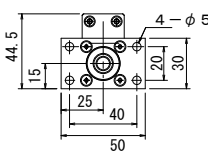
### Push Force

Although the RCP2-RPA is an electric cylinder, it can continually push against a load just like an air cylinder. By adjusting the setting of the controller, it is possible to change the push force from 50N to a maximum of 100N.

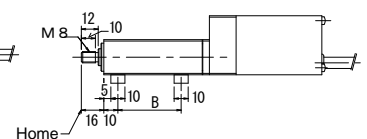
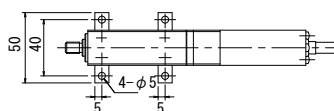
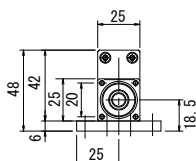


### Options

#### Flange



#### Foot Bracket



# RCP2-RPA

ROBO Cylinder Rod Type: Unit Width 25mm, Pulse Motor, Straight Shape

Type / Rod (25mm wide)    Stroke / 25~100mm    Load capacity / 7kg (horizontal)/2.5kg (vertical)

Model details Series Type Encoder type Motor Lead Stroke Applicable controller Cable length Options  
 RCP2-RPA-I-PM-1-100-P1-S-FL



## Model/Specifications

Model	Encoder type	Motor	Lead (mm)	Stroke 25mm increments (mm)	Speed (mm/s)	Load capacity (Note 1)		Maximum push force (N)
						Horizontal (kg)	Vertical (kg)	
RCP2-RPA-I-PM-1-①-P1-②-③	Incremental	Pulse motor	1	25~100	1~25	7	2.5	100

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

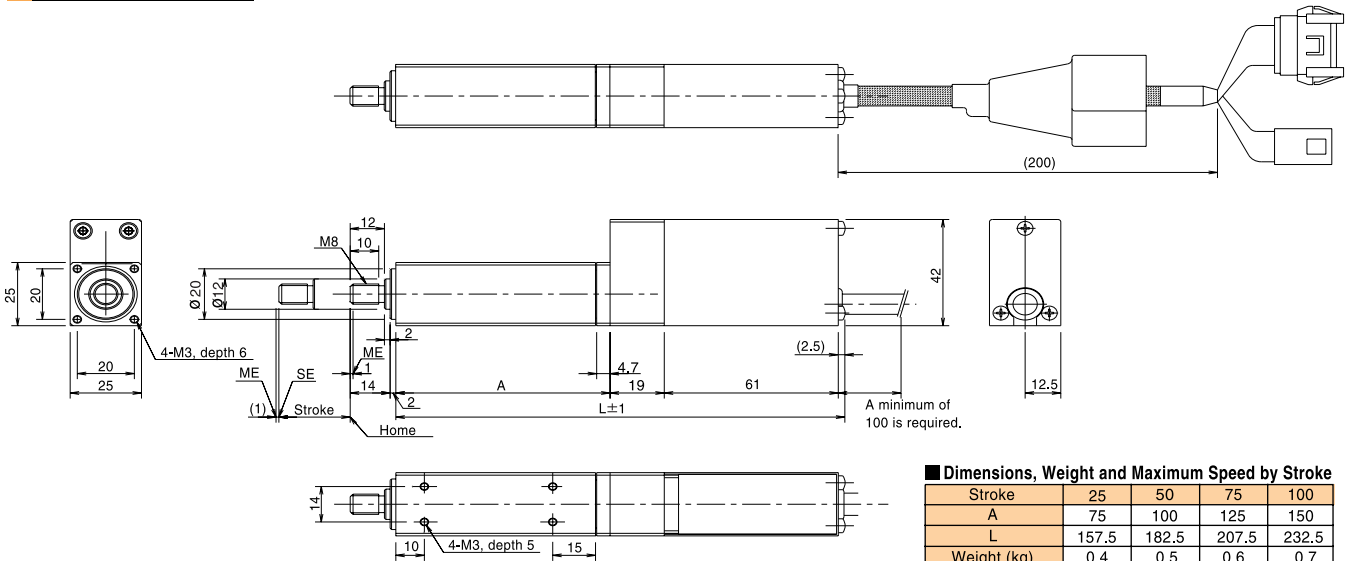
## Options

Name	Model	Page
With flange	FL	-
With foot bracket	FT	-

## Common Specifications

Drive system	Ball screw $\phi$ 6mm, rolled C10 (Ball screw is driven by a 1/2 ratio reduction gear)
Positioning Repeatability	$\pm$ 0.02mm
Backlash	0.05mm or less
Guide	-
Travel Life	2,000km
Rod diameter	$\phi$ 12mm
Rod non-rotative accuracy	$\pm$ 2.1°
Base	Material: Aluminum with white alumite treatment
Cable length (Note 2)	N: No cable, P: 1m, S: 3m, M: 5m, X□□: Length specification, R□□: Robot cable

## Dimensions



## Dimensions, Weight and Maximum Speed by Stroke

Stroke	25	50	75	100
A	75	100	125	150
L	157.5	182.5	207.5	232.5
Weight (kg)	0.4	0.5	0.6	0.7
Maximum speed (mm/s)	Lead 1      25			

## Applicable Controller 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	X	○	X	24VDC	-
RCP2-CG	1 axis		X	○	X		-



(Note 1) The load acceleration is 0.05G. When moving a load horizontally, use the guide together with the rod and radial load in a state where it does not catch.

(Note 2) The maximum cable length is 20m. Specify the desired length in meters (e.g., X08=8m).