

Feature

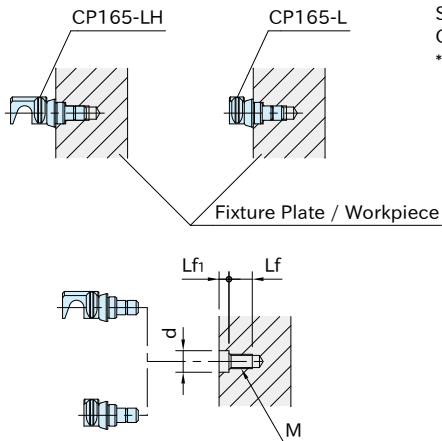
- Each clamping screw has commercially available O-ring to prevent rotation and keep the direction of arrow marking.
- O-ring should be replaced by the customer when it is worn.

How To Use

Tapered Clamping Screws

Can be used for locating fixture plate or workpiece.

■ Mounting-Hole Dimension



Size	d *)	Lf	Lf ₁	M
CP165-08001	12	13	5.5	M 8×1.25
CP165-12001	18	19	6.5	M12×1.75
CP165-16001	22	23	8	M16×2

*) The hole tolerance should be $\begin{smallmatrix} -0.010 \\ -0.025 \end{smallmatrix}$ when Tapered Clamping Screws are always mounted on the fixture plate. Fixture plate and tapered pin fit tightly and keep the repeatability without chip incursion.

The hole tolerance should be H7 when mounting on workpiece. Tapered pin can be easily mounted / removed.

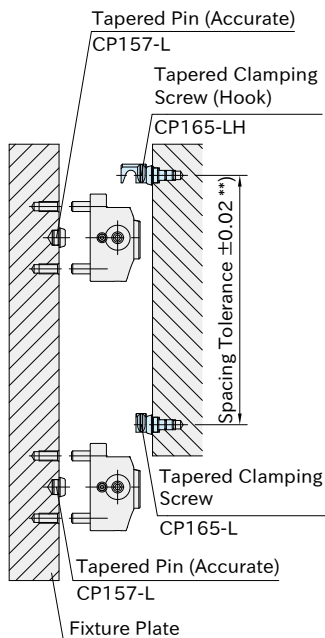
Clamping Screws

Can be used for just clamping.

■ Spacing Tolerance

Spacing tolerance should be ± 0.02 for Tapered Clamping Screws.

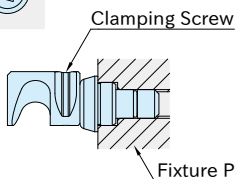
**) Spacing tolerance should be ± 0.2 for Clamping Screws.



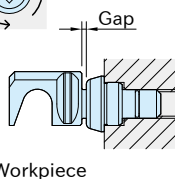
Note: Refer to the next page for the layout of the products.

■ Installation

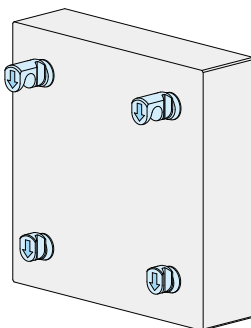
1. Fully tighten the clamping screw on fixture plate or workpiece.



2. Turn the screw counterclockwise within one turn until the arrow marking points downward. (There is a gap between clamping screw and tapered pin.)



3. Install the clamping screws into the clamping modules.



■ Application Example

Tighten the hook type clamping screw firstly.
The first one becomes the reference.

The products should be positioned as shown below.

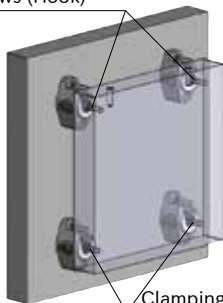
[CP165-LH](#) [CP165-L](#) Tapered Clamping Screws and [CP157-L](#) Tapered Pins (Accurate) should be used together, and [CP166-H](#) [CP166](#) Clamping Screws and [CP157-S](#) Tapered Pins (Standard) are also.

Note

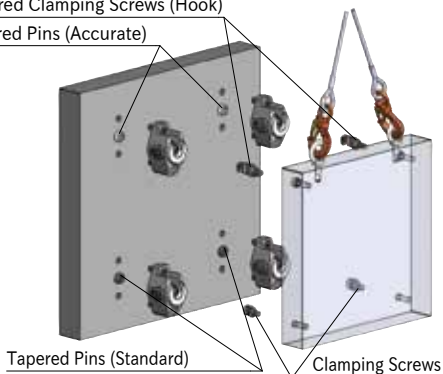
Do not remove the hoists until the unit fully clamped.

Example 1

Tapered Clamping
Screws (Hook)

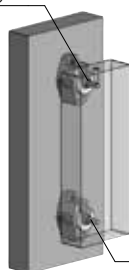


Tapered Clamping Screws (Hook)
Tapered Pins (Accurate)

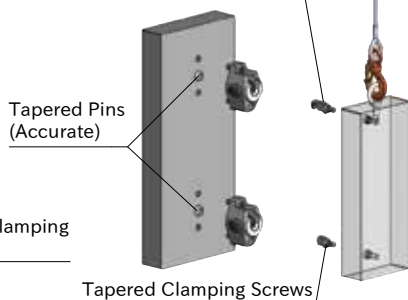


Example 2

Tapered Clamping
Screws (Hook)

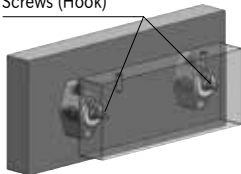


Tapered Clamping Screws (Hook)

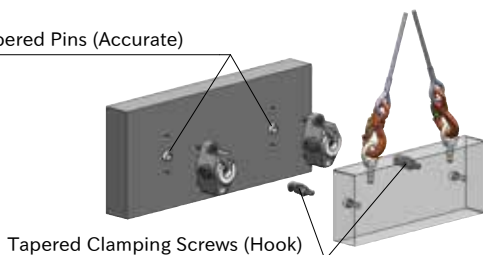


Example 3

Tapered Clamping
Screws (Hook)



Tapered Pins (Accurate)



Note: Use [CP166-H](#) [CP166](#) Clamping Screws when locating of workpiece is not necessary.

Related Product

·[CP160](#) Clamping Modules (Hook)
·[CP165-LH](#) Tapered Clamping Screws (Hook)

·[CP165-L](#) Tapered Clamping Screws
·[CP166-H](#) Clamping Screws (Hook)
·[CP166](#) Clamping Screws