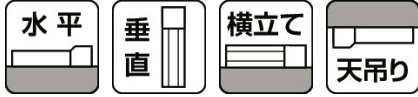


# EC-GRBP13

Installation position



Catalog PDF

Instruction manual PDF

2D CAD drawings

Parametric CAD Drawings

Request information

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

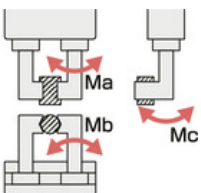
## Main Specifications

Specification 1

Specification 2

item	Contents		
	M	L	
Reduction ratio			
Lead	Trapezoidal thread lead (mm)	2	2
	Pulley reduction ratio	1.36	2.14
Grasping Action	Maximum gripping force (N) (both sides)	179	300
	Gripping speed (mm/s) (one side)	5	5
Approach movement	Maximum speed (mm/s) (one side)	100	63
	Minimum speed (mm/s) (one side)	5	5
	Rated acceleration/deceleration (G) (one side)	0.3	0.3
	Maximum acceleration/deceleration (G) (one side)	0.3	0.3
brake	Brake Specifications	-	-
	Brake holding force (N)	-	-
stroke	Minimum stroke (mm) (one side)	20	20
	Maximum stroke (mm) (one side)	20	20

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



- (1) The maximum opening and closing speed in the "Main Specification" indicates the operating speed on one side. The relative operating speed is twice the maximum opening and closing speed.
- (2) The maximum gripping force in the "Main Specification" is the total value of the gripping force of both fingers when the gripping point distance and gripping force are the same.
- (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 turned off. (However, it does not guarantee that the workpiece will not move.)
- (5) The duty ratio must be limited depending on the ambient temperature. For details, please refer to page [1-326](#).

[↑ 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)



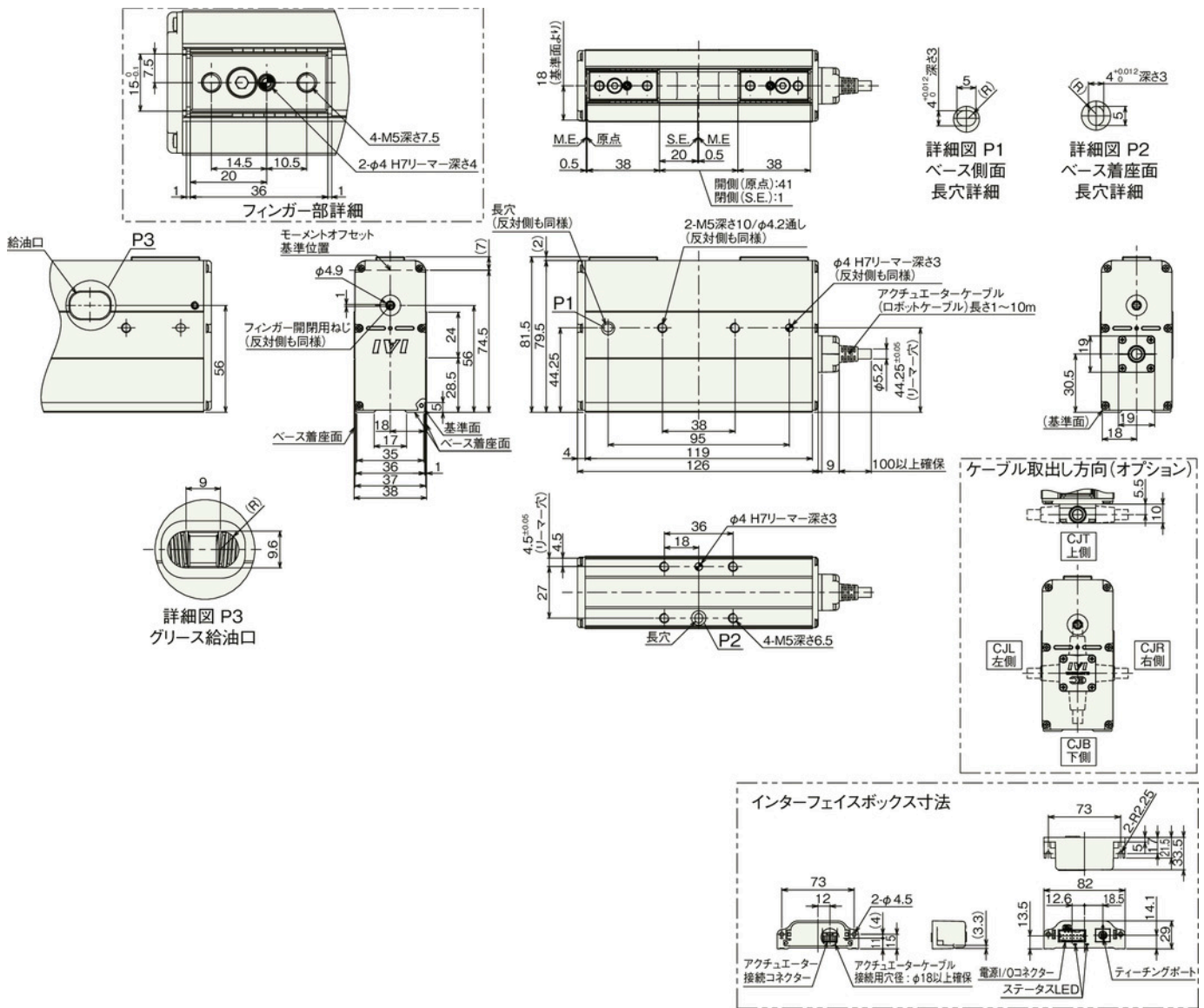
ME: Mechanical end

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.

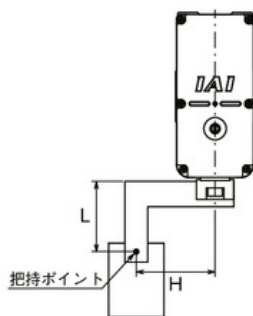
(Note) The actuator cable exit direction is standard at the rear, but can be changed to one of four directions as an option.



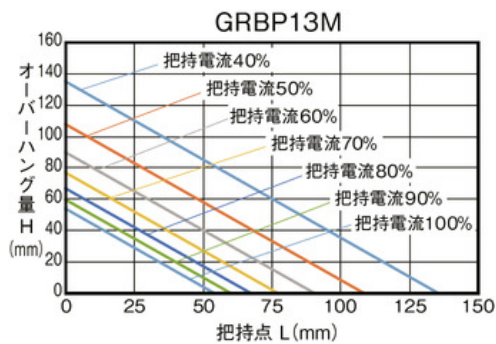
Mass by stroke

item	Contents
mass	0.75kg

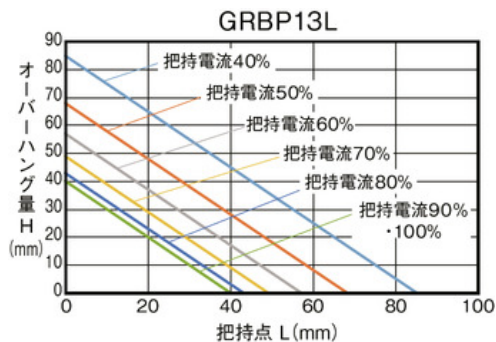
Check gripping distance



Please use the product so that the distance (L, H) from the finger (claw) mounting surface to the gripping point is within the range shown in the graph.

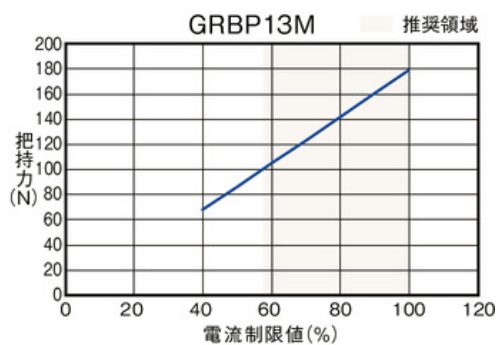


(Note) If the limit range is exceeded, excessive moment will be applied to the finger sliding part and internal mechanism, which may adversely affect the service life.



## Grip Force

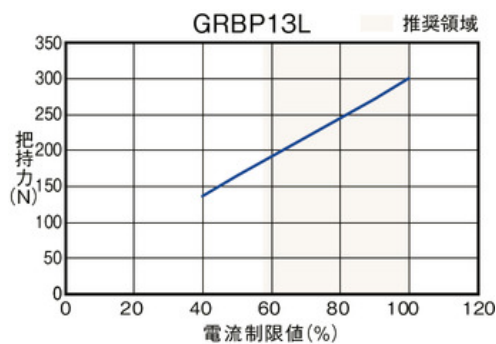
Correlation diagram between gripping force and current limit value



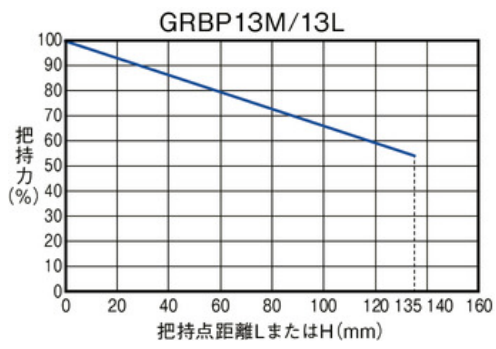
(Note) This is the total value for both fingers when the gripping point distance (L, H) is 0.

(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](#)

[Home](#) > [Electric Actuator Product Information](#) > EC-GRBP13

© IAI CORPORATION.