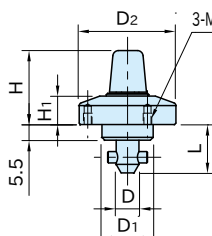
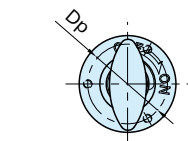
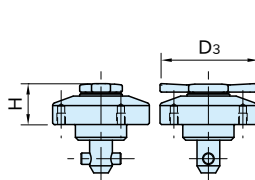
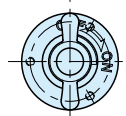
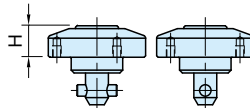
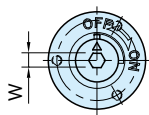
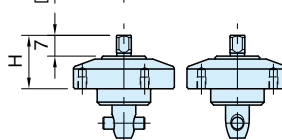
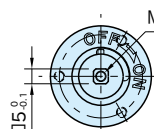


Stainless  
Steel

IMAO

★Key Point

Easy-to-read ON/OFF position

**QCTH**  
(Plastic Knob)**QCTH-SUS**  
(Stainless Steel)**QCTHL-SUS**  
(Low-height Knob, Stainless Steel)**QCTHH-SUS**  
(Hex. Socket Head, Stainless Steel)**QCTHN-SUS**  
(Knobless, Stainless Steel)**QCTH**  
(Plastic Knob)**QCTH-SUS**  
(Stainless Steel)**QCTHL-SUS**  
(Low-height Knob, Stainless Steel)**QCTHH-SUS**  
(Hex. Socket Head, Stainless Steel)**QCTHN-SUS**  
(Knobless, Stainless Steel)

| Type                              | Body, Shank               | Pin                       | Knob                                            | Spring                         |
|-----------------------------------|---------------------------|---------------------------|-------------------------------------------------|--------------------------------|
| <b>QCTH</b>                       | SUS303<br>stainless steel | SUS304<br>stainless steel | Polyamide<br>(glass-fiber reinforced)<br>Black  | Equivalent to<br>SWOSC-V steel |
| <b>QCTH-SUS</b> <b>QCTHL-SUS</b>  |                           |                           | SUS13 stainless steel<br>(Equivalent to SUS304) | SUS304<br>stainless steel      |
| <b>QCTHH-SUS</b> <b>QCTHN-SUS</b> |                           |                           | —                                               |                                |

| Size                                 | Plate Thickness | D<br>( $\pm 0.04$ )<br>( $\pm 0.05$ ) | D <sub>1</sub><br>(h <sub>9</sub> ) | D <sub>2</sub> | L  | H <sub>1</sub> | M   | D <sub>p</sub> | Clamping<br>Force(N) | Holding Force<br>(N) ** |
|--------------------------------------|-----------------|---------------------------------------|-------------------------------------|----------------|----|----------------|-----|----------------|----------------------|-------------------------|
| <b>QCTH</b><br><b>QCTH-SUS</b>       | 0525-10         | 3 - 10 *                              | 5                                   | 14             | 25 | 15.5           | 6.5 | M2×0.4Depth3   | 21                   | 60                      |
| <b>QCTHL-SUS</b><br><b>QCTHH-SUS</b> | 0834-14         | 3 - 14 *                              | 8                                   | 18             | 34 | 17             | 10  | M3×0.5Depth4   | 28                   | 90                      |
| <b>QCTHN-SUS</b>                     | 0834-20         | 12 - 20                               |                                     |                |    | 23             |     |                |                      |                         |

\*) Spacer **QCASP** is required for thinner plate than 6mm.

\*\*) Exceeding the holding force creates a gap of greater than 0.1mm between plates.

| Size             |                | Cam Receptacles               | Floating Receptacles |
|------------------|----------------|-------------------------------|----------------------|
| <b>QCTH</b>      | <b>0525-10</b> | QCTH0525-N,QCTH0525-B         | QCTH0525-FL-SUS      |
| <b>QCTH-SUS</b>  |                | QCTH0525-N-SUS,QCTH0525-B-SUS |                      |
| <b>QCTHL-SUS</b> |                |                               |                      |
| <b>QCTHH-SUS</b> | <b>0834-14</b> | QCTH0834-N,QCTH0834-B         | QCTH0834-FL-SUS      |
| <b>QCTHN-SUS</b> | <b>0834-20</b> | QCTH0834-N-SUS,QCTH0834-B-SUS |                      |

| <b>QCTH</b> (Plastic Knob) |                |    |            | <b>QCTH-SUS</b> (Stainless Steel) |                |      |            |
|----------------------------|----------------|----|------------|-----------------------------------|----------------|------|------------|
| Part Number                | D <sub>3</sub> | H  | Weight (g) | Part Number                       | D <sub>3</sub> | H    | Weight (g) |
| <b>QCTH0525-10</b>         | 20             | 19 | 35         | <b>QCTH0525-10-SUS</b>            | 20             | 19   | 40         |
| <b>QCTH0834-14</b>         | 32             | 26 | 105        | <b>QCTH0834-14-SUS</b>            | 32             | 25.5 | 130        |
| <b>QCTH0834-20</b>         |                |    | 110        | <b>QCTH0834-20-SUS</b>            |                |      | 135        |

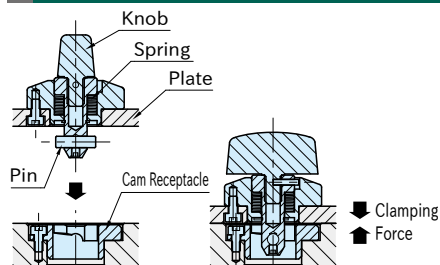
| <b>QCTHL-SUS</b> (Low-height Knob, Stainless Steel) |                |      |            | <b>QCTHH-SUS</b> (Hex. Socket Head, Stainless Steel) |    |   |            |
|-----------------------------------------------------|----------------|------|------------|------------------------------------------------------|----|---|------------|
| Part Number                                         | D <sub>3</sub> | H    | Weight (g) | Part Number                                          | H  | W | Weight (g) |
| <b>QCTHL0525-10-SUS</b>                             | 25             | 11.5 | 35         | <b>QCTHH0525-10-SUS</b>                              | 8  | 4 | 30         |
| <b>QCTHL0834-14-SUS</b>                             | 34             | 15.5 | 83         | <b>QCTHH0834-14-SUS</b>                              | 11 | 5 | 75         |
| <b>QCTHL0834-20-SUS</b>                             |                |      | 85         | <b>QCTHH0834-20-SUS</b>                              |    |   | 77         |

| <b>QCTHN-SUS</b> (Knobless, Stainless Steel) |    |            |
|----------------------------------------------|----|------------|
| Part Number                                  | H  | Weight (g) |
| <b>QCTHN0525-10-SUS</b>                      | 15 | 30         |
| <b>QCTHN0834-14-SUS</b>                      | 18 | 109        |
| <b>QCTHN0834-20-SUS</b>                      |    | 111        |

### Supplied With

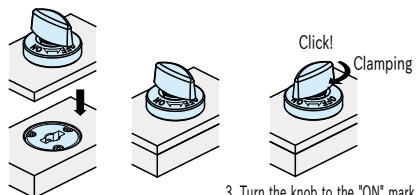
- **QCTH** **QCTH-SUS** **QCTHL-SUS** **QCTHH-SUS** **QCTHN-SUS**  
0525-10:3 of socket-head cap screws(stainless steel), M2x0.4-5L
- **QCTH** **QCTH-SUS** **QCTHL-SUS** **QCTHH-SUS** **QCTHN-SUS**  
0834-14, 0834-20:3 of socket-head cap screws(stainless steel), M3x0.5-6L

### Feature



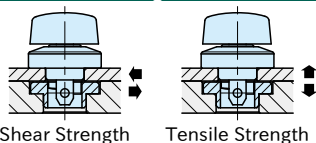
- When the pin contacts the cam in the Cam Receptacle, the spring gets compressed to press down the plate.
- **QCTHN-SUS** allows the use of customer-supplied knobs or levers, providing flexibility for operation in confined spaces.

### How To Use



1. Ensure that the knob is positioned at the "OFF" mark.
2. Insert the Quarter-Turn Clamp.
3. Turn the knob to the "ON" mark for clamping. The knob clicks when it is clamped/unclamped. Note: For unclamping, follow back these steps.

### Mechanical Strength



| Size             |                | Heatresistant Temperature(°C) | Shear Strength at Failure(N) | Tensile Strength at Failure(N) |
|------------------|----------------|-------------------------------|------------------------------|--------------------------------|
| <b>QCTH</b>      | <b>0525-10</b> | 130                           | 1800                         | 1200                           |
|                  | <b>0834-14</b> |                               | 3200                         | 2600                           |
|                  | <b>0834-20</b> |                               |                              |                                |
| <b>QCTH-SUS</b>  | <b>0525-10</b> | 180                           | 1800                         | 1200                           |
| <b>QCTHL-SUS</b> | <b>0834-14</b> |                               | 3200                         | 2600                           |
| <b>QCTHH-SUS</b> | <b>0834-20</b> |                               |                              |                                |

The values shown represent load levels at which failure can occur.

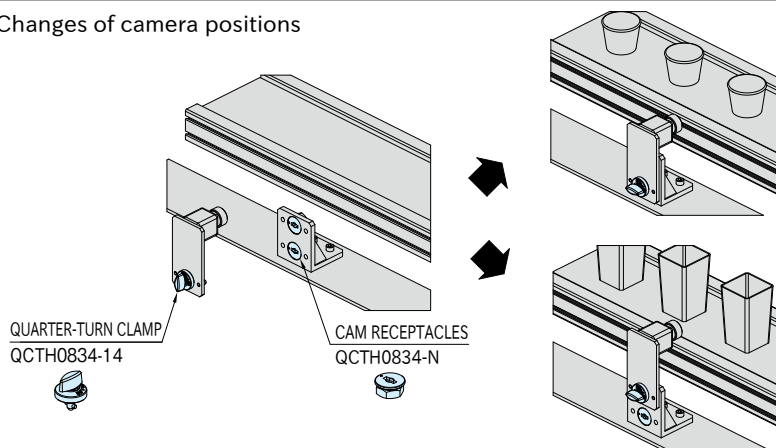


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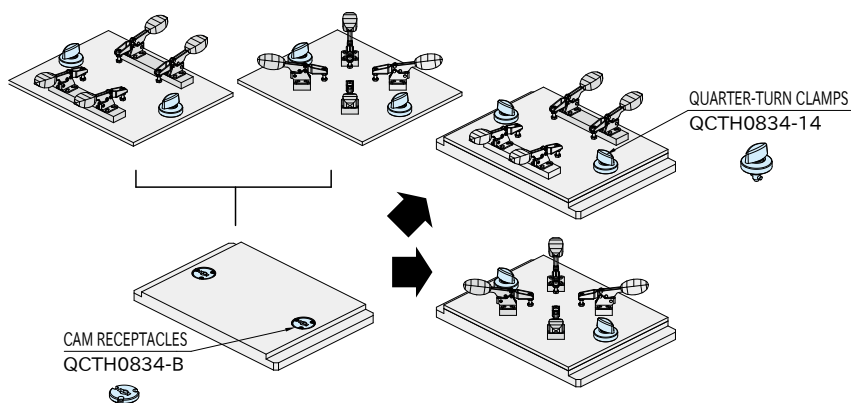
| QCTH-N / QCTH-B                                                                   | CAM RECEPTACLES | QCTH-FL                                                                           | FLOATING RECEPTACLES |
|-----------------------------------------------------------------------------------|-----------------|-----------------------------------------------------------------------------------|----------------------|
|  |                 |  |                      |

### Application Example

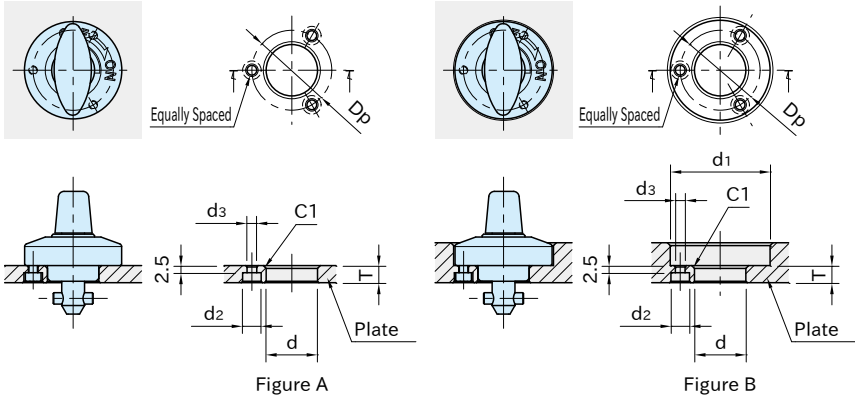
Changes of camera positions



Changes of fixture plates



# How To Install



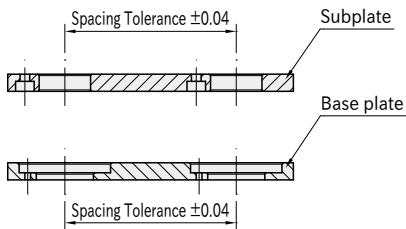
| Size                                                                                               |         | Plate Thickness     | Figure                               | d<br>(+0.10)<br>(+0.05) | d <sub>1</sub> | T<br>(±0.2) | d <sub>2</sub> | d <sub>3</sub> | Dp |
|----------------------------------------------------------------------------------------------------|---------|---------------------|--------------------------------------|-------------------------|----------------|-------------|----------------|----------------|----|
| <div>QCTH</div> <div>QCTH-SUS</div> <div>QCTHL-SUS</div> <div>QCTHH-SUS</div> <div>QCTHN-SUS</div> | 0525-10 | 3 or more, under 6  | Spacer <div>QCASP</div> is required. |                         |                |             |                |                |    |
|                                                                                                    |         | 6                   | A                                    | 14                      | —              | 6           | 4.4            | 2.4            | 21 |
|                                                                                                    |         | Over 6, 10 or less  | B                                    |                         | 26             |             |                |                |    |
|                                                                                                    | 0834-14 | 3 or more, under 6  | Spacer <div>QCASP</div> is required. |                         |                |             |                |                |    |
|                                                                                                    |         | 6                   | A                                    | 18                      | —              | 6           | 6.5            | 3.4            | 28 |
|                                                                                                    |         | Over 6, 14 or less  | B                                    |                         | 35             |             |                |                |    |
|                                                                                                    | 0834-20 | 12                  | A                                    |                         | —              | 12          |                |                |    |
|                                                                                                    |         | Over 12, 20 or less | B                                    | 35                      |                |             |                |                |    |

## QCASP SPACERS



## Accuracy

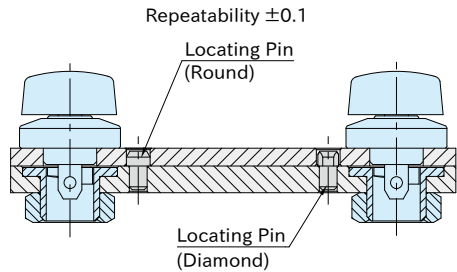
### Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be  $\pm 0.04$ .

Note: To expand the tolerance range of mounting hole spacing, use **QCTH-FL** floating receptacles. See **QCTH-FL** Floating Receptacles product pages for details.

### Repeatability



For higher accurate locating, use locating pins.

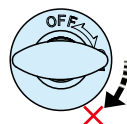
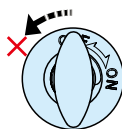
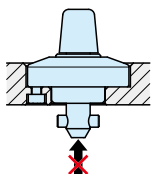


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## Caution

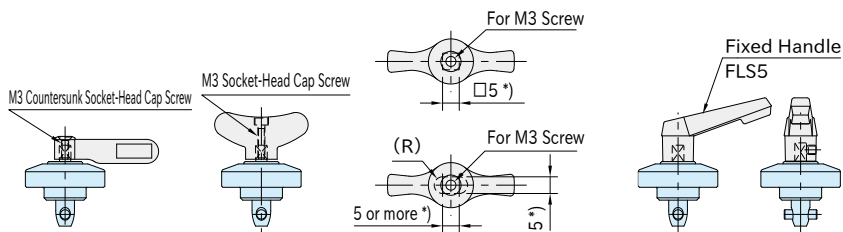
Note the following cautions using **QCTH** **QCTH-SUS** **QCTHL-SUS** **QCTHH-SUS** **QCTHN-SUS** 0525-10

- Any force over 600N or more on the tip of the shaft from any direction can damage the pin.
- The knob operating torque is 0.4 N·m. Note that the excessive operating torque over 2 N·m can damage the pin.



## Custom Knob Details

- Custom knobs, including 3D-printed ones, can be installed on the knobless type.
- Machine a square or slotted hole and an M3 clearance hole in the customer-supplied knob or lever, then secure it with a screw from the top side.



\*) Machine the square or slotted hole to a depth of 6 mm.

**FLS5** Fixed Handles can be installed as supplied.

## Reference

- "How To Install" of **QCTH-N** **QCTH-B** Cam Receptacles and **QCTH-FL** Floating Receptacles
- Spacer **QCASP** is required for 3mm or more, under 6mm plate thickness.