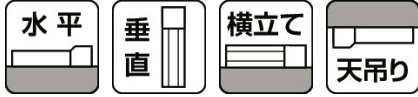


# EC-GRBP10

Installation position



Catalog PDF

Instruction manual PDF

2D CAD drawings

Parametric CAD Drawings

Request information



[↓ Dimensions](#)   [↓ Selection considerations](#)   [↓ Adaptive Controller](#)

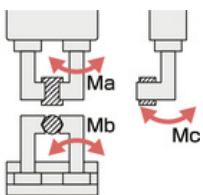
## Main Specifications

Specification 1

Specification 2

	item	Contents
Lead	Trapezoidal thread lead (mm)	1.5
	Pulley reduction ratio	1.25
Grasping Action	Maximum gripping force (N) (both sides)	100
	Gripping speed (mm/s) (one side)	5
Approach movement	Maximum speed (mm/s) (one side)	90
	Minimum speed (mm/s) (one side)	5
	Rated acceleration/deceleration (G) (one side)	0.3
	Maximum acceleration/deceleration (G) (one side)	0.3
brake	Brake Specifications	-
	Brake holding force (N)	-
stroke	Minimum stroke (mm) (one side)	15
	Maximum stroke (mm) (one side)	15

Slide type moment direction



Adaptive Controller

(Note) The EC series has a built-in controller. For details on the built-in controller, see page [2-769](#).

## International Standards



## Selection considerations

選定上の  
注意



- (1) The maximum opening and closing speed in the "Main Spec" indicates the operating speed on one side. The relative operating speed is twice the \
- (2) The maximum gripping force in the "Main Spec" is the total value of the gripping force of both fingers when the gripping point distance and overha
- (3) When gripping a workpiece, be sure to use the pressing operation.
- (4) The self-locking mechanism maintains the gripping force even when the power is cut off. (However, it does not guarantee that the workpiece will r

[↑ Back to top of page](#)

## Dimensions

CAD図面がホームページよりダウンロード出来ます。  
[www.iai-robot.co.jp](http://www.iai-robot.co.jp)



ME: Mechanical end

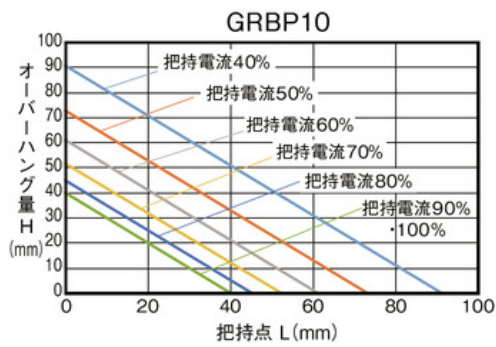
SE: Stroke end

(Note) The standard setting is that the open side is the home position. If you wish to set the home position to the closed side, please specify the option (model: NM).

Note: Make sure to secure the cable so that the base of the cable does not move.

(Note) The actuator cable exit direction is standard at the rear, but can be changed to one of four directions as an option.

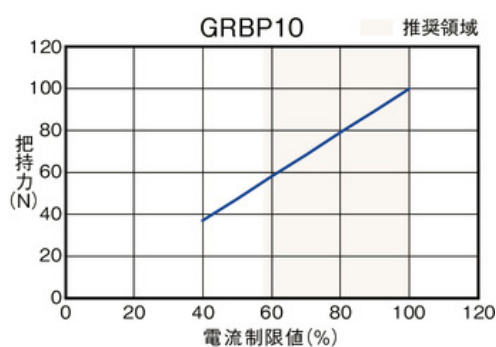




(Note) If the limit range is exceeded, excessive moment will be applied to the finger sliding part and internal mechanism, which may adversely affect the service life.

## Grip Force

### Correlation diagram between gripping force and current limit value

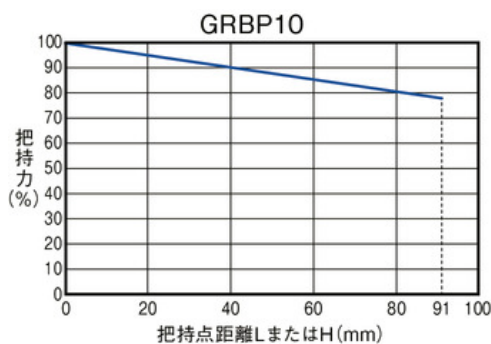


(Note) This is the total value for both fingers when the gripping point distance (L, H) is 0.

(Note) These are approximate values. There is a variation of about 0 to 60%. The possibility of variation is particularly high when the current limit value is set outside the recommended range (the colored range of the graph).

(Note) When gripping (pushing), the speed is fixed at 5 mm/s.

### Guideline for gripping point distance and gripping force



(Note) This indicates the gripping force at the extension position when the maximum gripping force is 100%. The results may vary depending on the rigidity of the finger attachment used.

[Back to product information top](#)