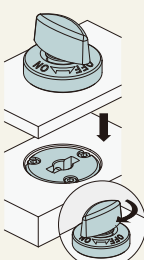
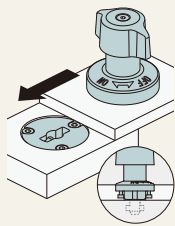
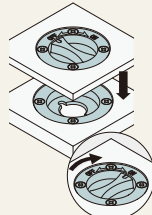
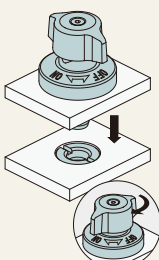
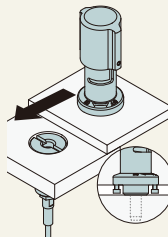
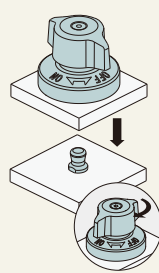
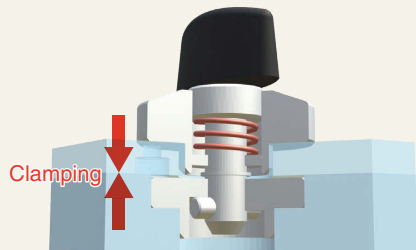
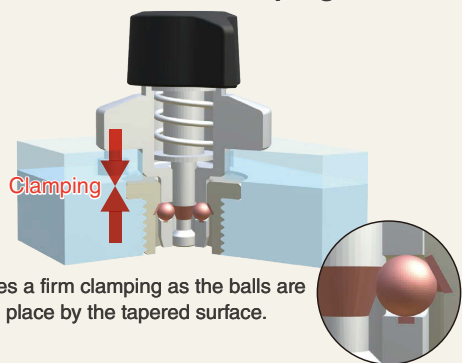


Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..

www.er-el.com.tr

One Touch Fasteners Selection Guide

Products	Quarter Turn					
	QUARTER TURN CLAMPS	RETRACTABLE QUARTER TURN CLAMPS	FLAT QUARTER TURN CLAMPS	KNOB LOCKING PINS	RETRACTABLE KNOB LOCKING PINS	PIN HOLDING CLAMPS
						
	QCTH QCTHS	QCTHA QCTHSA	QCFC -	QCWE QCWES	QCWEA QCWESA	QCPC QCPCS
	Clamping with 1/4 turn					
		 Retractable shaft allows sliding movement	 Flat design with recessed knob and body		 Retractable shaft allows sliding movement	 Clamping pin for space-limited application
Clamping Force (N)	60, 90, 250, 400	60, 90, 250, 400	30, 60	30, 50, 1000, 2000	30, 50, 1000, 2000	7, 9, 150, 250
Holding Force (N)				90, 150, 2500, 5000	90, 150, 2500, 5000	110, 150, 450, 750
Clamping Mechanism	Cam & Spring Clamping  Spring clamps and holds the plates, and the tip key prevents the fastener from being pulled out.			Ball Lock Clamping  Provides a firm clamping as the balls are held in place by the tapered surface.		
	● Vibration resistant with key lock to prevent accidental removal ● ON/OFF indicator for safety ● Tensile force greater than clamping force creates a gap between the plates			● High holding force for use in the presence of a counterforce ● ON/OFF indicator for safety ● Clamping force lower than the holding force ● Low resistance to vibration		

Button Push



BUTTON
LOCKING
PINS

SNAP IN
CLAMPS

HOLE
HOLDING
CLAMPS

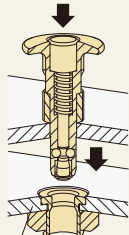


QCBU
-

QCOW
QCOWM

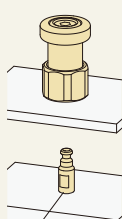
QCHC
-

Press the button
to insert



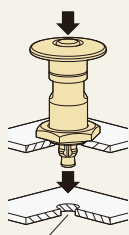
Base plate is kept
flat with receptacle.

Simply press
the clamp onto
the pin



Clamping pin for
space-limited
application

Press the button
to insert



Only through hole
required

30, 50

6, 25

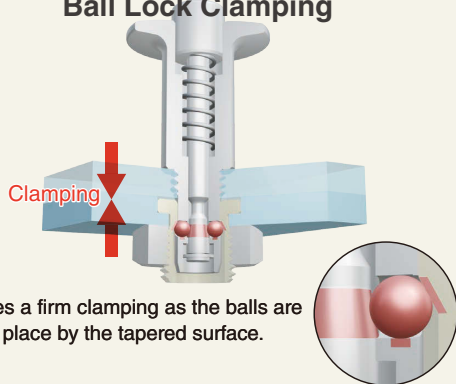
3, 6

90, 150

100

30, 60

Ball Lock Clamping



Provides a firm clamping as the balls are
held in place by the tapered surface.

- High holding force for use in the presence of a counterforce
- Secure locking upon releasing button
- Clamping force lower than the holding force
- Low resistance to vibration

Twist Coupling



SHAFT
COUPLING
CLAMP

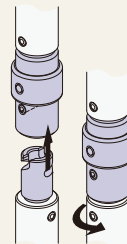
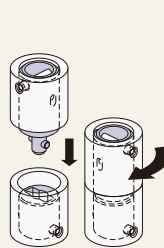
SHAFT
COUPLING
CLAMP WITH
SAFETY LOCK



QCSJ
QCSJS

QCSJLK
-

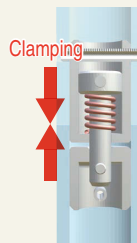
Twist the shaft 90 degrees for coupling



90, 400

—

Cam & Spring Clamping



Clamps and holds the
shafts with spring force

- High clamping force
- Greater tensile force than clamping force makes a gap between the shafts.

Turn Lock & Hold

Shafts cannot be
rotated or pulled out
when in the locking
position.



- Safety lock
- No clamping force

Push Pull



BALL LOCK
CLAMPS

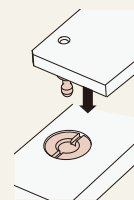
MAGNET LOCK
CLAMP



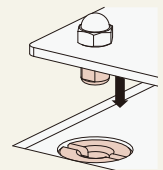
QCBA, QCBAS
-

QCMA
-

Clamped
instantly
once the pin
is inserted



Clamped
instantly
with magnet

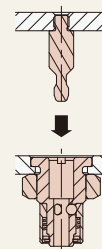


7, 15

7

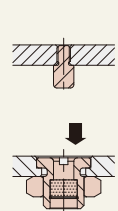
Spring Clamping

Three balls pull in
the clamping pin.



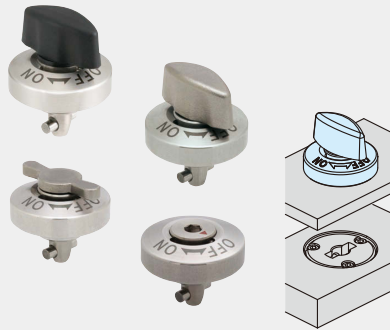
Magnetic Clamping

Magnet pulls in
the clamping pin.



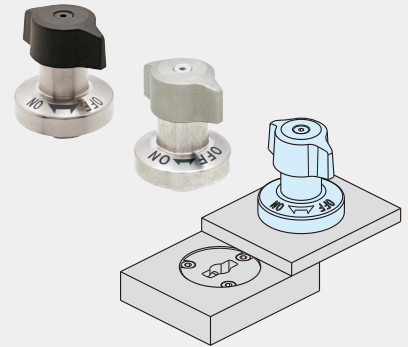
- Easy & instant lock
- Very low clamping force

Quarter Turn



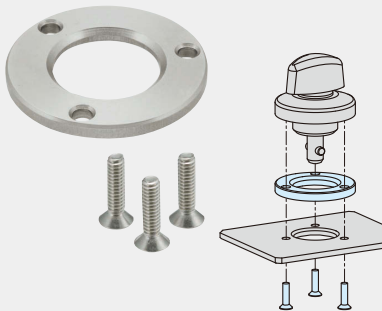
QUARTER-TURN CLAMPS

Part No. QCTH / QCTHL / QCTHH



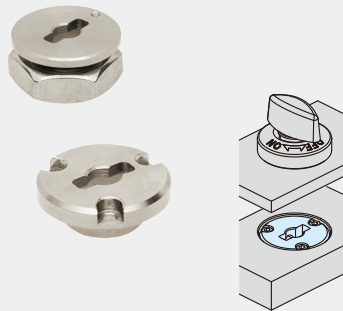
RETRACTABLE QUARTER-TURN CLAMPS

Part No. QCTHA



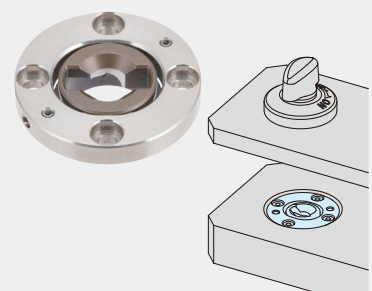
SPACERS

Part No. QCASP



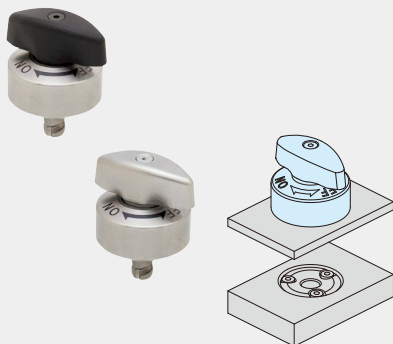
CAM RECEPTACLES

Part No. QCTH-N / QCTH-B



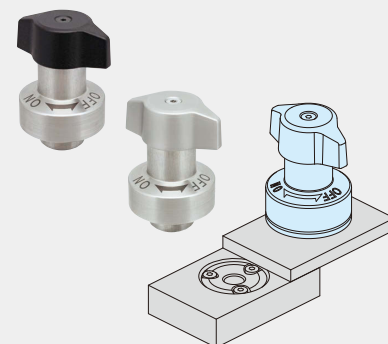
FLOATING RECEPTACLES

Part No. QCTH-FL



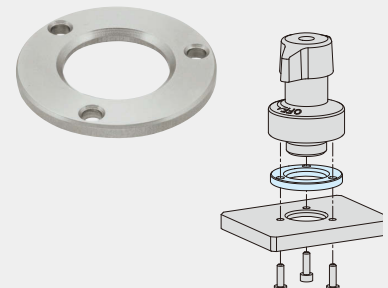
HEAVY DUTY QUARTER-TURN CLAMPS

Part No. QCTHS



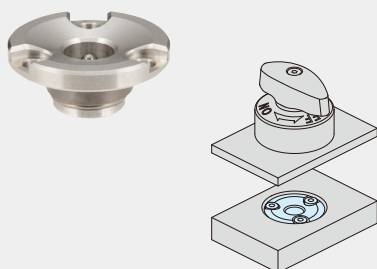
RETRACTABLE HEAVY DUTY QUARTER-TURN CLAMPS

Part No. QCTHSA



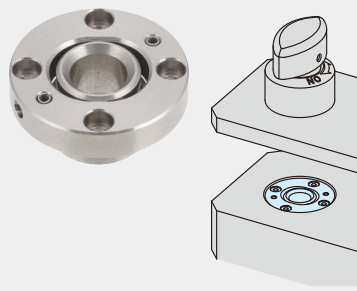
SPACER

Part No. QCTHSA



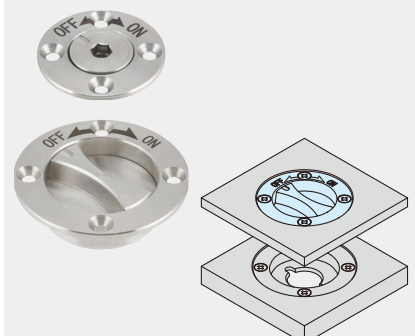
LOCKING RECEPTACLE

Part No. QCTHS-B



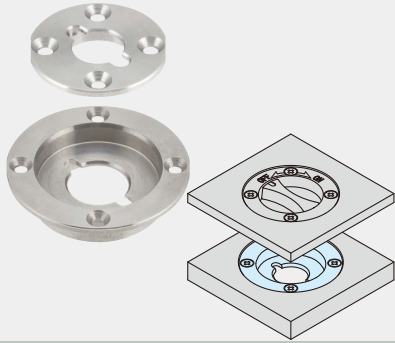
FLOATING RECEPTACLES

Part No. QCTHS-FL



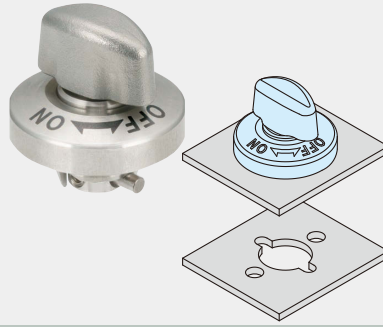
FLAT QUARTER TURN CLAMPS

Part No. QCFC / QCFCB



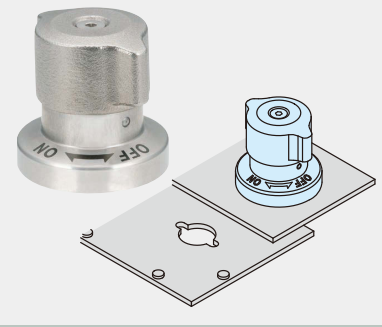
LOCKING RECEPTACLES

Part No. QCFC-B / QCFCB-B



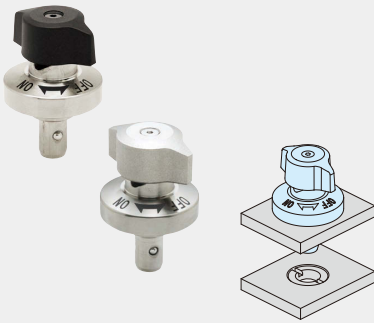
QUARTER-TURN PANEL CLAMPS

Part No. QCTHT



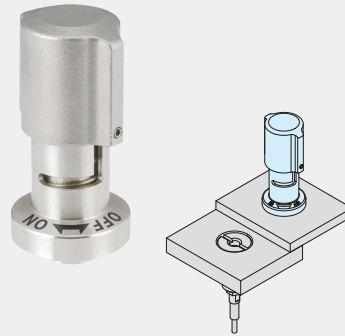
HEAVY DUTY KNOB-LOCKING PINS

Part No. QCTHTA



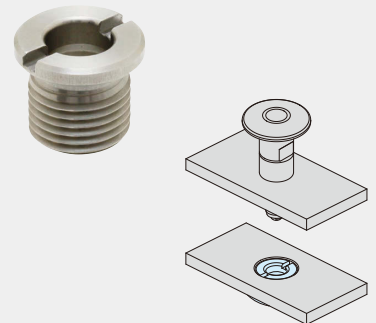
KNOB-LOCKING PINS

Part No. QCWE



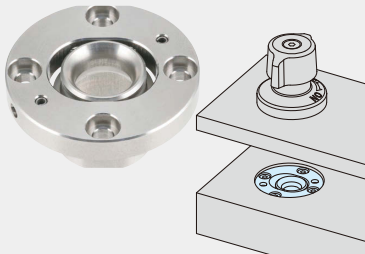
RETRACTABLE KNOB-LOCKING PINS

Part No. QCWEA



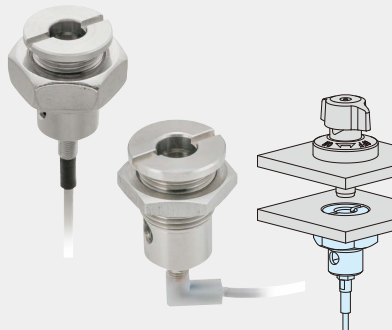
BALL-LOCK RECEPTACLES

Part No. QCBU-M



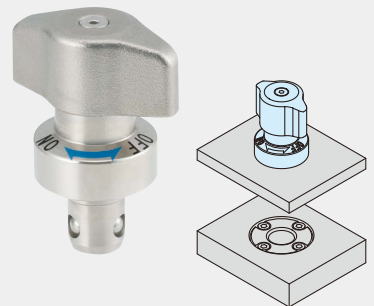
FLOATING RECEPTACLES

Part No. QCBU-FL



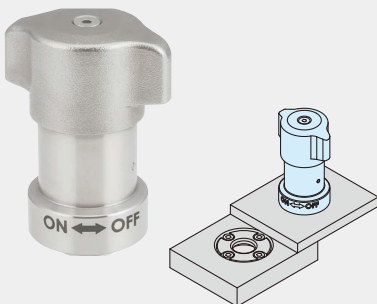
POSITION SENSOR RECEPTACLES

Part No. QCWE-M-S



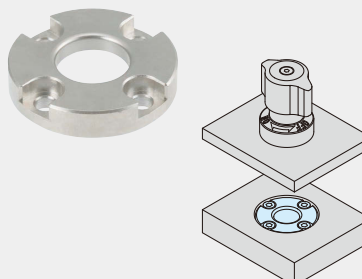
HEAVY DUTY KNOB-LOCKING PINS

Part No. QCWES



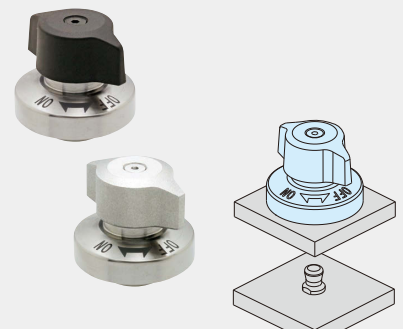
RETRACTABLE HEAVY DUTY KNOB-LOCKING PINS

Part No. QCWESA



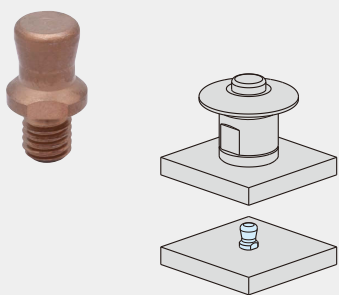
LOCKING RECEPTACLES

Part No. QCWES-B



PIN HOLDING CLAMPS

Part No. QCPC



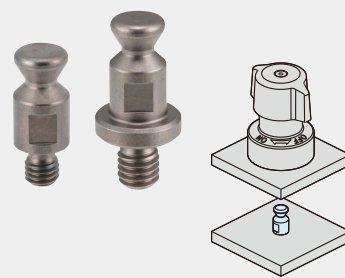
CLAMPING PINS

Part No. QCPC-M



HEAVY DUTY PIN HOLDING CLAMPS

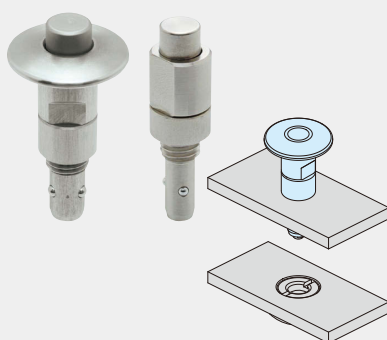
Part No. QCPCS



CLAMPING PINS

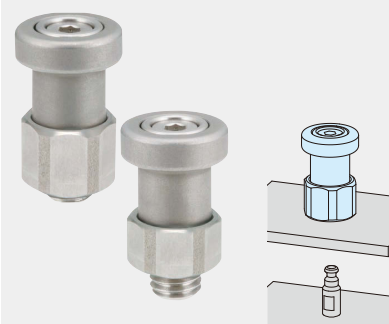
Part No. QCPCS-M / QCPCSF-M

Button Push



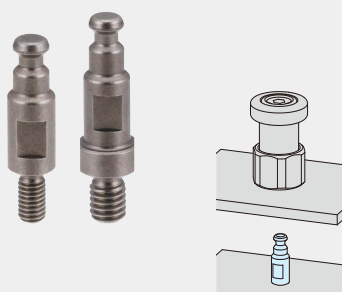
BUTTON-LOCKING PINS

Part No. QCBU / QCBUS



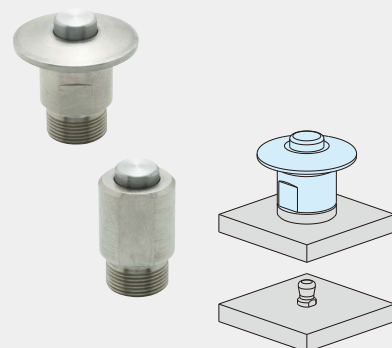
COMPACT SNAP-IN CLAMPS

Part No. QCOWM



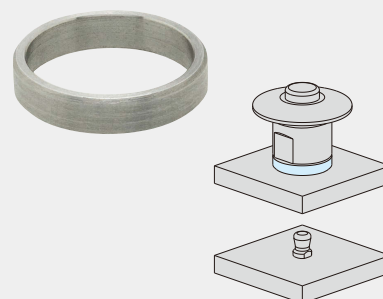
CLAMPING PINS

Part No. QCOWM-M



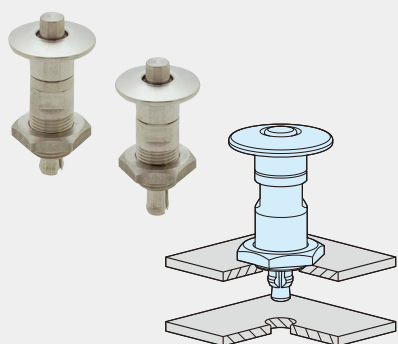
SNAP-IN CLAMPS

Part No. QCOW / QCOWS



SPACERS

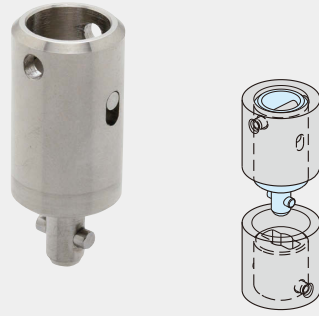
Part No. QCOW



HOLE HOLDING CLAMPS

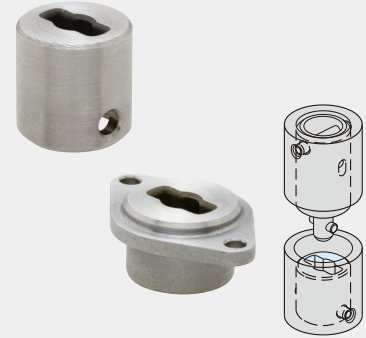
Part No. QCHC-N

Twist Coupling



SHAFT COUPLING CLAMP

Part No. QCSJ



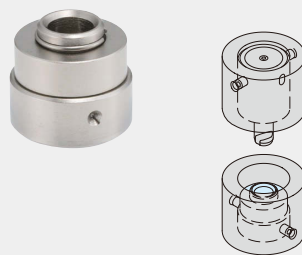
CAM RECEPTACLES

Part No. QCSJ-S / QCSJ-B



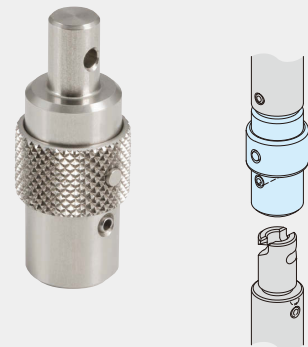
HEAVY DUTY SHAFT COUPLING CLAMP

Part No. QCSJS



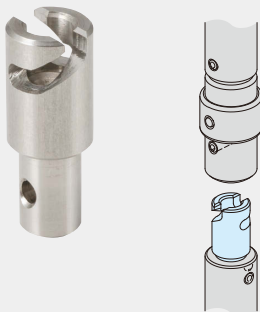
LOCKING RECEPTACLE

Part No. QCSJS-S



SHAFT COUPLING CLAMP WITH SAFETY LOCK

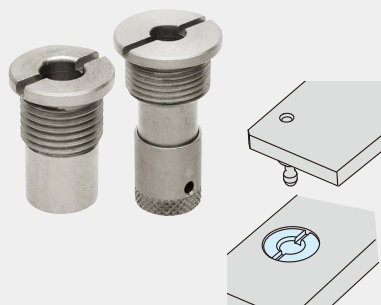
Part No. QCSJLK



LOCKING RECEPTACLE

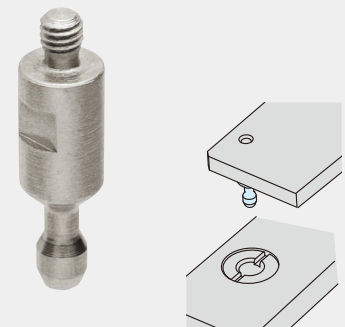
Part No. QCSJLK-S

Push Pull



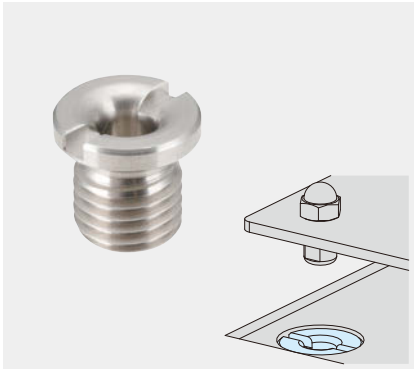
BALL-LOCK CLAMPING RECEPTACLES

Part No. QCBA / QCBAS



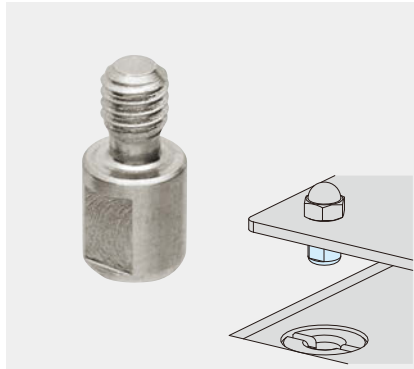
BALL-LOCK CLAMPING PINS

Part No. QCBA-M



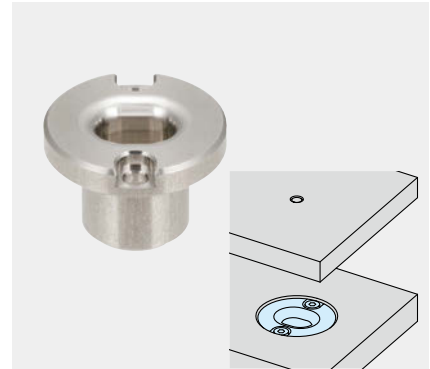
**MAGNET-LOCK CLAMPING
RECEPTACLES**

Part No. QCMA



**MAGNET-LOCK CLAMPING
PINS**

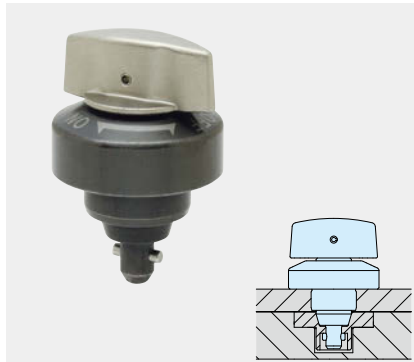
Part No. QCMA-M



**MAGNET-LOCK SLOTTED
RECEPTACLES**

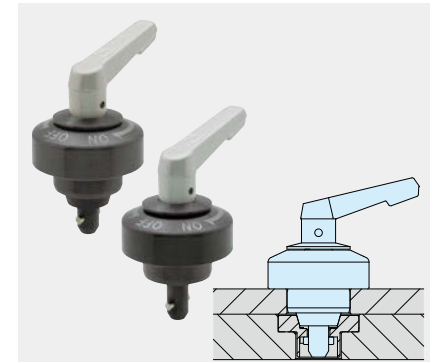
Part No. QCMA-SH

Locate & Clamp



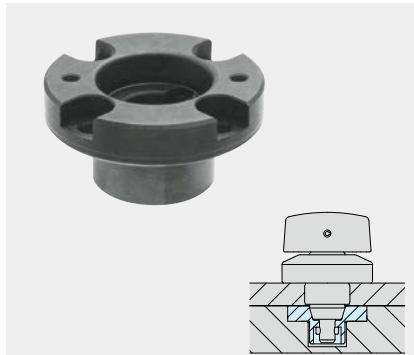
**ONE-TOUCH CLAMPING
LOCATORS**

Part No. CP723



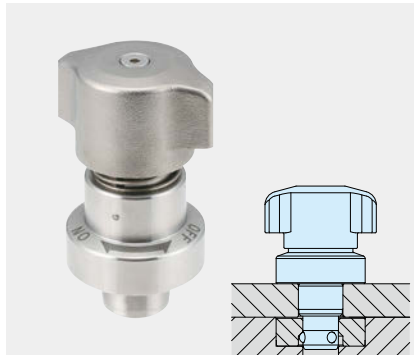
**ONE-TOUCH CLAMPING
LOCATORS**

Part No. CP722



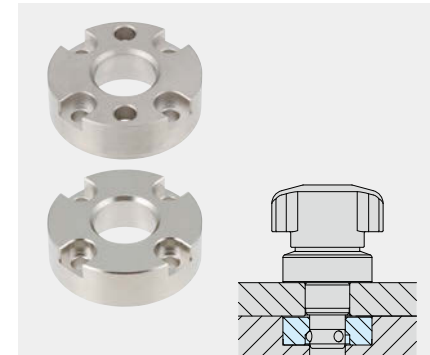
LOCATING RECEIVERS

Part No. CP727



**RETRACTABLE ONE-TOUCH
CLAMPING LOCATORS**

Part No. CP740



LOCATING RECEIVERS

Part No. CP745



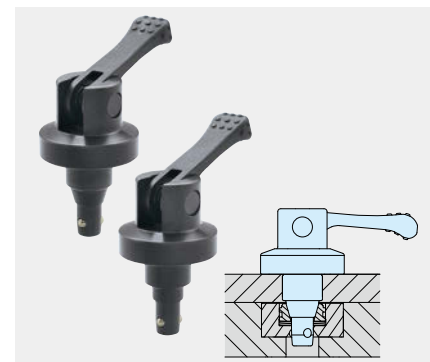
**PRECISION ONE-TOUCH
CLAMPING LOCATORS**

Part No. CP741



LOCATING RECEIVERS

Part No. AMWF-BU



**ONE-TOUCH CLAMPING
LOCATORS**

Part No. CP731



*Bağlama ekipmanlarında kalite üretiyoruz..
We produce quality in clamping equipment..*

www.er-el.com.tr



QCTH / QCTHL / QCTHH QUARTER-TURN CLAMPS

RoHS Stainless Steel

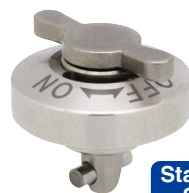
IMAO



QCTH
(Plastic Knob)



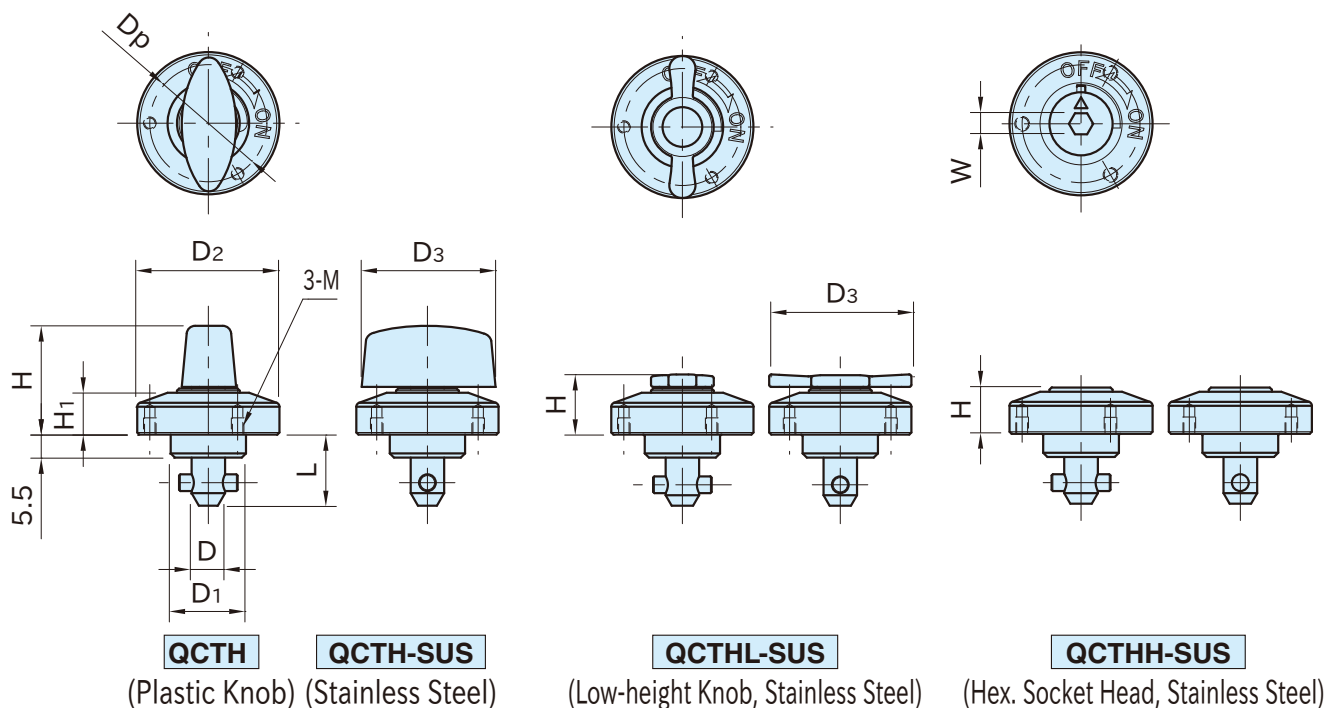
QCTH-SUS
(Stainless Steel)



QCTHL-SUS
(Low-height Knob, Stainless Steel)



QCTHH-SUS
(Hex. Socket Head, Stainless Steel)



★Key Point

Easy-to-read ON/OFF position

Type	Body, Shank	Pin	Knob	Spring
QCTH	SUS303 stainless steel	SUS304 stainless steel	Polyamide (glass-fiber reinforced) Black	Equivalent to SWOSC-V steel
QCTH-SUS			SCS13 stainless steel (Equivalent to SUS304)	SUS304 stainless steel
QCTHL-SUS			—	
QCTHH-SUS			—	

Size	Plate Thickness	D (-0.04 -0.08)	D ₁ (h9)	D ₂	L	H ₁	M	D _p	Clamping Force (N)	Holding Force (N) **)
QCTH	0525-10	3~10 *)	5	14	25	15.5	6.5	M2×0.4Depth3	21	60
QCTH-SUS	0834-14	3~14 *)	8	18	34	17	10	M3×0.5Depth4	28	90
QCTHL-SUS	0834-20	12~20				23				

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

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

Size		Cam Receptacles	Floating Receptacles
QCTH	0525-10	QCTH0525-N, QCTH0525-B	QCTH0525-FL-SUS
QCTH-SUS		QCTH0525-N-SUS, QCTH0525-B-SUS	
QCTHL-SUS	0834-14	QCTH0834-N, QCTH0834-B	QCTH0834-FL-SUS
QCTHH-SUS	0834-20	QCTH0834-N-SUS, QCTH0834-B-SUS	

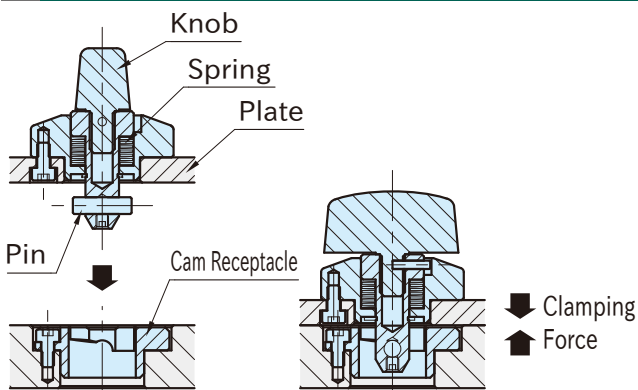
QCTH (Plastic Knob)				QCTH-SUS (Stainless Steel)			
Part Number	D ₃	H	Weight (g)	Part Number	D ₃	H	Weight (g)
QCTH0525-10	20	19	35	QCTH0525-10-SUS	20	19	40
QCTH0834-14	32	26	105	QCTH0834-14-SUS	32	25.5	130
QCTH0834-20			110	QCTH0834-20-SUS			135

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

Supplied With

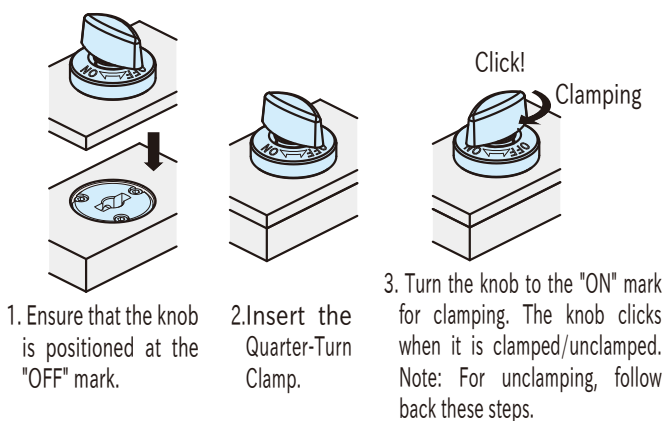
- **QCTH** **QCTH-SUS** **QCTHL-SUS** **QCTHH-SUS** 0525-10: 3 of socket-head cap screws (stainless steel), M2×0.4-5L
- **QCTH** **QCTH-SUS** **QCTHL-SUS** **QCTHH-SUS** 0834-14, 0834-20: 3 of socket-head cap screws (stainless steel), M3×0.5-6L

Feature

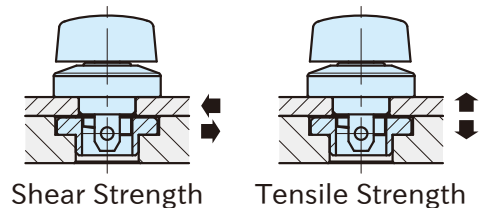


When the pin contacts the cam in the Cam Receptacle, the spring gets compressed to press down the plate.

How To Use



Mechanical Strength



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

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

QCTH-N / QCTH-B CAM RECEPTACLES



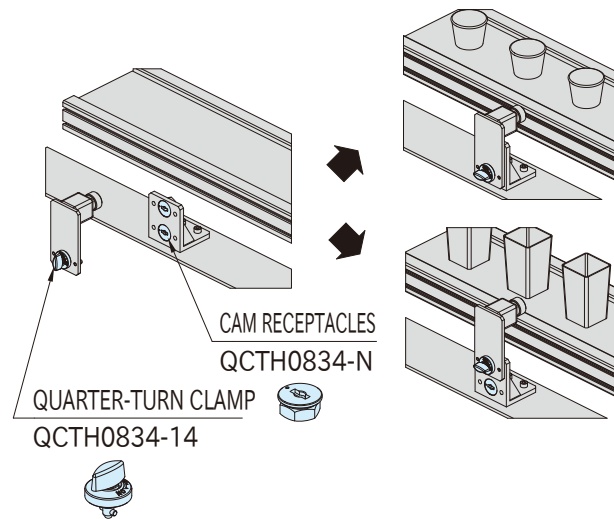
QCTH-FL FLOATING RECEPTACLES



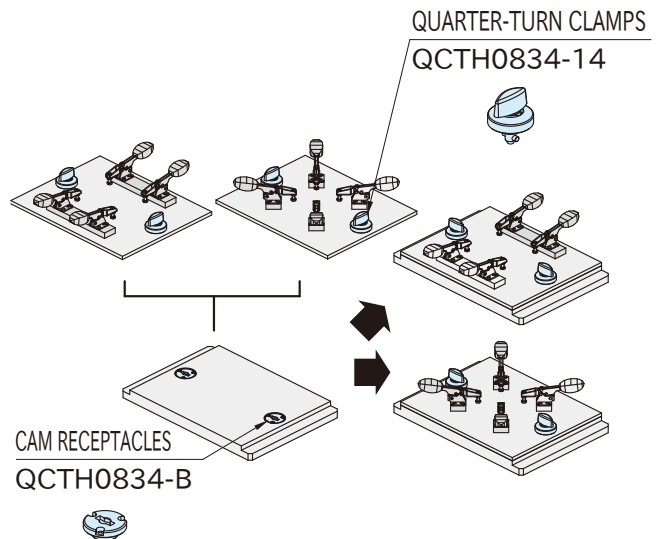
Continuing on Next Page

Application Example

Changes of camera positions



Changes of fixture plates



How To Install

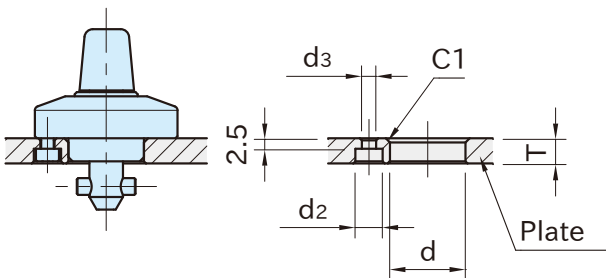
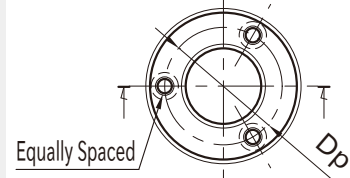
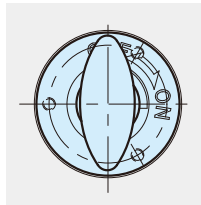
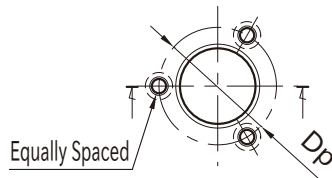
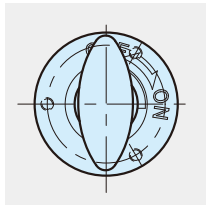


Figure A

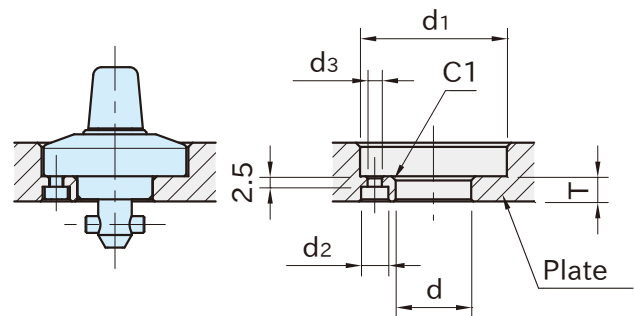


Figure B

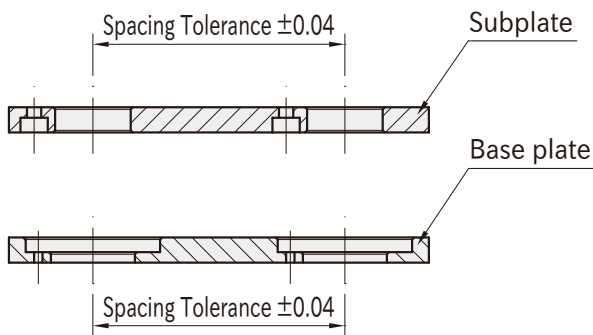
Size		Plate Thickness	Figure	d (+0.10 +0.05)	d ₁	T (±0.2)	d ₂	d ₃	Dp
QCTH QCTH-SUS QCTHL-SUS QCTHH-SUS	0525-10	3 or more, under 6	Spacer QCASP is required.						
		6	A	14	—	6	4.4	2.4	21
		Over 6, 10 or less	B		26				
	0834-14	3 or more, under 6	Spacer QCASP is required.						
		6	A	18	—	6	6.5	3.4	28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

QCASP SPACERS



Accuracy

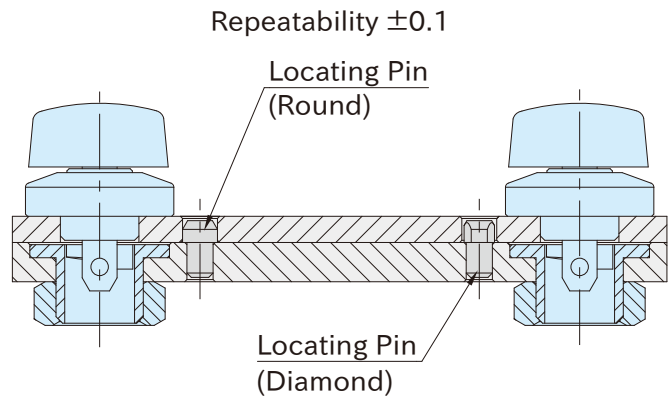
■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ± 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

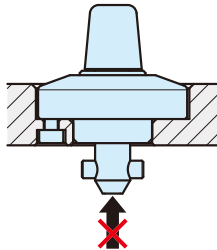


For higher accurate locating, use locating pins.

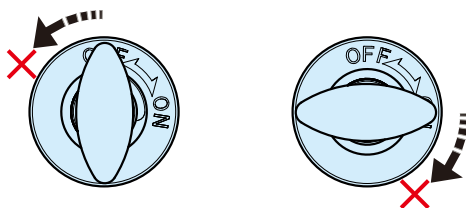
Caution

Note the following cautions using **QCTH**, **QCTH-SUS**, **QCTHL-SUS**, **QCTHH-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.



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.

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCTHA

RETRACTABLE QUARTER-TURN CLAMPS



Stainless Steel

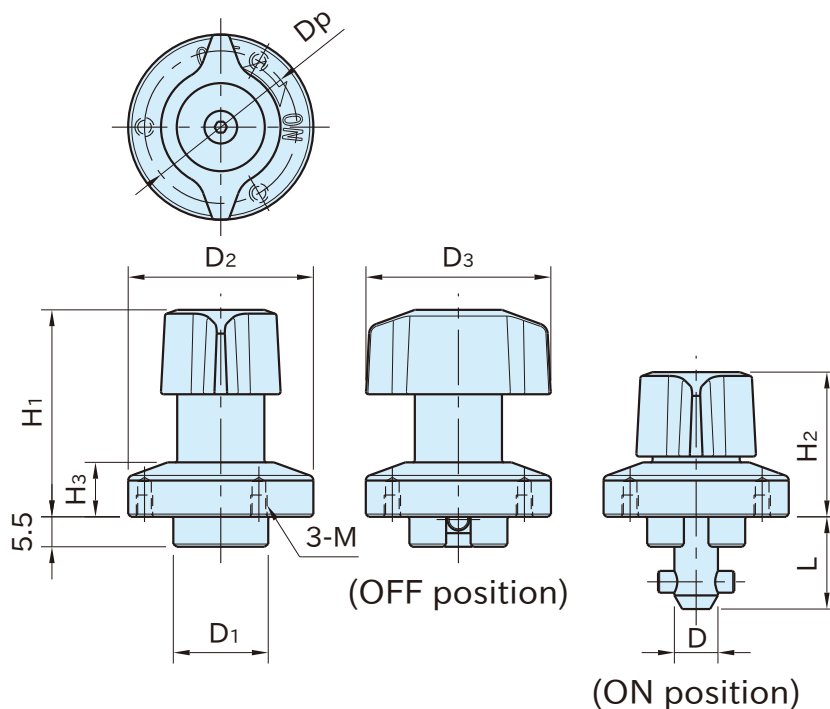


QCTHA
(Plastic Knob,
OFF position)



QCTHA-SUS
(Stainless Steel,
ON position)

★ **One Point**
No interference by retractable shank



Type	Body	Shank	Pin	Knob	Spring A	Spring B
QCTHA	SUS303 stainless steel	S45C steel Electroless nickel plated	SUS304 stainless steel	Polyamide (glass-fiber reinforced) Black	Equivalent to SWOSC-V steel	SUS304WPB stainless steel
QCTHA-SUS		SUS303 stainless steel		SCS13 stainless steel (Equivalent to SUS304)	SUS304-CSP stainless steel	

Size	Plate Thickness	D (-0.04 -0.08)	D ₁ (h9)	D ₂	D ₃	L	H ₁	H ₂	H ₃	M	D _p	Clamping Force(N)	Holding Force (N)**)
QCTHA 0525-10	3~10 *)	5	14	25	25	15.5	30	20	6.5	M2x0.4Depth3	21	60	60
QCTHA-SUS 0834-14	3~14 *)	8	18	34	34	17	38	26.5	10	M3x0.5Depth4	28	90	90

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

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

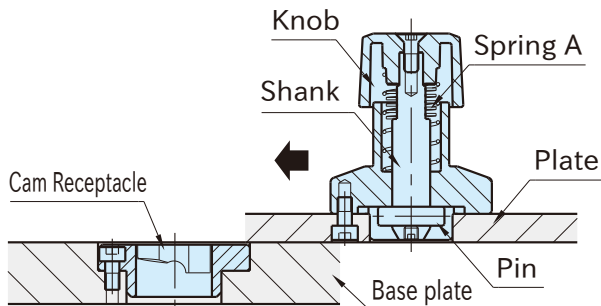
Size	Cam Receptacles	Floating Receptacles
QCTHA 0525-10	QCTH0525-N, QCTH0525-B QCTH0525-N-SUS, QCTH0525-B-SUS	QCTH0525-FL-SUS
QCTHA-SUS 0834-14	QCTH0834-N, QCTH0834-B QCTH0834-N-SUS, QCTH0834-B-SUS	QCTH0834-FL-SUS

QCTHA (Plastic Knob)		QCTHA-SUS (Stainless Steel)	
Part Number	Weight (g)	Part Number	Weight (g)
QCTHA0525-10	40	QCTHA0525-10SUS	53
QCTHA0834-14	100	QCTHA0834-14SUS	117

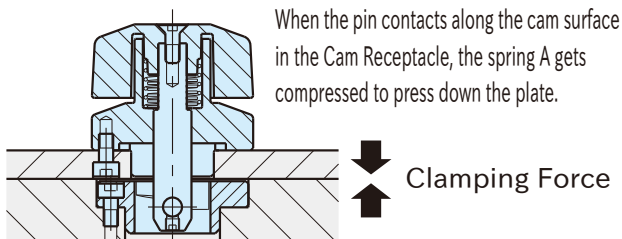
Supplied With

- QCTHA QCTHA-SUS 0525-10: 3 of socket-head cap screws (stainless steel), M2×0.4-5L
- QCTHA QCTHA-SUS 0834-14: 3 of socket-head cap screws (stainless steel), M3×0.5-6L

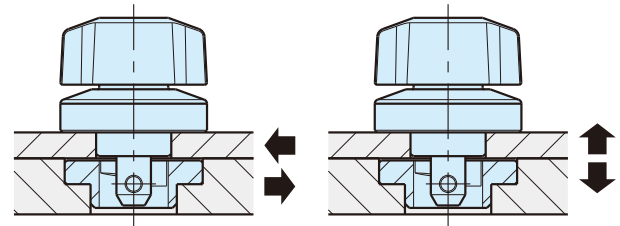
Feature



The shank retracts at the unclamping position to enable operations without interference with the base plate.



Mechanical Strength



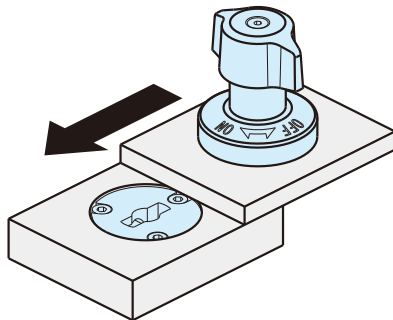
Shear Strength

Tensile Strength

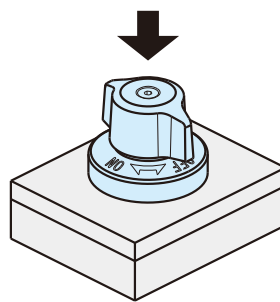
Size		Heatresistant Temperature(°C)	Shear Strength at Failure(N)	Tensile Strength at Failure(N)
QCTHA	0525-10	130	1800	1200
	0834-14		3200	400
QCTHA-SUS	0525-10	180	1800	1200
	0834-14		3200	

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

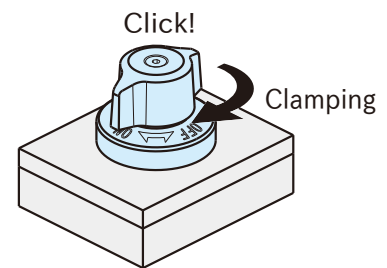
How To Use



1. Ensure that the knob is positioned at the "OFF" mark and the shank is retracted.



2. Insert Retractable Quarter-Turn Clamp pressing the knob.



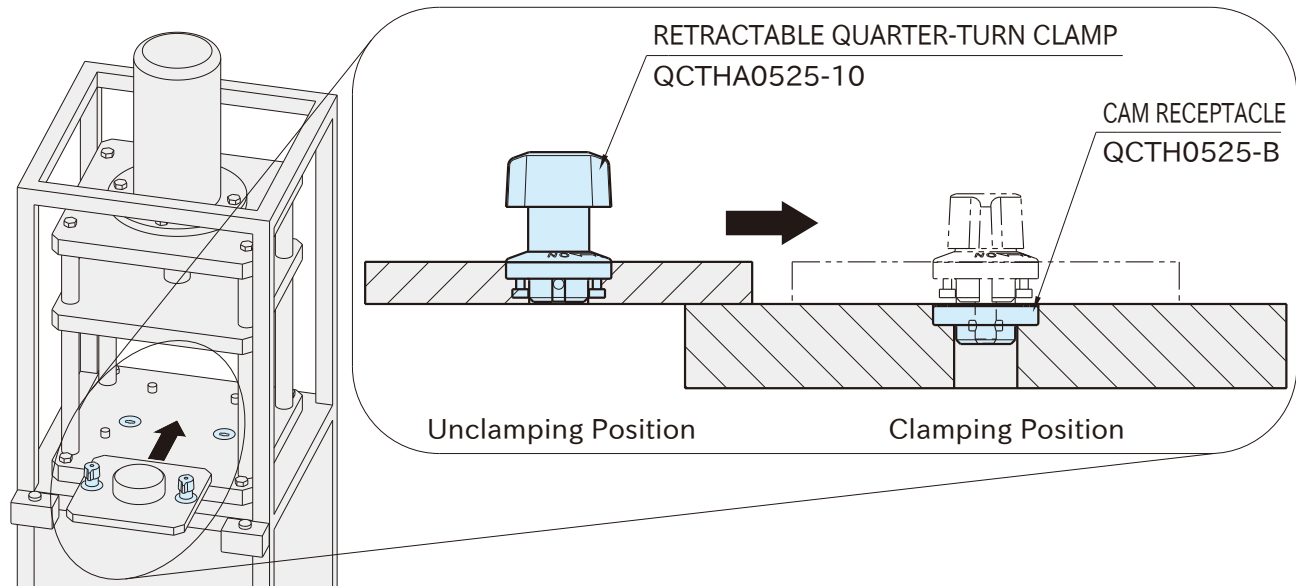
3. Turn the knob to the "ON" mark for clamping. The knob clicks when clamped. Turning the knob to the "OFF" position, the shank returns automatically to the unclamping position by the spring.

QCTH-N, QCTH-B	CAM RECEPTACLES	QCTH-FL	FLOATING RECEPTACLES

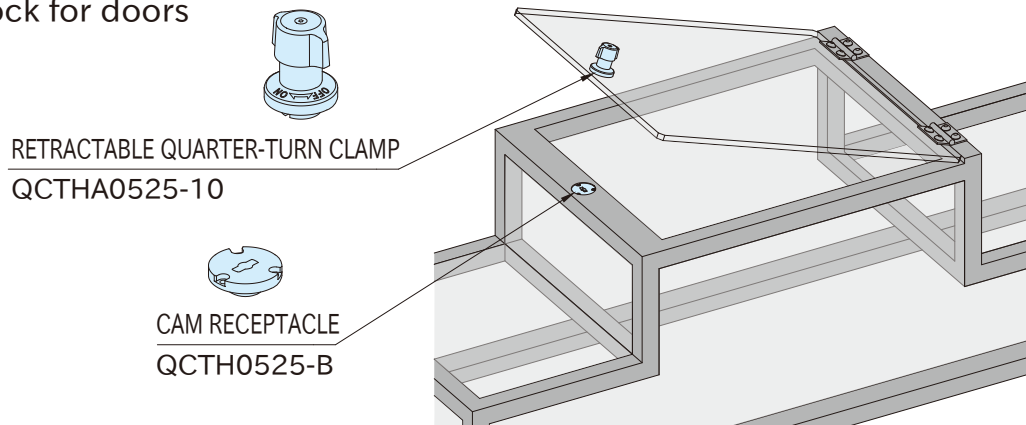
Continuing on Next Page

Application Example

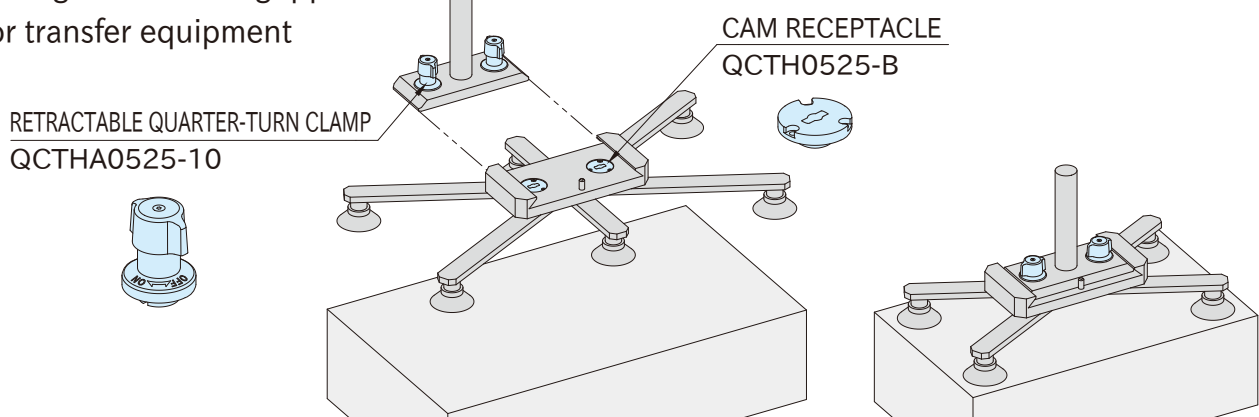
Changes of fixture plates



Lock for doors



Changes of suction grippers for transfer equipment



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.

How To Install

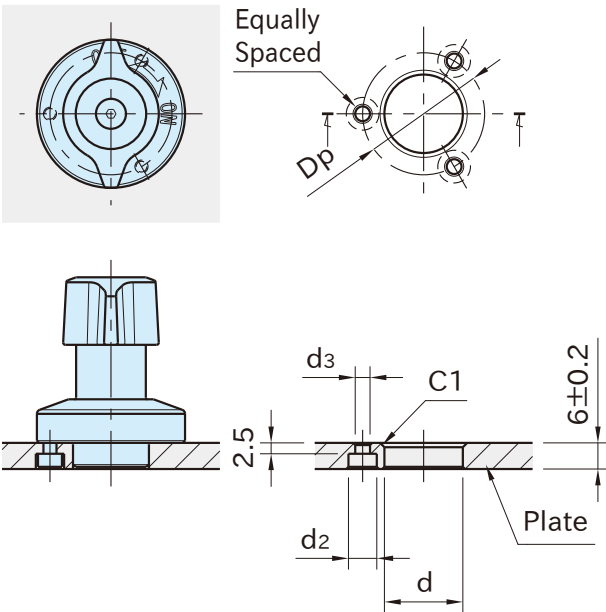


Figure A

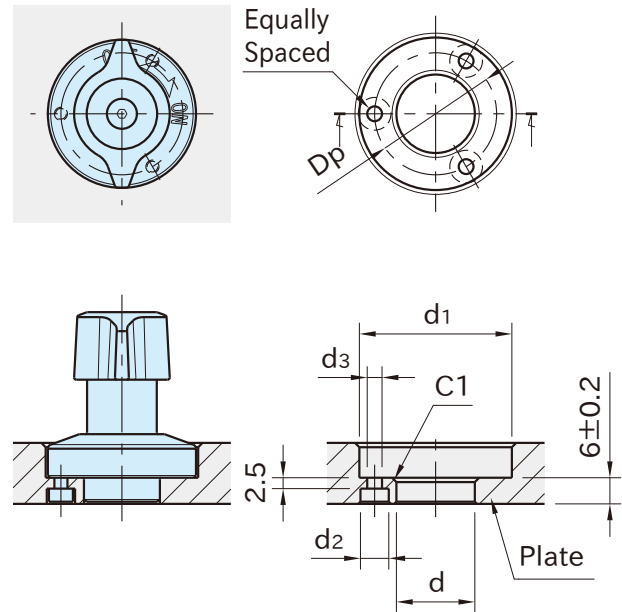


Figure B

Size		Plate Thickness	Figure	D (+0.10 +0.05)	d ₁	d ₂	d ₃	Dp
QCTHA QCTHA-SUS	0525-10	3 or more, under 6	Spacer QCASP is required.					
		6	A	14	—	4.4	2.4	21
		Over 6, 10 or less	B		26			
	0834-14	3 or more, under 6	Spacer QCASP is required.					
		6	A	18	—	6.5	3.4	28
		Over 6, 14 or less	B		35			

QCASP SPACERS



Accuracy

■ Machining Accuracy

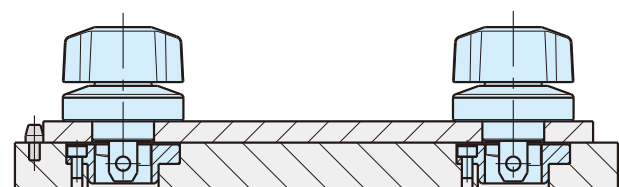
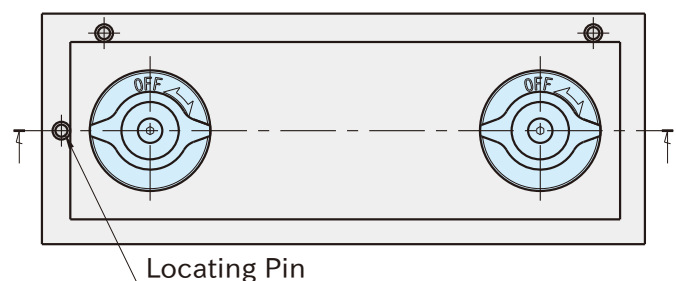


Spacing tolerance on both the subplate and the base plate should be ± 0.04 .

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

Repeatability ± 0.1



For higher accurate locating, use locating components.



★Key Point

Allow quarter-turn clamps to be mounted on 3mm plate.

Body

SUS303 stainless steel

Part Number	D	d (^{+0.1} ₀)	Dp	d4	Weight (g)
QCASP25-03-SUS	25	14	21	2.3	8
QCASP34-03-SUS	34	18	28	3.5	15.5

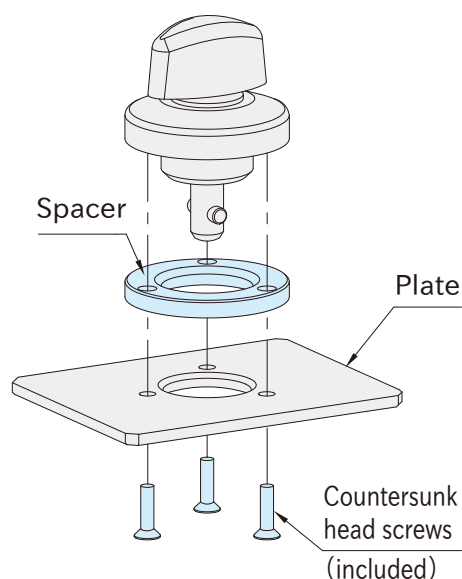
Supplied With

- **QCASP25-03-SUS**:
3 of countersunk head screws(stainless steel),
M2x0.4-8L
- **QCASP34-03-SUS**:
3 of countersunk head screws(stainless steel),
M3x0.5-9L

Note:

To mount the spacer, use the included countersunk head screws.

How To Use



How To Install

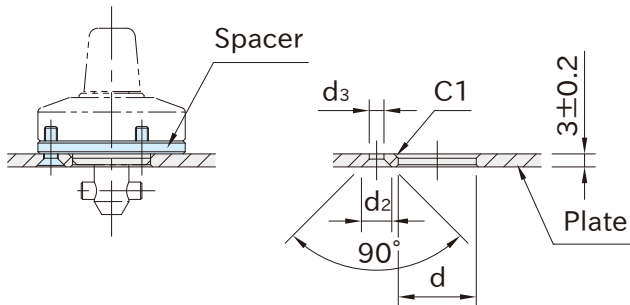
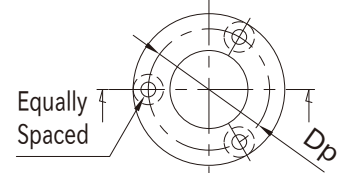
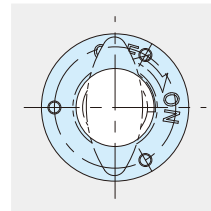
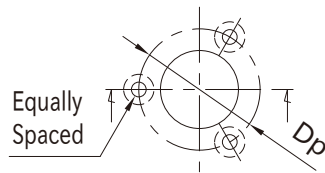
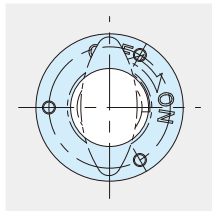


Figure A

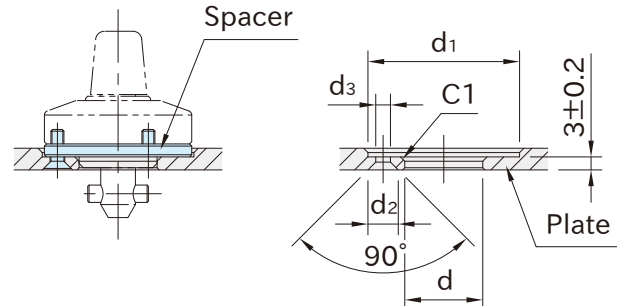


Figure B

Part Number	Plate Thickness	Figure	d ($+0.10$ $+0.05$)	d ₁	T* (± 0.2)	d ₂	d ₃	D _p
QCASP25-03-SUS	3	A	14	—	3	5	2.4	21
	Over 3, under 6	B		26				
QCASP34-03-SUS	3	A	18	—		7	3.4	28
	Over 3, under 6	B		35				

Part Number	Quarter-Turn Clamps		Retractable Quarter-Turn Clamps		Heavy Duty Quarter-Turn Clamps	
QCASP25-03-SUS	QCTH	0525-10	QCTHA	0525-10	QCTHS	0825-20
	QCTH-SUS		QCTHA-SUS		QCTHS-S	
QCASP34-03-SUS	QCTHL-SUS	0834-14		0834-14		0834-20
	QCTHH-SUS					

Part Number	Pin Holding Clamps		Heavy Duty Pin Holding Clamps	
QCASP25-03-SUS	QCPC	0625-10	QCPCS	0625-20
QCASP34-03-SUS	QCPC-SUS	0834-14	QCPCS-SUS	0834-20

Part Number	Knob-Locking Pins		Retractable Knob-Locking Pins	
QCASP25-03-SUS	QCWE	0625-10	QCWEA-SUS	0625-10
QCASP34-03-SUS	QCWE-SUS	1034-14		1034-14

Note: Combining **QCWE** / **QCWE-SUS** / **QCWEA-SUS** with Position Sensor Receptacles **QCWE-M-S** & Spacers **QCASP** requires a tolerance of ± 0.05 for dimension T to ensure stable sensor operation.

Quarter Turn

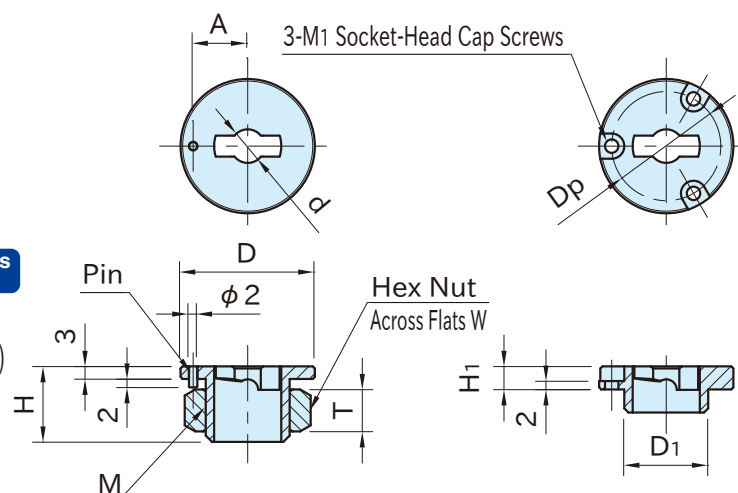
Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCTH-N / QCTH-B CAM RECEPTACLES



QCTH-N **QCTH-N-SUS** **QCTH-B** **QCTH-B-SUS**
(Thin-Plate Mount) (Thin-Plate Mount, Stainless Steel) (Embedded Mount) (Embedded Mount, Stainless Steel)

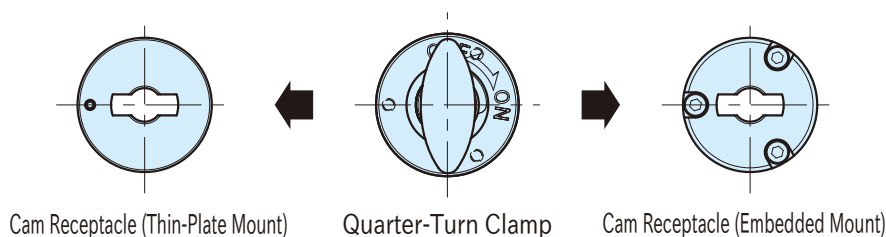
Type	Body	Nut
QCTH-N	SCM440 steel	Stainless steel
QCTH-B	Electroless nickel plated	—
QCTH-N-SUS	SCS24 stainless steel	Stainless steel
QCTH-B-SUS	(Equivalent to SUS630)	—

Part Number	Plate Thickness		D		H	d (+0.08 +0.04)	A (±0.1)	M	T	W	D ₁ (-0.04 -0.08)	H ₁	M ₁	D _p	Weight (g)	Quarter-Turn Clamps			
QCTH0525-N	Thin-Plate Mount	6~10	25	-0.04 -0.08	16	5	10.5	M14×1.5 (Fine Thread)	8	22	—	—	—	—	40	QCTH	0525-10		
QCTH0525-N-SUS					6~12	32	18	8	13	M20×1.5 (Fine Thread)							10	30	55
QCTH0834-N		QCTHL-SUS	0834-20																
QCTH0834-N-SUS		QCTHH-SUS	0525-10																
QCTH0525-B	Embedded Mount	10 or more	25	—	9	5	—	—	—	—	14	4.5	M2	21	20	QCTHA	0525-10		
QCTH0525-B-SUS		12 or more	32		11	8					20	5.5	M3	26	35		QCTHA-SUS	0834-14	
QCTH0834-B																		0834-20	
QCTH0834-B-SUS																			

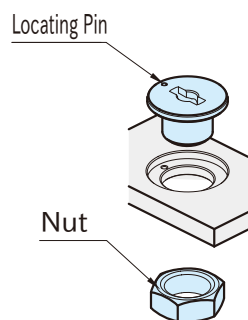
Supplied With

- **QCTH0525-B** **QCTH0525-B-SUS** : 3 of socket-head cap screws(stainless steel), M2×0.4-5L
- **QCTH0834-B** **QCTH0834-B-SUS** : 3 of socket-head cap screws(stainless steel), M3×0.5-6L

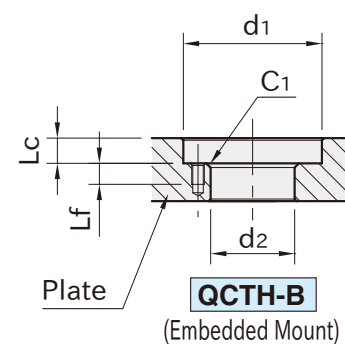
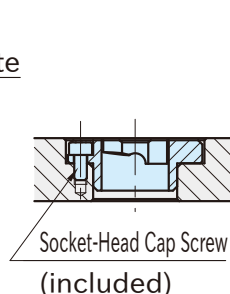
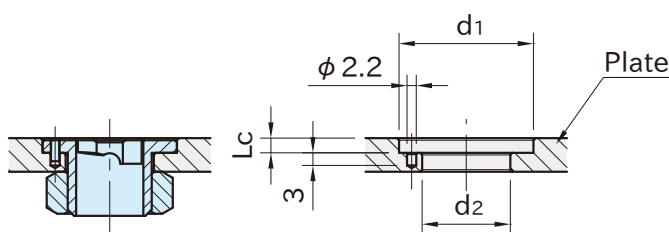
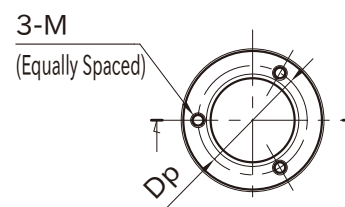
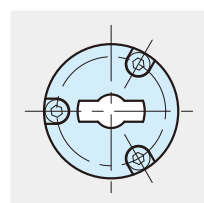
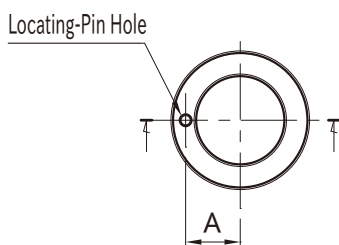
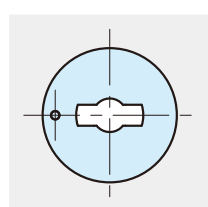
Installing Position



How To Install



Locate the Cam Receptacle with the locating pin and fasten it with the nut.



Part Number	Plate Thickness		d ₁		d ₂		A (±0.1)	L _c (^{+0.10} ₀)	M	L _f	D _p		
QCTH0525-N	Thin-Plate Mount	6~10	25	+0.10 +0.05	15	—	10.5	3.5	—	—	—		
QCTH0525-N-SUS													
QCTH0834-N		6~12	32		21		13						
QCTH0834-N-SUS													
QCTH0525-B	Embedded Mount	10 or more	26	—	14	+0.10 +0.05	—	5	M2×0.4	4	21		
QCTH0525-B-SUS													
QCTH0834-B		12 or more	33		20			6		M3×0.5		5	26
QCTH0834-B-SUS													

Reference

"Accuracy" of [QCTHA](#) [QCTH](#) [QCTHL](#) [QCTHH](#) Quarter-Turn Clamps

Quarter Turn

Button Push

Twist Coupling

Push Pull

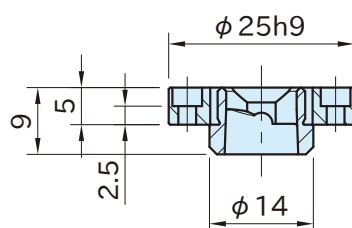
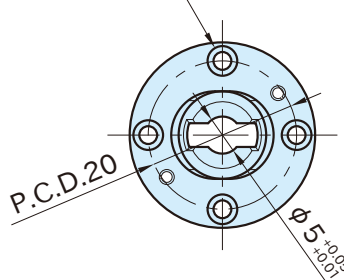
Locate & Clamp



Stainless Steel

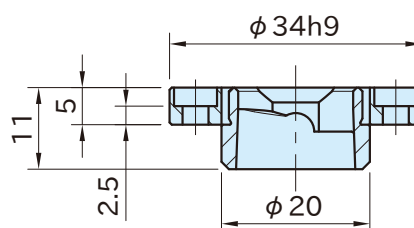
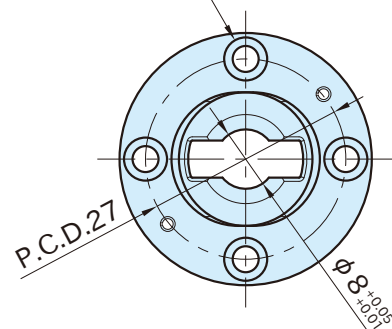


4-For M2 Socket-Head Cap Screws



QCTH0525-FL-SUS

4-For M3 Low Head Cap Screws



QCTH0834-FL-SUS

★Key Point

Work with rough mounting hole spacing

Flange	Slider	Spring Pin	Pin
SUS303 stainless steel	SCS24 stainless steel (Equivalent to SUS630) Precipitation hardened	SUS420J2 stainless steel	Stainless steel Quenched and tempered

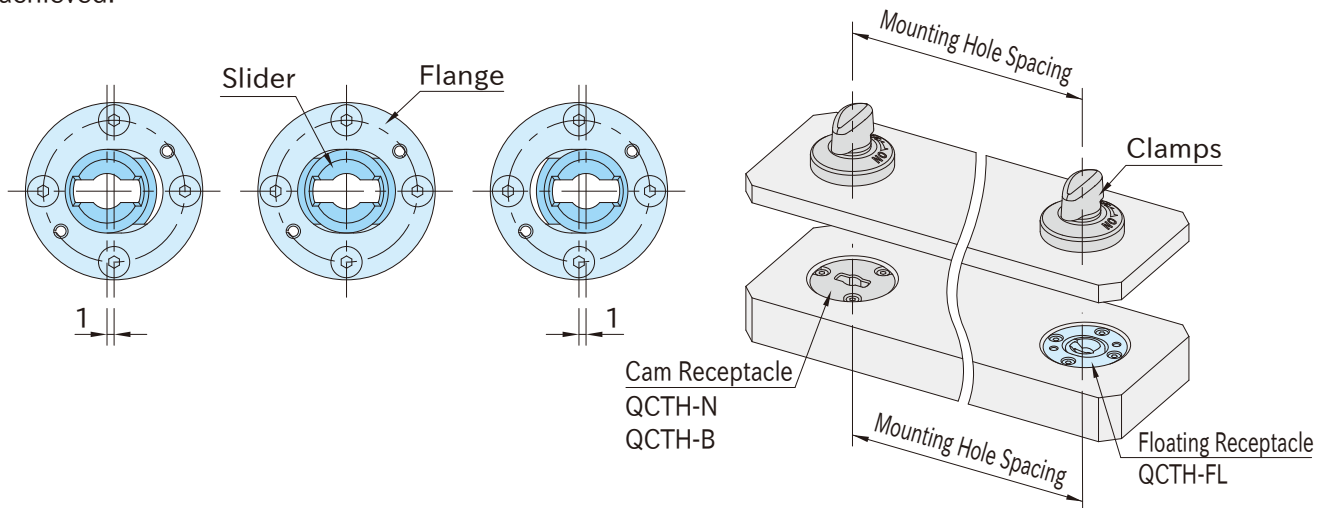
Part Number	Plate Thickness	Weight (g)	Quarter-Turn Clamps		Retractable Quarter-Turn Clamps	
QCTH0525-FL-SUS	10 or more	16	QCTH	0525-10	QCTHA	0525-10
QCTH0834-FL-SUS	12 or more	34	QCTH-SUS QCTHL-SUS QCTHH-SUS	0834-14 0834-20	QCTHA-SUS	0834-14

Supplied With

- **QCTH0525-FL-SUS**:
4 of socket-head cap screws(stainless steel), M2×0.4-5L
- **QCTH0834-FL-SUS**:
4 of low head cap screws(stainless steel), M3×0.5-6L

Feature

The slider, which slides 1 mm to the left and right, extends the tolerance range of the mounting hole spacing. This allows secure mounting even when the required spacing tolerance for each applicable clamp cannot be achieved.



Technical Information

Heat resistant temperature, shear strength, and tensile strength are in accordance with the clamps used.

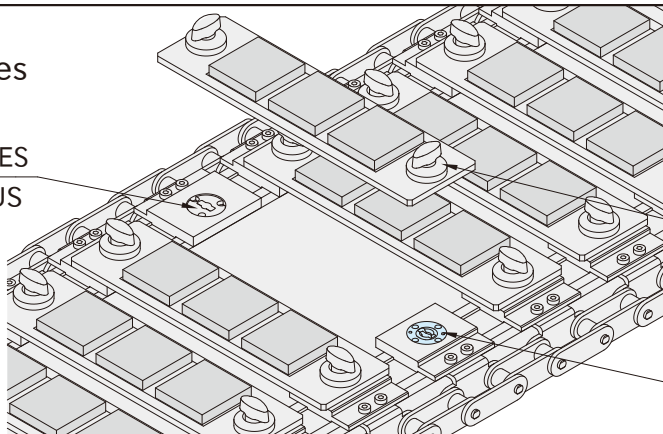
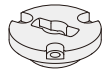
Note

- Use this product in pairs with **QCTH-N** or **QCTH-B** receptacles for use with two applicable clamps.
- The color of the slider could be different from the picture due to the hardening.

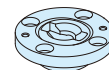
Application Example

Changes of conveyor plates

CAM RECEPTACLES
QCTH0834-B-SUS

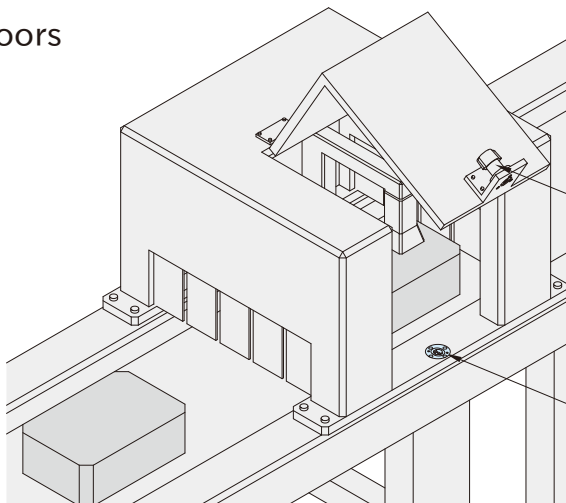


QUARTER-TURN CLAMPS
QCTH0834-14-SUS

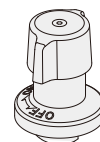


FLOATING RECEPTACLES
QCTH0834-FL-SUS

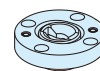
Lock for doors



RETRACTABLE
QUARTER-TURN CLAMPS
QCTHA0525-10

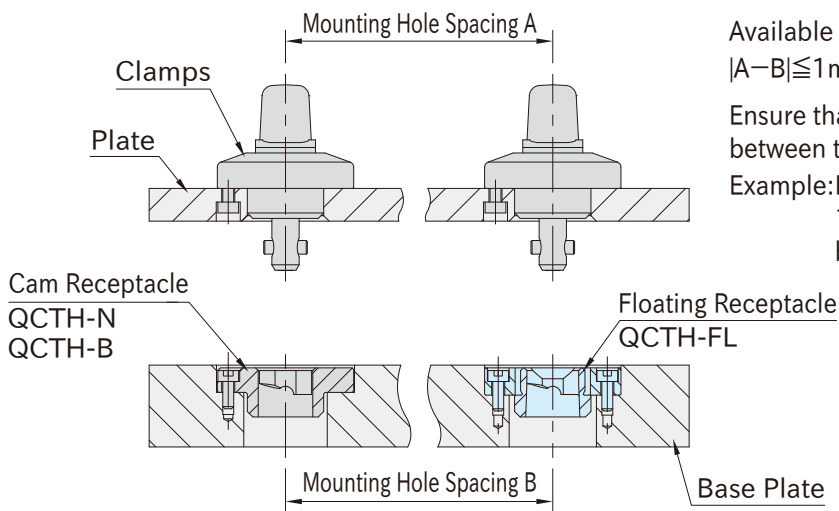


FLOATING RECEPTACLES
QCTH0525-FL-SUS



Continuing on Next Page

How To Set Mounting Hole Spacing



Available conditions:

$$|A - B| \leq 1 \text{ mm}$$

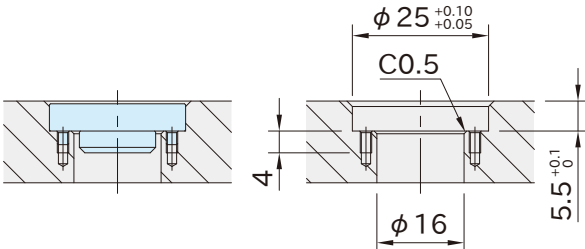
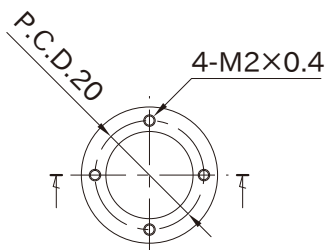
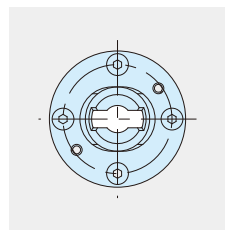
Ensure that the difference in mounting hole spacing between the plate and the base plate is within 1 mm.

Example: If the mounting hole spacing of the plate is 100 ± 0.1 , the mounting hole spacing of the base can be up to 100 ± 0.9 .

How To Instal

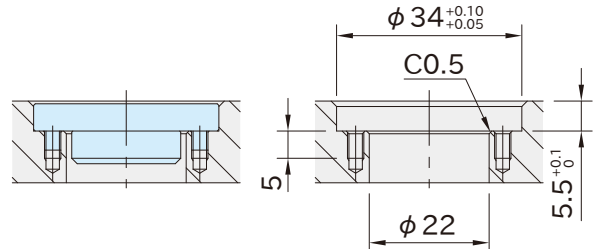
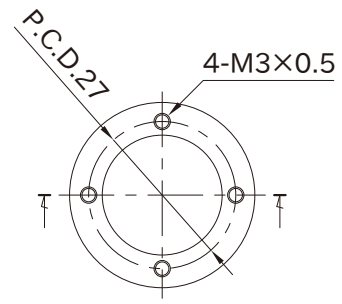
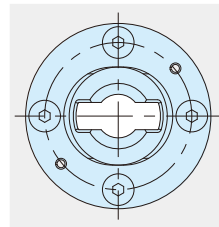
QCTH0525-FL-SUS

Plate thickness should be 10 mm or more.



QCTH0834-FL-SUS

Plate thickness should be 12 mm or more.



Accuracy

Repeatability is in accordance with the clamps used.

Reference

- QCTH QCTHL QCTHH QUARTER-TURN CLAMPS
- QCTHA RETRACTABLE QUARTER-TURN CLAMPS
- QCTH-N QCTH-B CAM RECEPTACLES



Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..

www.er-el.com.tr



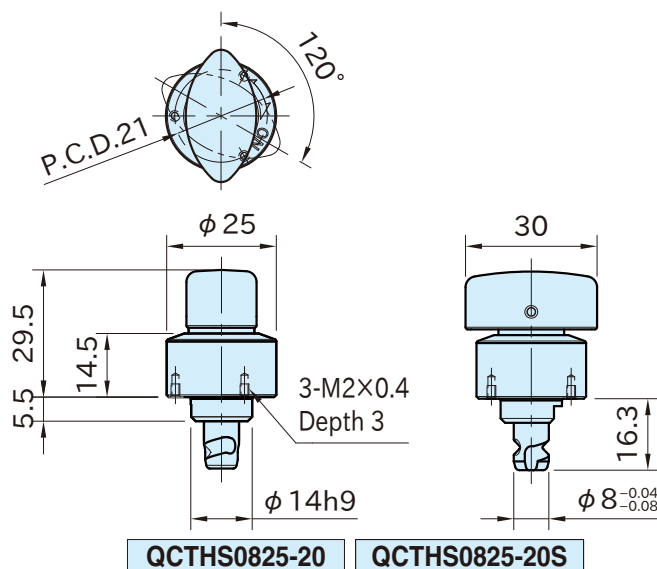
QCTHS

(Plastic Knob)



QCTHS-S

(Metal Knob)

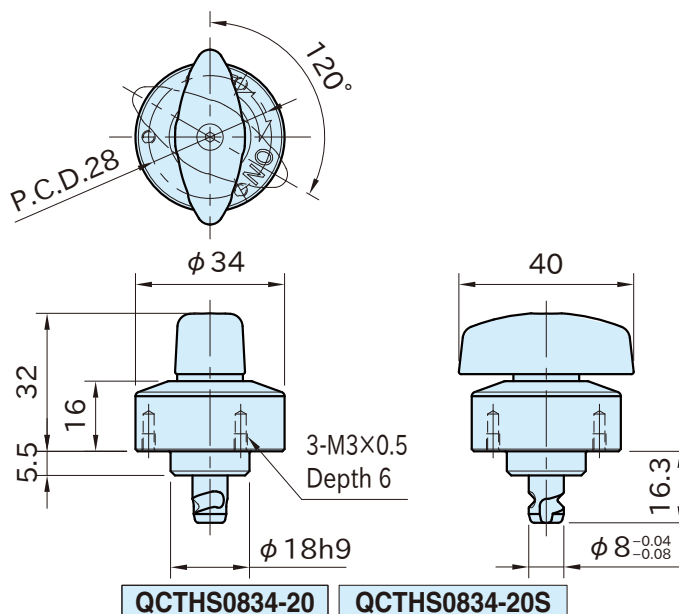


QCTHS0825-20

QCTHS0825-20S

★Key Point

Clamping force 400N, 250N



QCTHS0834-20

QCTHS0834-20S

Type	Body	Shank	Pin	Knob	Spring
QCTHS	SUS303 stainless steel	SKS3 steel Electroless nickel plated Quenched and tempered	Stainless steel Quenched and tempered	Polyamide (glass-fiber reinforced) Black	Equivalent to SWOSC-V steel
QCTHS-S				SCS13 stainless steel (Equivalent to SUS304)	

Part Number	Plate Thickness	Clamping Force (N)	Holding Force (N)**	Weight (g)	Locking Receptacle	Floating Receptacles
QCTHS0825-20	3~20)	250	250	62	QCTHS0834-B	QCTHS0834-FL-SUS
QCTHS0825-20S				84		
QCTHS0834-20		400	400	121		
QCTHS0834-20S				157		

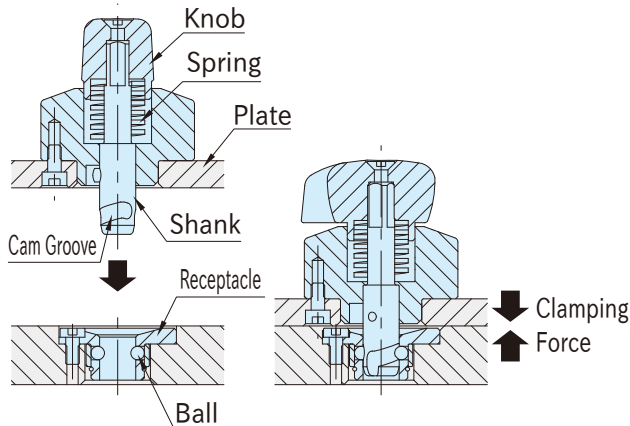
*) Spacer **QCASP** is required for thinner plate than 6mm.

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

Supplied With

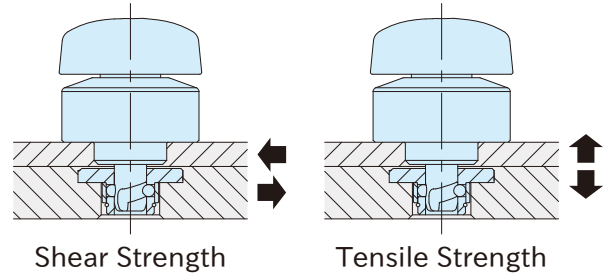
- **QCTHS** **QCTHS-S** 0825-20:3 of socket-head cap screws(stainless steel),M2×0.4-5L
- **QCTHS** **QCTHS-S** 0834-20 :3 of socket-head cap screws(stainless steel),M3×0.5-6L

Feature



When the cam groove moves along the ball inside the receptacle, the spring gets compressed to press down the plate.

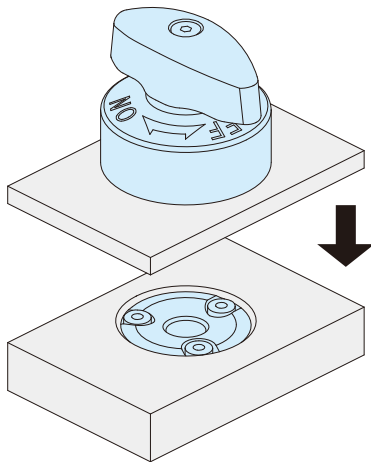
Mechanical Strength



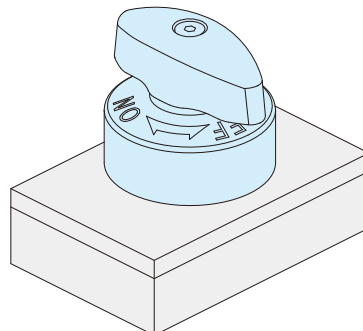
Part Number	Heatresistant Temperature (°C)	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCTHS0825-20	130	4800	1100
QCTHS0825-20S	180		1600
QCTHS0834-20	130		
QCTHS0834-20S	180		

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

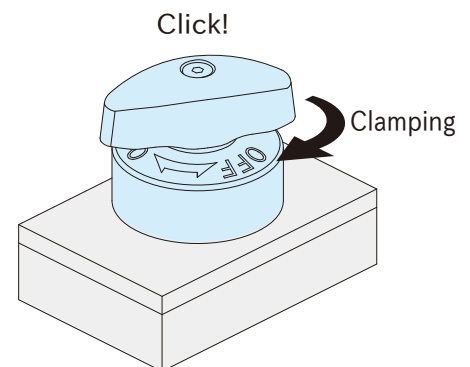
How To Use



1. Ensure that the knob is positioned at the "OFF" mark.



2. Insert the Heavy Duty 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.

QCTHS-B LOCKING RECEPTACLE



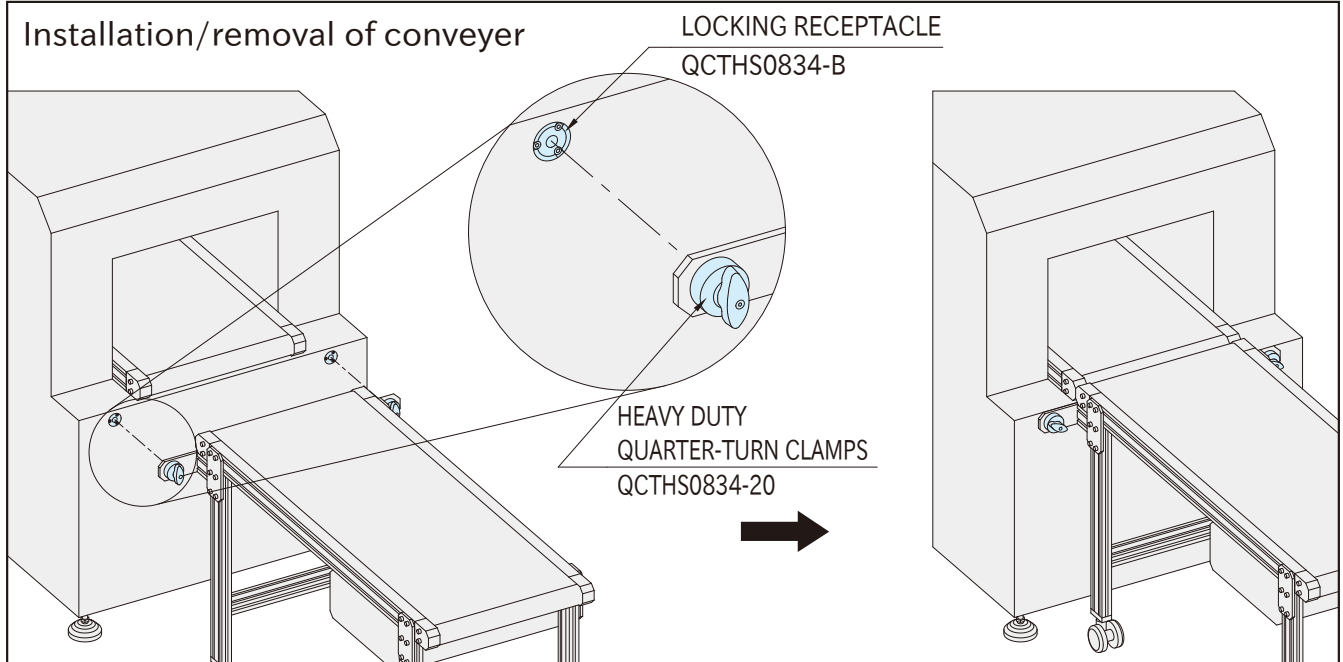
QCTHS-FL FLOATING RECEPTACLES



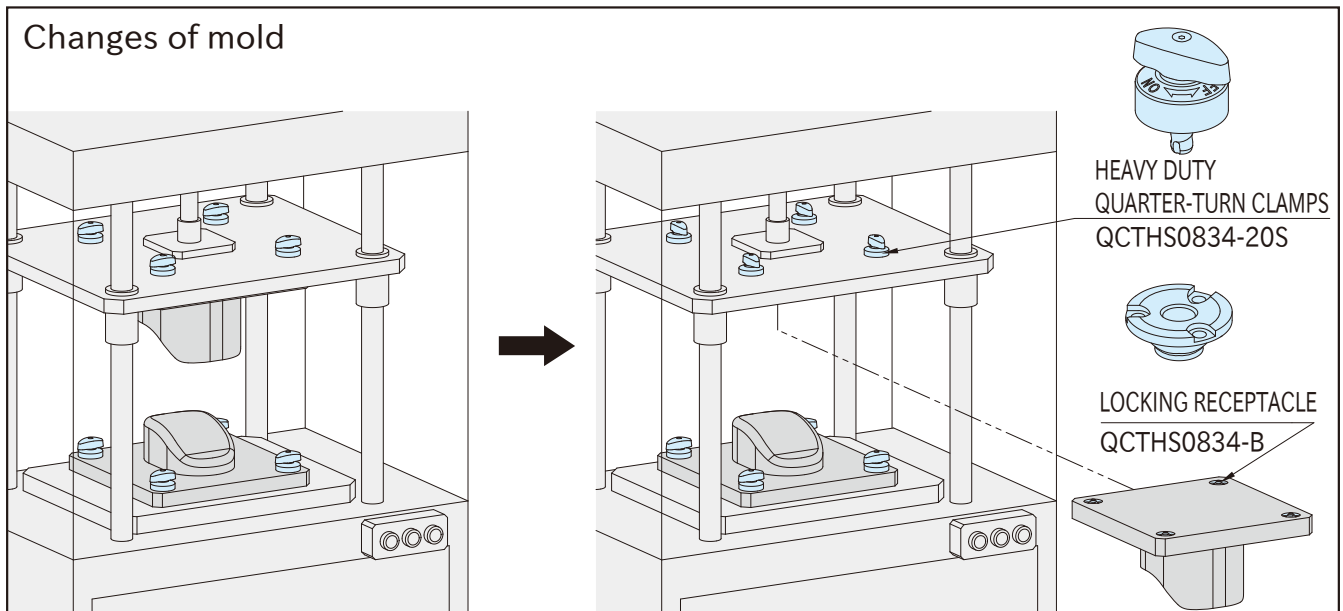
Continuing on Next Page

Application Example

Installation/removal of conveyer



Changes of mold



Reference

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

How To Install

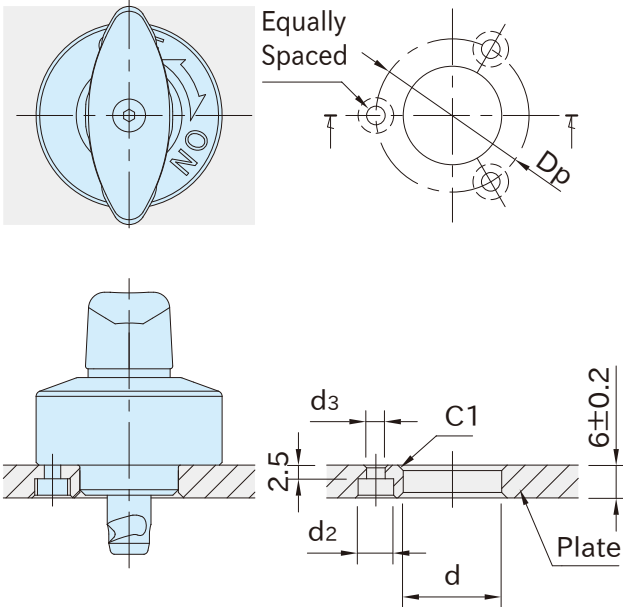


Figure A

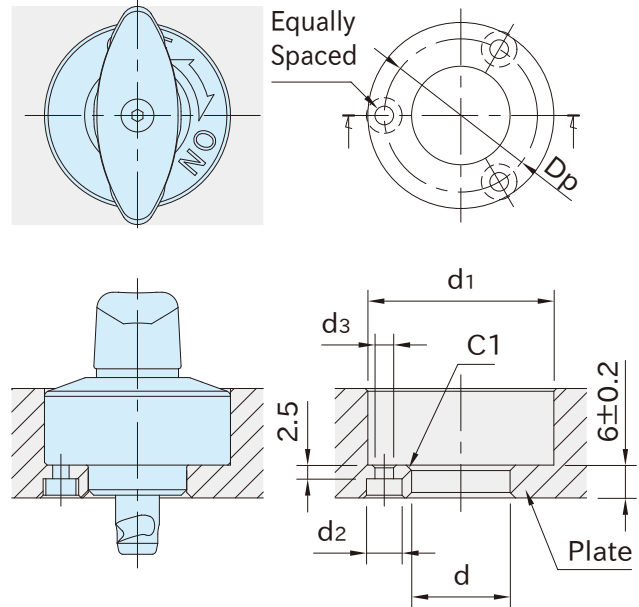


Figure B

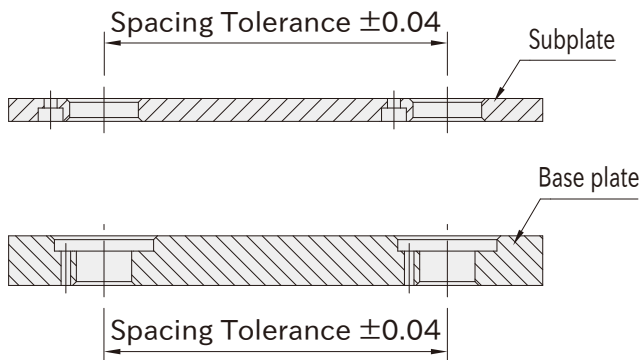
Size		Plate Thickness	Figure	d (+0.10 +0.05)	d ₁	d ₂	d ₃	Dp
QCTHS QCTHS-S	0825-20	3 or more, under 6	Spacer QCASP is required.					
		6	A	14	—	4.4	2.4	21
		over 6, 20 or less	B		26			
	0834-20	3 or more, under 6	Spacer QCASP is required.					
		6	A	18	—	6.5	3.4	28
		over 6, 20 or less	B		35			

QCASP SPACERS



Accuracy

■ Machining Accuracy

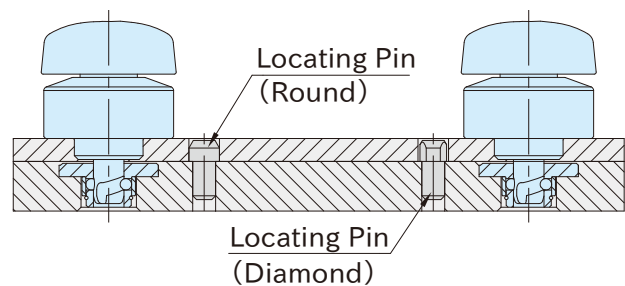


Spacing tolerance on both the subplate and the base plate should be ± 0.04 .

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

■ Repeatability

Repeatability ± 0.1



For higher accurate locating, use locating pins.

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCTHSA

RETRACTABLE HEAVY DUTY QUARTER-TURN CLAMPS



QCTHSA0825-20

(Plastic Knob,
OFF position)



QCTHSA0825-20S

(Metal Knob,
ON position)



QCTHSA0834-20

(Plastic Knob,
OFF position)

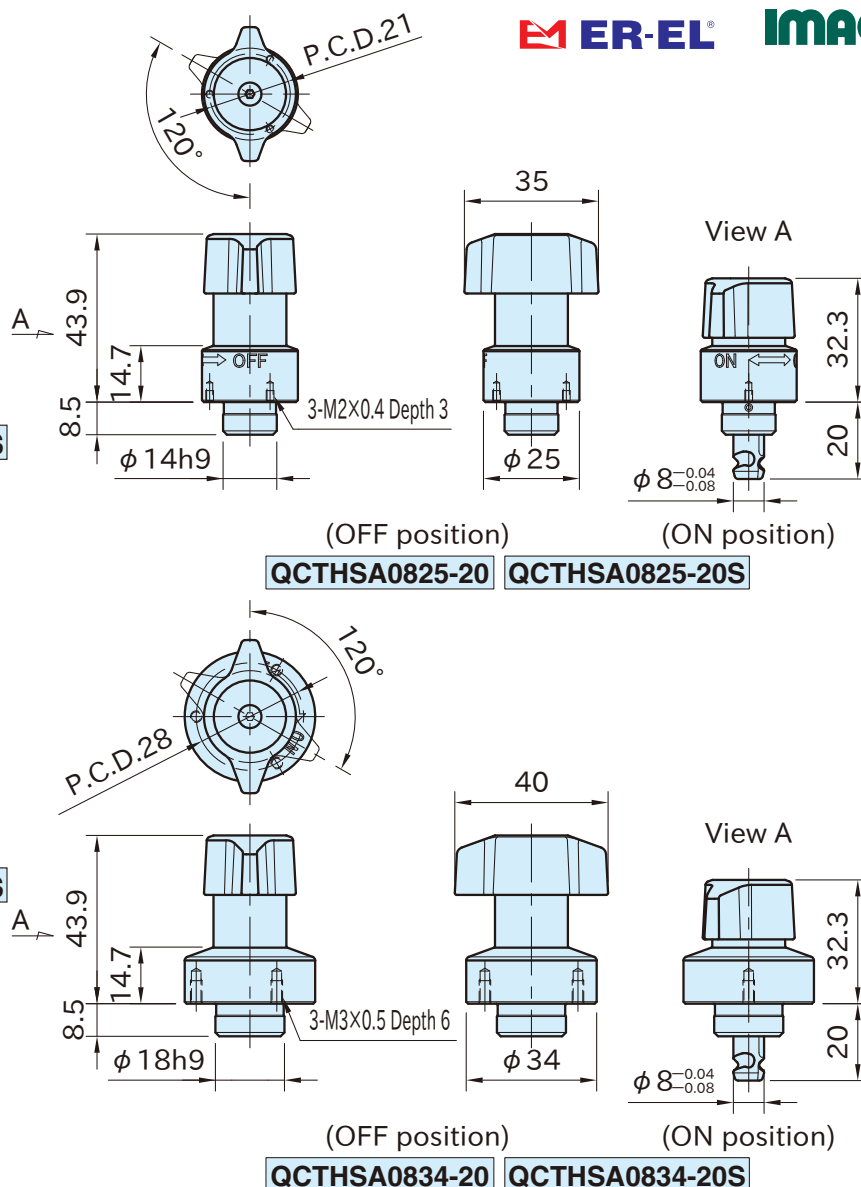


QCTHSA0834-20S

(Metal Knob,
ON position)

★Key Point

No interference by
retractable shank

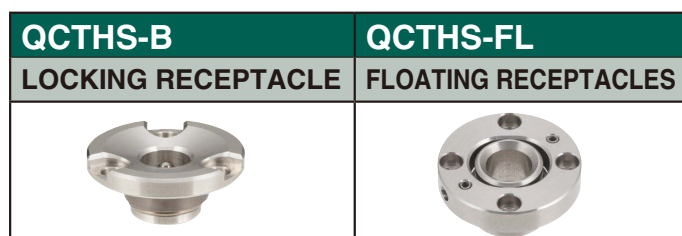


Type	Body	Shank	Pin	Knob	Spring A	Spring B
QCTHSA	SUS303 stainless steel	SKS3 steel Electroless nickel plated Quenched and tempered	SUS420J2 stainless steel Quenched and tempered	Polyamide(glass-fiber reinforced) Black	Equivalent to SWOSC-V steel	SUS304WPB stainless steel
QCTHSA-S	steel			SCS13 stainless steel (Equivalent to SUS304)		

Part Number	Plate Thickness	Clamping Force (N)	Holding Force (N) **)	Weight (g)	Locking Receptacle	Floating Receptacles
QCTHSA0825-20	6~20 *)	250	250	76	QCTHS0834-B	QCTHS0834-FL-SUS
QCTHSA0825-20S				104		
QCTHSA0834-20		400	400	130		
QCTHSA0834-20S				160		

*) Spacer **QCTHSA** is required for thinner plate than 9mm.

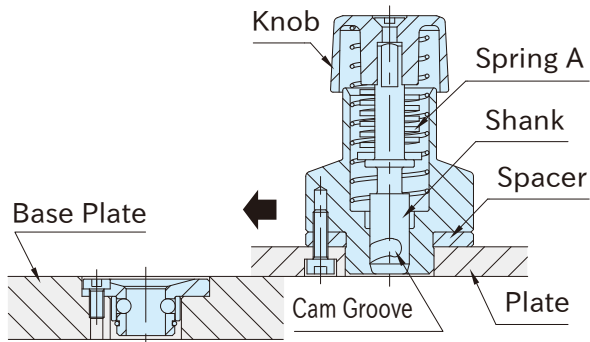
**) Exceeding the holding force creates a gap of greater than 0.1 mm between plates.



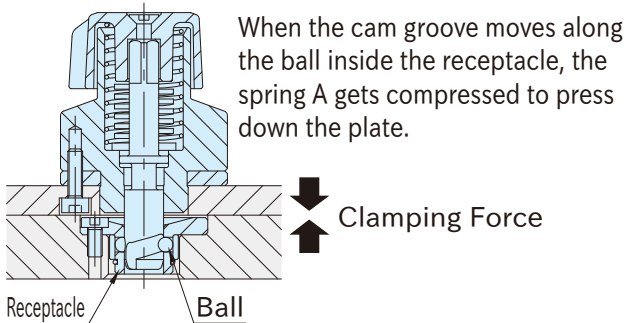
Supplied With

- **QCTHSA QCTHSA-S** 0825-20:
3 of socket-head cap screws(stainless steel) M2X0.4-8L
- **QCTHSA QCTHSA-S** 0834-20:
3 of socket-head cap screws(stainless steel) M3X0.5-10L

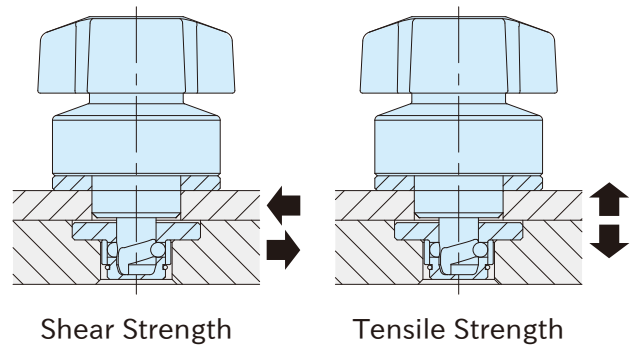
Feature



The shank retracts at the unclamping position to enable operations without interference with the base plate.



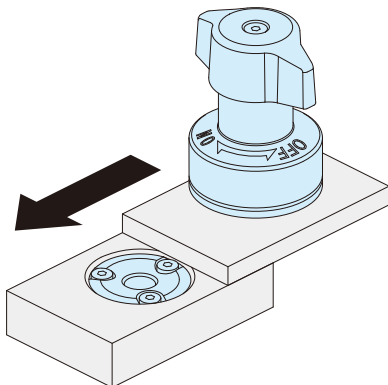
Mechanical Strength



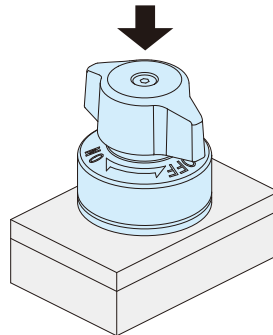
Part Number	Heatresistant Temperature(°C)	Shear Strength at Failure(N)	Tensile Strength at Failure(N)
QCTHSA0825-20	130	3000	1600
QCTHSA0825-20S	180		
QCTHSA0834-20	130		
QCTHSA0834-20S	180		

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

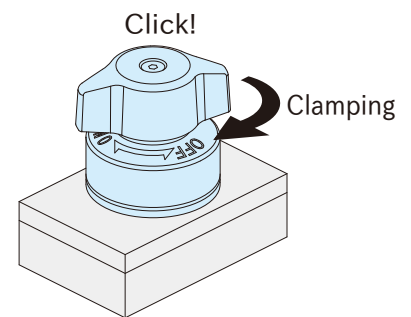
How To Use



1. Ensure that the knob is positioned at the "OFF" mark.



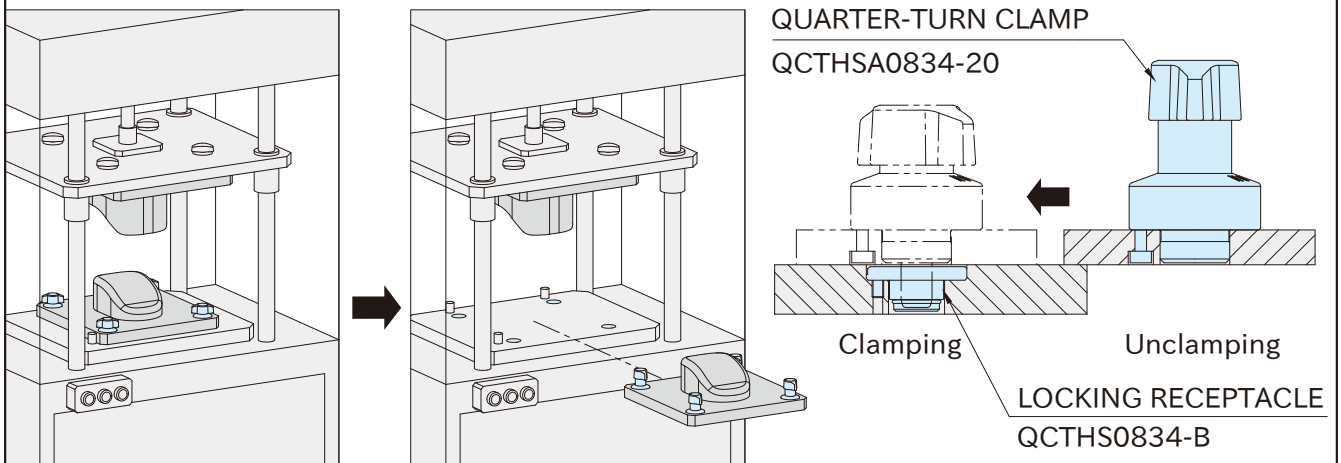
2. Insert the clamp pressing the knob.



3. Turn the knob to the "ON" mark for clamping. The knob clicks when clamped. Turning the knob to the "OFF" position, the shank returns automatically to the unclamping position by the spring.

Application Example

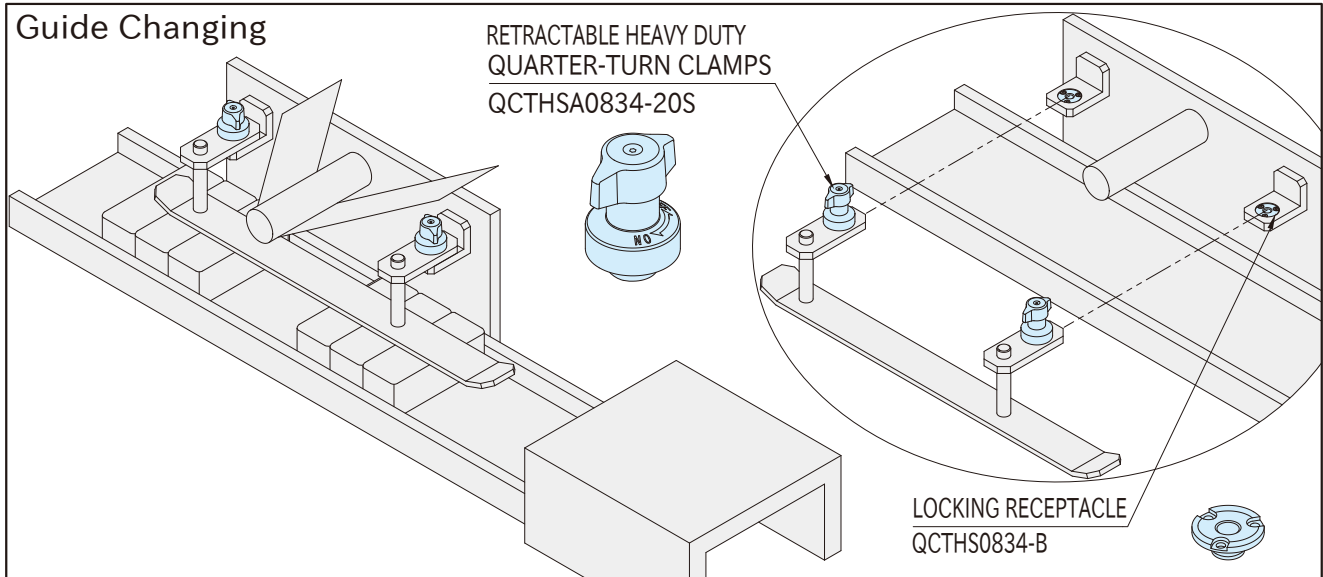
Die Changing



Continuing on Next Page

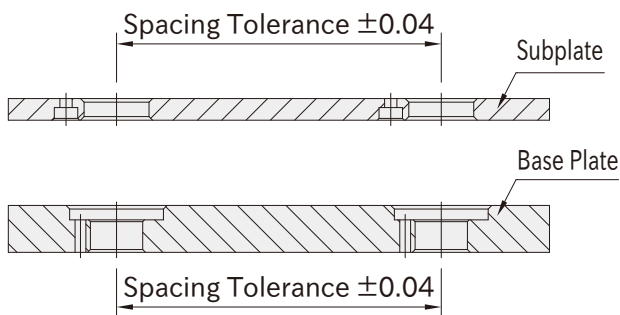
Application Example

Guide Changing



Accuracy

■ Machining Accuracy

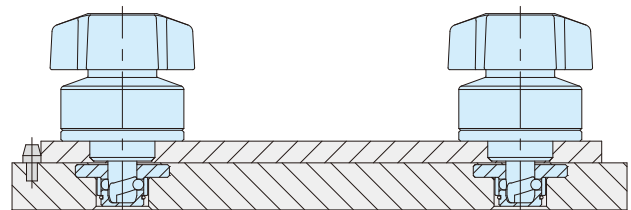
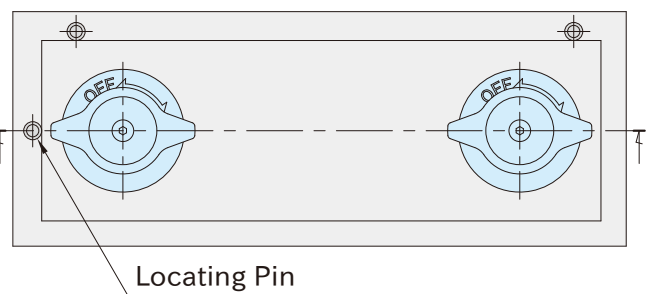


Spacing tolerance on both the subplate and the base plate should be ± 0.04 .

Note: To expand the tolerance range of mounting hole spacing, use [QCTHS-FL](#) floating receptacles. See [QCTHS-FL](#) Floating Receptacles product pages for details.

■ Repeatability

Repeatability ± 0.1



For higher accurate locating, use locating pins.

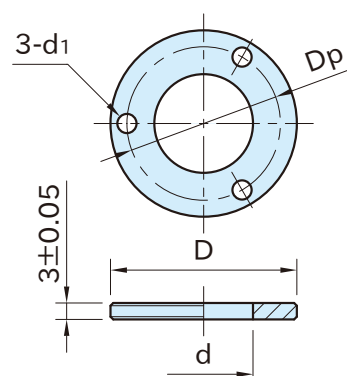
Reference

"How To Install" of [QCTHS-B](#) Locking Receptacle and [QCTHS-FL](#) Floating Receptacles

QCTHSA SPACERS



Part Number	D	d ^(+0.1) ₀	Dp	d ₁	Weight (g)
QCTHSA25-03-SUS	25	14	21	2.3	7
QCTHSA34-03-SUS	34	18	28	3.5	14

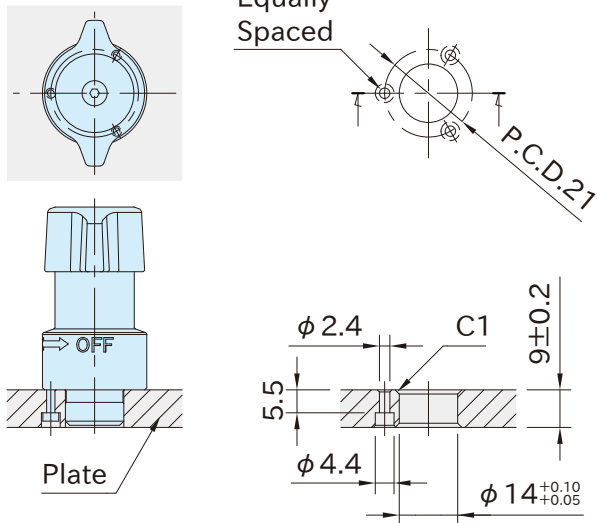


Body
SUS303 stainless steel

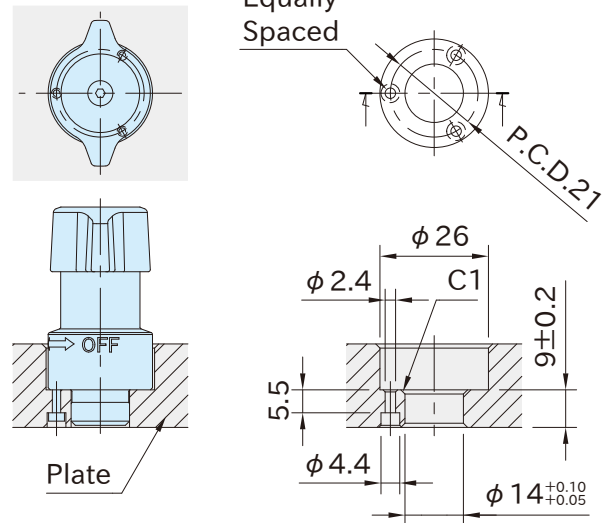
How To Install

QCTHSA0825-20 QCTHSA0825-20S

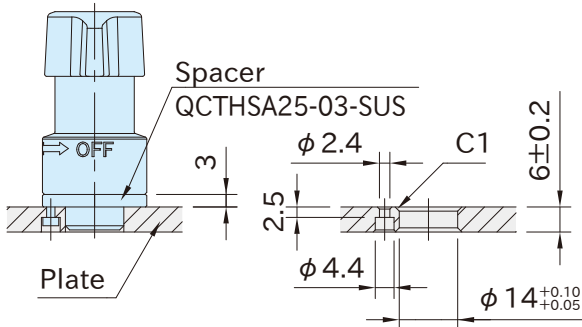
For 9mm plate



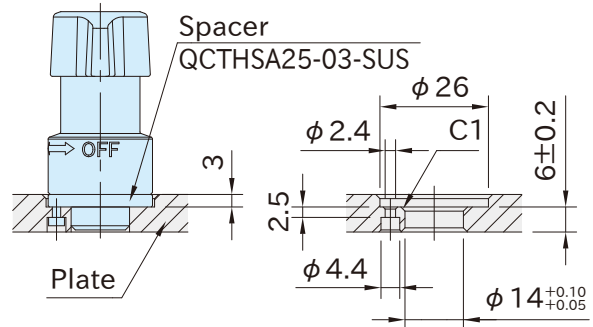
For over 9mm to 20mm plate



For 6mm plate

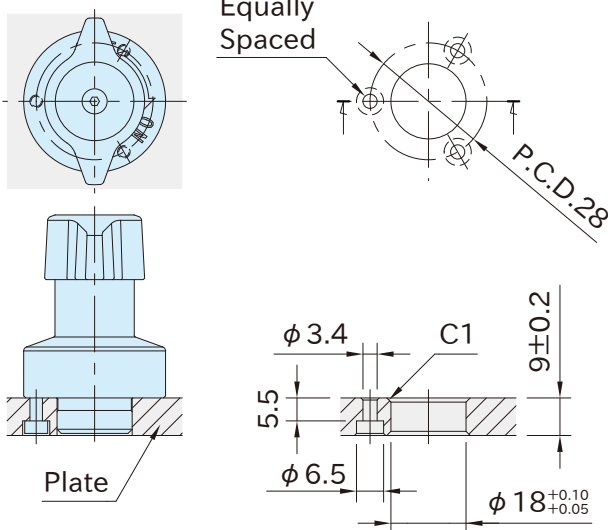


For over 6mm to under 9mm plate

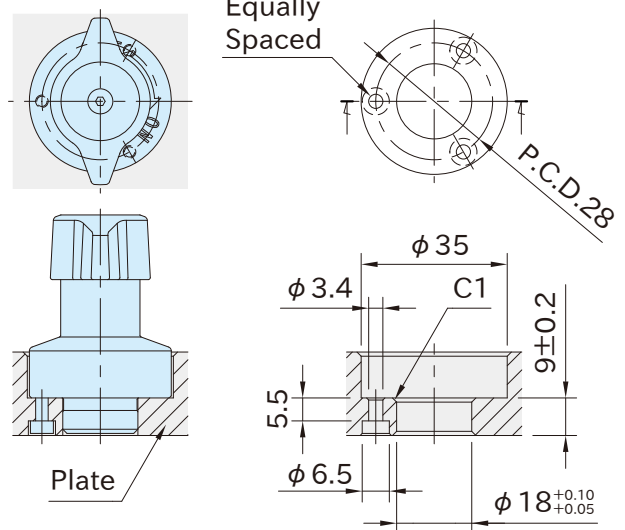


QCTHSA0834-20 QCTHSA0834-20S

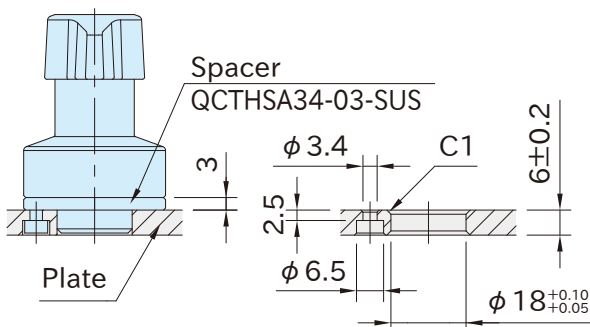
For 9mm plate



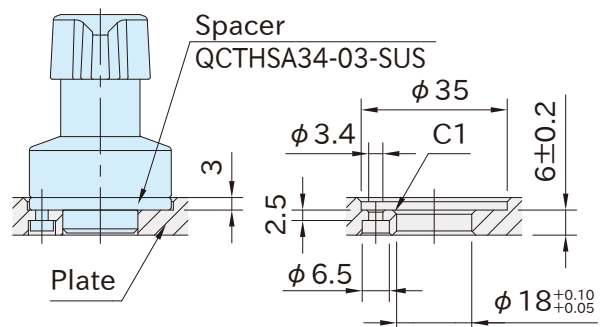
For over 9mm to 20mm plate



For 6mm plate



For over 6mm to under 9mm plate



Quarter Turn

Button Push

Twist Coupling

Push Pull

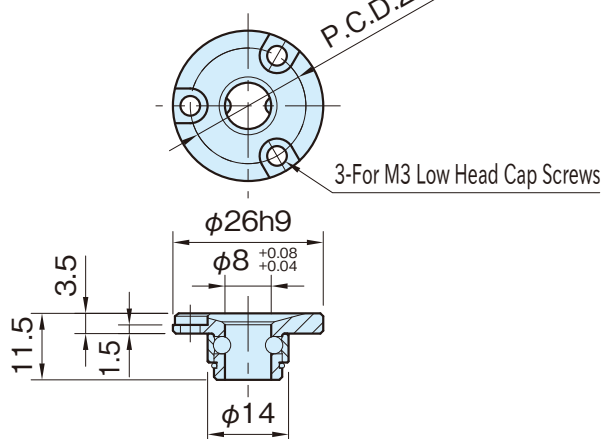
Locate & Clamp

QCTHS-B

LOCKING RECEPTACLE



Stainless Steel



Body	Ball	Collar	Retaining Ring
SUS303 stainless steel	SUS440C stainless steel	SUS440C stainless steel Quenched and tempered	SUS304WPB stainless steel

Part Number	Weight (g)
QCTHS0834-B	18

Part Number	Heavy Duty Quarter-Turn Clamps	Retractable Heavy Duty Quarter-Turn Clamps	Heavy Duty Shaft Coupling Clamp
QCTHS0834-B	QCTHS0825-20 QCTHS0825-20S QCTHS0834-20 QCTHS0834-20S	QCTHSA0825-20 QCTHSA0825-20S QCTHSA0834-20 QCTHSA0834-20S	QCSJS0822A

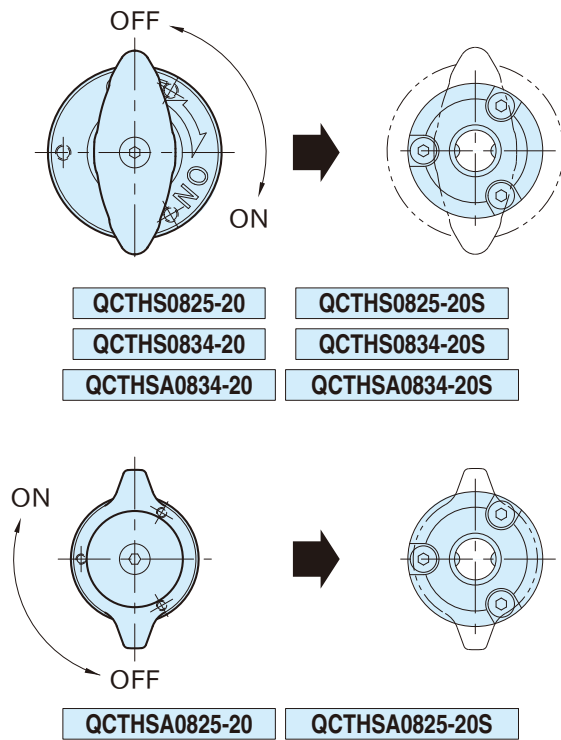
Supplied With

3 of low head cap screws(stainless steel),
M3×0.5-6L

Reference

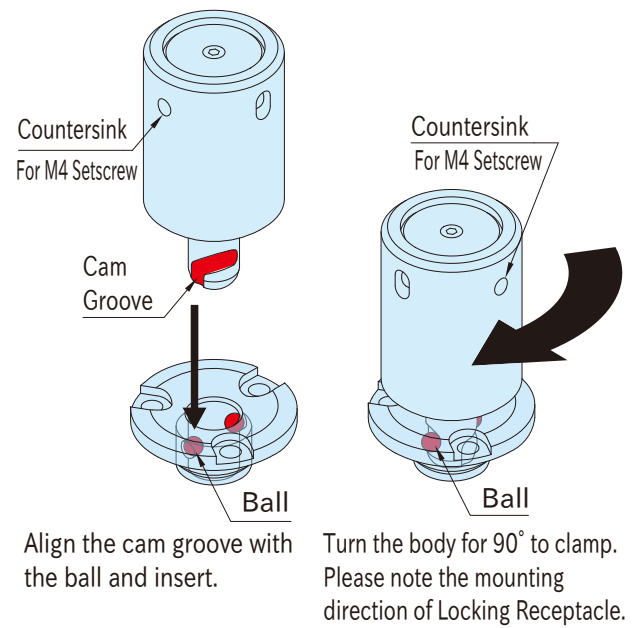
- **QCTHS** HEAVY DUTY QUARTER-TURN CLAMPS
- **QCTHS** RETRACTABLE HEAVY DUTY QUARTER-TURN CLAMPS
- **QCSJS** HEAVY DUTY SHAFT COUPLING CLAMP

Installing Position with Quarter Turn Clamps



Please note the orientation of Locking Receptacle to Quarter Turn Clamp.

Installing Position with Shaft Coupling Clamp

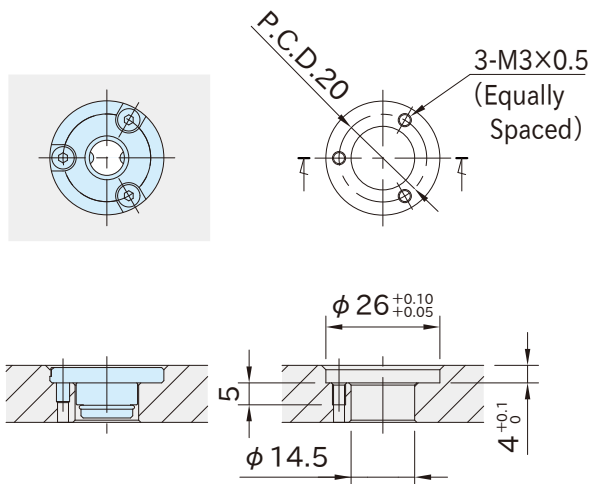


QCSJS0822A

Installing Position

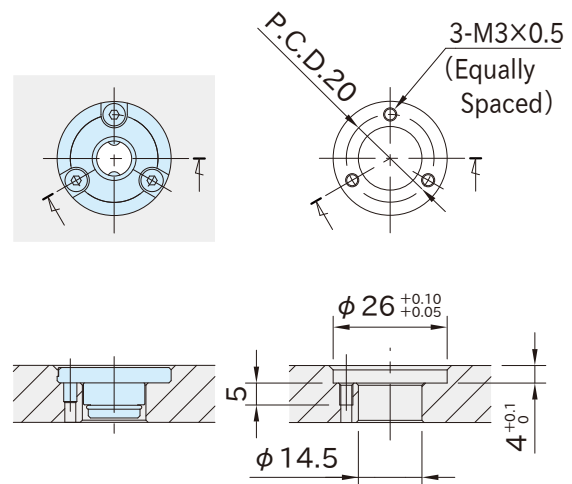
Use with Heavy Duty Quarter-Turn Clamps

Plate thickness should be 9mm or more.



Use with Heavy Duty Shaft Coupling Clamp

Plate thickness should be 9mm or more.



Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCTHS-FL

FLOATING RECEPTACLES



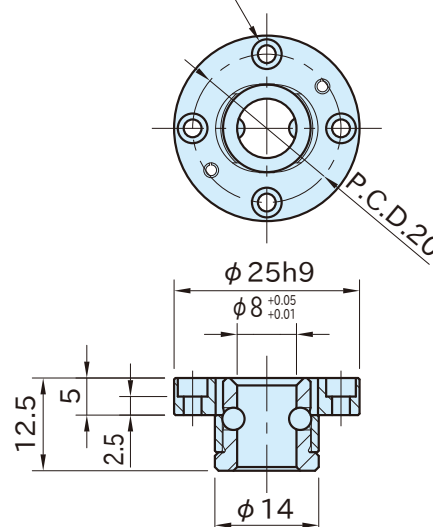
Stainless Steel

ER-EL

IMAO



4-For M2 Socket-Head Cap Screws



★Key Point

Work with rough mounting hole spacing

Flange, Slider	Spring Pin	Pin	Ball, Collar
SUS303 stainless steel	SUS420J2 stainless steel	Stainless steel Quenched and tempered	SUS440C stainless steel Quenched and tempered

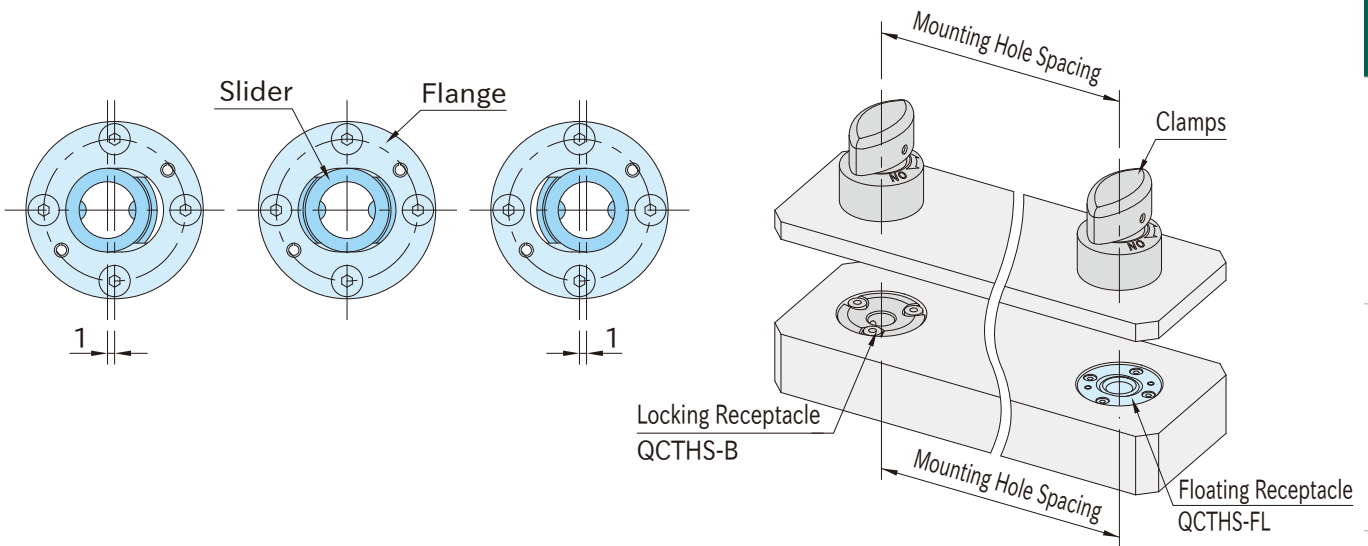
Part Number	Plate Thickness	Weight (g)	Heavy Duty Quarter-Turn Clamps	Retractable Heavy Duty Quarter-Turn Clamps
QCTHS0834-FL-SUS	9 or more	21	QCTHS0825-20 QCTHS0825-20S QCTHS0834-20 QCTHS0834-20S	QCTHSA0825-20 QCTHSA0825-20S QCTHSA0834-20 QCTHSA0834-20S

Supplied With

4 of socket-head cap screws (stainless steel),
M2×0.4-5L

Feature

The slider, which slides 1 mm to the left and right, extends the tolerance range of the mounting hole spacing. This allows secure mounting even when the required spacing tolerance for each applicable clamp cannot be achieved.



Technical Information

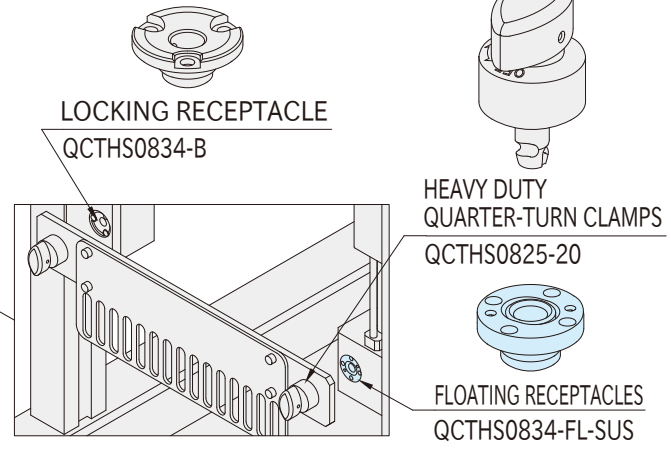
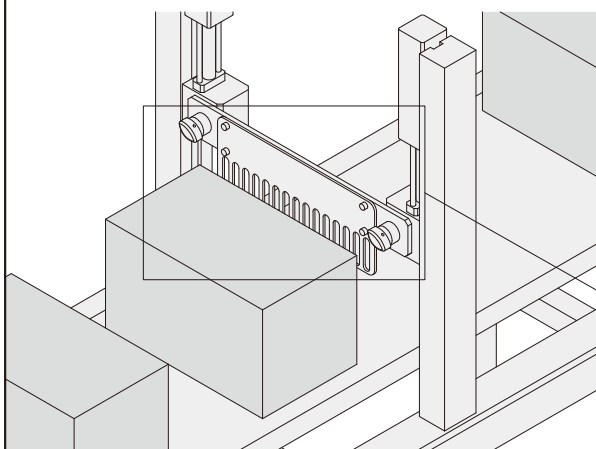
Heat resistant temperature, shear strength, and tensile strength are in accordance with the clamps used.

Note

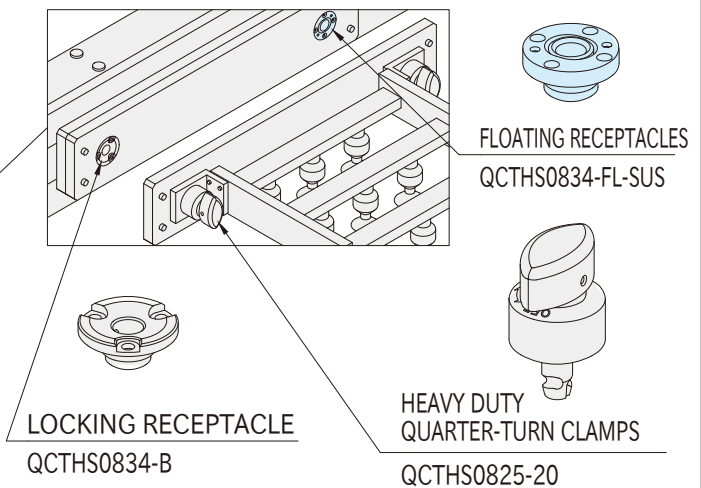
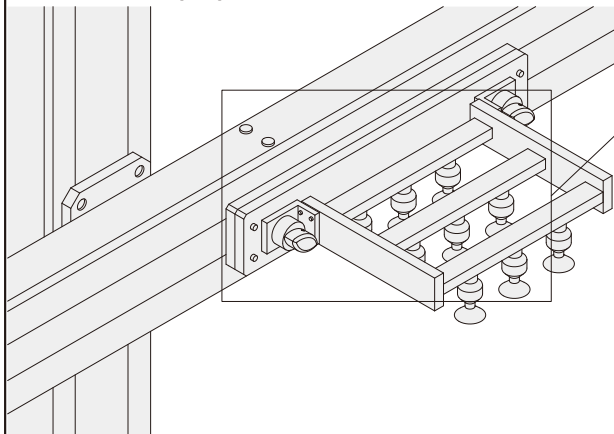
Use this product in pairs with **QCTHS-B** receptacles for use with two applicable clamps.

Application Example

Changes of conveyor stoppers

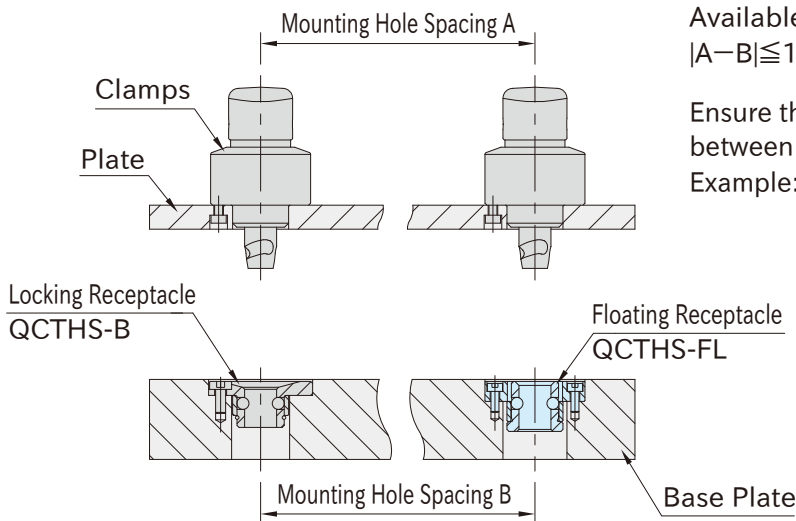


Changes of suction grippers for transfer equipment



Continuing on Next Page

How To Set Mounting Hole Spacing



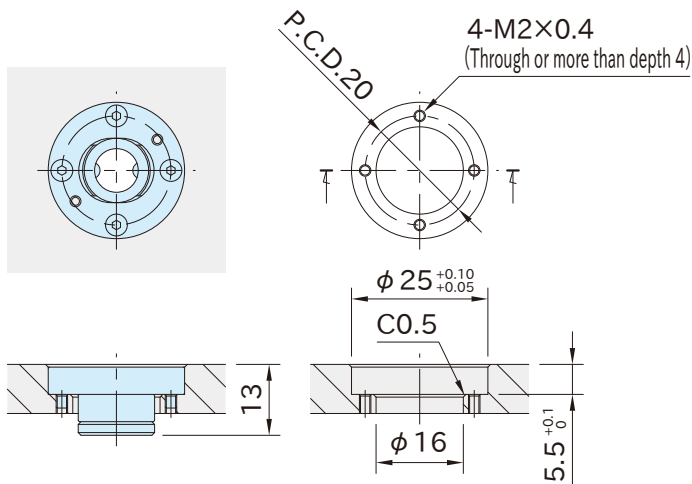
Available conditions:

$$|A - B| \leq 1 \text{ mm}$$

Ensure that the difference in mounting hole spacing between the plate and the base plate is within 1 mm.
Example: If the mounting hole spacing of the plate is 100 ± 0.1 , the mounting hole spacing of the base can be up to 100 ± 0.9 .

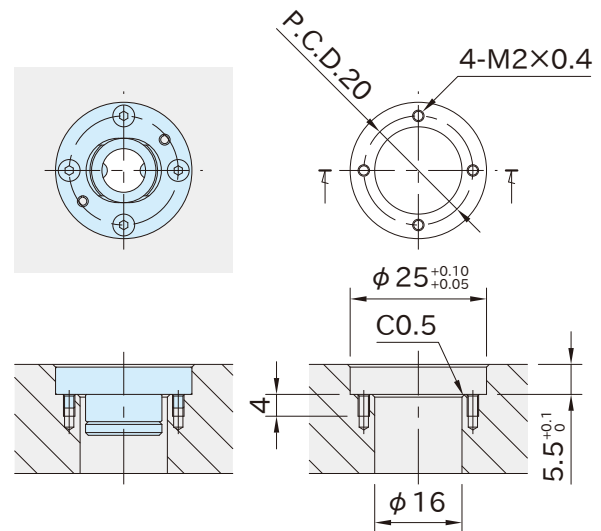
How To Install

For over 9 mm to 14 mm plate



With thin plates, the bottom of the floating receptacle protrudes from the plate.

For over 14 mm plate



Accuracy

Repeatability is in accordance with the clamps used.

Reference

- **QCTHS** HEAVY DUTY QUARTER-TURN CLAMPS
- **QCTHSA** RETRACTABLE HEAVY DUTY QUARTER-TURN CLAMPS
- **QCTHS-B** LOCKING RECEPTACLE



*Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..*

www.er-el.com.tr



Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCFC / QCFCH

FLAT QUARTER TURN CLAMPS



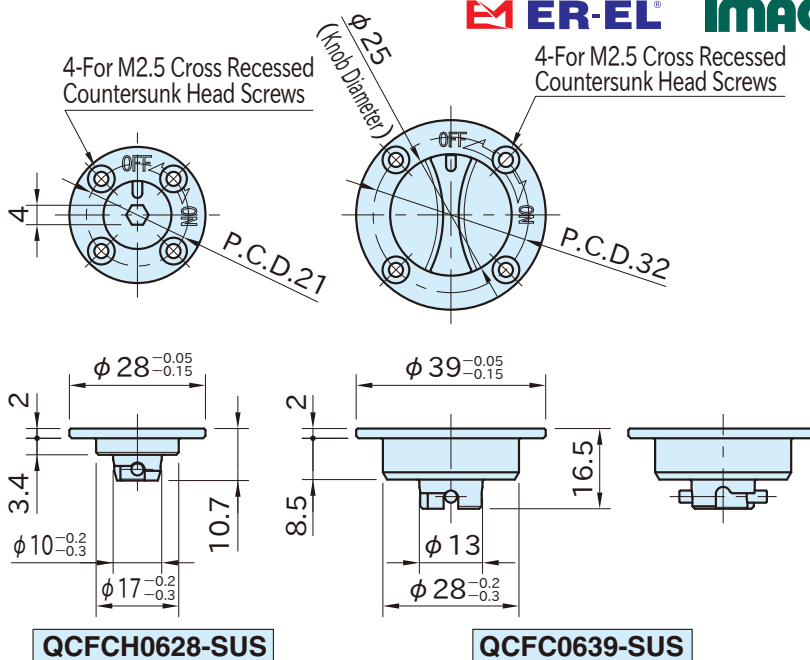
Stainless Steel



QCFC0628-SUS



QCFCH0639-SUS



★Key Point

Flat design ensures no interference

Body, Knob	Pin	Spring
SUS303 stainless steel	SUS301 stainless steel	Stainless steel

Part Number	Plate Thickness	Clamping Force (N)	Holding Force (N) *)	Weight (g)	Locking Receptacles
QCFC0628-SUS	6 or more	60	60	15	QCFC0628-B-SUS
QCFCH0639-SUS		30	30	46	QCFCH0639-B-SUS

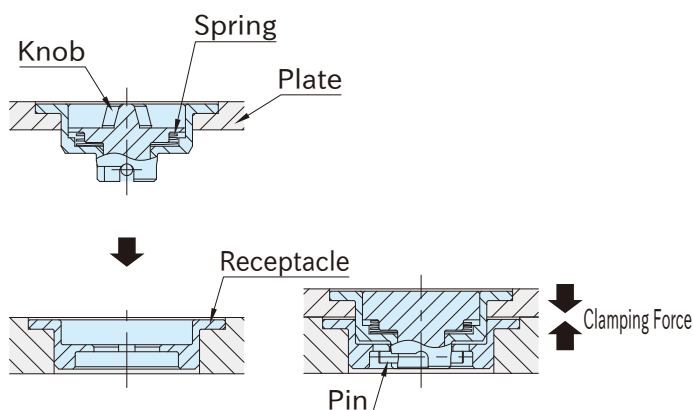
*) Exceeding the holding force creates a gap of greater than 0.1mm between plates.

Supplied With

4 of cross recessed countersunk head screws(stainless steel), M2.5×0.45-5L

Feature

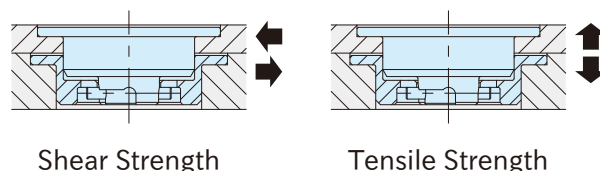
- Flat design ensures no interference, ideal for use where space is limited.
- QCFCH type is even more compact and space-saving.



The pin engages the receptacle by turning the knob, the spring gets compressed to press down the plate.



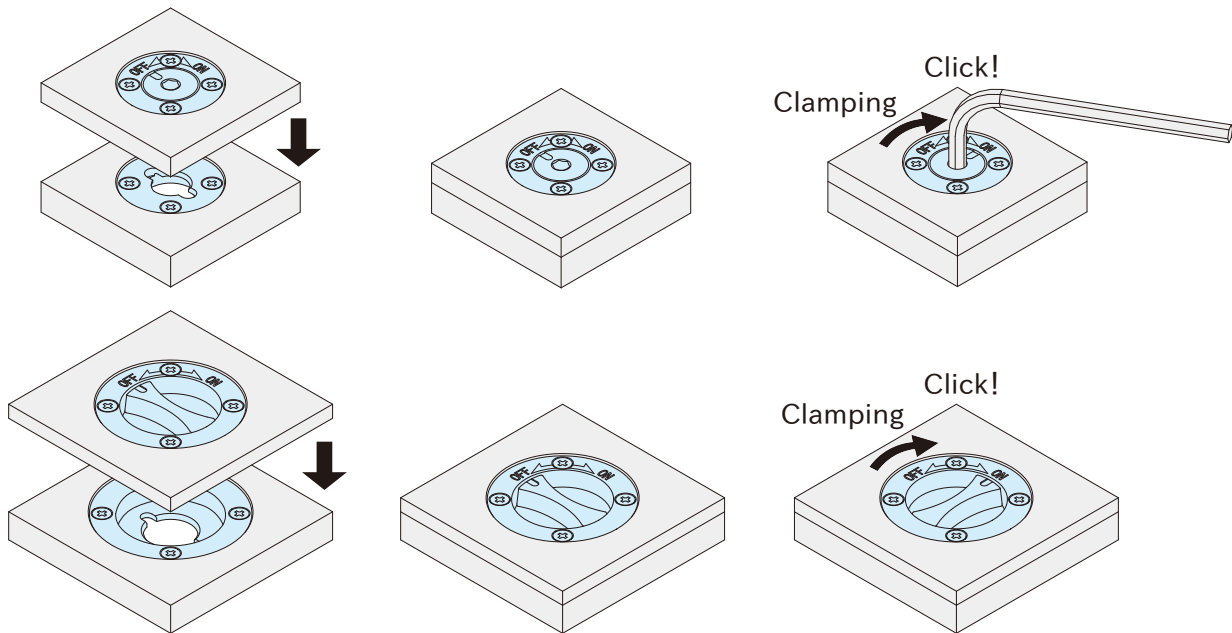
Mechanical Strength



Part Number	Heatresistant Temperature (°C)	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCFC0628-SUS	180	1200	1000
QCFCH0639-SUS		2500	

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

How To Use



1. Ensure that the knob is positioned at the "OFF" mark.

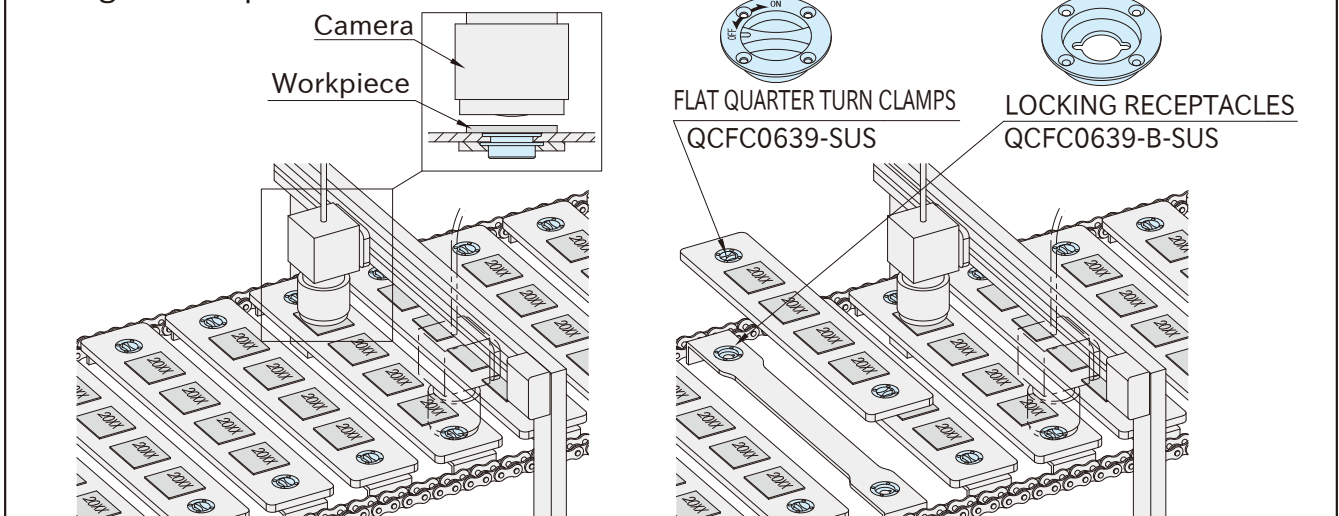
2. Insert the Flat Quarter-Turn Clamp

3. Turn the clamp to the "ON" mark for clamping. The clamp clicks when it is clamped/unclamped.

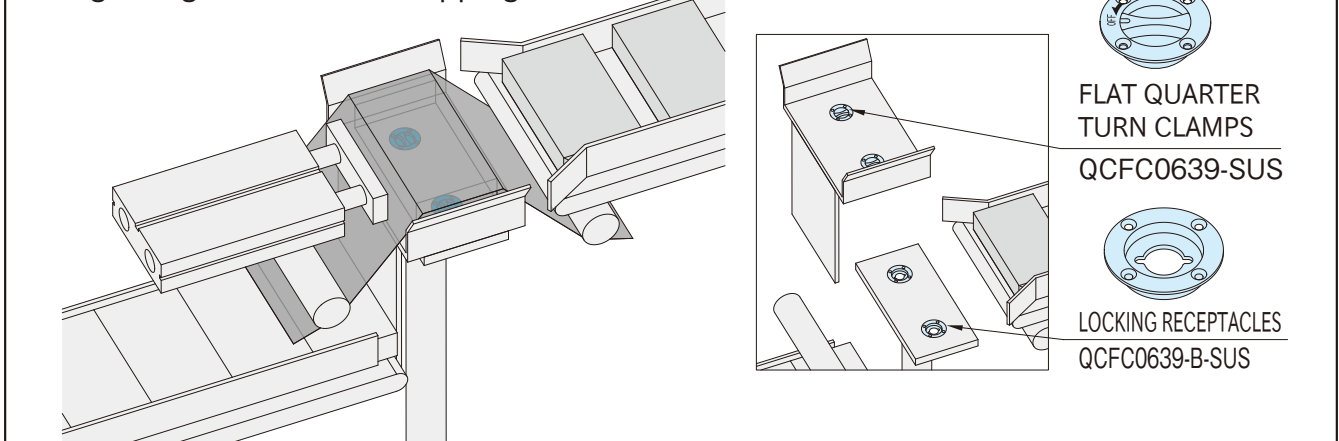
Note: For unclamping, follow back these steps.

Application Example

Changes of inspection fixtures

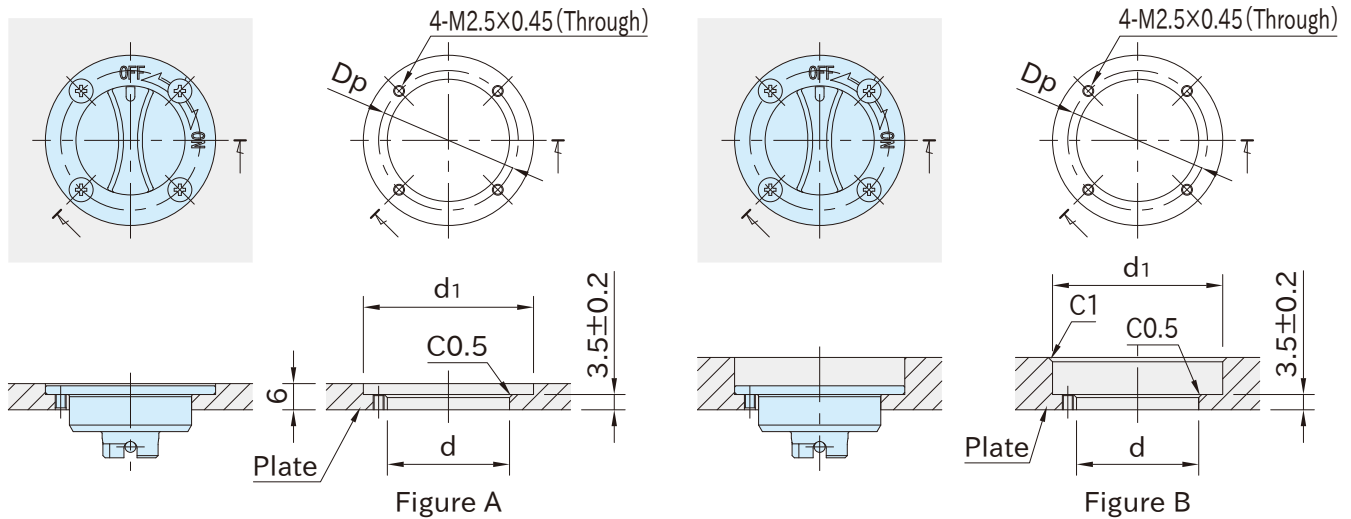


Changes of guides for overwrapping



Continuing on Next Page

How To Install

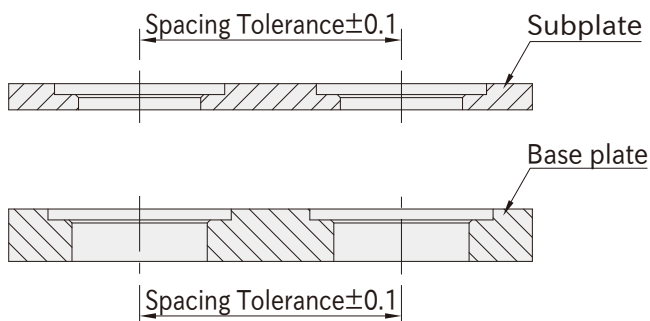


Part Number	Plate Thickness	Figure	d (± 0.1)	d ₁ ($^{+0.05}_{0}$)	Dp
QCFCB0628-SUS	6	A	17	28	21
	Over 6*)	B			
QCFC0639-SUS	6	A	28	39	32
	Over 6*)	B			

*)For use with thick plates, provide sufficient counterbore for operation.

Accuracy

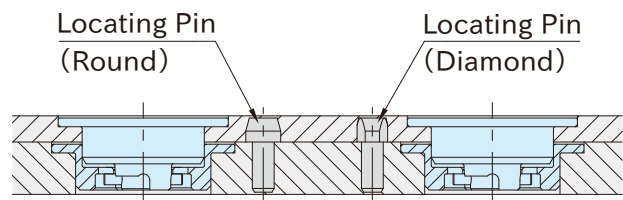
■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

■ Repeatability

Repeatability ± 0.3



For higher accurate locating, use locating pins.

Reference

"How To Install" of [QCFC-B](#) [QCFCCH-B](#) Locking Receptacles



*Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..*

www.er-el.com.tr



Quarter Turn

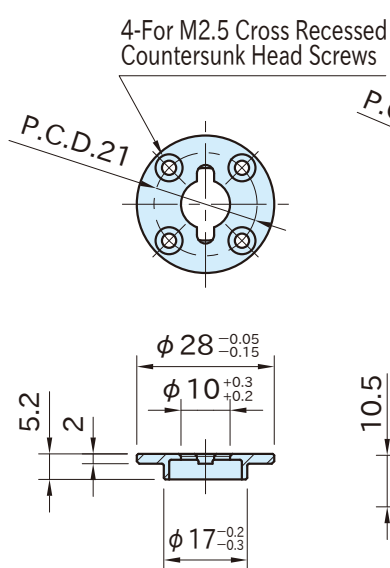
Button Push

Twist Coupling

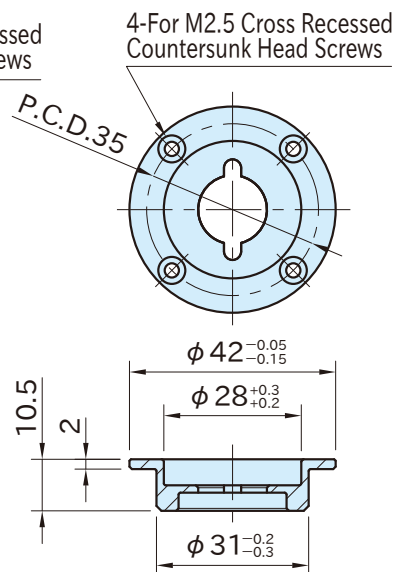
Push Pull

Locate & Clamp

QCFC-B / QCFCH-B LOCKING RECEPTACLES



QCFC0628-B-SUS



QCFC0639-B-SUS

Part Number	Plate Thickness	Weight (g)	Flat Quarter Turn Clamps
QCFC0628-B-SUS	6 or more	8	QCFC0628-SUS
QCFC0639-B-SUS		32	QCFC0639-SUS

Body
SUS303 stainless steel

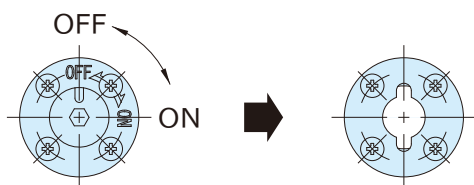
Supplied With

4 of cross recessed countersunk head screws(stainless steel), M2.5X0.45-5L

Reference

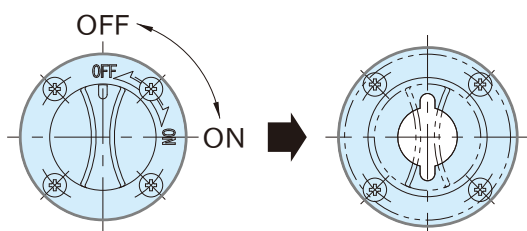
"Accuracy" of **QCFC** **QCFCH** Flat Quarter Turn Clamps

Installing Position



QCFC0628-SUS

QCFC0628-B-SUS



QCFC0639-SUS

QCFC0639-B-SUS

Please note the orientation of Locking Receptacle to Flat Quarter Turn Clamp.

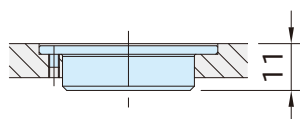
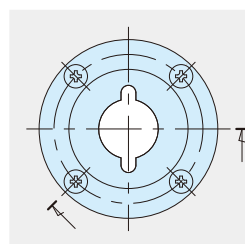


Figure A

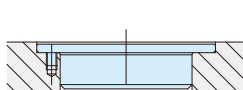
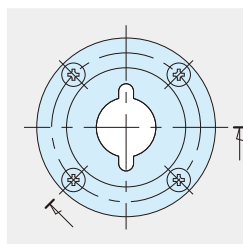
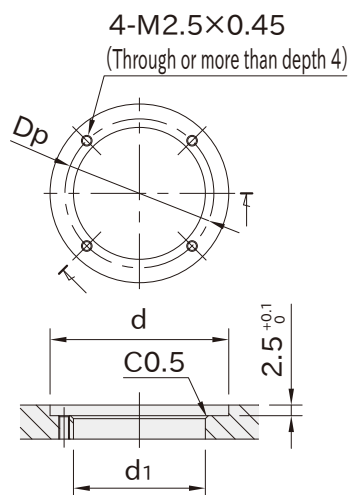


Figure B



Part Number	Plate Thicknes	Figure	d ($^{+0.05}_0$)	d_1 (± 0.1)	D_p
QCFCH0628-B-SUS	6 or more	B	28	17	21
QCFC0639-B-SUS	6 or more, under 12 *)	A	42	31	35
	12 or more	B			

*) With thin plates, the bottom of the locking receptacle protrudes from the plate.

QCTHT

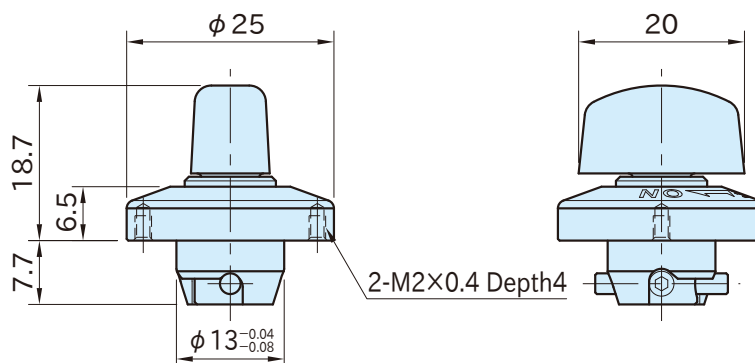
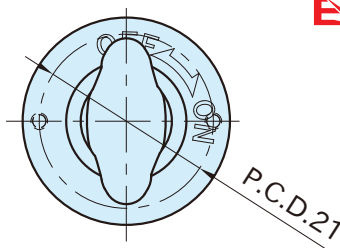
QUARTER-TURN PANEL CLAMPS



Stainless Steel

ER-EL

IMAO



★Key Point

Designed for the thinnest plates in the series.
No receptacle required.

Body, Shank	Pin	Knob	Spring
SUS303 stainless steel	SUS301 stainless steel	SCS13 stainless steel (Equivalent to SUS304)	SUS304 stainless steel

Part Number	Plate Thickness	Clamping Force (N)	Holding Force (N)**)	Weight (g)
QCTHT0425-SUS	4±0.4 *)	40	40	38

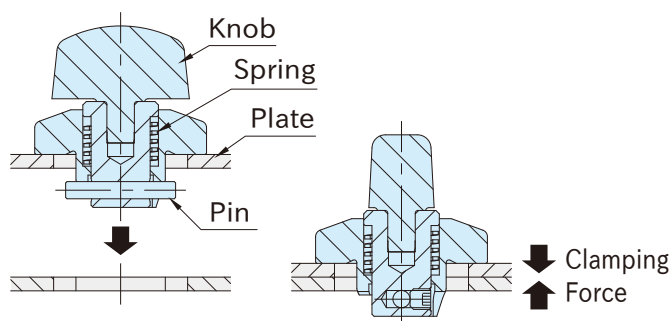
*) The combined thickness of the upper and lower plates.

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

Supplied With

2 of socket-head cap screws(stainless steel),
M2×0.4-5L

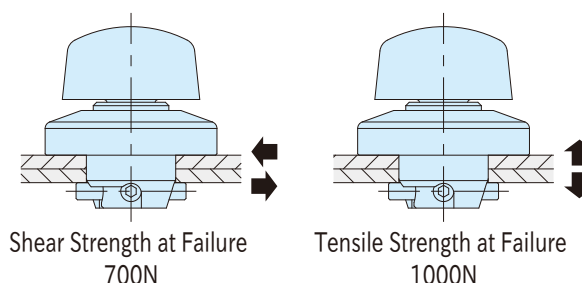
Feature



When the pin contacts the cam surface of the body, the spring gets compressed to press down the plate.

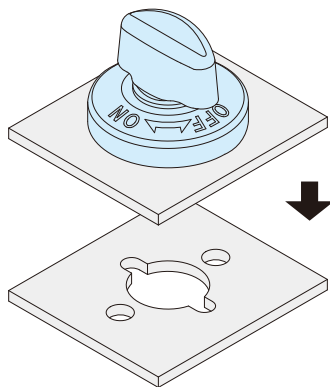
Mechanical Strength

Heatresistant Temperature 180°C

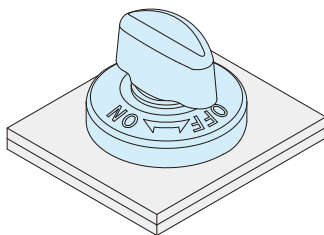


The values shown represent load levels at which failure can occur.

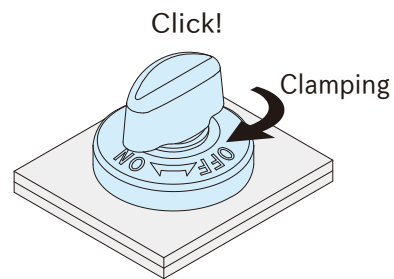
How To Use



1. Ensure that the knob is positioned at the "OFF" mark.



2. Insert the Quarter-Turn Panel Clamp.

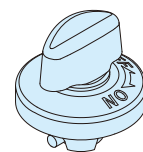
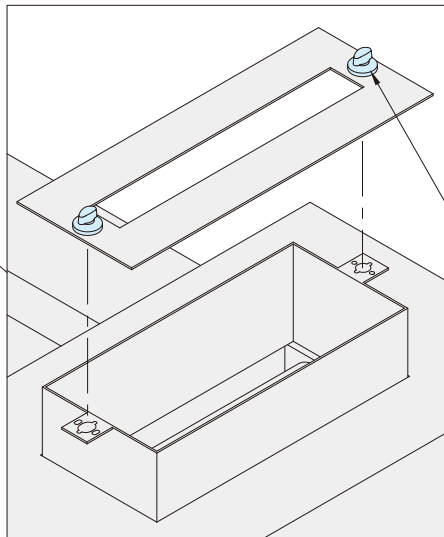
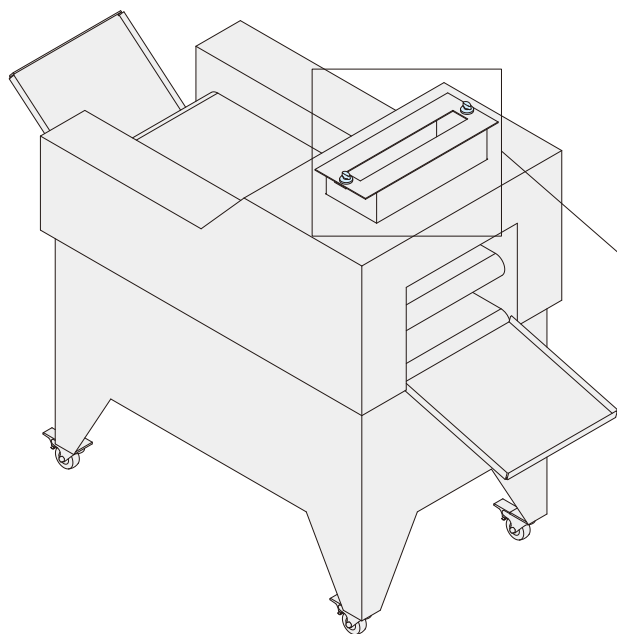


3. Turn the knob to the "ON" mark for clamping. The knob clicks when it is clamped/unclamped.

Note: For unclamping, follow back these steps.

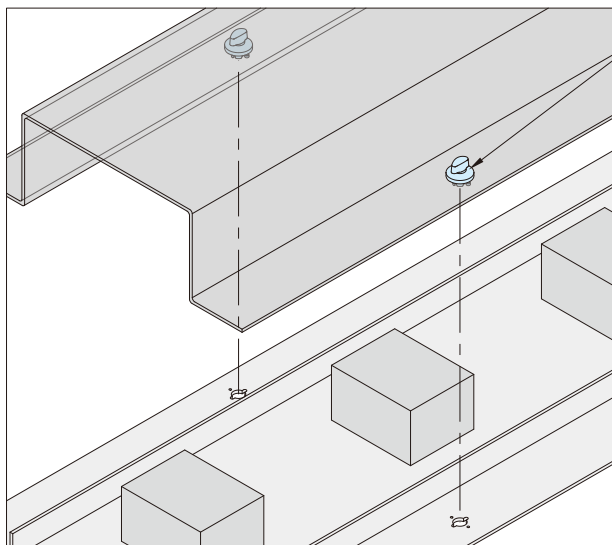
Application Example

Installation of hopper cover

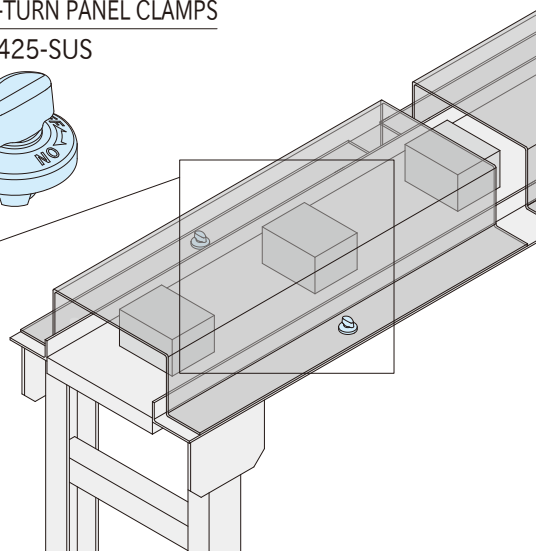
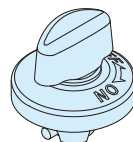


QUARTER-TURN
PANEL CLAMPS
QCTHT0425-SUS

Installation of conveyor cover

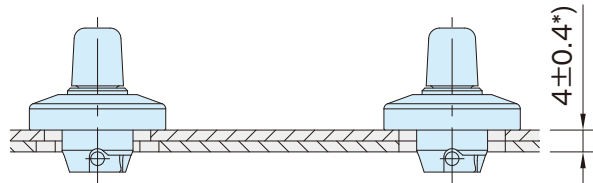
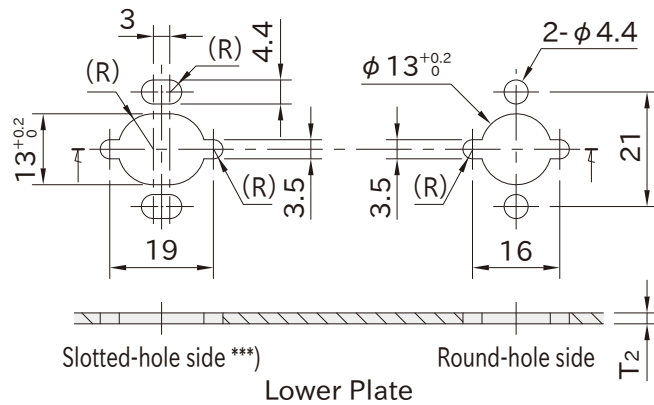
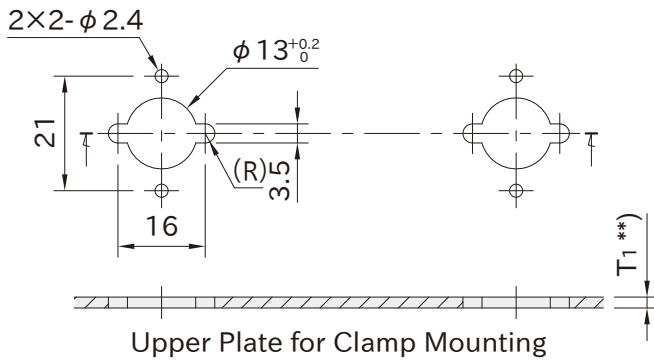


QUARTER-TURN PANEL CLAMPS
QCTHT0425-SUS



Continuing on Next Page

How To Install



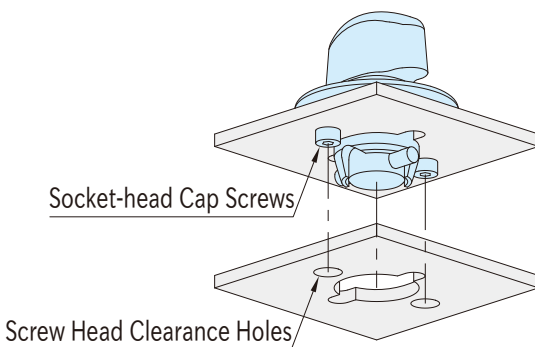
Slotted-hole side ***)

Round-hole side

*) The combined thickness of the upper and lower plates (T_1+T_2) should be 4 ± 0.4 mm.

**) The thickness of the upper plate (T_1) should be 3 mm or less.

***) Pitch variations can be accommodated by machining a slotted hole as needed.



The two holes in the lower plate provide clearance for the head of the socket-head cap screws.

Repeatability

Repeatability ± 0.14



*Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..*

www.er-el.com.tr



Quarter Turn

Button Push

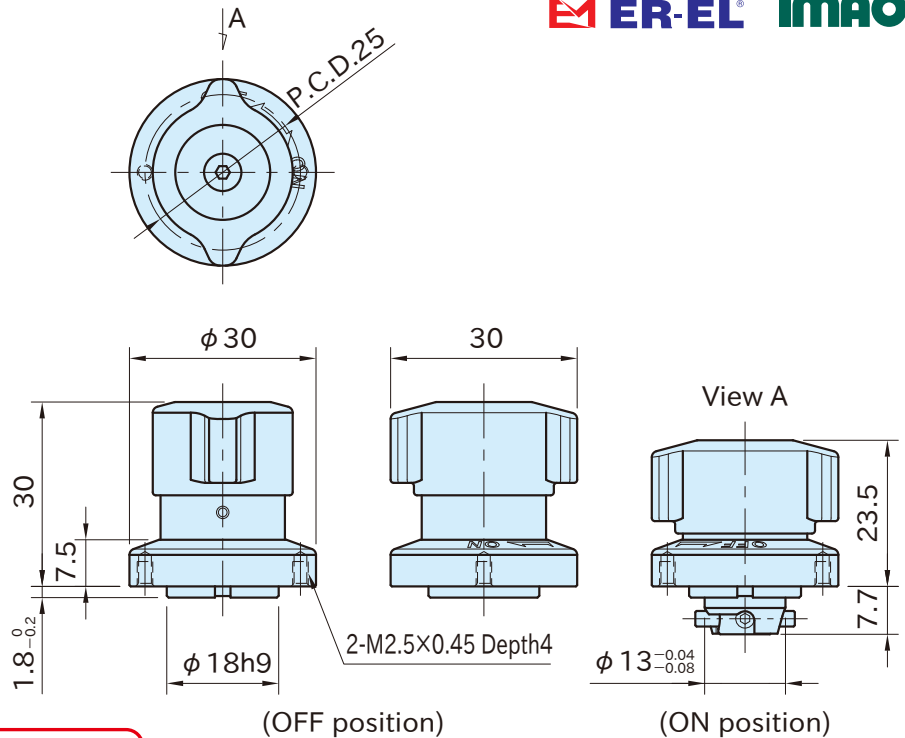
Twist Coupling

Push Pull

Locate & Clamp

QCTHTA

RETRACTABLE QUARTER-TURN PANEL CLAMPS



★Key Point

Retractable shank type for thin plates of 2 mm or less — No receptacle required

Body, Shank	Pin	Knob	Spring A	Spring B
SUS303 stainless steel	SUS301 stainless steel	SCS13 stainless steel (Equivalent to SUS304)	SUS304 stainless steel	SUS304WPB stainless steel

Part Number	Plate Thickness	Clamping Force (N)	Holding Force (N)**)	Weight (g)
QCTHTA0430-SUS	4±0.4 *)	40	40	83

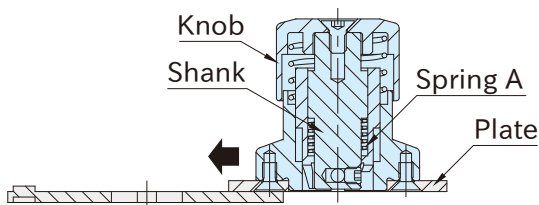
*) The combined thickness of the upper and lower plates.

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

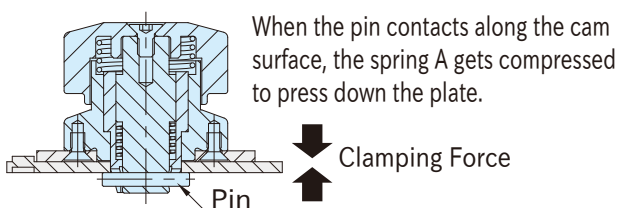
Supplied With

2 of cross recessed countersunk head screws(stainless steel), M2.5×0.45-5L

Feature



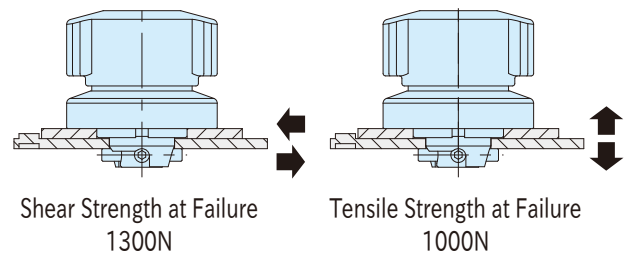
The shank retracts at the unclamping position to enable operations without interference with the lower plate.



When the pin contacts along the cam surface, the spring A gets compressed to press down the plate.

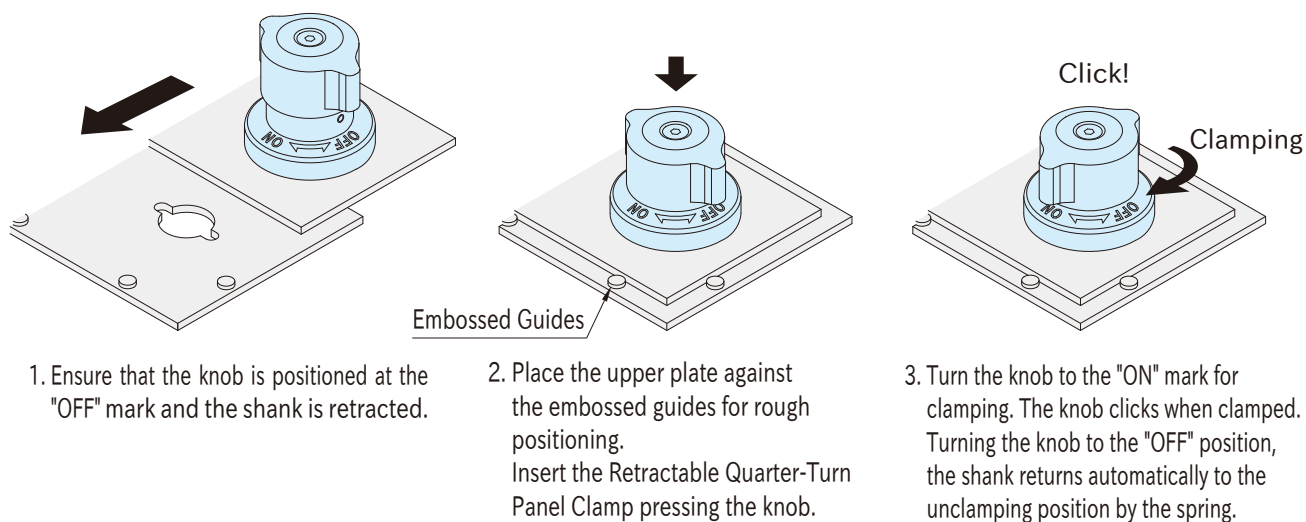
Mechanical Strength

Heatresistant Temperature 180℃



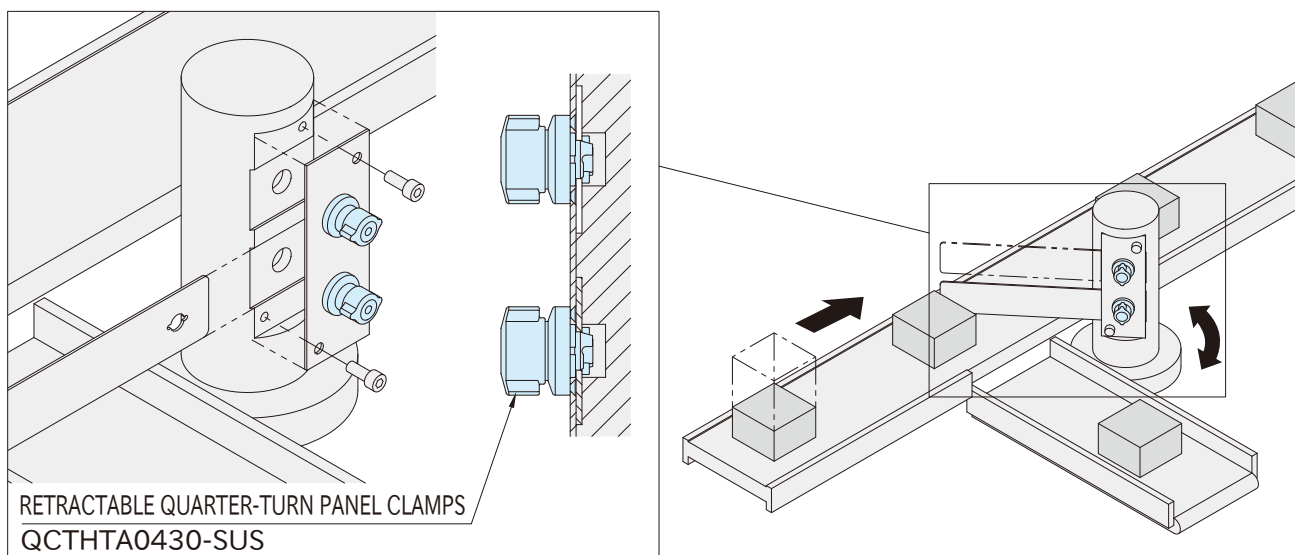
The values shown represent load levels at which failure can occur.

How To Use

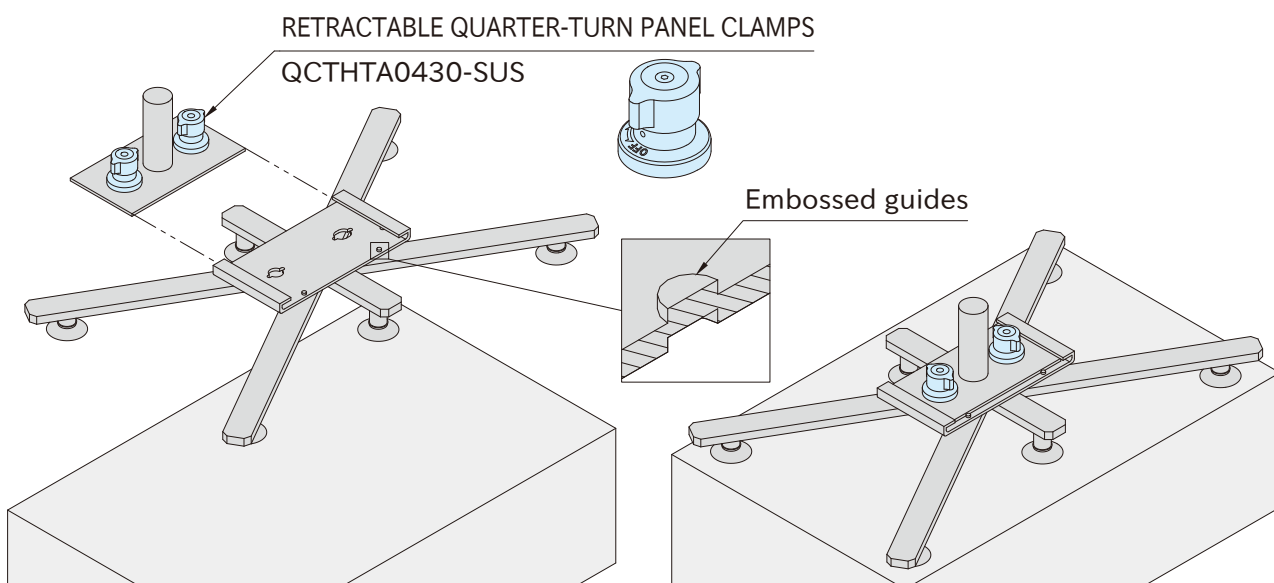


Application Example

Changes of sorting flap positions



Changes of suction grippers



Continuing on Next Page

Quarter Turn

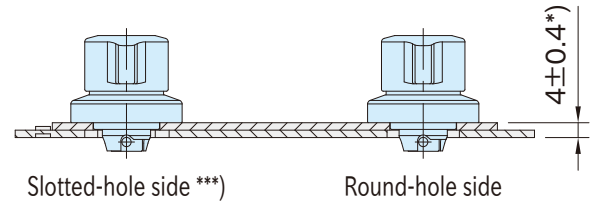
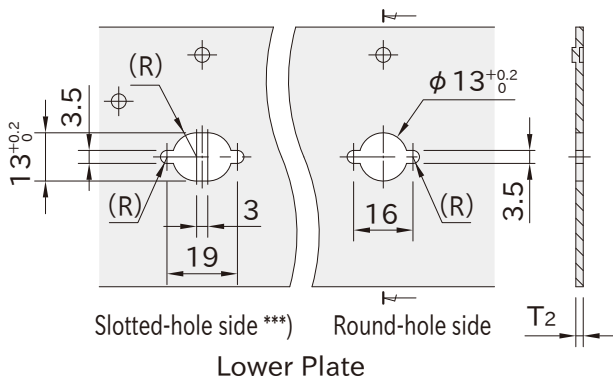
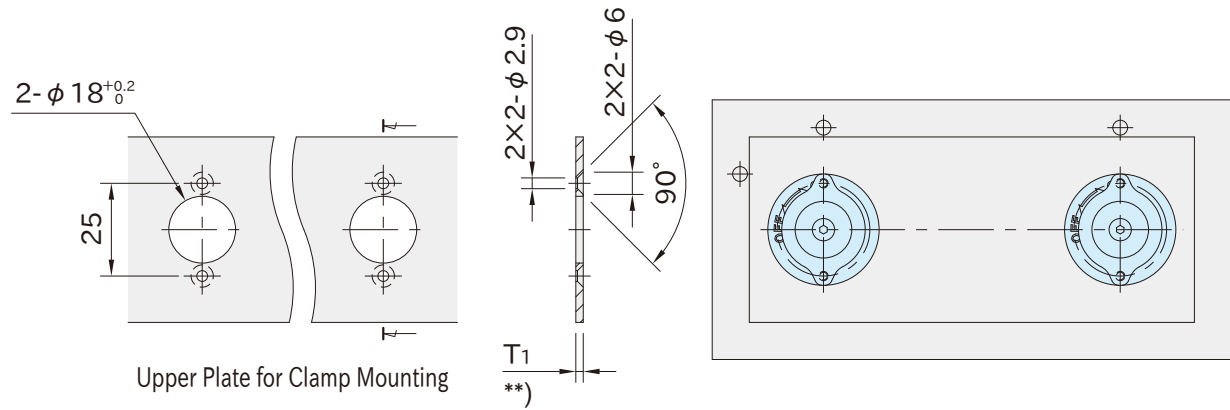
Button Push

Twist Coupling

Push Pull

Locate & Clamp

How To Install



*) The combined thickness of the upper and lower plates (T_1+T_2) should be 4 ± 0.4 mm.

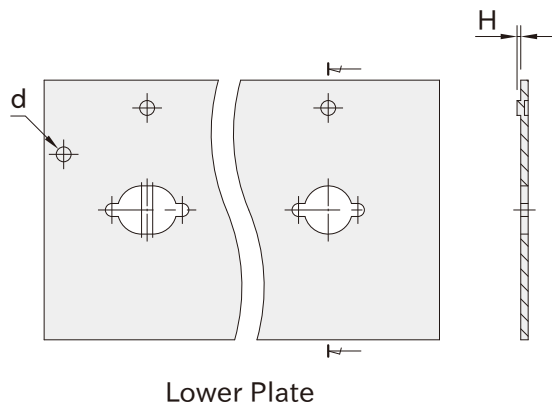
**) The thickness of the upper plate (T_1) should be between 2 and 2.8 mm.

***) Pitch variations can be accommodated by machining a slotted hole as needed.

Set the mounting positions so that the round-hole side can be clamped first.

Guide Embossing and Accuracy

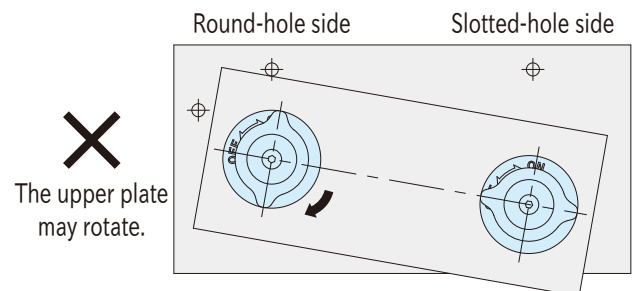
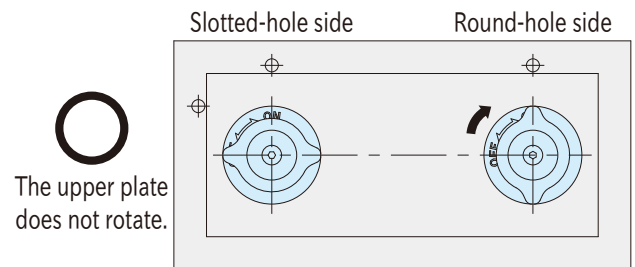
■ Embossed Guide for Rough Positioning



d ($0_{-0.3}^0$)	H
4	1~2
5	

■ Embossed Guide Layout

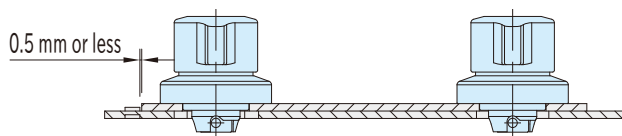
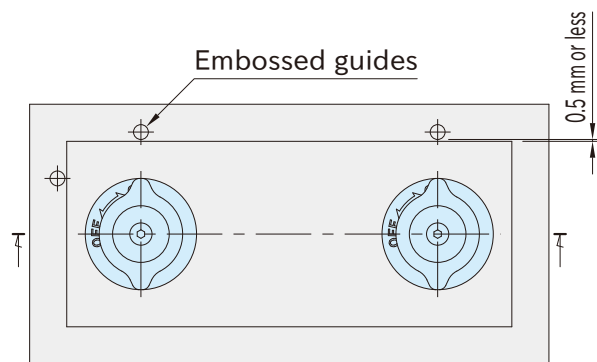
Arrange the embossed guides so that the upper plate does not rotate when the round-hole side is clamped first.



■ Repeatability

Repeatability ± 0.2

The embossed guides provide only rough positioning, while the holes in the lower plate determine the final position.



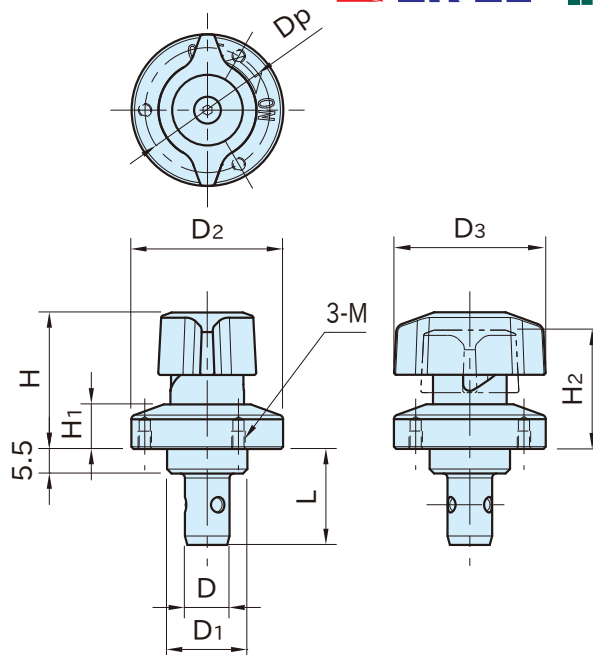
Keep the clearance between the embossed guides and the upper plate within 0.5 mm.



QCWE
(Plastic Knob)



QCWE-SUS
(Stainless Steel)



★Key Point

Clamping can be detected by sensor.

Type	Body	Shank	Knob	Ball	Spring
QCWE	SUS303 stainless steel	S45C steel Electroless nickel plated Quenched and tempered	Polyamide (glass-fiber reinforced) Black	SUS440C stainless steel Quenched and tempered	SUS304WPB stainless steel
QCWE-SUS		SUS420J2 stainless steel Quenched and tempered	SCS13 stainless steel (Equivalent to SUS304)		

Size		Plate Thickness	D ($\begin{smallmatrix} -0.05 \\ -0.10 \end{smallmatrix}$)	D ₁ (h9)	D ₂	D ₃	L	H	H ₁	H ₂	M	D _p	Clamping Force(N)	Holding Force (N) **)
QCWE QCWE-SUS	0625-10	3~10 (*)	6	14	25	25	19.5	24.5	6.5	21.5	M2×0.4 Depth3	21	30	90
	1034-14	3~14 (*)	10	18	34	34	21.5	31	10	26.5	M3×0.5 Depth4	28	50	150
	1034-20	12~20					27.5							

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

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

Size		Receptacles	Sensor Receptacles	Floating Receptacles
QCWE QCWE-SUS	0625-10	QCBU0608-M12SUS	QCWE0625-M16-S QCWE0625-M16-SL	QCBU0608-FL-SUS
	1034-14	QCBU1012-M16SUS	QCWE1034-M20-S	QCBU1012-FL-SUS
	1034-20		QCWE1034-M20-SL	

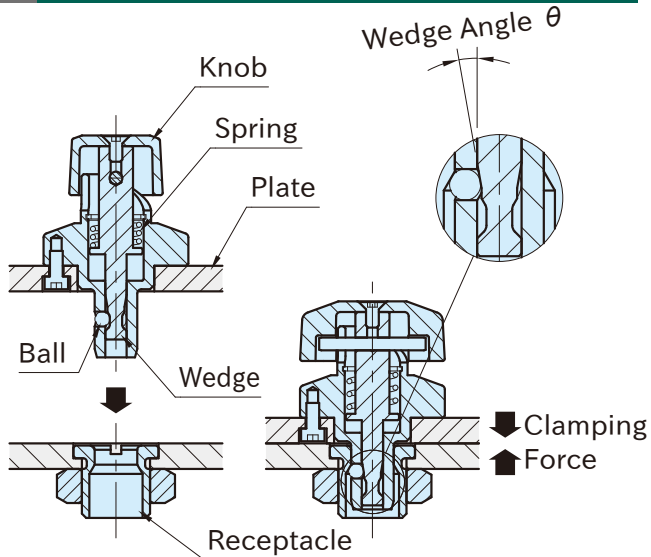
QCWE (Plastic Knob)		QCWE-SUS (Stainless Steel)	
Part Number	Weight (g)	Part Number	Weight (g)
QCWE0625-10	40	QCWE0625-10-SUS	50
QCWE1034-14	95	QCWE1034-14-SUS	120
QCWE1034-20	100	QCWE1034-20-SUS	130

Supplied With

- **QCWE** **QCWE-SUS** 0625-10 :
3 of socket-head cap screws(stainless steel), M2×0.4-5L
- **QCWE** **QCWE-SUS** 1034-14, 1034-20 :
3 of socket-head cap screws(stainless steel), M3×0.5-6L

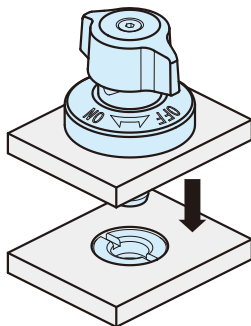
QCBU-M	BALL-LOCK RECEPTACLES	QCBU-FL	FLOATING RECEPTACLES
			

Feature

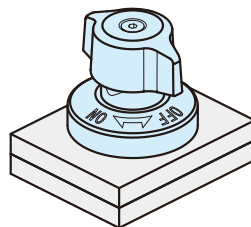


The wedge of the locking pin pushes out the balls against the tapered surface of the receptacle to clamp the two plates.

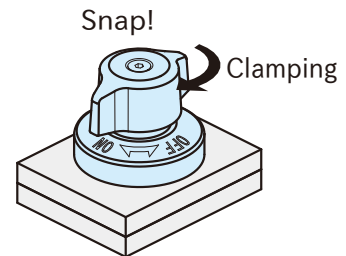
How To Use



1.Ensure that the knob is positioned at the "OFF" mark.



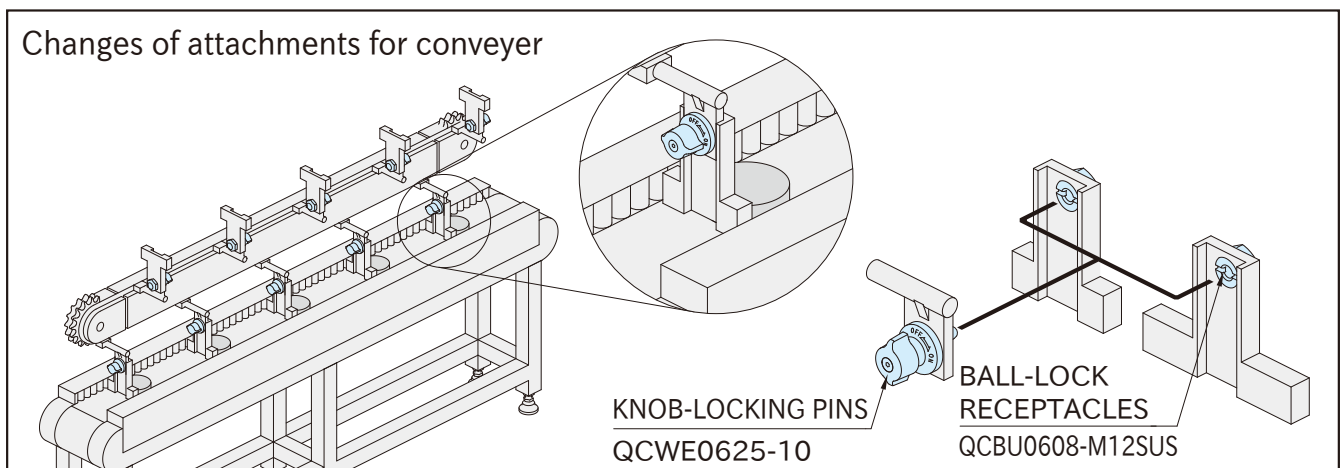
2.Insert the Knob-Locking Pin.



3.Turn the knob to the "ON" mark for clamping. The knob turns lightly by spring force.
Note: For unclamping, follow back these steps.

Application Example

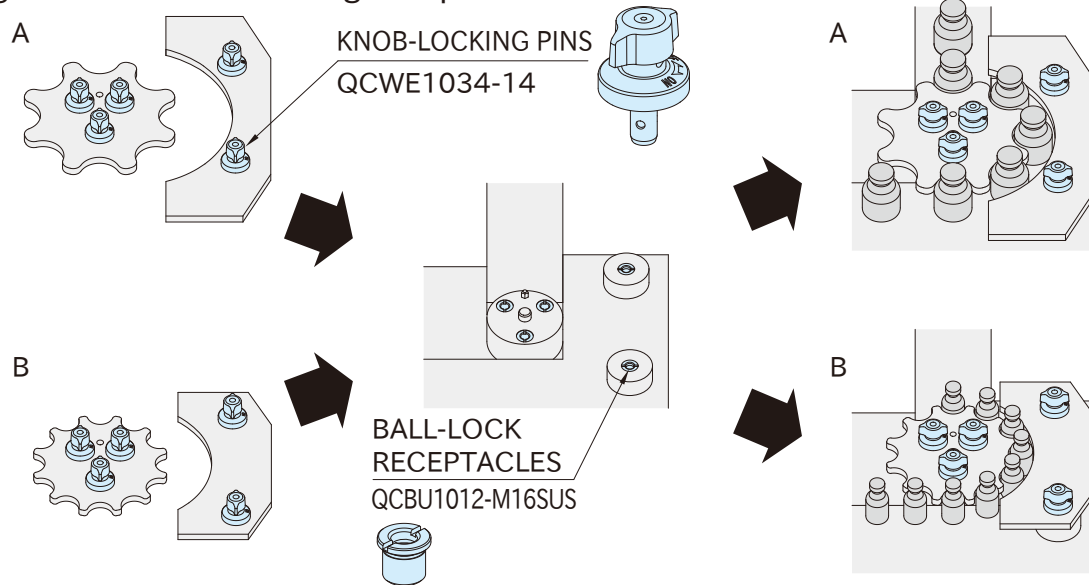
Changes of attachments for conveyer



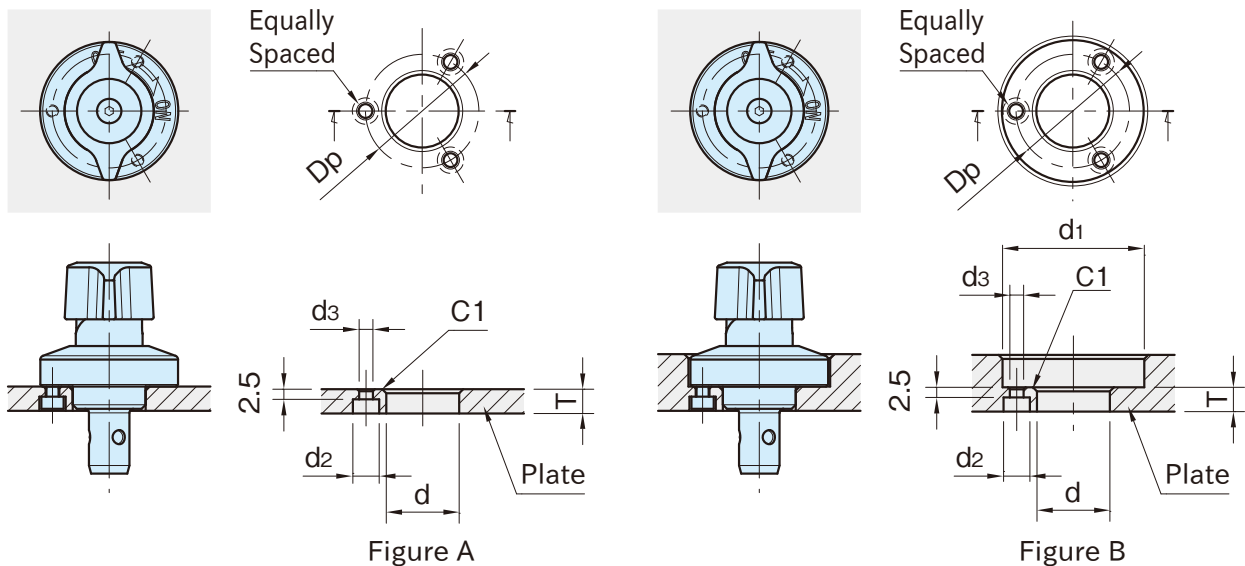
 Continuing on Next Page

Application Example

Changes of star wheels and guide plates



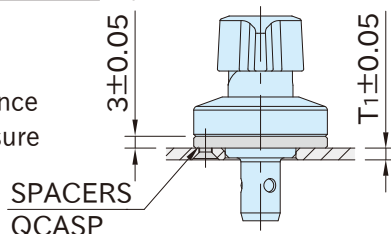
How To Install



Size		Plate Thickness	Figure	d (^{+0.10} _{+0.05})	d ₁	T *) (±0.2)	d ₂	d ₃	Dp
QCWE QCWE-SUS	0625-10	3 or more, under 6	Spacer QCASP is required.**)						
		6	A	14	—	6	4.4	2.4	21
		Over 6, 10 or less	B		26				
	1034-14	3 or more, under 6	Spacer QCASP is required.**)						
		6	A	18	—	6	6.5	3.4	28
		Over 6, 14 or less	B		35				
	1034-20	12	A	—	12				
		Over 12, 20 or less	B	35					

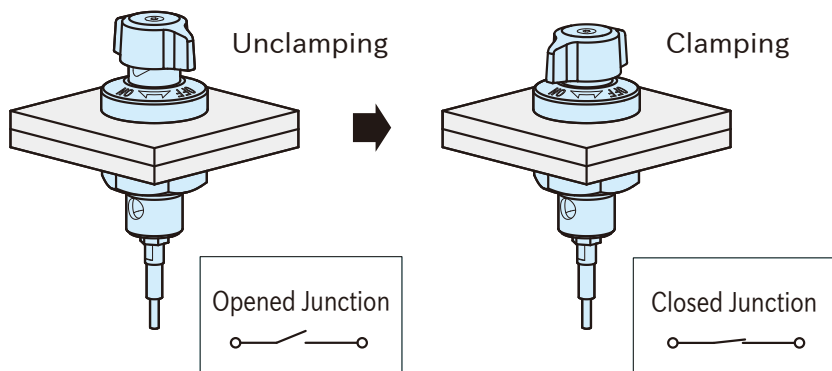
*) Using Position Sensor Receptacles **QCWE-M-S** requires a tolerance of ± 0.1 for dimension T to ensure stable sensor operation.

) Combining Position Sensor Receptacles **QCWE-M-S with Spacers **QCASP** requires a tolerance of ± 0.05 for dimension T₁ to ensure stable sensor operation.



Detection by sensor

Detection of clamping condition prevents human error and improper operation of machinery.



QCWE-M-S

POSITION SENSOR RECEPTACLES

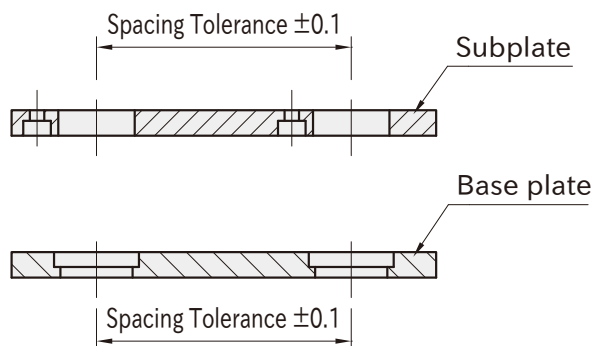


Reference

- "How To Install" of [QCBU-M](#) Ball-Lock Receptacle
- "How To Install" of [QCWE-M-S](#) Position Sensor Receptacles
- "How To Install" of [QCBU-FL](#) Floating Receptacles
- Spacer [QCASP](#) is required for 3mm or more, under 6mm plate thickness.

Accuracy

■ Machining Accuracy

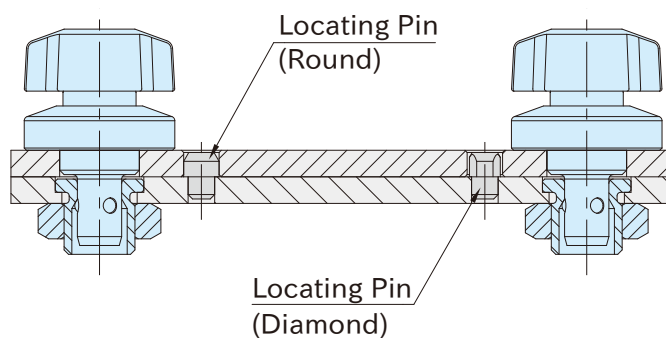


Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

Note: To expand the tolerance range of mounting hole spacing, use [QCBU-FL](#) floating receptacles. See [QCBU-FL](#) Floating Receptacles product pages for details.

■ Repeatability

Repeatability ± 0.25



For higher accurate locating, use locating pins.

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp



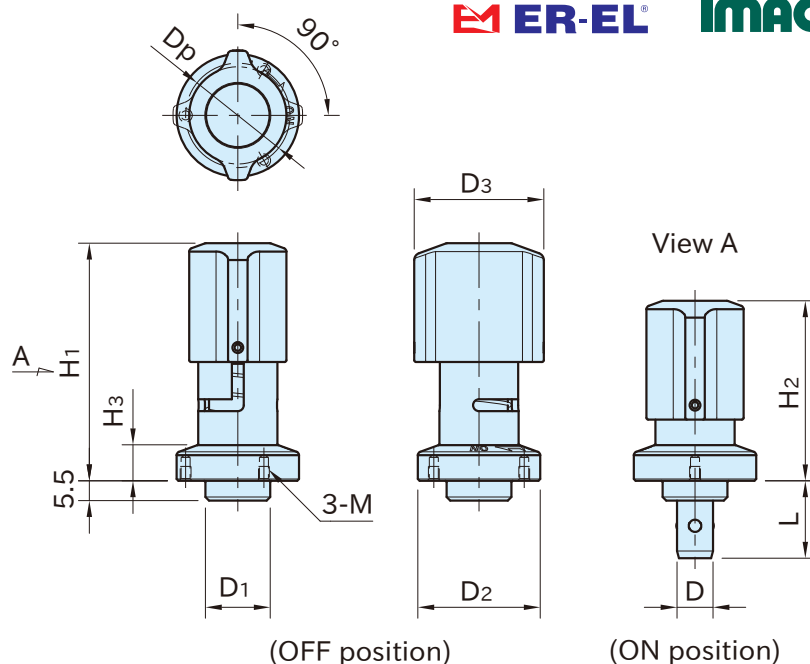
Stainless Steel

ER-EL

IMAO



(OFF position) (ON position)



★Key Point

Retractable shank type with sensor detection of clamping condition.

Body, Shaft	Wedge	Knob	Ball	Spring
SUS303 stainless steel	SUS420J2 stainless steel Quenched and tempered	SCS13 stainless steel (Equivalent to SUS304)	SUS440C stainless steel Quenched and tempered	SUS304WPB stainless steel

Part Number	Plate Thickness	D (-0.05 -0.10)	D ₁ (h9)	D ₂	D ₃	L	H ₁	H ₂	H ₃	M	D _p	Clamping Force(N)	Holding Force (N)**	Weight (g)
QCWEA0625-10-SUS	3~10 *)	6	14	25	28	19.5	58	43.5	6.5	M2×0.4 Depth3	21	30	90	114
QCWEA1034-14-SUS	3~14 *)	10	18	34	36	21.5	66	50	10	M3×0.5 Depth4	28	50	150	232

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

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

Part Number	Sensor Receptacles	Receptacles	Floating Receptacles
QCWEA0625-10-SUS	QCWE0625-M16-S, QCWE0625-M16-SL	QCBU0608-M12SUS	QCBU0608-FL-SUS
QCWEA1034-14-SUS	QCWE1034-M20-S, QCWE1034-M20-SL	QCBU1012-M16SUS	QCBU1012-FL-SUS

Supplied With

- QCWEA0625-10-SUS:
3 of socket-head cap screws(stainless steel), M2×0.4-5L
- QCWEA1034-14-SUS:
3 of socket-head cap screws(stainless steel), M3×0.5-6L

QCWE-M-S

POSITION SENSOR RECEPTACLES



QCBU-M

BALL-LOCK RECEPTACLES

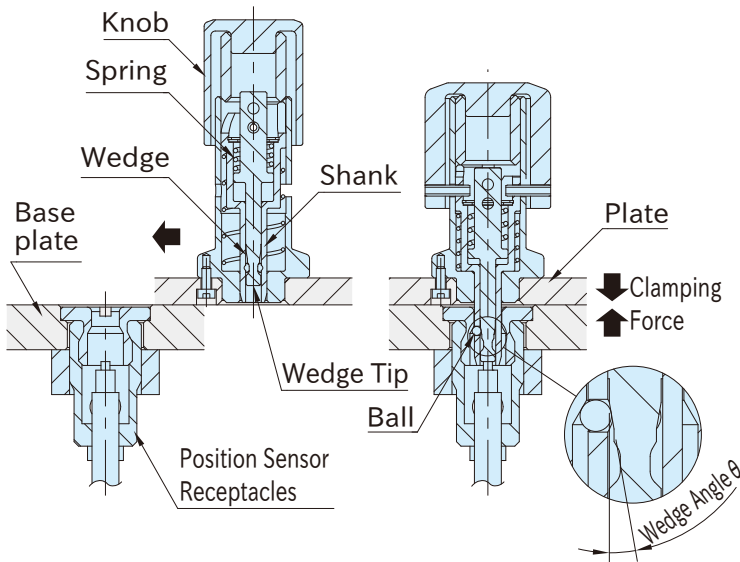


QCBU-FL

FLOATING RECEPTACLES



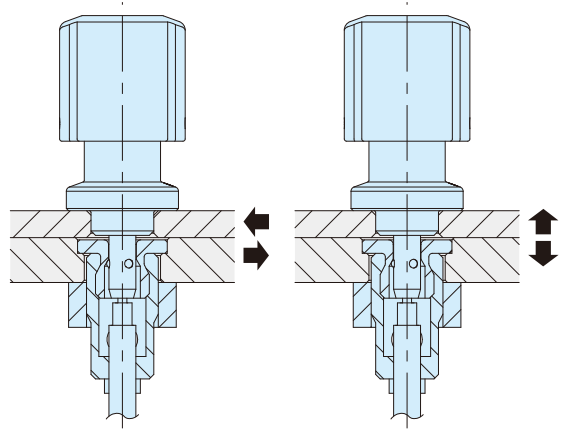
Feature



The shank retracts at the unclamping position to enable operations without interference with the base plate.

The wedge of the locking pin pushes out the balls against the tapered surface of the receptacle to clamp the two plates.

Mechanical Strength



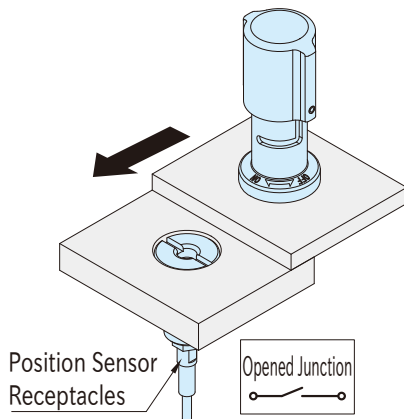
Shear Strength

Tensile Strength

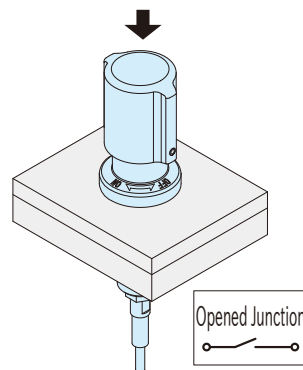
Part Number	Heatresistant Temperature (°C)	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCWEA0625-10-SUS	180	3000	500
QCWEA1034-14-SUS		9000	1500

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

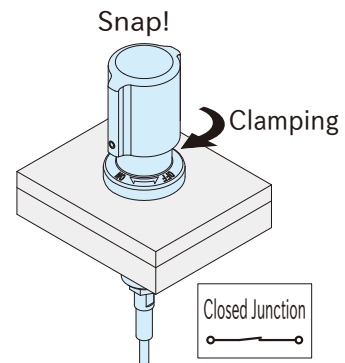
How To Use



1. Ensure that the knob is positioned at the "OFF" mark and the shank is retracted.



2. Insert Retractable Knob-locking Pin pressing the knob.

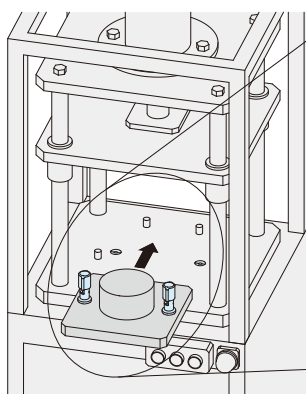


3. Turn the knob to the "ON" mark for clamping. The knob turns lightly by spring force. The tip of the wedge protrudes when clamped, providing reliable contact sensing. Note: Turning the knob to the "OFF" position automatically returns the shaft to the unclamped position by spring force.

Application Example

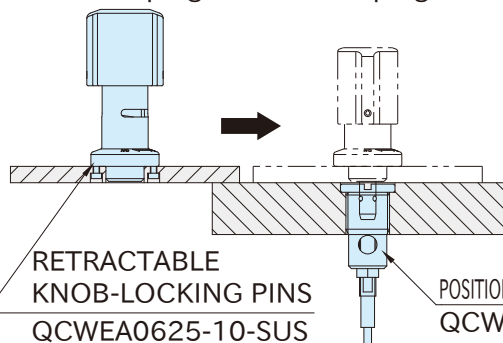
Changes of fixture plates

Sensor detection of fixture plate clamping



Unclamping

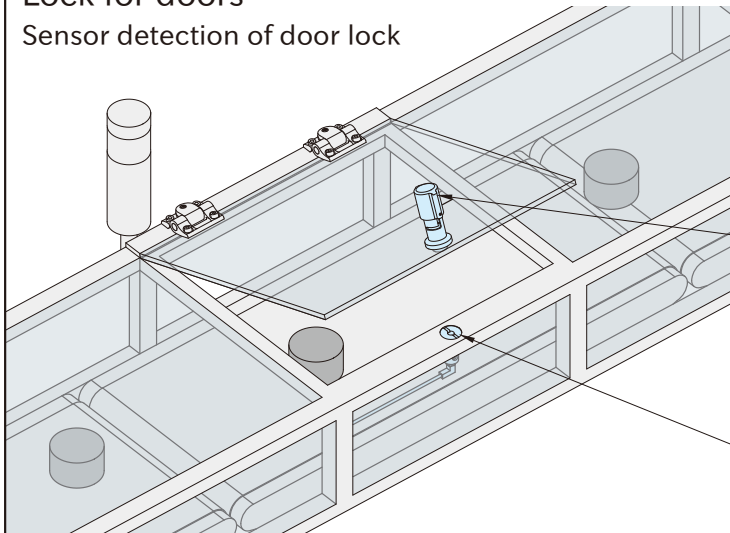
Clamping



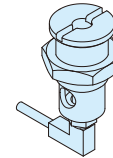
Continuing on Next Page

Application Example

Lock for doors
Sensor detection of door lock



RETRACTABLE KNOB-LOCKING PINS
QCWEA0625-10-SUS



POSITION SENSOR RECEPTACLES
QCWE0625-M16-SL

How To Install

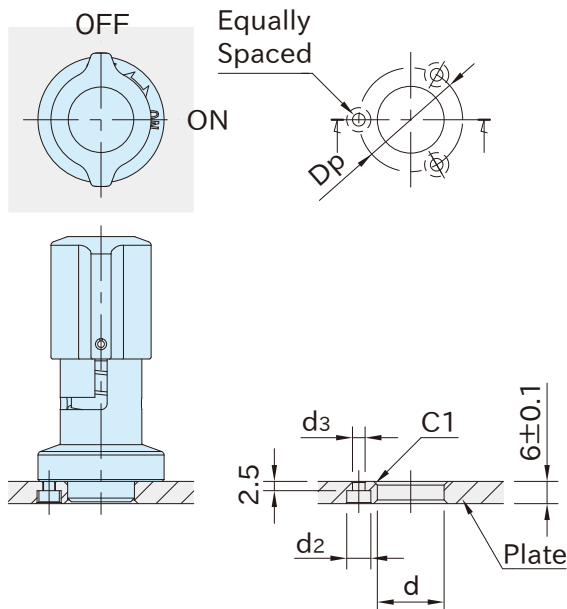


Figure A

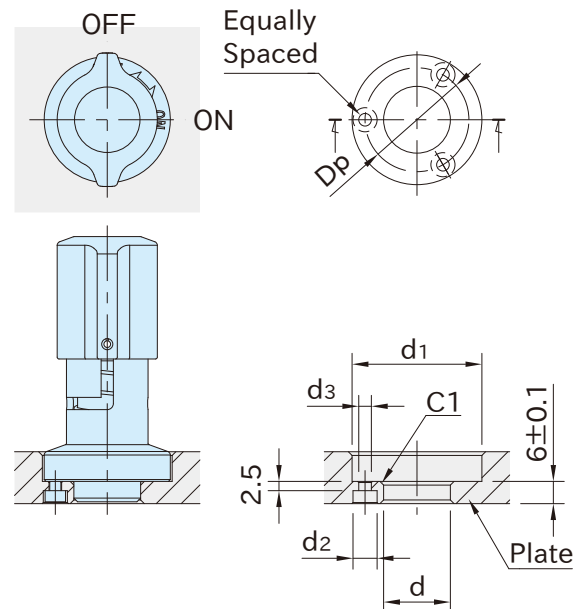
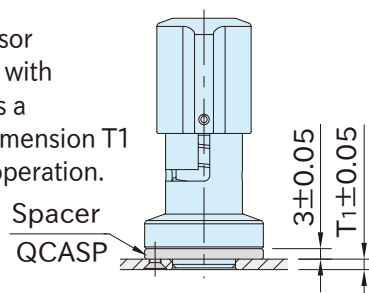


Figure B

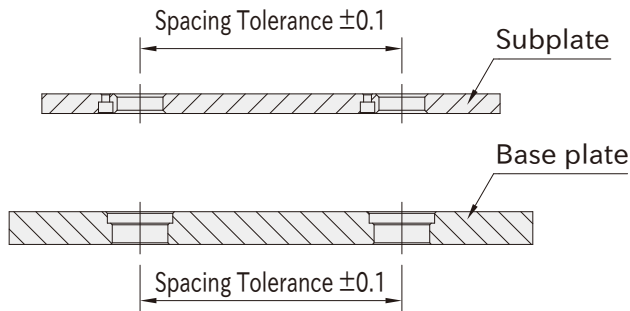
Part Number	Plate Thickness	Figure	d (^{+0.10} _{+0.05})	d ₁	d ₂	d ₃	Dp
QCWEA0625-10-SUS	3 or more, under 6	Spacer QCASP is required. *)					
	6	A	14	—	4.4	2.4	21
	Over 6, 10 or less	B		26			
QCWEA1034-14-SUS	3 or more, under 6	Spacer QCASP is required. *)					
	6	A	18	—	6.5	3.4	28
	Over 6, 14 or less	B		35			

*) Combining Position Sensor Receptacles **QCWE-M-S** with Spacers **QCASP** requires a tolerance of ± 0.05 for dimension T1 to ensure stable sensor operation.



Accuracy

■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

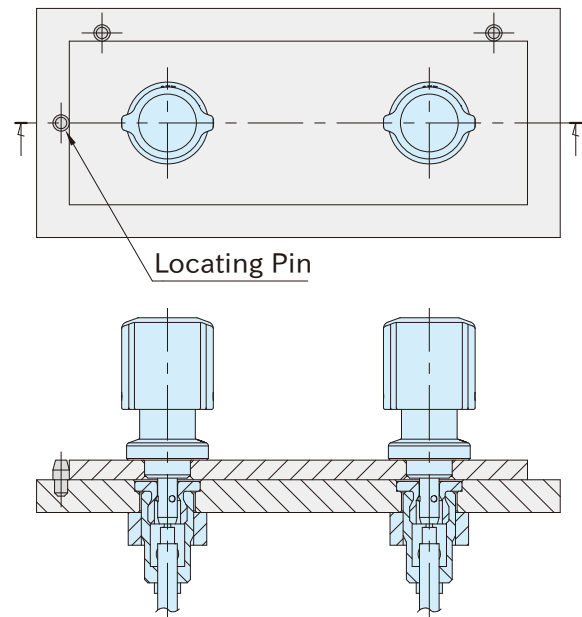
Note: To expand the tolerance range of mounting hole spacing, use [QCBU-FL](#) floating receptacles. See [QCBU-FL](#) Floating Receptacles product pages for details.

Reference

- "How To Install" of [QCWE-M-S](#) Position Sensor Receptacles and [QCBU-M](#) Ball-Lock Receptacles
- [QCBU-FL](#) Floating Receptacles
- Spacer [QCASP](#) is required for 3mm or more, under 6mm plate thickness.

■ Repeatability

Repeatability ± 0.25



For higher accurate locating, use locating components.

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCBU-M

BALL-LOCK RECEPTACLES

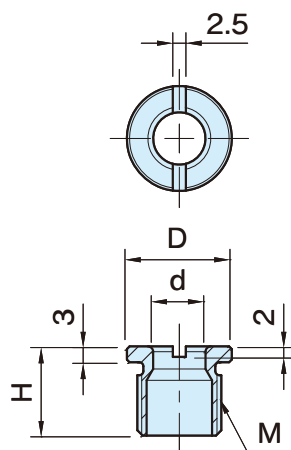


Stainless Steel

Heat resistance: 180°C

ER-EL

IMAO



Body
SUS303 stainless steel

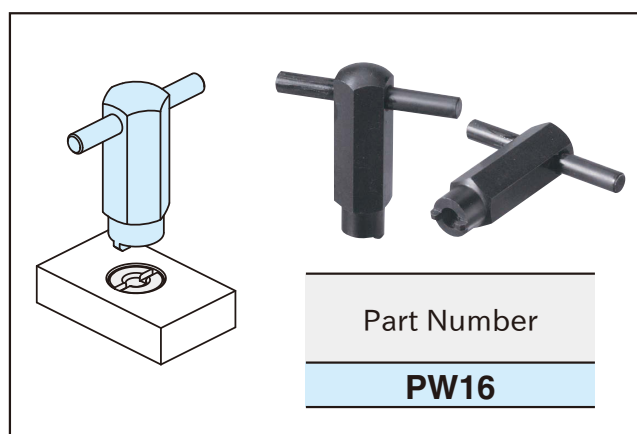
Part Number	Plate Thickness	d (^{+0.4} / _{+0.2})	D (h9)	M	H	Weight (g)
QCBU0608-M12SUS	6 or more	6	16	M12×1.5 (Fine Thread)	15	9
QCBU1012-M16SUS		10	20	M16×1.5 (Fine Thread)	17	13

Part Number	Knob-Locking Pins	Button-Locking Pins	Retractable Knob-locking Pins
QCBU0608-M12SUS	QCWE0625-10 QCWE0625-10-SUS	QCBU0608-10-SUS QCBUS0608-10SUS	QCWEA0625-10-SUS
QCBU1012-M16SUS	QCWE1034-14 QCWE1034-20 QCWE1034-14-SUS QCWE1034-20-SUS	QCBU1012-16-SUS QCBUS1012-16SUS	QCWEA1034-14-SUS

Sold Separately Nut (Stainless Steel)

Part Number	M ₁	T	W
NDX12-NUT-SUS	M12×1.5(Fine Thread)	6	19
NDX16-NUT-SUS	M16×1.5(Fine Thread)	8	24

Sold Separately Installation Wrench



How To Install

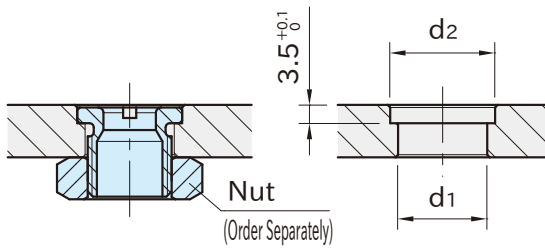


Figure A

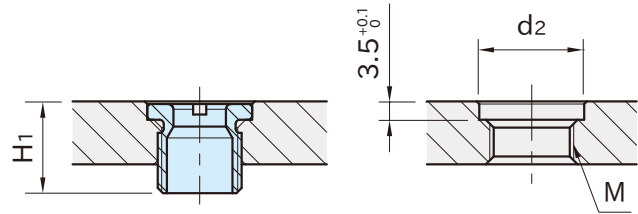
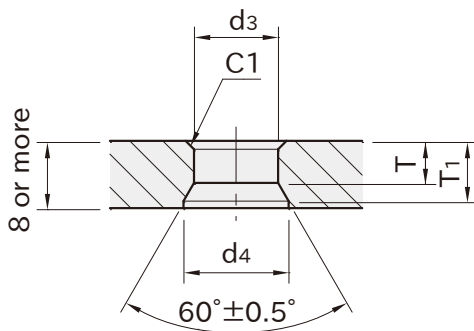


Figure B

Part Number	Plate Thickness	Figure	M	d ₁	d ₂ (+0.10 +0.05)	H ₁
QCBU0608-M12SUS	6~10	A	—	13	16	—
	Over 10	B	M12×1.5 (Fine Thread)	—		15.5
QCBU1012-M16SUS	6~10	A	—	17	20	—
	Over 10	B	M16×1.5 (Fine Thread)	—		17.5

Without Ball-Lock Receptacle

With additional work to plate of 8mm or more thickness, Button-Locking Pins and Knob-Locking Pins can be used directly on the plate made of hard steel such as S45C.



Dimensions				Knob-Locking Pins		Button-Locking Pins		Retractable Knob-locking Pins	
d ₃ (+0.4 +0.2)	d ₄	T (±0.1)	T ₁						
6	8 or more	4.9	(6.6)	QCWE QCWE-SUS	0625-10 1034-14 1034-20	QCBU-SUS QCBUS-SUS	0608-10 1012-16	QCWEA-SUS	0625-10 1034-14
10	12.5 or more	5	(7.2)						

Reference

"Accuracy" of **QCWE** Knob-Locking Pins,
QCBU **QCBUS** Button-Locking Pins
 and **QCWEA-SUS** Retractable Knob-locking
 Pins

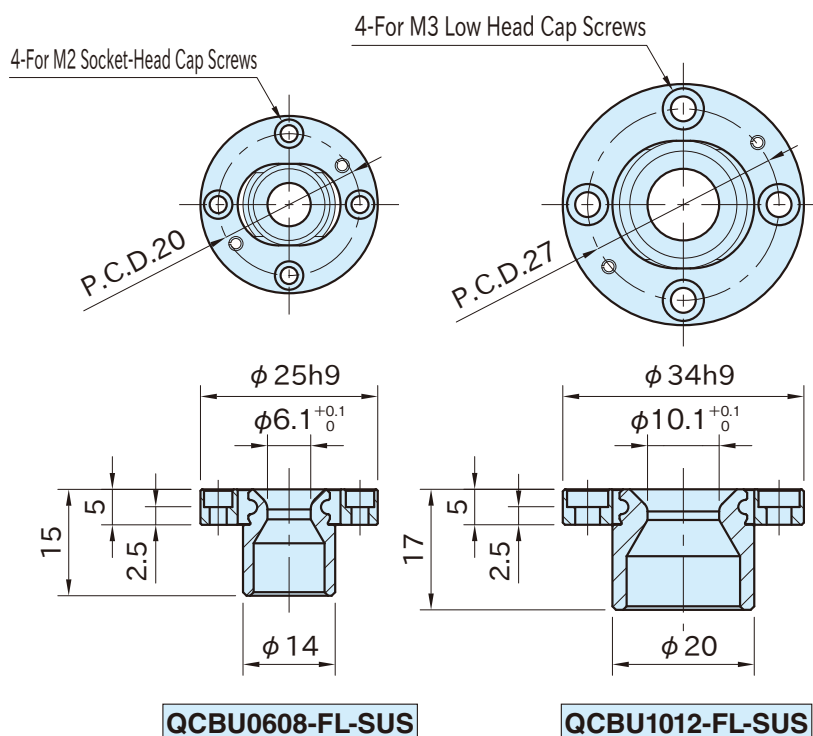
Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp



★One Point

Work with rough mounting hole spacing

Flange, Slider	Spring Pin	Pin
SUS303 stainless steel	SUS420J2 stainless steel	Stainless steel Quenched and tempered

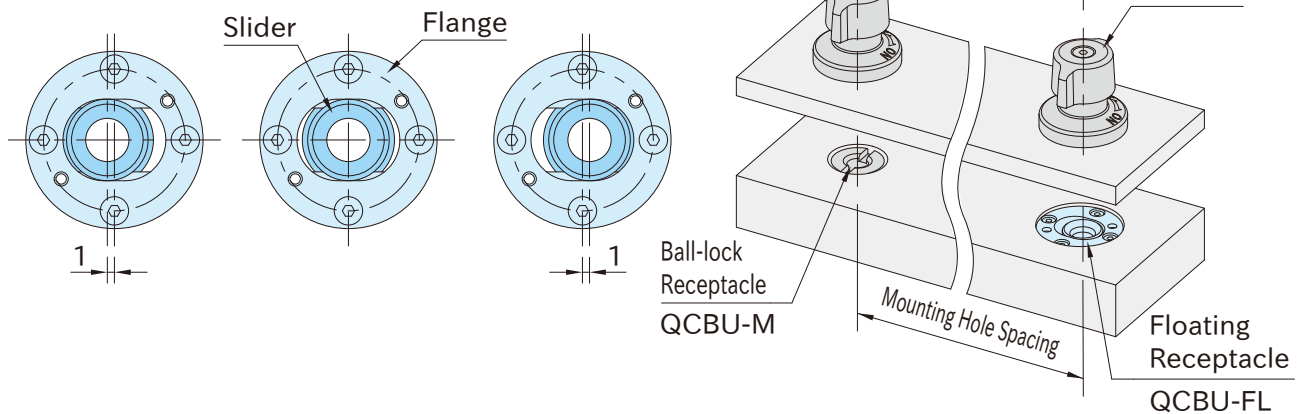
Part Number	Plate Thickness	Weight (g)	Knob-Locking Pins	Retractable Knob-locking Pins	Button-Locking Pins
QCBU0608-FL-SUS	9 or more	21	QCWE0625-10 QCWE0625-10-SUS	QCWEA0625-10-SUS	QCBU0608-10-SUS QCBUS0608-10SUS
QCBU1012-FL-SUS	10 or more	42	QCWE1034-14 QCWE1034-14-SUS QCWE1034-20 QCWE1034-20-SUS	QCWEA1034-14-SUS	QCBU1012-16-SUS QCBUS1012-16SUS

Supplied With

- QCBU0608-FL-SUS:
4 of socket-head cap screws(stainless steel), M2×0.4-5L
- QCBU1012-FL-SUS:
4 of low head cap screws(stainless steel), M3×0.5-6L

Feature

The slider, which slides 1 mm to the left and right, extends the tolerance range of the mounting hole spacing. This allows secure mounting even when the required spacing tolerance for each applicable clamp cannot be achieved.



Technical Information

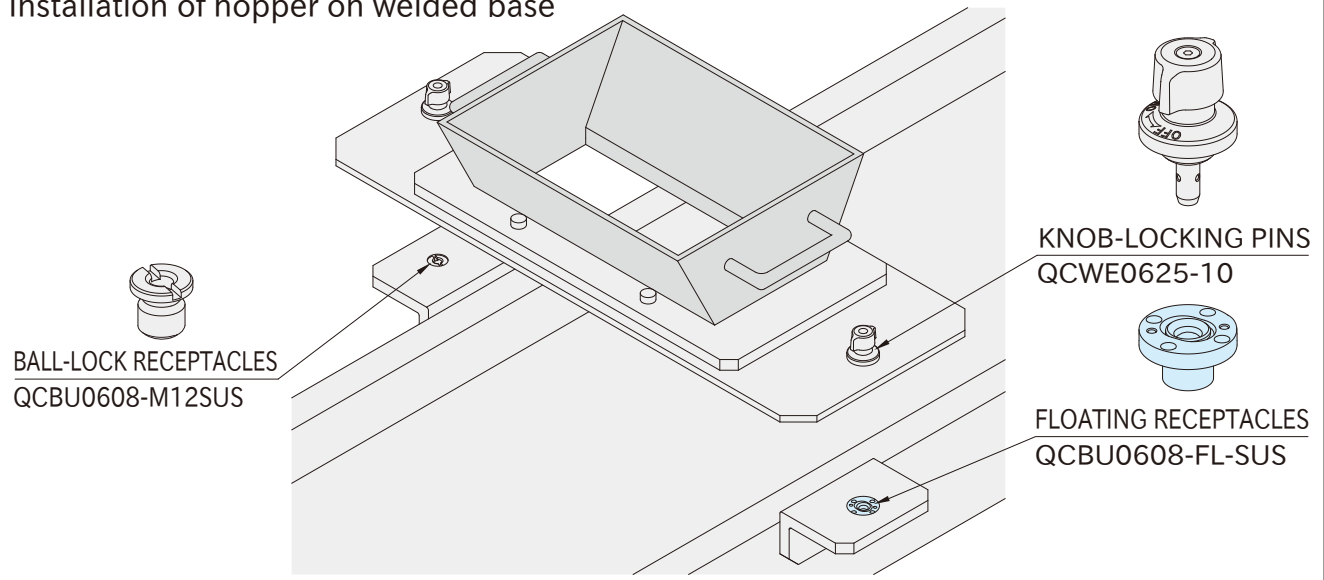
Heat resistant temperature, shear strength, and tensile strength are in accordance with the clamps used.

Note

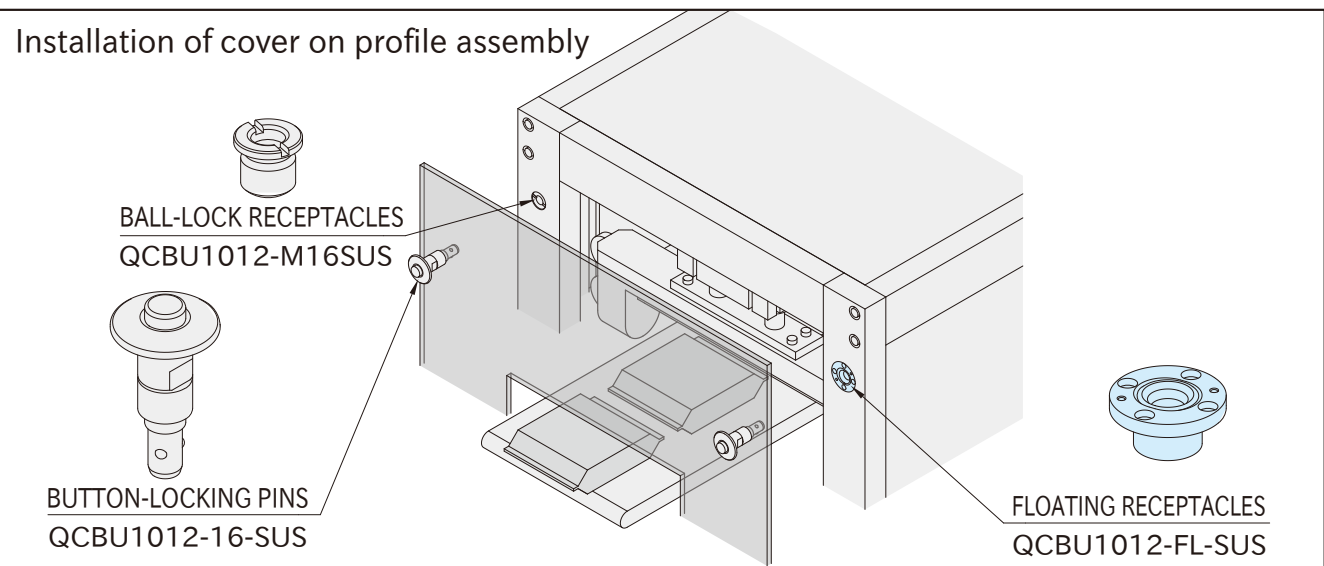
Use this product in pairs with **QCBU-M** receptacles for use with two applicable clamps.

Application Example

Installation of hopper on welded base

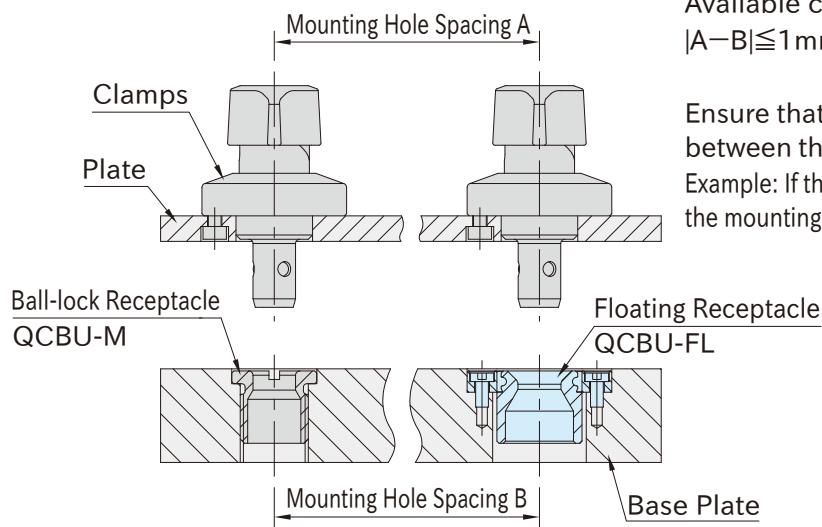


Installation of cover on profile assembly



Continuing on Next Page

How To Set Mounting Hole Spacing



Available conditions:

$$|A - B| \leq 1 \text{ mm}$$

Ensure that the difference in mounting hole spacing between the plate and the base plate is within 1 mm.

Example: If the mounting hole spacing of the plate is 100 ± 0.1 , the mounting hole spacing of the base can be up to 100 ± 0.9 .

How To Install

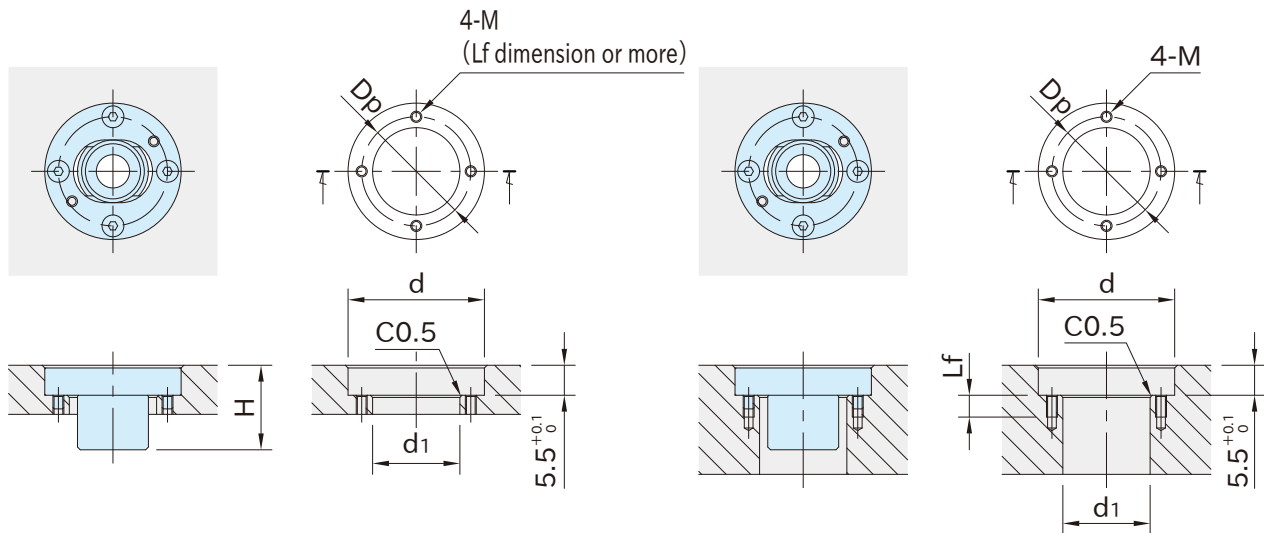


Figure A

Figure B

Part Number	Plate Thickness *)	Figure	d ($+0.10$ $+0.05$)	d ₁	M	D _p	L _f	H
QCBU0608-FL-SUS	9 or more, under 16	A	25	16	M2×0.4	20	4	15.5
	16 or more	B						-
QCBU1012-FL-SUS	10 or more, under 18	A	34	22	M3×0.5	27	5	17.5
	18 or more	B						-

*)With thin plates, the bottom of the floating receptacle protrudes from the plate.

Accuracy

Repeatability is in accordance with the clamps used.

Reference

- [QCWE](#) KNOB-LOCKING PINS
- [QCBU](#) [QCBUS](#) BUTTON-LOCKING PINS
- [QCWEA-SUS](#) RETRACTABLE KNOB-LOCKING PINS
- [QCBU-M](#) BALL-LOCK RECEPTACLES



*Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..*

www.er-el.com.tr



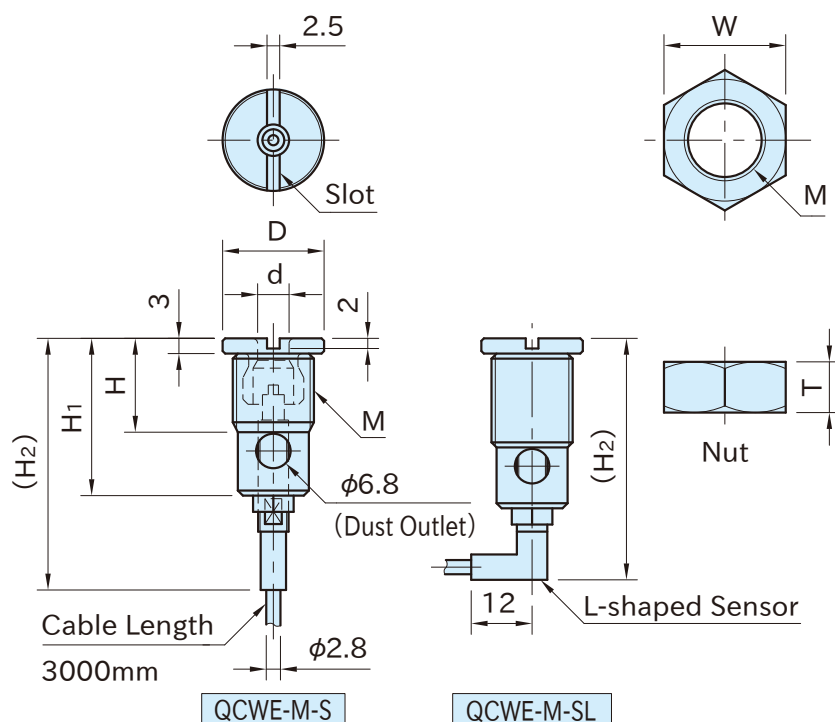
Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp



The positional relationship of a slot, dust outlet, and L-shaped sensor may vary.

★Key Point

Clamping can be detected by sensor.

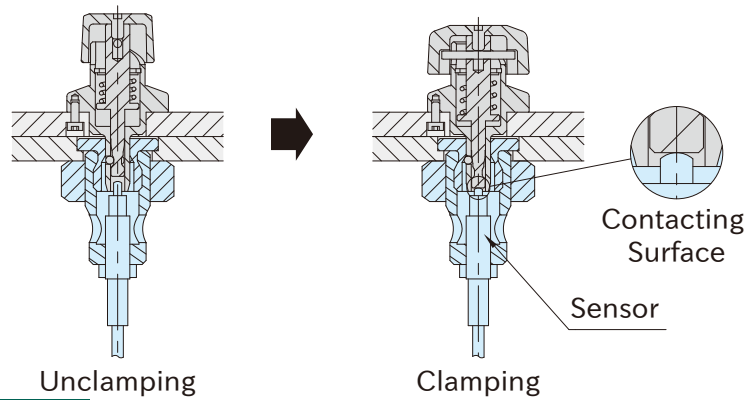
Body	Nut
SUS303 stainless steel	Stainless steel

Part Number	Plate Thickness	d (^{+0.1} ₀)	D (h9)	M	H	H ₁	H ₂	T	W	Weight (g)
QCWE0625-M16-S	6 or more	6.2	20	M16×1.5 (Fine Thread)	18.5	31	50	10	24	85
QCWE0625-M16-SL					21.5	33.5	48	5	22	80
QCWE1034-M20-S		10.2	25	M20×1.5 (Fine Thread)	20.5	33.5	55	12	30	120
QCWE1034-M20-SL					25.5	38	53	5	27	105

Part Number	Knob-Locking Pins	Retractable Knob-locking Pins
QCWE0625-M16-S	QCWE0625-10	QCWEA0625-10-SUS
QCWE0625-M16-SL	QCWE0625-10-SUS	
QCWE1034-M20-S	QCWE1034-14, QCWE1034-20	QCWEA1034-14-SUS
QCWE1034-M20-SL	QCWE1034-14-SUS, QCWE1034-20-SUS	

Feature

- The sensor reacts when the tip of Knob-Locking Pin pushes the contacting surface down.
- Detection of clamping condition prevents human error and improper operation of machinery.



How To Install

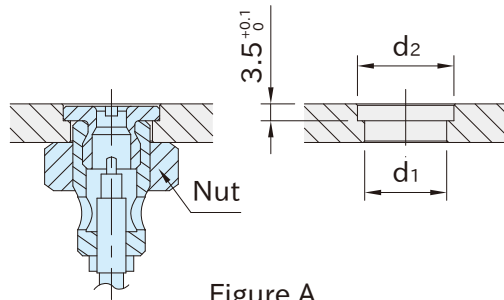


Figure A

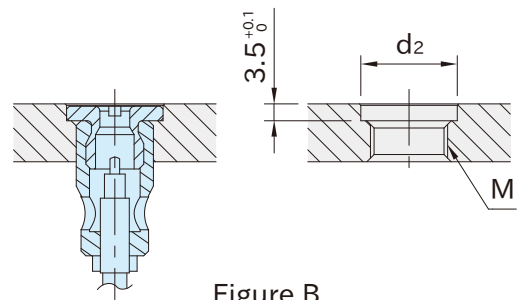


Figure B

Part Number	Plate Thickness	Figure	M	d ₁	d ₂ (^{+0.10} / _{+0.05})
QCWE0625-M16-S	6~10	A	—	17	20
QCWE0625-M16-SL	Over 10	B	M16×1.5(Fine Thread)	—	
QCWE1034-M20-S	6~10	A *)	—	21	25
	Over 10	B	M20×1.5(Fine Thread)	—	
QCWE1034-M20-SL	6~20	A *)	—	21	

*) **QCWE-M-SL** cannot be installed by screwing as in Figure B

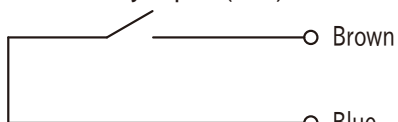
Technical Information

Contact type sensor

- Working temperature: 0 to 80°C (without freezing)
- Switch structure: Dry contact
- Output mode: Normally Open (NO)
- Steady current: under 10mA (In-rush current under 20mA)
- Contact rating: DC5-24V
- Cable: 3000mm, Oil resistance, Duplex, ϕ 2.8, Bending radius R7
- Protection class: IP65 (Sensor part)

■ Circuit diagram

Normally Open (NO)



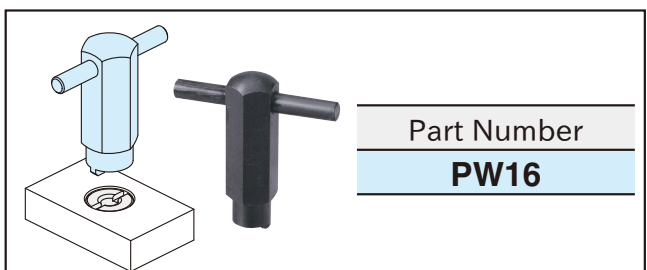
Reference

- "Accuracy" of **QCWE** Knob-Locking Pins
- "Accuracy" of **QCWEA** Retractable Knob-locking Pins

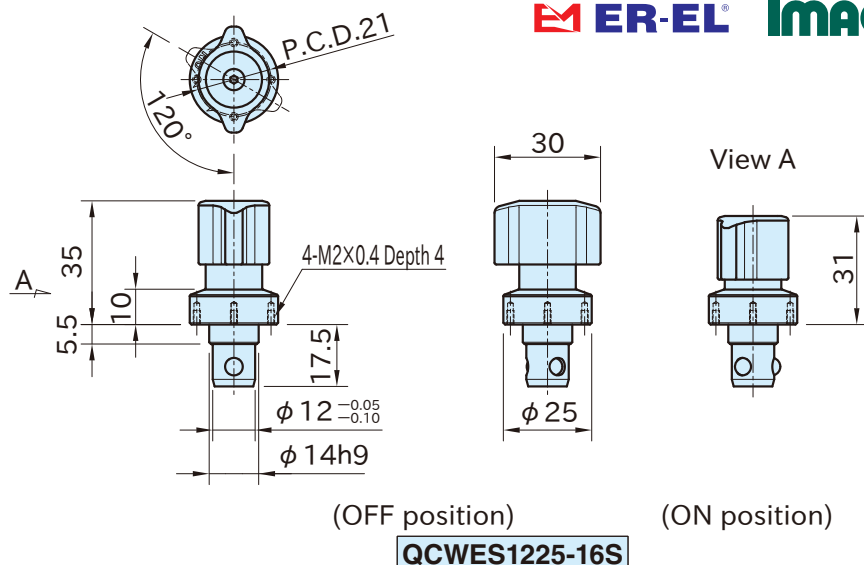
Note:

- To ensure proper operation of receptacles and **QCWE** Knob-Locking Pins/**QCWEA** Retractable Knob-locking Pins, observe the above mounting hole dimensions.
- Removal of adjusted sensor joint may cause malfunction of the products.
- Blow out the dust in the receptacle to prevent malfunction.
- Position Sensor Receptacles can be used only with **QCWE** Knob-Locking Pins and **QCWEA** Retractable Knob-locking Pins.
- Do not use this product as a detection device for personal safety.

Sold Separately Installation Wrench

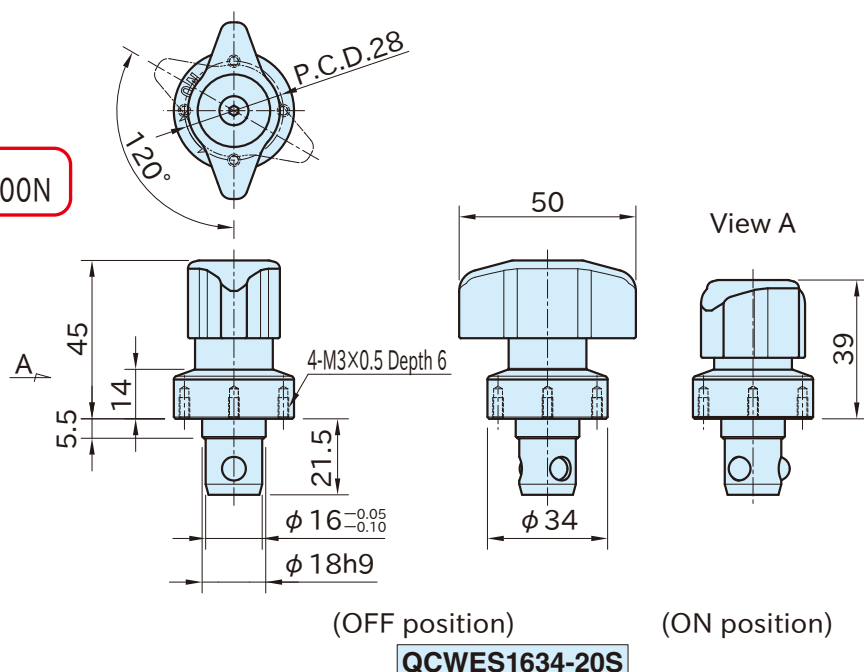


Part Number
PW16



★Key Point

Strong clamping with 1000N / 2000N



Body	Wedge	Knob	Ball	Spring A	Spring B
SCM440 steel Electroless nickel plated	SCM435 steel Electroless nickel plated Quenched and tempered	SCS13 stainless steel (Equivalent to SUS304)	SUS440C stainless steel Quenched and tempered	Equivalent to SWOSC-V steel	SUS304WPB stainless steel

Part Number	Plate Thickness	Clamping Force (N)	Holding Force (N) **)	Weight (g)	Locking Receptacles
QCWES1225-16S	6~16 *)	1000	2500	150	QCWES1225-B
QCWES1634-20S	6~20 *)	2000	5000	290	QCWES1634-B

*) The tolerance should be within ± 0.05 for 6mm-thick plates.

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

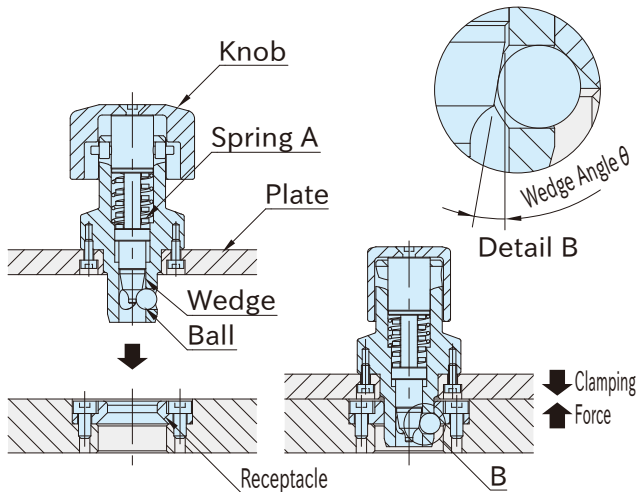
Supplied With

- **QCWES1225-16S**:
4 of socket-head cap screws(stainless steel), M2x0.4-5L
- **QCWES1634-20S**:
4 of socket-head cap screws(stainless steel), M3x0.5-6L

QCWES-B LOCKING RECEPTACLES

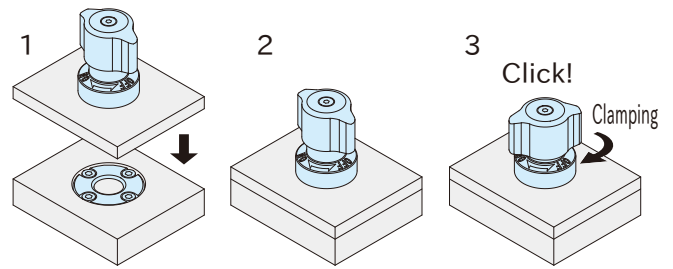


Feature



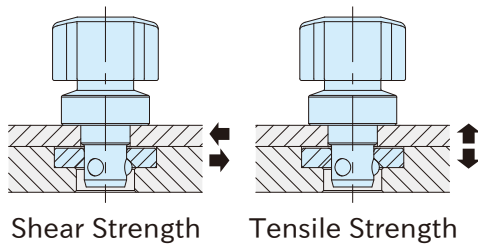
The wedge of the locking pin pushes out the balls against the tapered surface of the receptacle to clamp the two plates.

How To Use



1. Ensure that the knob is positioned at the "OFF" mark.
2. Insert the Knob-Locking Pin
3. Turn the knob to the "ON" mark for clamping. The knob clicks when it is clamped. For unclamping, follow back these steps. The knob turns back to the "OFF" mark by spring force.

Mechanical Strength

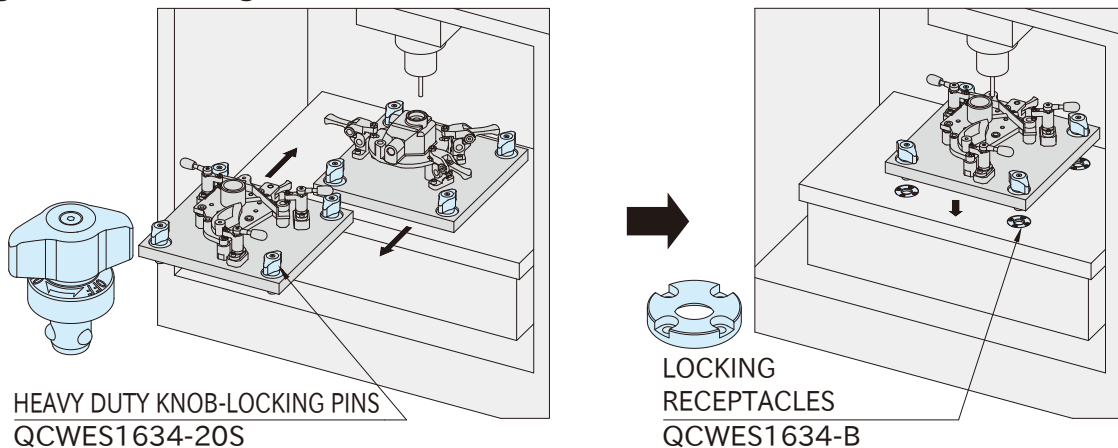


Part Number	Heat-resistant Temperature (°C)	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCWES1225-16S	180	10000	4000
QCWES1634-20S		15000	8000

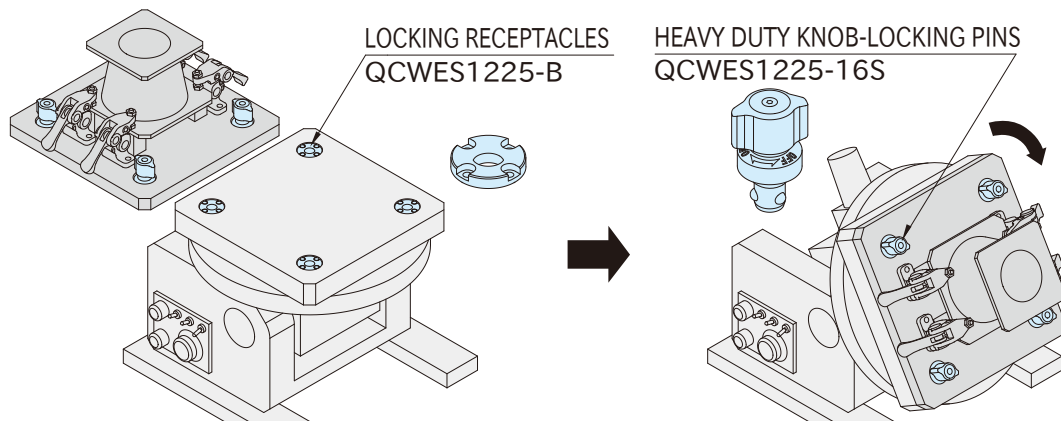
The values shown represent load levels at which failure can occur.

Application Example

Changes of machining fixture



Changes of welding fixture



Continuing on Next Page

Quarter Turn

Button Push

Twist Coupling

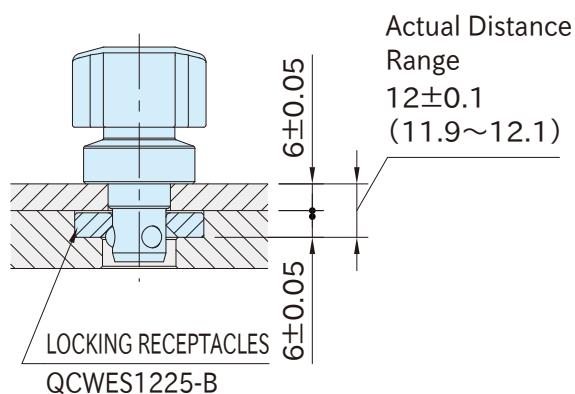
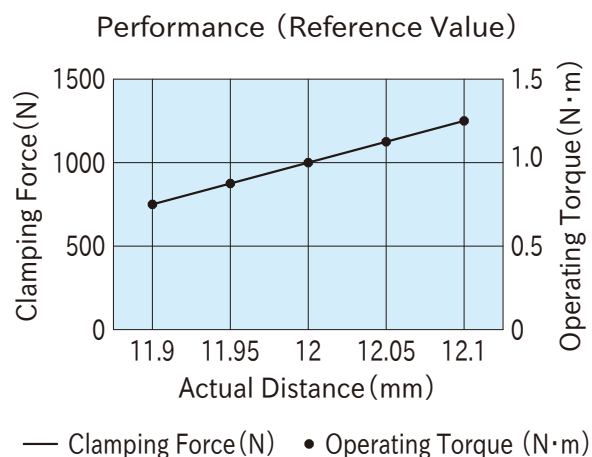
Push Pull

Locate & Clamp

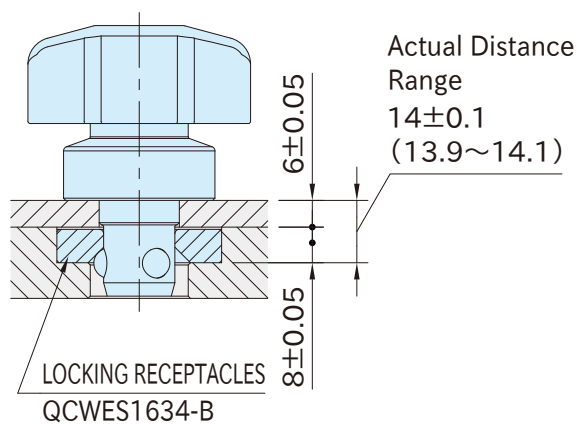
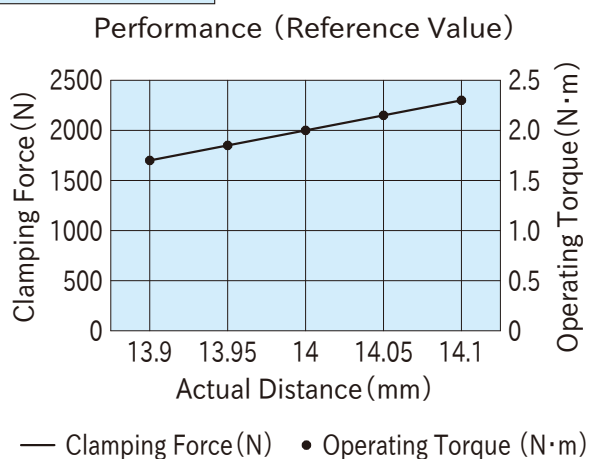
Performance Curve

Actual Mounting Distance vs. Clamping Force and Operating Torque

QCWES1225-16S



QCWES1634-20S



Reference

"How To Install" of [QCWES-B](#) Locking Receptacles

Quarter Turn

Button Push

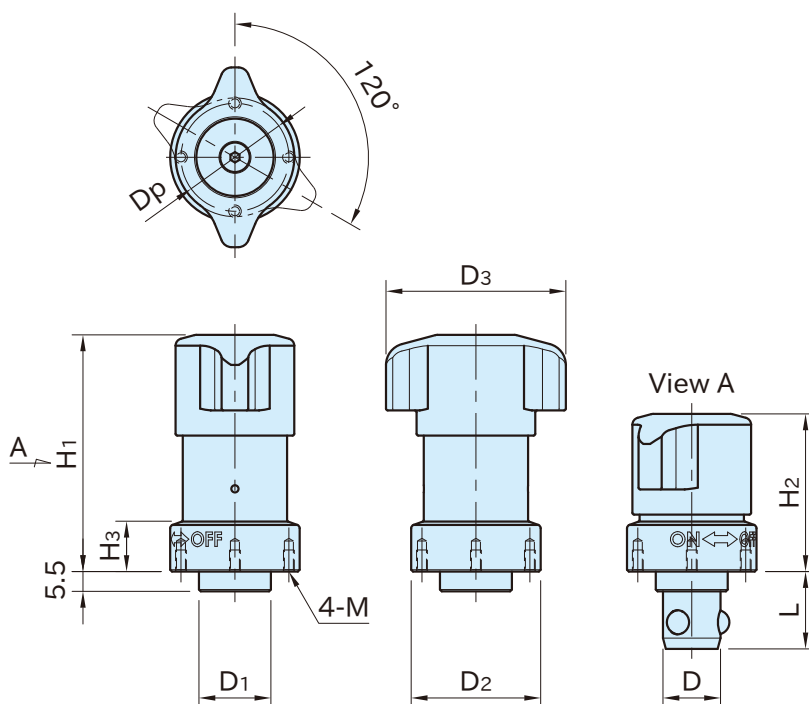
Twist Coupling

Push Pull

Locate & Clamp



(OFF position) (ON position)



(OFF position)

(ON position)

★Key Point

Retractable shaft allows sliding movement with clamping forces of 1000 N and 2000 N

Body	Shank	Wedge	Knob	Ball	Spring A	Spring B
SUS303 stainless steel	SCM440 steel Electroless nickel plated	SCM435 steel Electroless nickel plated Quenched and tempered	SCS13 stainless steel (Equivalent to SUS304)	SUS440C stainless steel Quenched and tempered	Equivalent to SWOSC-V steel	SUS304WPB stainless steel

Part Number	Plate Thickness	D (-0.05 -0.10)	D ₁ (h ₉)	D ₂	D ₃	L	H ₁	H ₂	H ₃	M	Dp
QCWESA1227-16S	6~16 *)	12	16	27	35	17.5	52	35	10	M2x0.4Depth4	23
QCWESA1636-20S	6~20 *)	16	20	36	50	21.5	66	44	14	M3x0.5Depth6	30

Part Number	Clamping Force (N)	Holding Force (N) **)	Weight (g)	Locking Receptacles
QCWESA1227-16S	1000	2500	190	QCWES1225-B
QCWESA1636-20S	2000	5000	320	QCWES1634-B

*) The tolerance should be within ± 0.05 for 6mm-thick plates.

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

Supplied with

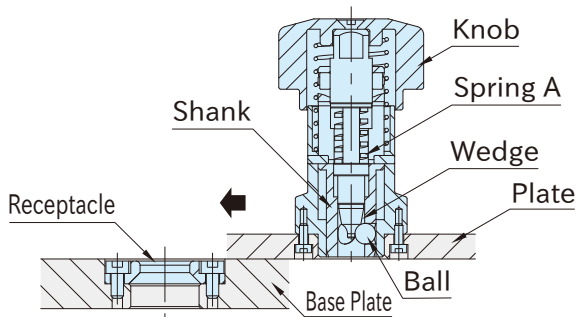
- **QCWESA1227-16S**:
4 of socket-head cap screws(stainless steel), M2X0.4-5L
- **QCWESA1636-20S**:
4 of socket-head cap screws(stainless steel), M3X0.5-6L

QCWES-B

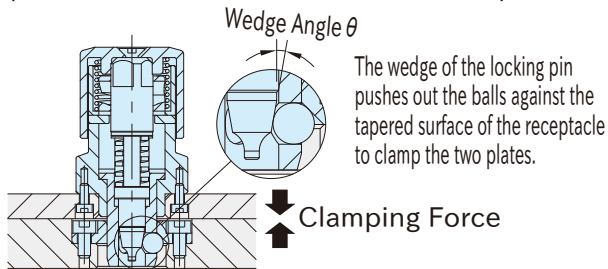
LOCKING RECEPTACLES



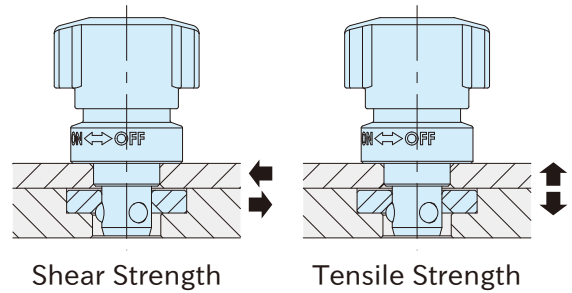
Feature



The shank retracts at the unclamping position to enable operations without interference with the base plate.



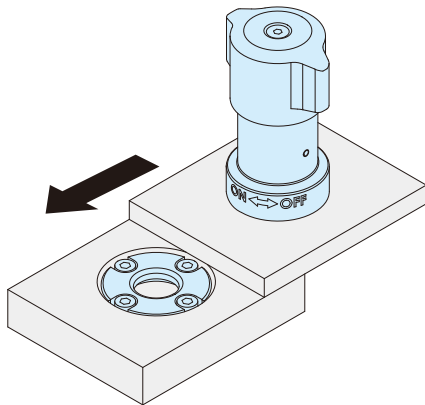
Mechanical Strength



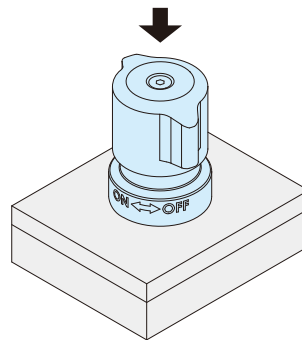
Part Number	Heat-resistant Temperature (°C)	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCWESA1227-16S	180	10000	4000
QCWESA1636-20S		15000	8000

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

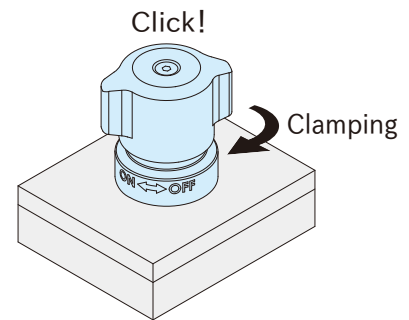
How To Use



1. Ensure that the knob is positioned at the "OFF" mark.



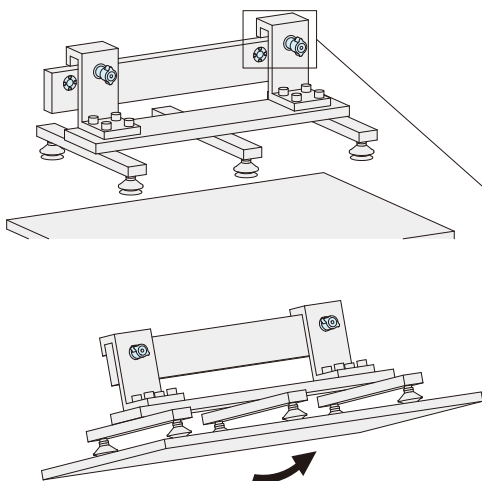
2. Insert the clamp pressing the knob.



3. Turn the knob to the "ON" mark for clamping. The knob clicks when clamped. Turning the knob to the "OFF" position, the shank returns automatically to the unclamping position by the spring.

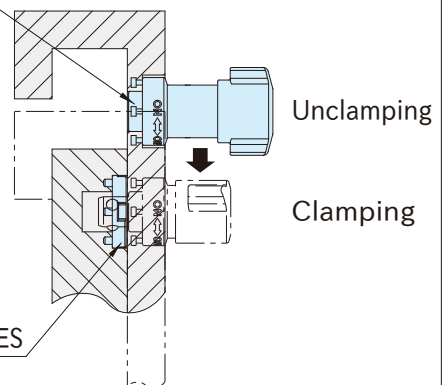
Application Example

Changes of large conveying unit



RETRACTABLE HEAVY DUTY
KNOB-LOCKING PINS
QCWESA1227-16S

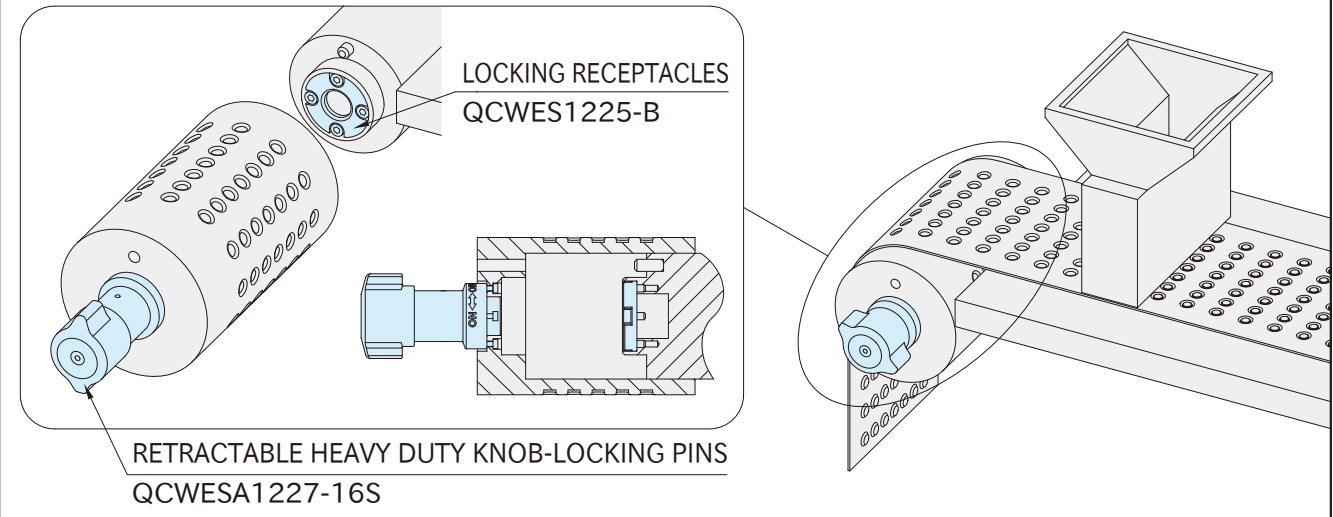
LOCKING RECEPTACLES
QCWES1225-B



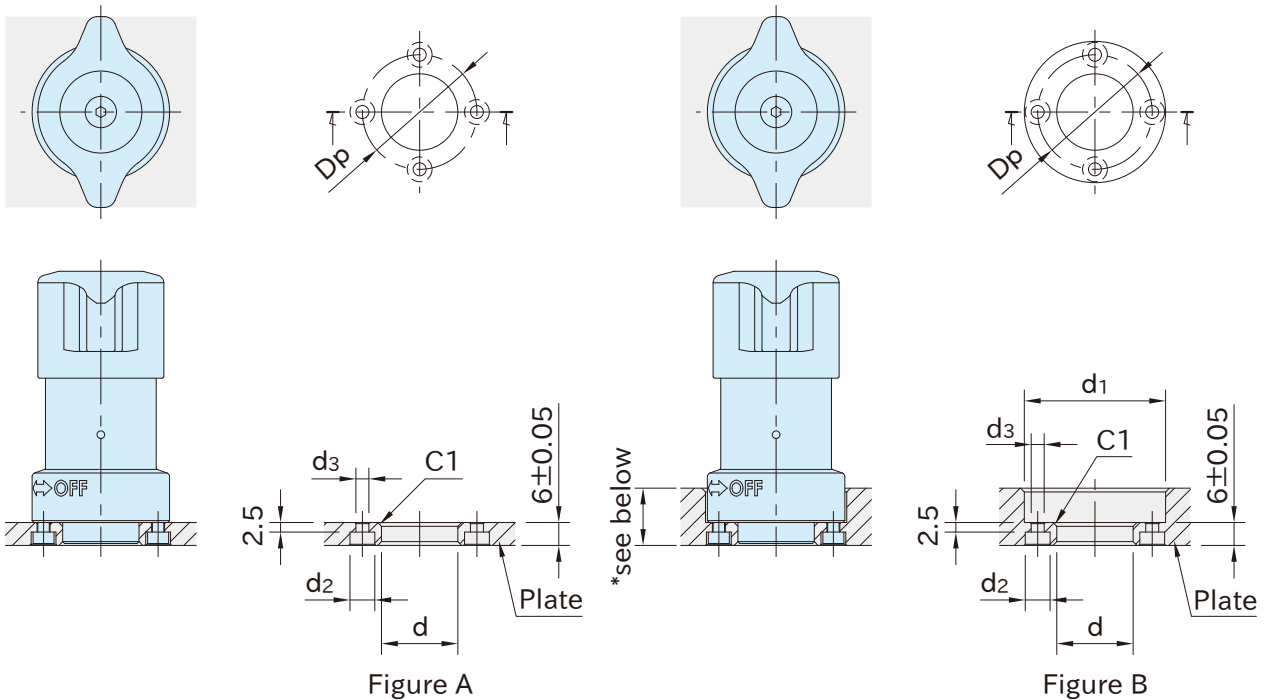
Continuing on Next Page

Application Example

Changes of rollers for blister packaging



How To Install

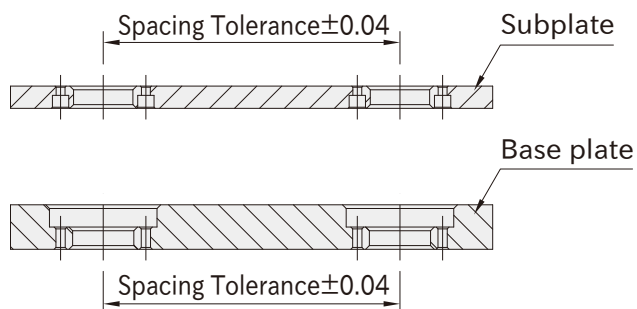


Part Number	Plate Thickness	Figure	d ($+0.10$ $+0.05$)	d ₁	d ₂	d ₃	Dp
QCWESA1227-16S	6	A	16	—	4.4	2.4	23
	Over 6, 16 or less	B		28			
QCWESA1636-20S	6	A	20	—	6.5	3.4	30
	Over 6, 20 or less	B		37			

*) Height to center of ON/OFF mark: **QCWESA1227-16S**: 12mm, **QCWESA1636-20S**: 15mm
For use with thick plates than above, add an ON/OFF mark as needed.

Accuracy

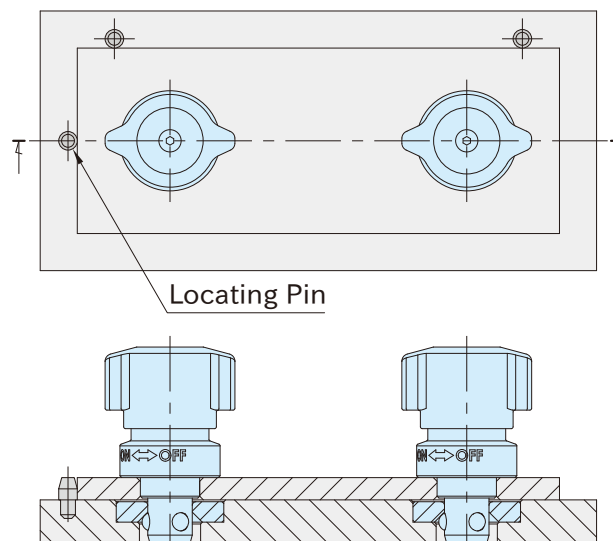
Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ± 0.04 .

Repeatability

Repeatability ± 0.2

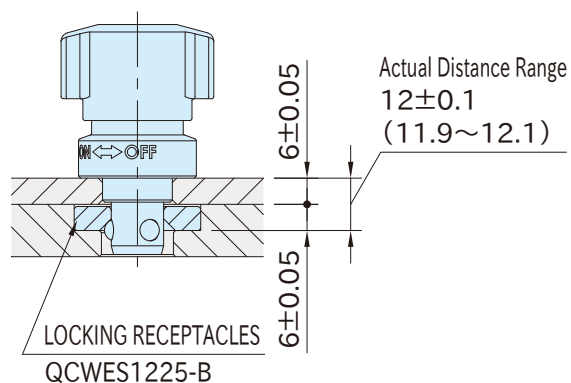
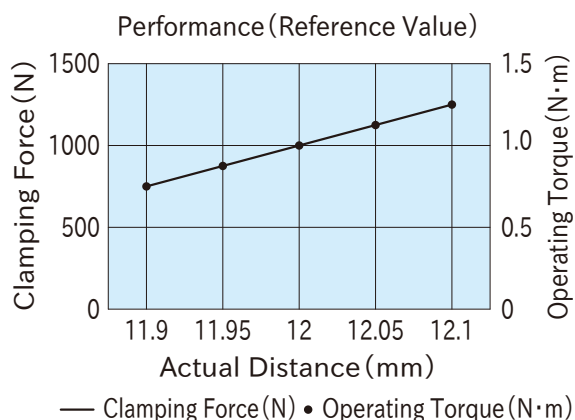


For higher accurate locating, use locating pins.

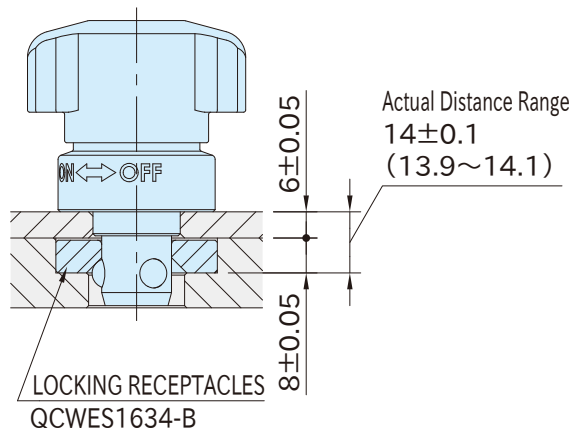
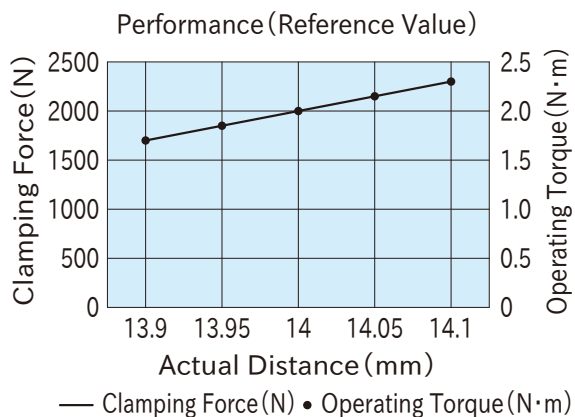
Performance Curve

Actual Mounting Distance vs. Clamping Force and Operating Torque

QCWESA1227-16S



QCWESA1636-20S



Reference

"How To Install" of [QCWES-B](#) Locking Receptacles

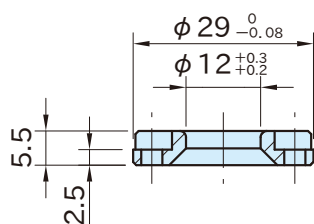
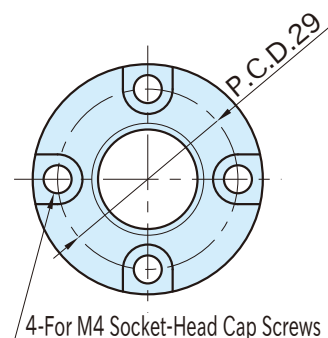
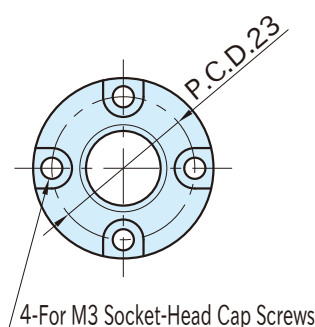
Quarter Turn

Button Push

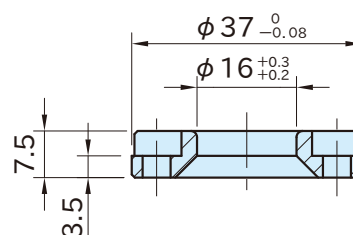
Twist Coupling

Push Pull

Locate & Clamp



QCWES1225-B



QCWES1634-B

Body
SCM435 steel
Electroless nickel plated
Quenched & tempered

Part Number	Plate Thickness	Weight (g)	Heavy Duty Knob-Locking Pins	Retractable Heavy Duty Knob-Locking Pins
QCWES1225-B	10 or more	22	QCWES1225-16S	QCWESA1227-16S
QCWES1634-B	13 or more	47	QCWES1634-20S	QCWESA1636-20S

Supplied With

- **QCWES1225-B**:
4 of socket-head cap screws(stainless steel),
M3×0.5-6L
- **QCWES1634-B**:
4 of socket-head cap screws(stainless steel),
M4×0.7-8L

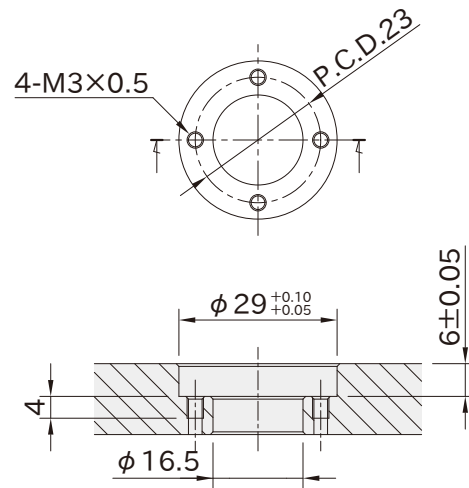
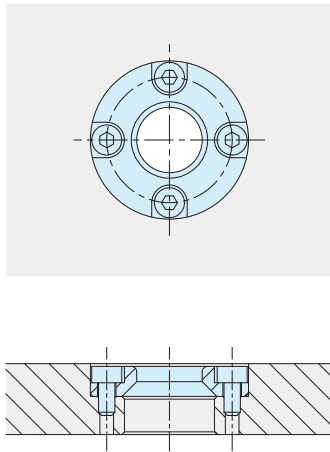
Reference

- "Accuracy" of **QCWES** Heavy Duty Knob-Locking Pins
- "Accuracy" of **QCWESA** Retractable Heavy Duty Knob-Locking Pins

How To Install

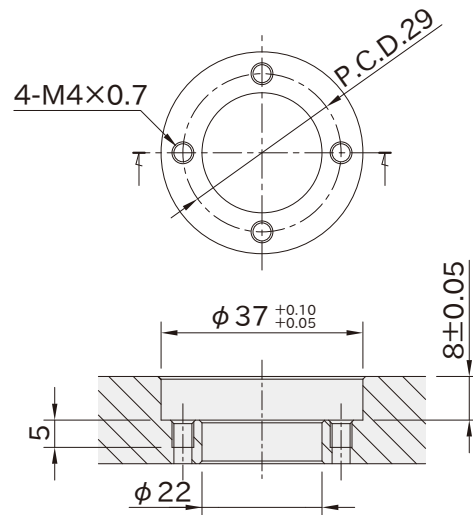
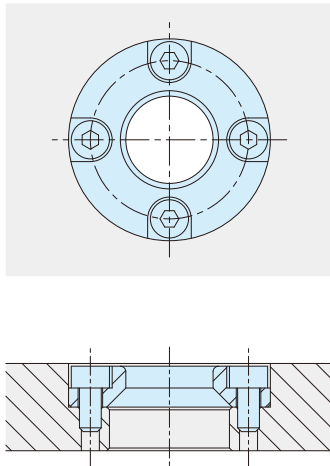
QCWES1225-B

Plate thickness should be 10mm or more.



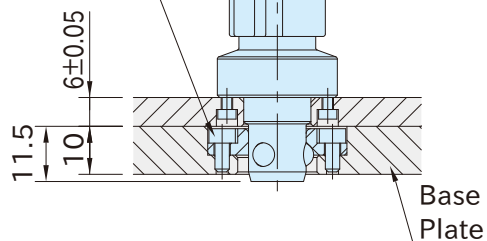
QCWES1634-B

Plate thickness should be 13mm or more.



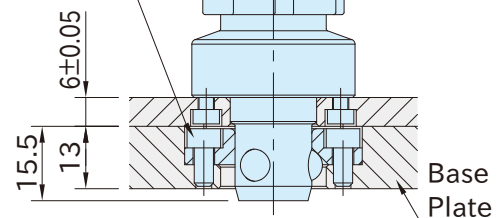
Note

Socket-Head Cap Screw
M3x0.5-6L
(included)



QCWES1225-16S **QCWESA1227-16S**

Socket-Head Cap Screw
M4x0.7-8L
(included)



QCWES1634-20S **QCWESA1636-20S**

The shaft of Heavy Duty Knob-Locking Pins can protrude from the base plate depending on the thickness of the base plate.

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp



Stainless Steel

ER-EL

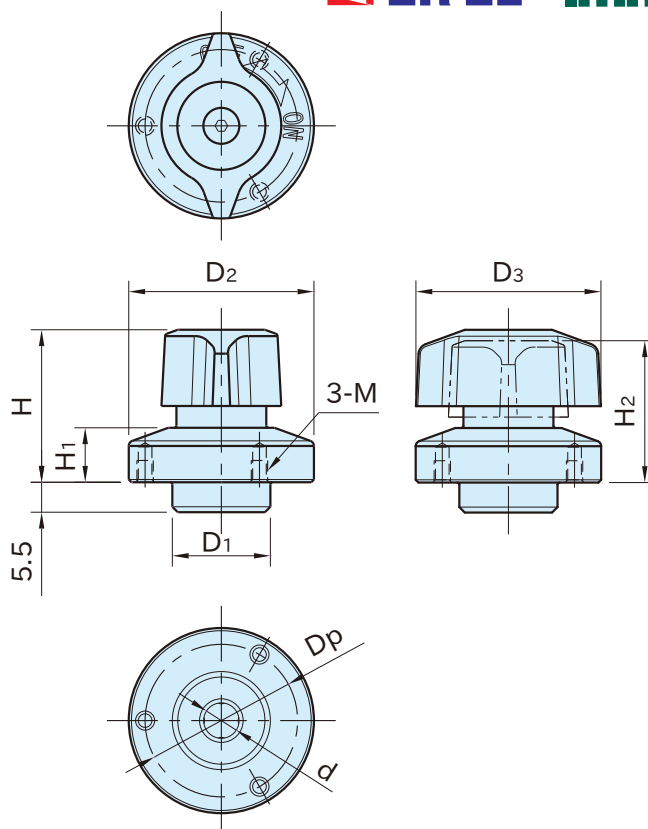
IMAO



QCPC
(Plastic Knob)



QCPC-SUS
(Stainless Steel)



★Key Point

Minimises space requirement with clamping pins.

Type	Body	Shaft	Knob	Ball	Spring
QCPC	SUS303 stainless steel	S45C steel Electroless nickel plated	Polyamide (glass-fiber reinforced) Black	SUS440C stainless steel Quenched and tempered	SUS304WPB stainless steel
QCPC-SUS	SUS303 stainless steel	SUS303 stainless steel	SCS13 stainless steel (Equivalent to SUS304)		

Size		Plate Thickness	d (^{+0.4} / _{+0.2})	D ₁ (h9)	D ₂	D ₃	H	H ₁	H ₂	M	D _p	Clamping Force (N)	Holding Force (N)**)	Clamping Pins
QCPC	0625-10	3~10)	6	14	25	25	23	6.5	22	M2×0.4 Depth 3	21	7	110	QCPC0625-M4-SUS
QCPC-SUS	0834-14	3~14)	8	18	34	34	28	10	26.5	M3×0.5 Depth 4	28	9	150	QCPC0834-M5-SUS

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

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

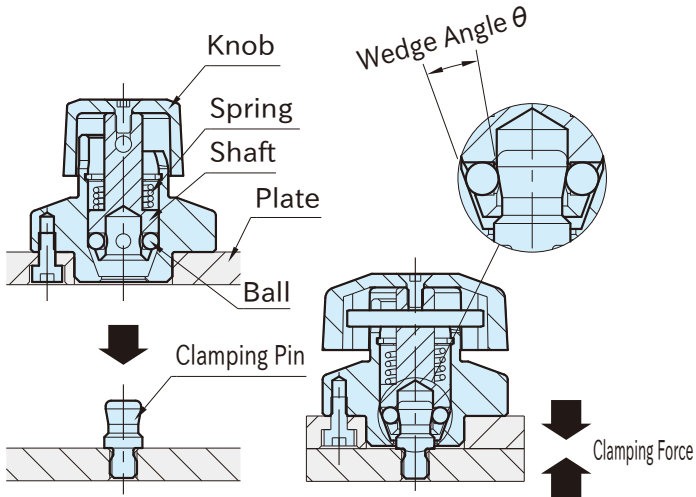
QCPC (Plastic Knob)		QCPC-SUS (Stainless Steel)	
Part Number	Weight (g)	Part Number	Weight (g)
QCPC0625-10	35	QCPC0625-10-SUS	45
QCPC0834-14	85	QCPC0834-14-SUS	105



Supplied With

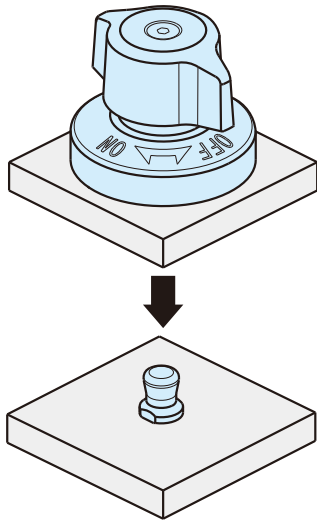
- **QCPC** **QCPC-SUS** 0625-10:
: 3 of socket-head cap screws(stainless steel), M2×0.4-5L
- **QCPC** **QCPC-SUS** 0834-14:
: 3 of socket-head cap screws(stainless steel), M3×0.5-6L

Feature

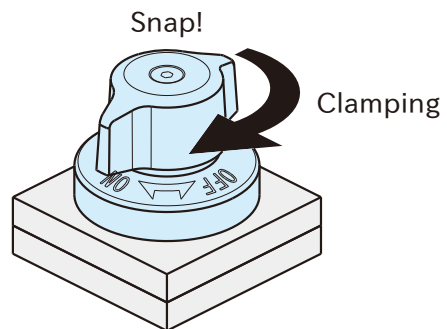


Four balls hold the Clamping Pin to pull the plate for clamping.

How To Use



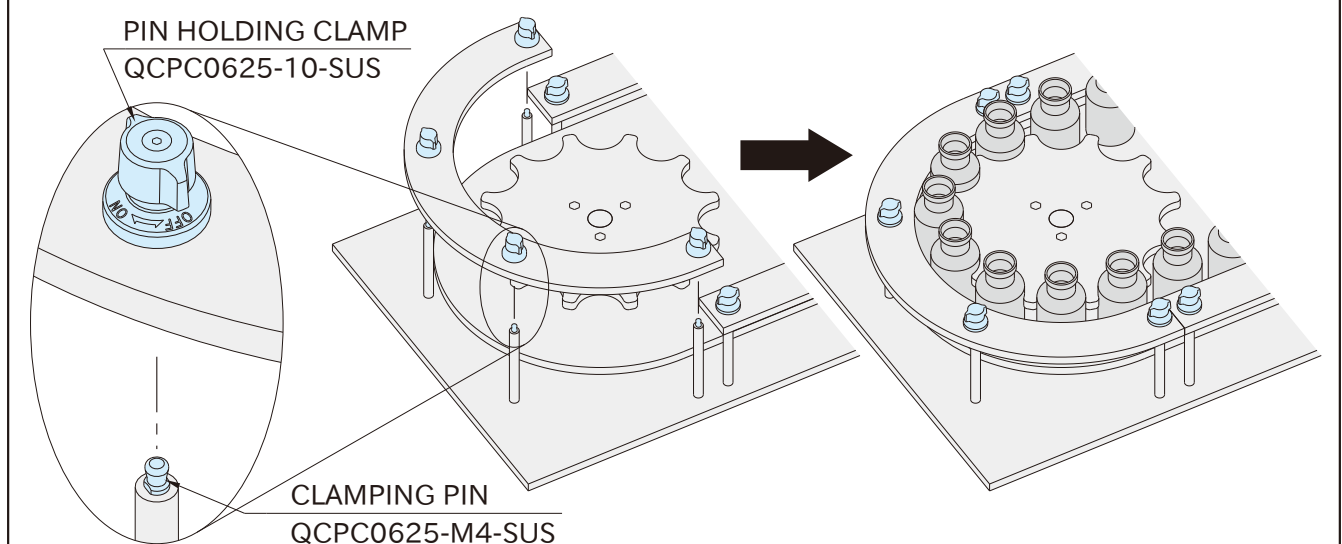
1. Ensure that the knob is positioned at the "OFF" mark and put Pin Holding Clamp over the Clamping Pin.



2. Turn the knob to the "ON" mark for clamping.
Note: For unclamping, follow back these steps.

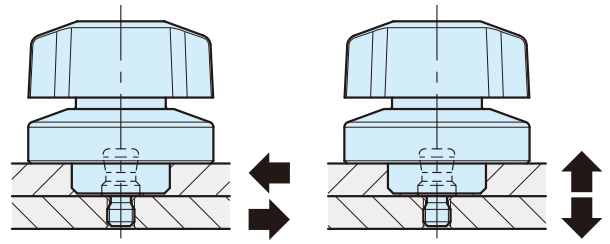
Application Example

Changes of guides around star wheels



Continuing on Next Page

Mechanical Strength



Shear Strength

Tensile Strength

Size		Heatresistant Temperature (°C)	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCPC	0625-10	130	1100	250
	0834-14		1800	400
QCPC-SUS	0625-10	180	1100	250
	0834-14		1800	400

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

Quarter Turn

Button Push

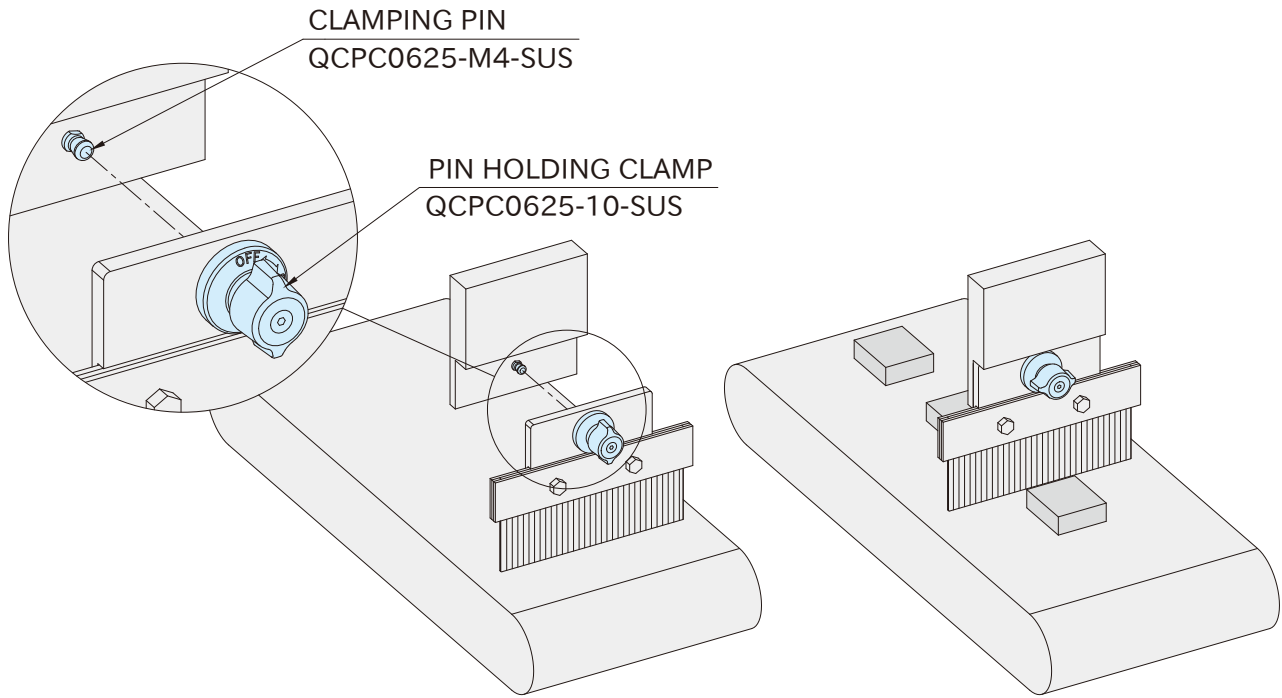
Twist Coupling

Push Pull

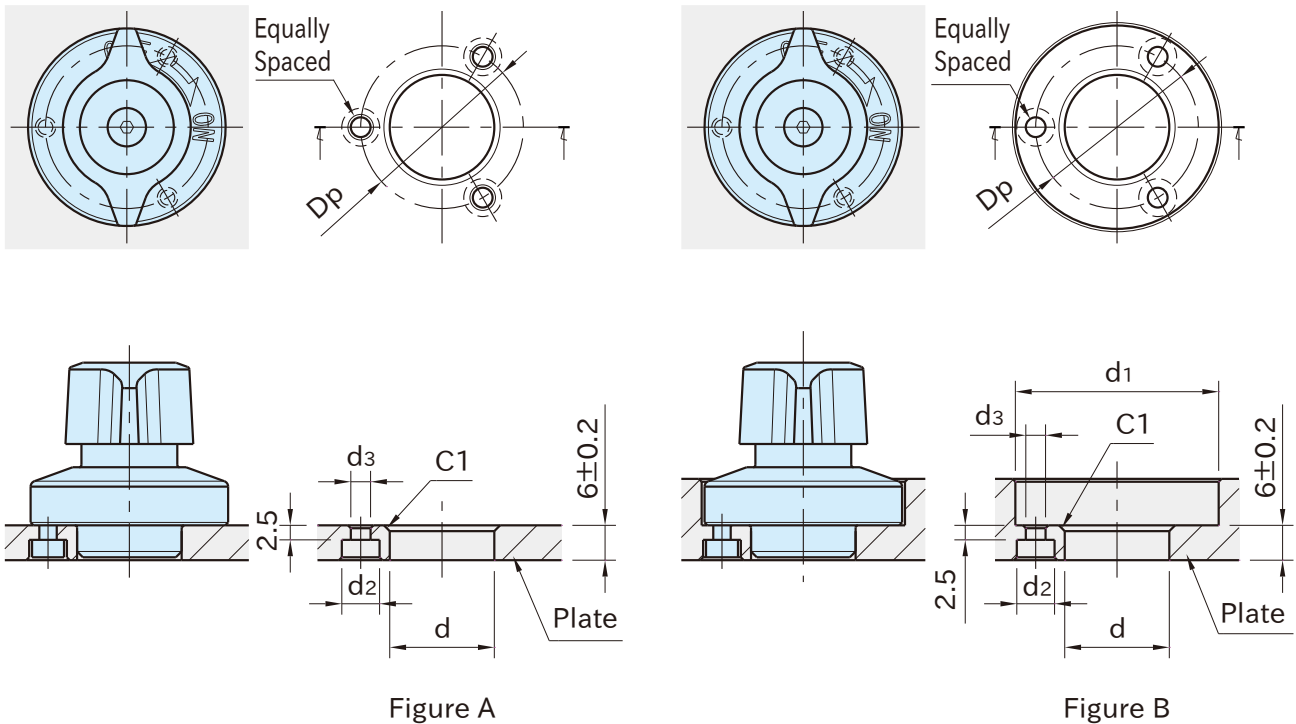
Locate & Clamp

Application Example

Changes of static electricity removal brush



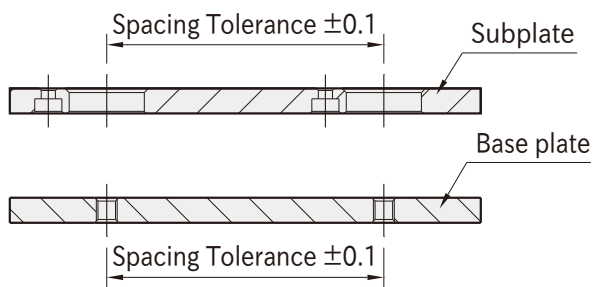
How To Install



Size		Plate Thickness	Figure	d (+0.10 (+0.05)	d ₁	d ₂	d ₃	Dp
QCPC QCPC-SUS	0625-10	3 or more, under 6	Spacer QCASP is required.					
		6	A	14	—	4.4	2.4	21
		Over 6, 10 or less	B		26			
	0834-14	3 or more, under 6	Spacer QCASP is required.					
		6	A	18	—	6.5	3.4	28
		Over 6, 14 or less	B		35			

Accuracy

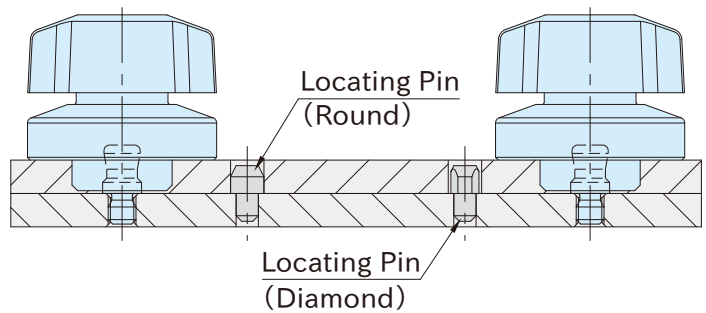
■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

■ Repeatability

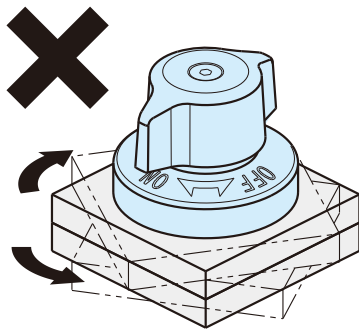
Repeatability ± 0.25



For higher accurate locating, use locating pins.

! Note

Rotation of either sub plate or base plate can get Pin Holding Clamp unclamped, when one pair of the clamp and the clamping pin is used. Prepare a stop in such application.



Reference

- "How To Install" of **QCPC-M** Clamping Pins
- Spacer **QCASP** is required for 3mm or more, under 6mm plate thickness.

QCASP

SPACERS



Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

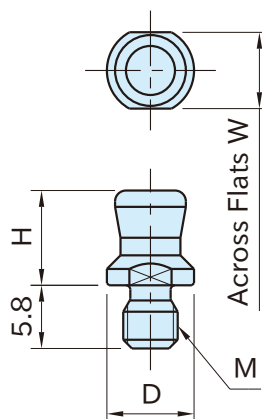
QCPC-M

CLAMPING PINS



Stainless Steel

Heat resistance: 180°C



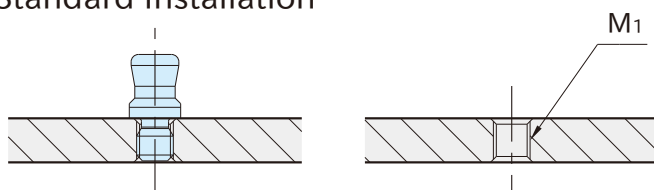
Body
SUS630 stainless steel Precipitation hardened

Part Number	D (-0.05 -0.10)	M	H	W	Weight (g)	Pin Holding Clamps	Snap-In Clamps
QCPC0625-M4-SUS	6	M4×0.7	7.6	5	2	QCPC0625-10 QCPC0625-10-SUS	QCOW0616-10SUS QCOWS0616-10SUS
QCPC0834-M5-SUS	8	M5×0.8	8.7	7	3	QCPC0834-14 QCPC0834-14-SUS	—

Note: Refer to the product pages of clamps for machining accuracy and repeatability.

How To Install

Standard Installation

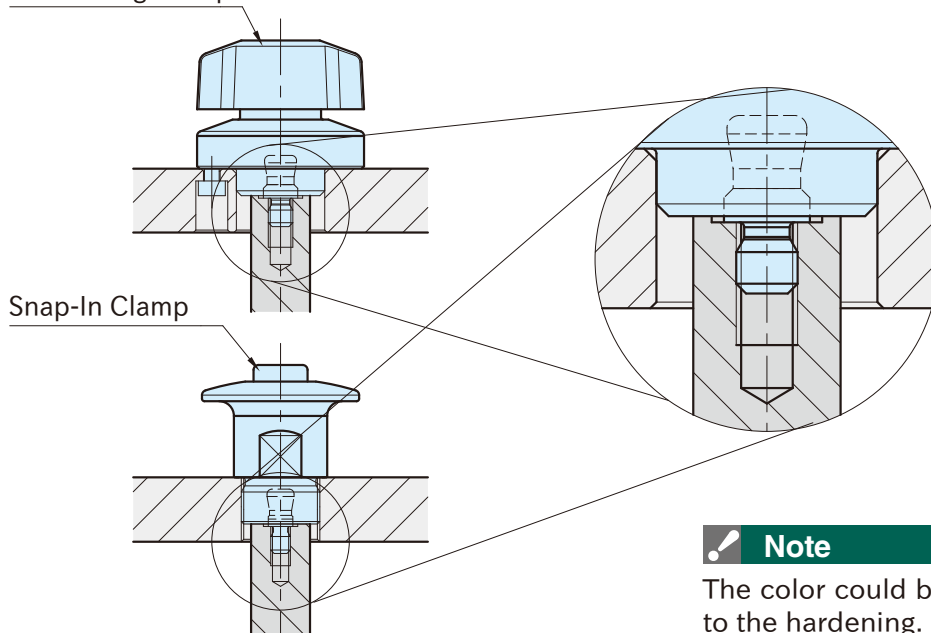


Part Number	M ₁	d
QCPC0625-M4-SUS	M4×0.7	7
QCPC0834-M5-SUS	M5×0.8	9

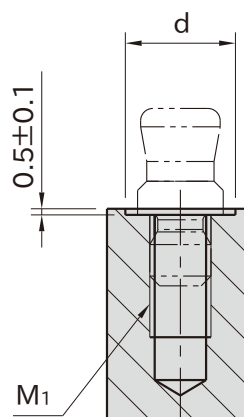
Space-Saving Installation

Prepare a counterbored hole with depth 0.5 ± 0.1 on the surface where Clamping Pin to be mounted directly contacts with the bottom surface of the clamp.

Pin Holding Clamp



Snap-In Clamp



Note

The color could be different from the picture due to the hardening.



*Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..*

www.er-el.com.tr



Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp



Stainless Steel

ER-EL®

IMAO



QCPCS

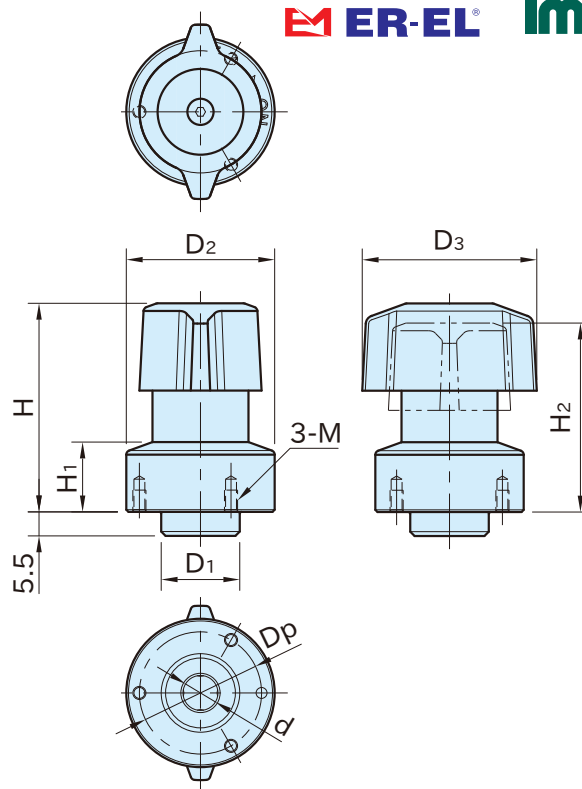
(Plastic Knob)



QCPCS-SUS

(Stainless Steel)

Stainless Steel



★Key Point

Minimises space requirement with clamping pins.

Type	Body	Wedge	Knob	Ball	Spring
QCPCS	SUS303 stainless steel	SUS630 stainless steel	Polyamide (glass-fiber reinforced) Black	SUS440C stainless steel Quenched and tempered	SUS304WPB stainless steel
QCPCS-SUS		Precipitation hardened	SCS13 stainless steel (Equivalent to SUS304)		

Size		Plate Thickness	d (+0.4 / +0.2)	D ₁ (h9)	D ₂	D ₃	H	H ₁	H ₂	M	D _p	Clamping Force (N)	Holding Force (N)**	Clamping Pins
QCPCS QCPCS-SUS	0625-20	3~20 *)	6	14	25	30	40	14.7	36	M2×0.4 Depth 4	21	150	450	QCPCS 0625-M4-SUS QCPCSF0625-M5-SUS QCPCSF0625-M6-SUS
	0834-20	3~20 *)	8	18	34	40	48	16	43	M3×0.5 Depth 5	28	250	750	QCPCS 0834-M5-SUS QCPCSF0834-M6-SUS

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

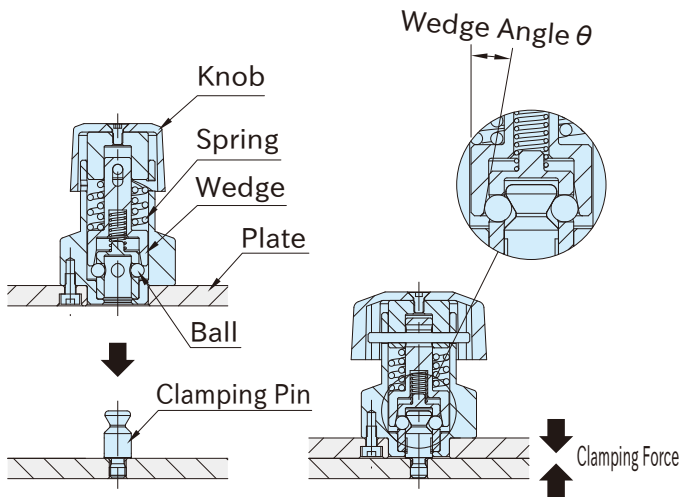
**) Exceeding the holding force creates a gap of greater than 0.1mm between plates.

QCPCS (Plastic Knob)		QCPCS-SUS (Stainless Steel)	
Part Number	Weight (g)	Part Number	Weight (g)
QCPCS0625-20	85	QCPCS0625-20-SUS	100
QCPCS0834-20	165	QCPCS0834-20-SUS	195

Supplied With

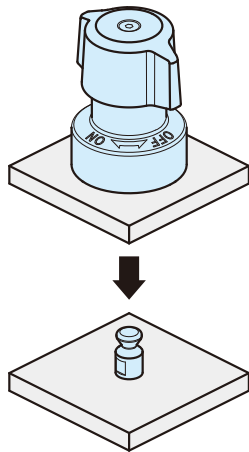
- QCPCS QCPCS-SUS 0625-20:
3 of socket-head cap screws(stainless steel), M2×0.4-5L
- QCPCS QCPCS-SUS 0834-20:
3 of socket-head cap screws(stainless steel), M3×0.5-6L

Feature

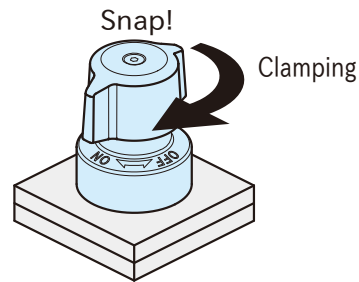


Four balls hold the Clamping Pin to pull the plate for clamping.

How To Use



1. Ensure that the knob is positioned at the "OFF" mark and put Pin Holding Clamp over the Clamping Pin.



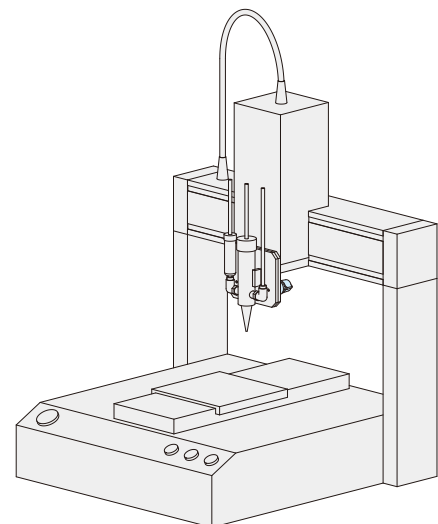
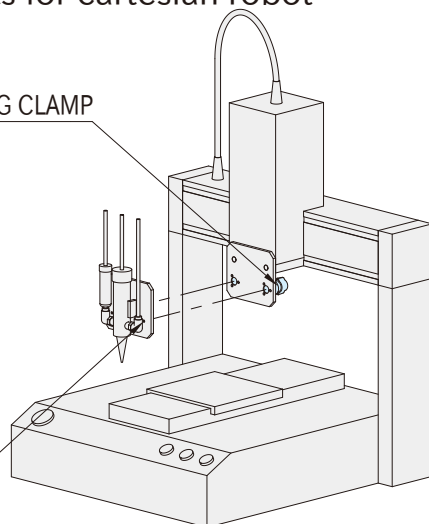
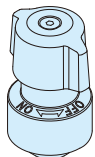
2. Turn the knob to the "ON" mark for clamping.
Note: For unclamping, follow back these steps.

Application Example

Changes of attachments for cartesian robot

HEAVY DUTY PIN HOLDING CLAMP
QCPCS0625-20

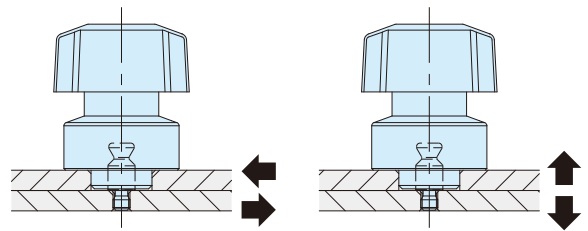
CLAMPING PIN
QCPCS0625-M4-SUS



Continuing on Next Page

Mechanical Strength

Heatresistant Temperature **QCPCS** 130°C
QCPCS-SUS 180°C



Shear Strength

Tensile Strength

Size	Clamping Pin Size	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCPCS	0625-20	QCPCS 0625-M4-SUS	1800
		QCPCSF0625-M5-SUS	
		QCPCSF0625-M6-SUS	
QCPCS-SUS	0834-20	QCPCS 0834-M5-SUS	2400
		QCPCSF0834-M6-SUS	

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

Quarter Turn

Button Push

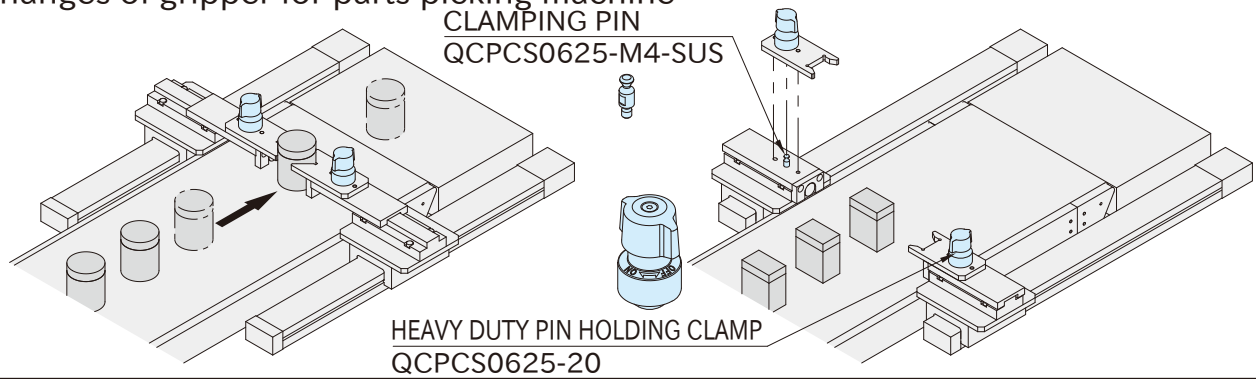
Twist Coupling

Push Pull

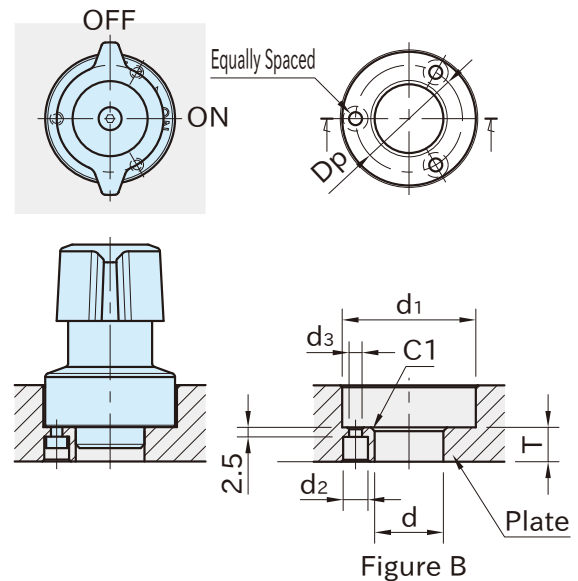
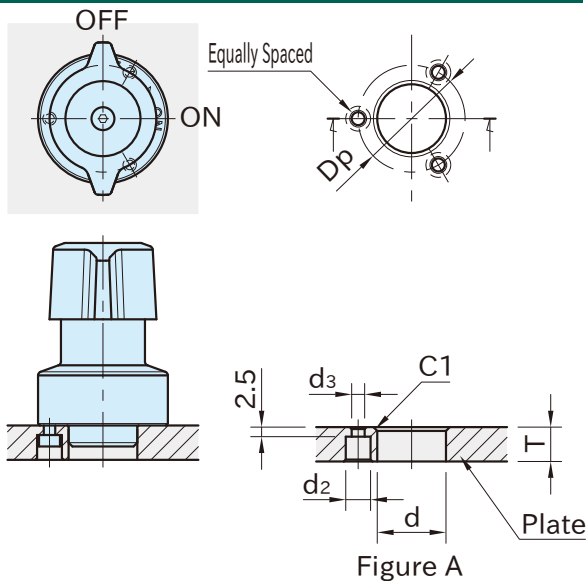
Locate & Clamp

Application Example

Changes of gripper for parts picking machine



How To Install



Size		Clamping Pin Size	Plate Thickness	Figure	d (+0.10 +0.05)	T (±0.2)	d ₁	d ₂	d ₃	Dp
QCPCS	0625-20	QCPCS 0625-M4-SUS	3 or more, under 6	Spacer QCASP is required.						
		6	A	14	6	—	4.4	2.4	21	
		Over 6, 20 or less	B			26				
		QCPCSF0625-M5-SUS	9 ***)			A				—
		QCPCSF0625-M6-SUS	Over 9, 20 or less			B				26
QCPCS-SUS	0834-20	QCPCS 0834-M5-SUS	3 or more, under 6	Spacer QCASP is required.						
6		A	18	6	—	6.5	3.4	28		
Over 6, 20 or less		B			35					
QCPCSF0834-M6-SUS		9 ***)			A				—	
Over 9, 20 or less		B			35					

QCPCS-M / QCPCSF-M CLAMPING PINS



QCASP SPACERS



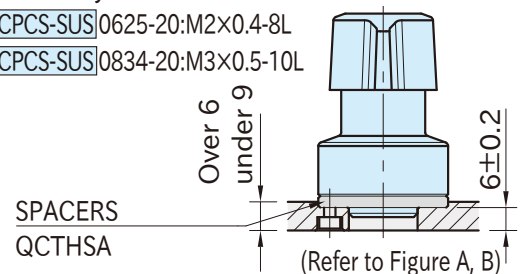
QCTHSA SPACERS



***) For plates with thickness between 6 - 9 mm, [QCPCSF-M](#) Clamping Pins are applicable with [QCTHSA](#) Spacers.

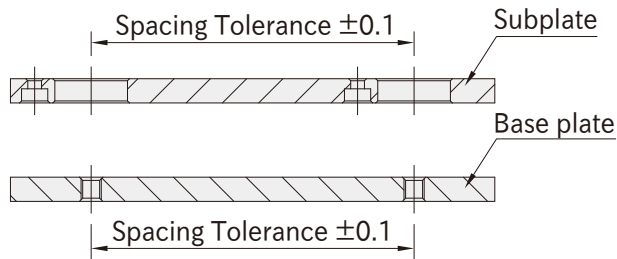
Hexagon socket head cap screws for fixing are to be provided by customer.

- [QCPCS](#) [QCPCS-SUS](#) 0625-20: M2×0.4-8L
- [QCPCS](#) [QCPCS-SUS](#) 0834-20: M3×0.5-10L



Accuracy

■ Machining Accuracy



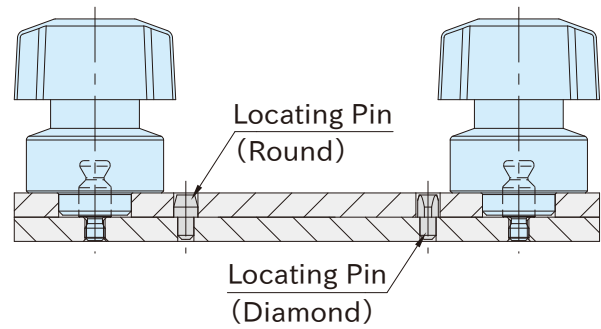
Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

Reference

- "How To Install" of [QCPCS-M](#), [QCPCSF-M](#) Clamping Pin.
- Spacer [QCASP](#) is required for 3mm or more, under 6mm plate thickness.

■ Repeatability

Repeatability ± 0.25



For higher accurate locating, use locating pins.

QCPCS-M / QCPCSF-M CLAMPING PINS



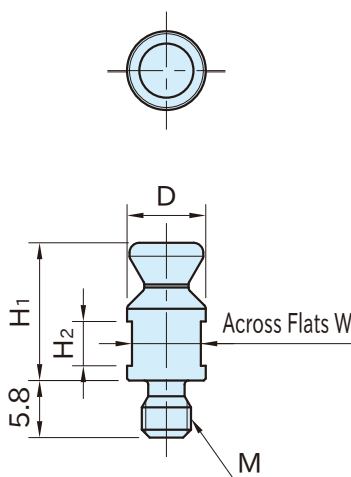
Stainless Steel

Heat resistance: 180°C

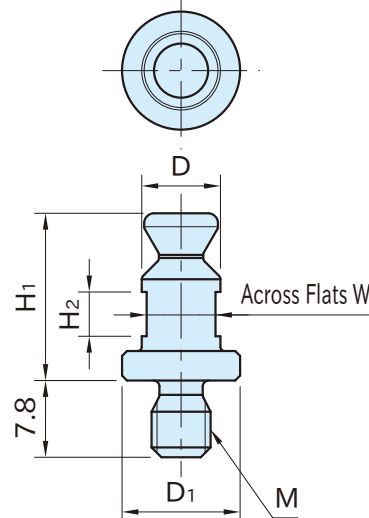


QCPCS-M

QCPCSF-M



QCPCS-M



QCPCSF-M

★Key Point

Mounting thread size: M4 to M6

Body

SUS630 stainless steel
Precipitation hardened

QCPCS-M

Part Number	D (^{-0.05} / _{-0.10})	M	H ₁	H ₂	W	Weight (g)	Heavy Duty Pin Holding Clamps
QCPCS0625-M4-SUS	6	M4×0.7	13	4	5	3	QCPCS0625-20 QCPCS0625-20-SUS
QCPCS0834-M5-SUS	8	M5×0.8	14	4.5	7	5	QCPCS0834-20 QCPCS0834-20-SUS

Note: Refer to the product pages of clamps for machining accuracy and repeatability.

QCPCSF-M

Part Number	D (^{-0.05} / _{-0.10})	D ₁	M	H ₁	H ₂	W	Weight (g)	Heavy Duty Pin Holding Clamps
QCPCSF0625-M5-SUS	6	9	M5×0.8	16	4	5	4	QCPCS0625-20 QCPCS0625-20-SUS
QCPCSF0625-M6-SUS			M6×1				5	
QCPCSF0834-M6-SUS	8	12	M6×1	17	4.5	7	8	QCPCS0834-20 QCPCS0834-20-SUS

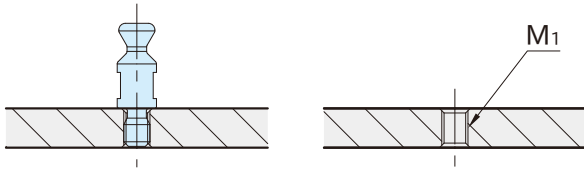
Note: Refer to the product pages of clamps for machining accuracy and repeatability.

Note

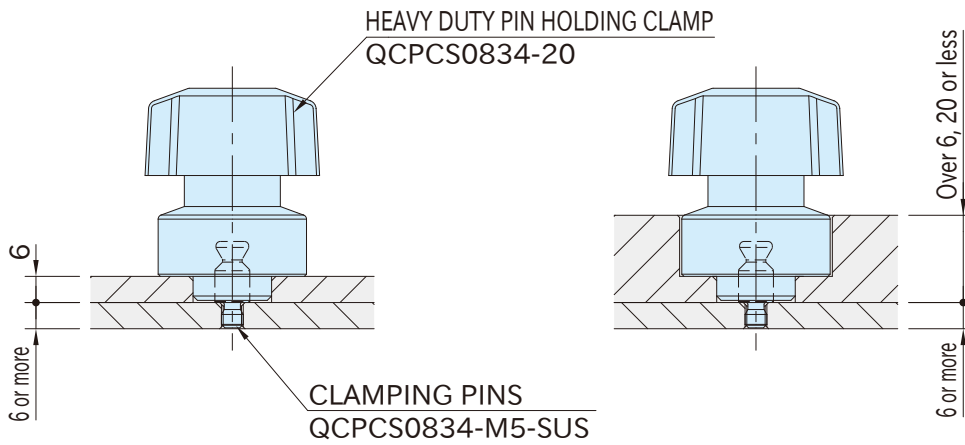
The color could be different from the picture due to the hardening.

How To Install

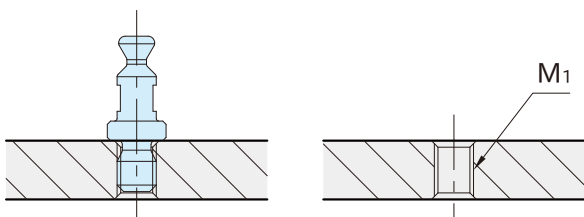
QCPCS-M



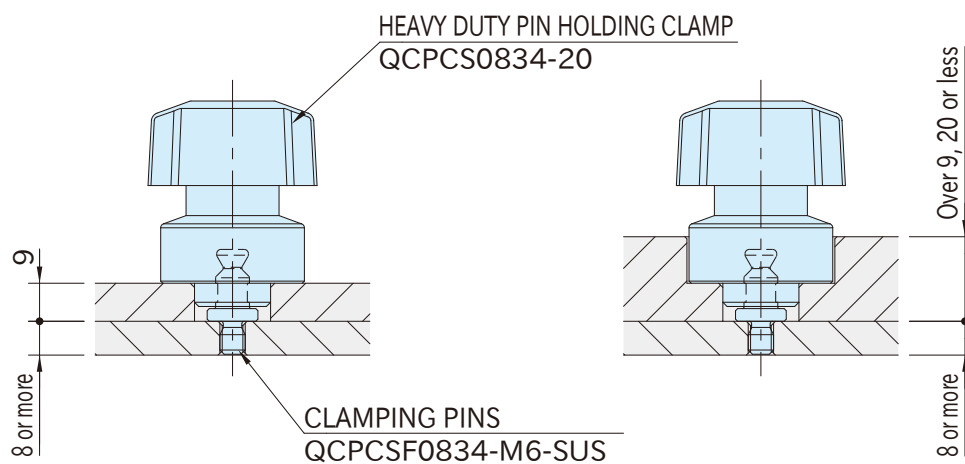
Part Number	M ₁
QCPCS0625-M4-SUS	M4×0.7
QCPCS0834-M5-SUS	M5×0.8



QCPCSF-M



Part Number	M ₁
QCPCSF0625-M5-SUS	M5×0.8
QCPCSF0625-M6-SUS	M6×1
QCPCSF0834-M6-SUS	



Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCBU / QCBUS

BUTTON-LOCKING PINS



Stainless Steel

Heat resistance: 180°C

ER-EL

IMAO

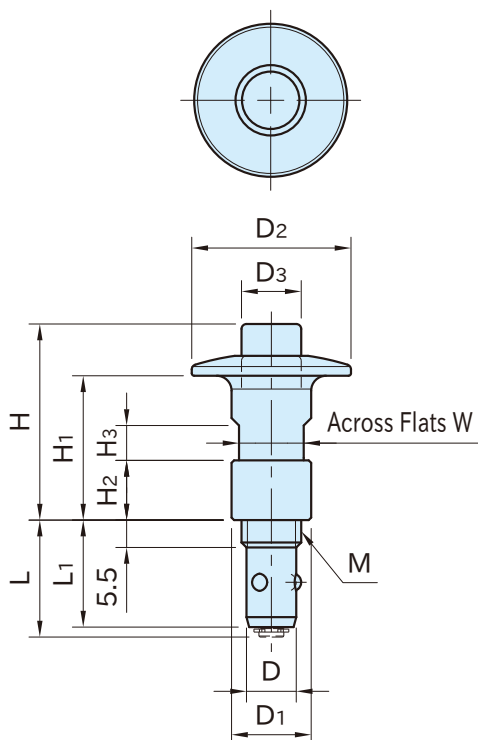


QCBU-SUS

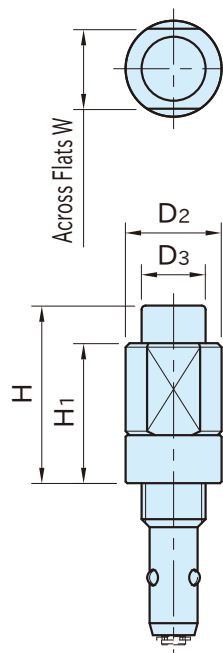


QCBUS-SUS

(Cylindrical)



QCBU-SUS



QCBUS-SUS

(Cylindrical)

★Key Point

Secure clamping with wedge

Part Number	Body	Button	Ball	Coiled Spring	Snap Ring
QCBU-SUS 0608-10	SUS303 stainless steel	SUS420J2stainlesssteel	SUS440C stainless steel	SUS304WPB stainless steel	Stainless steel
QCBUS-SUS 1012-16	Electrolessnickel plated	Quenched and tempered	Quenched and tempered		

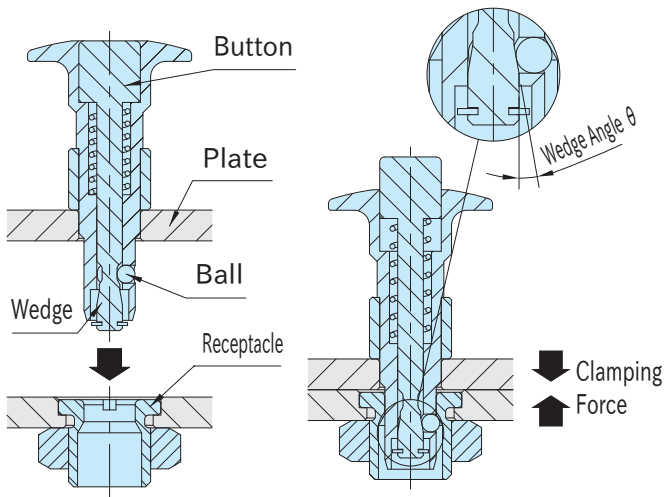
Part Number	Plate Thickness	D (-0.05 -0.10)	M	D ₁	L	L ₁	H ₂	W	Clamping Force(N)	Holding Force (N) *
QCBU-SUS 0608-10	6~10	6	M 8X1.25	12	21.4	19	6	10	30	90
QCBUS-SUS 1012-16	6~16	10	M12X1.5 (Fine Thread)	16	23.5	21.5	12	13	50	150

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

Part Number	Receptacles	Floating Receptacles
QCBU-SUS 0608-10	QCBU0608-M12SUS	QCBU0608-FL-SUS
QCBUS-SUS 1012-16	QCBU1012-M16SUS	QCBU1012-FL-SUS

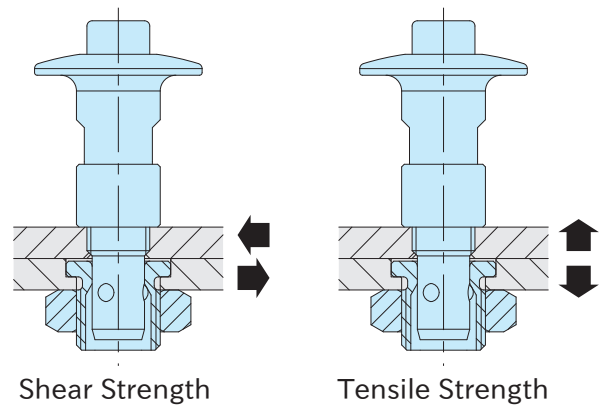
QCBU-SUS							QCBUS-SUS (Cylindrical)						
Part Number	D ₂	D ₃	H	H ₁	H ₃	Weight (g)	Part Number	D ₂	D ₃	H	H ₁	H ₃	Weight (g)
QCBU0608-10-SUS	23	8	26	18	5.5	30	QCBUS0608-10SUS	12	8	22.4	17.5	11.5	30
QCBU1012-16-SUS	32	12	39.5	29	7	75	QCBUS1012-16SUS	16	11	34.5	28	16	50

Feature



The wedge of the locking pin pushes out the balls against the tapered surface of the receptacle to clamp the two plates.

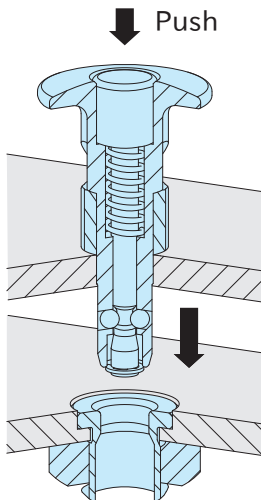
Mechanical Strength



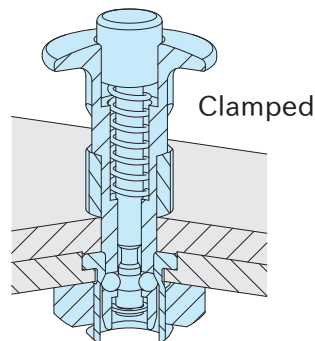
Part Number		Heatresistant Temperature (°C)	Shear Strength at Failure(N)	Tensile Strength at Failure(N)
QCBU-SUS	0608-10	180	3000	500
QCBUS-SUS	1012-16		9000	1500

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

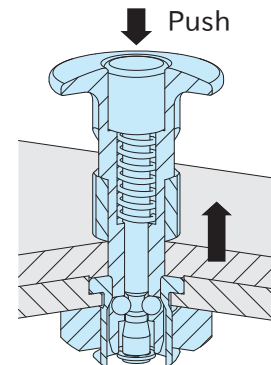
How To Use



1. Insert the pin pressing the button.



2. When the button is released, plates are clamped.



3. For removal, pull out the pin pressing the button.

QCBU-M

BALL-LOCK RECEPTACLES



QCBU-FL

FLOATING RECEPTACLES



Note

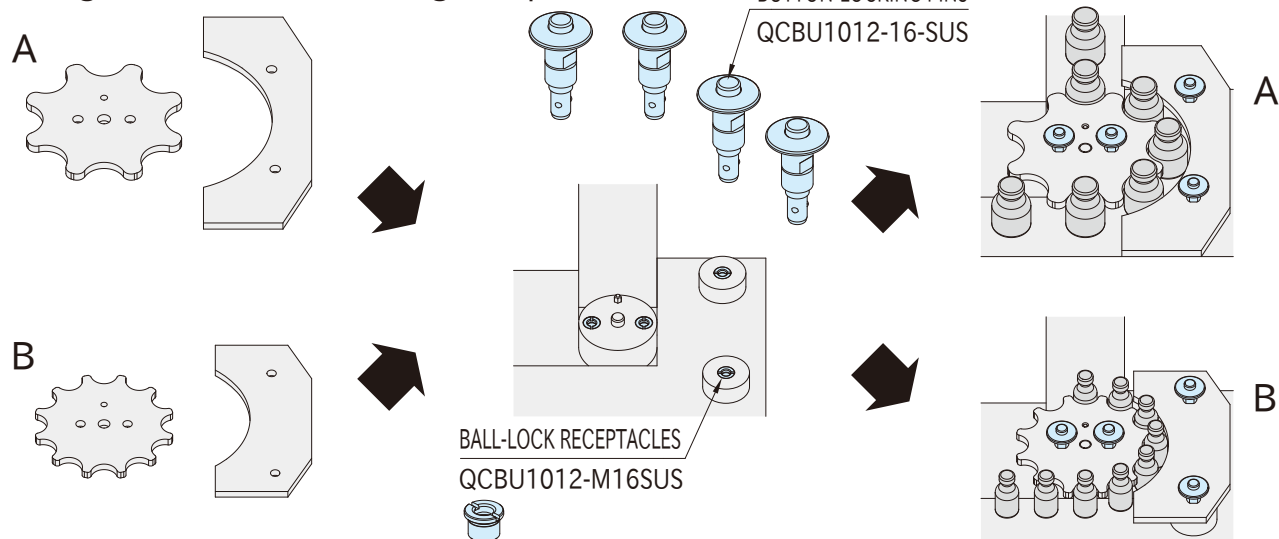
For cylindrical **QCBUS-SUS** Button-Locking Pins, prepare handles or knobs separately to facilitate the operation.



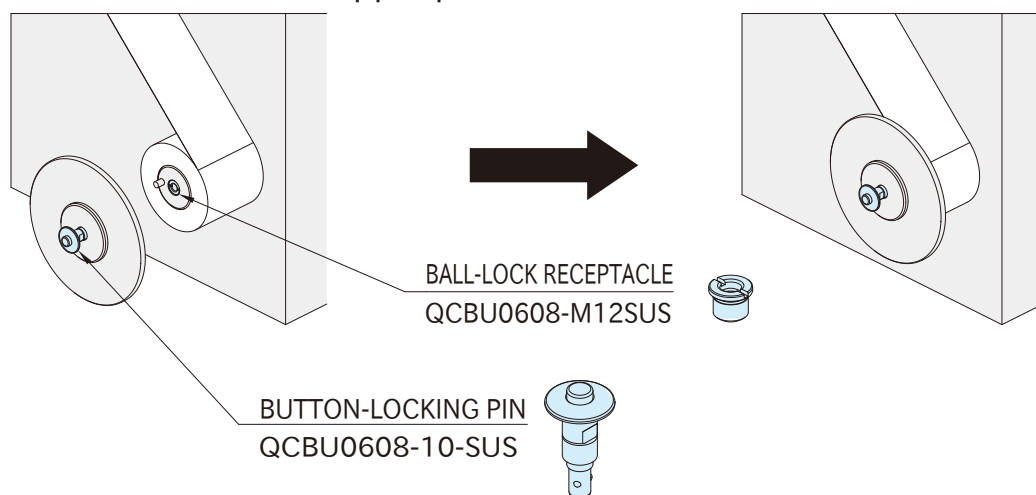
Continuing on Next Page

Application Example

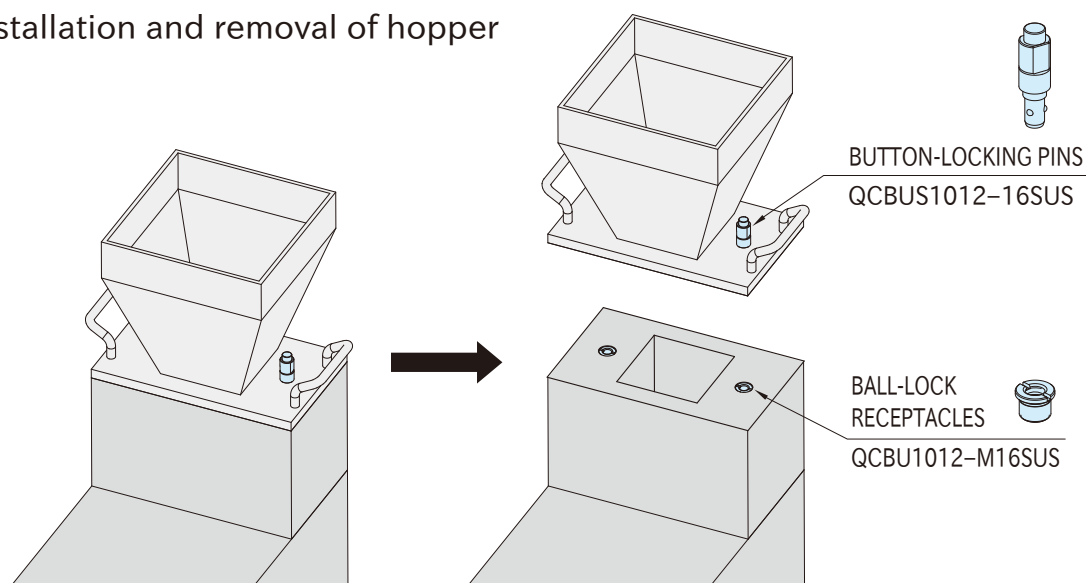
Changes of star wheels and guide plates



Installation and removal of stopper plate for rolls

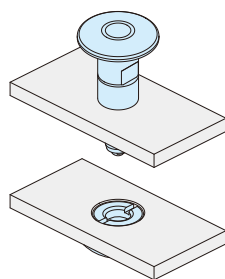


Installation and removal of hopper



How To Install

Fixed Installation



Part Number	Plate Thickness	Figure	M	d ₂
QCBU-SUS	0608-10	6	M 8×1.25	—
	Over 6, 10 or less	B		13
QCBUS-SUS	1012-16	6	M12×1.5 (Fine Thread)	—
	Over 6, 16 or less	B		17

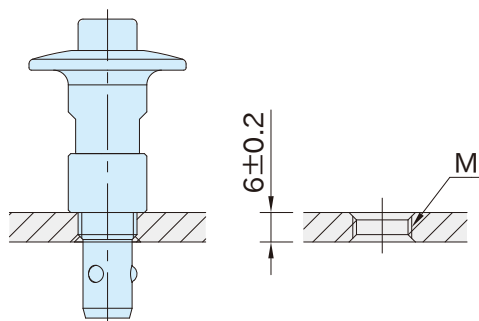


Figure A

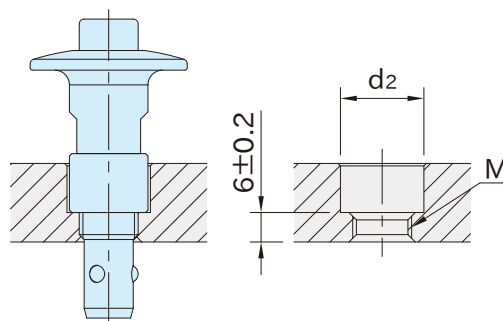
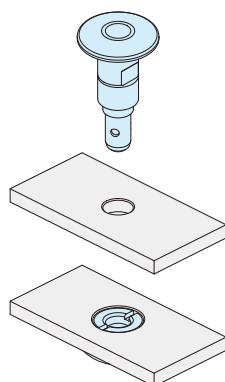


Figure B

Unfixed Installation for **QCBU-SUS** type



Part Number	Plate Thickness	Figure	d ₁ (^{+0.1} ₀)	d ₂
QCBU0608-10-SUS	6	C	8	—
	Over 6, 10 or less	D		13
QCBU1012-16-SUS	6	C	12	—
	Over 6, 16 or less	D		17

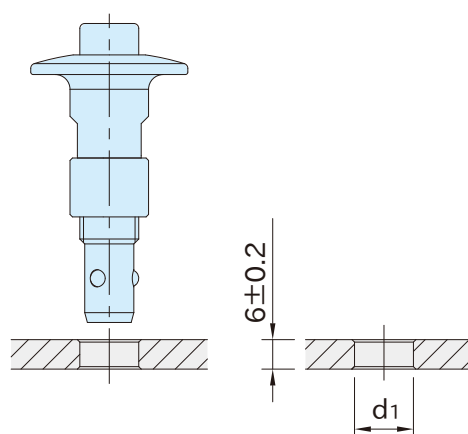


Figure C

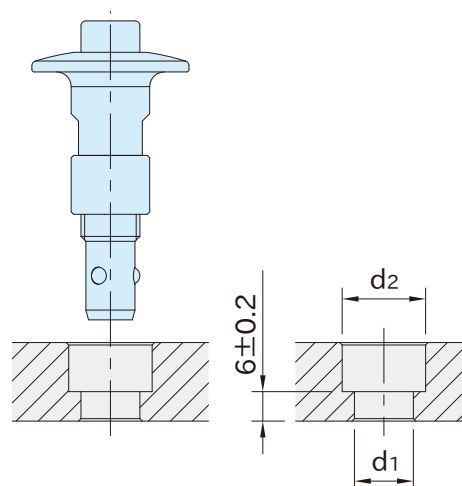
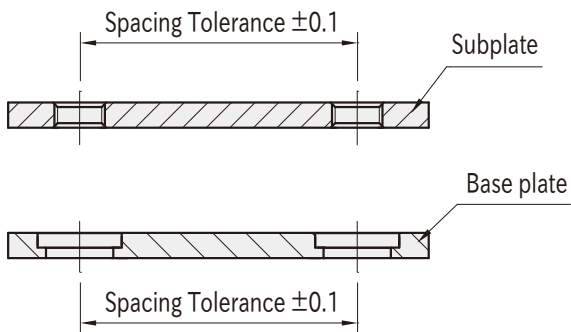


Figure D

 Continuing on Next Page

Accuracy

■ Machining Accuracy

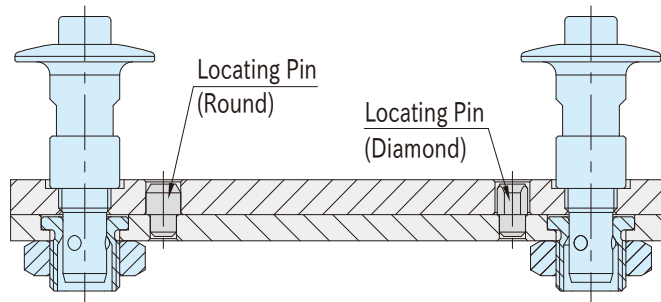


Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

Note: To expand the tolerance range of mounting hole spacing, use [QCBU-FL](#) floating receptacles. See [QCBU-FL](#) Floating Receptacles product pages for details.

■ Repeatability

Repeatability is ± 0.25 for both fixed and unfixed installations.



For higher accurate locating, use locating pins.

Reference

"How To Install" of [QCBU-M](#) Ball-Lock Receptacles and [QCBU-FL](#) Floating Receptacles



*Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..*

www.er-el.com.tr



Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

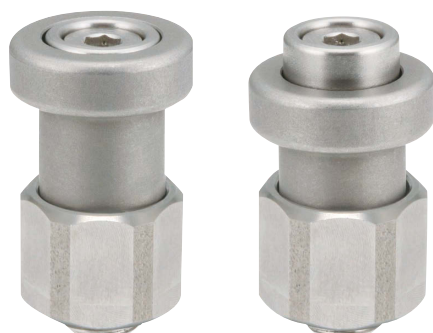


Stainless Steel

Heat resistance: 180°C

ER-EL

IMAO



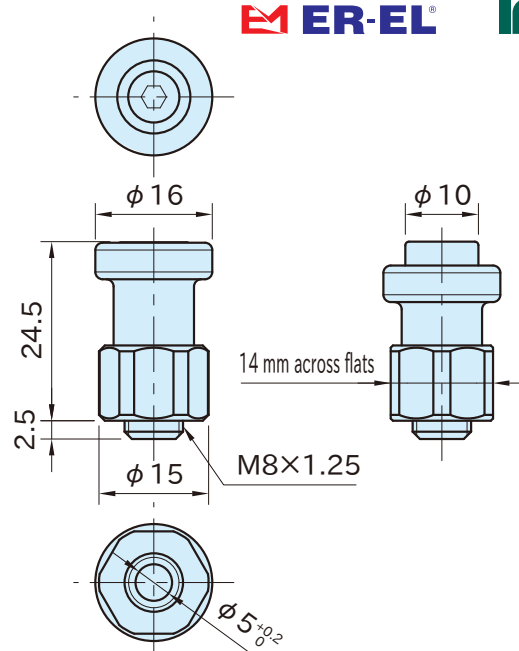
(OFF Position) (ON Position)

QCOWM0508-3-SUS



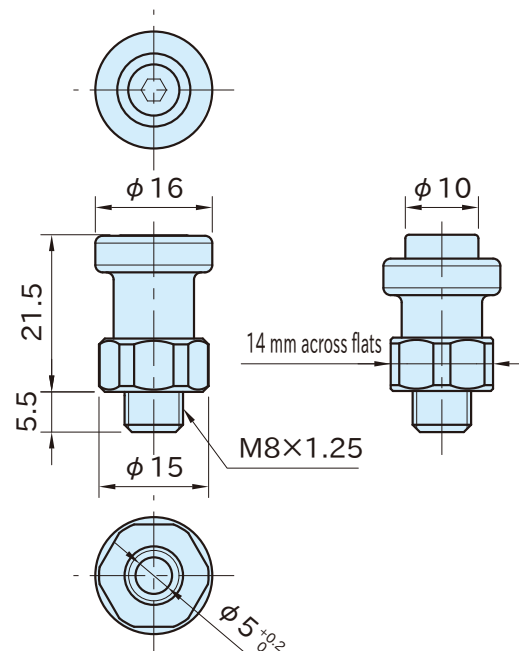
(OFF Position) (ON Position)

QCOWM0508-6-SUS



(OFF Position) (ON Position)

QCOWM0508-3-SUS



(OFF Position) (ON Position)

QCOWM0508-6-SUS

★Key Point

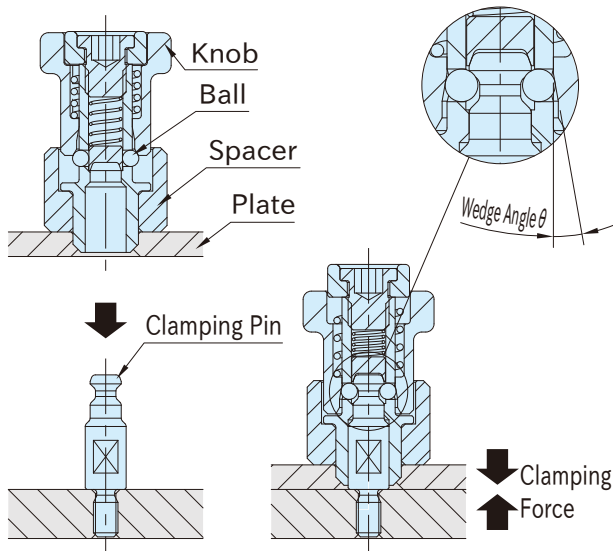
Smallest in the Series -
A Button-Sized Snap-In Clamp

Body	Knob	Spring	Socket Head	Ball
SUS303 stainless steel	SUS630 stainless steel Precipitation hardened	SUS304WPB stainless steel	SUSXM7 stainless steel	SUS440C stainless steel Quenched and tempered

Part Number	Clamping Force (N)	Holding Force (N) *	Weight (g)	Clamping Pin			
				Part Number	Plate Thickness	Part Number	Plate Thickness
QCOWM0508-3-SUS	25	100	18	QCOWM0508-M3-SUS	3	QCOWM0508-M4-SUS	6
QCOWM0508-6-SUS			16		6		9

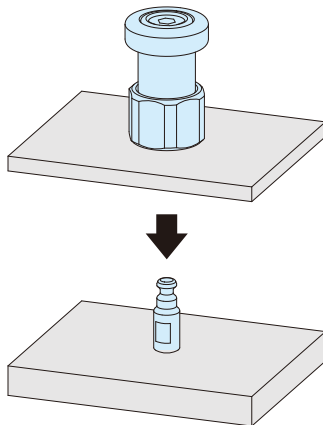
*) Exceeding the holding force creates a gap of greater than 0.1mm between plates.

Feature

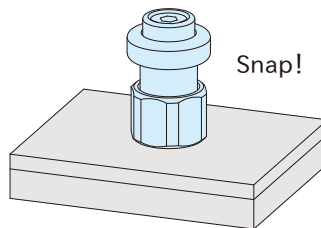


Four balls hold the Clamping Pin to pull the plate for clamping.

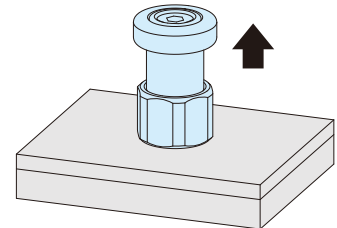
How To Use



1. Put Compact Snap-In Clamp over the Clamping Pin.
No knob operation is required.



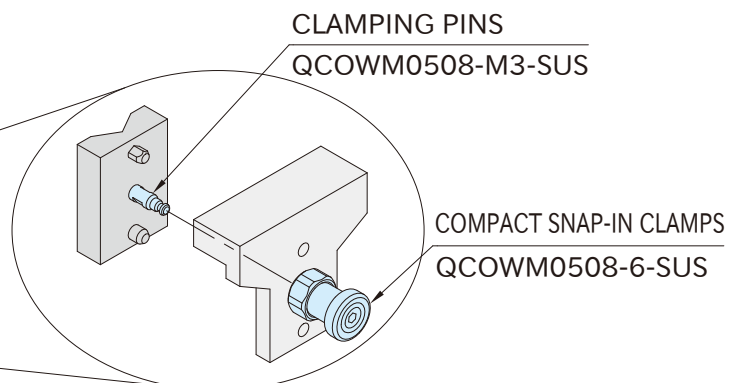
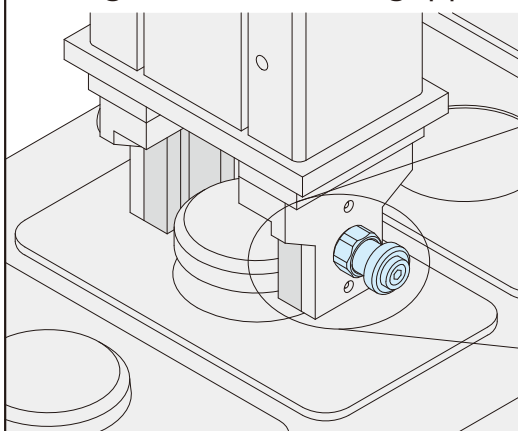
2. Clamped instantly as the pin is inserted.
The knob lowers automatically.



3. For unclamping, raise the knob to its highest position and remove the clamp.

Application Example

Changes of robot hand grippers



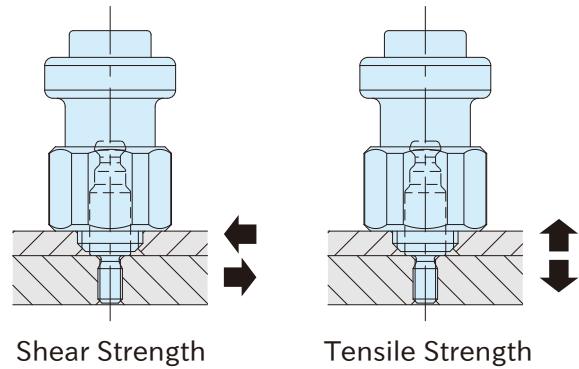
QCOWM-M

CLAMPING PINS



Mechanical Strength

Heatresistant Temperature 180°C



Part Number	Clamping Pin	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCOWM0508-3-SUS	QCOWM0508-M3-SUS	600	1500
QCOWM0508-6-SUS	QCOWM0508-M4-SUS	1100	

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

Quarter Turn

Button Push

Twist Coupling

Push Pull

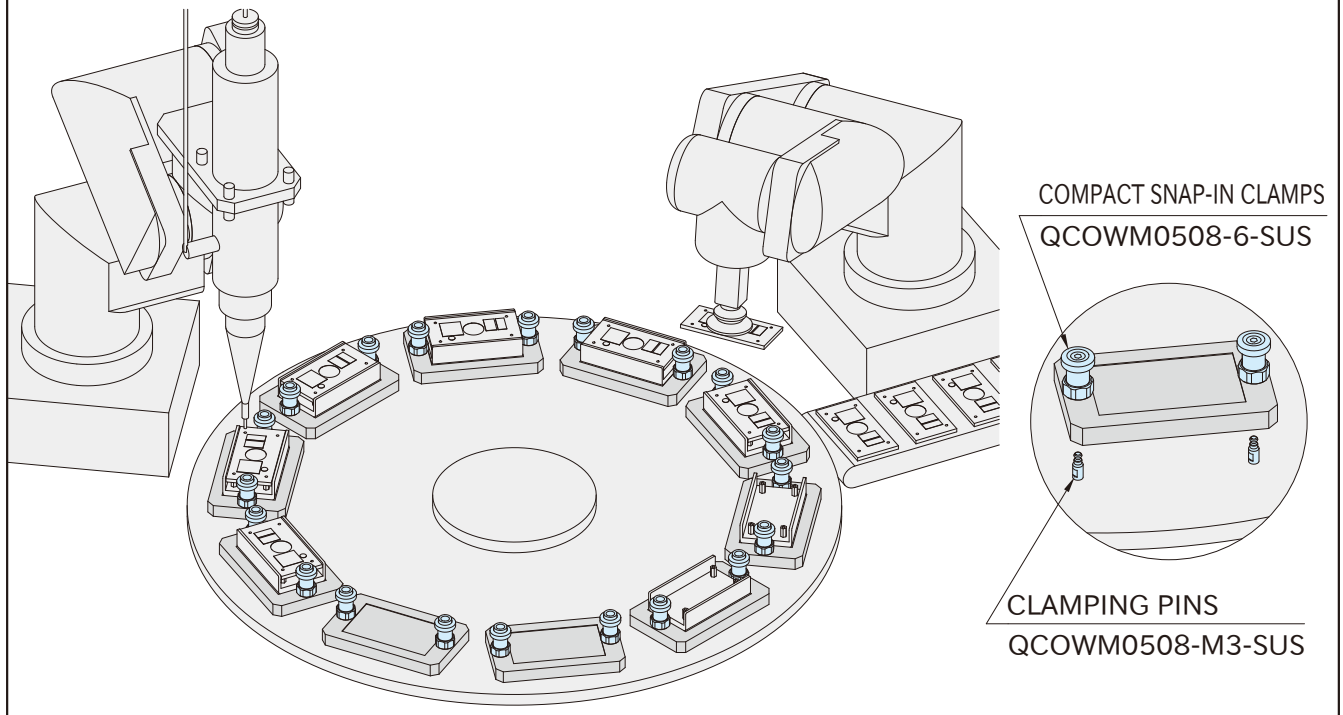
Locate & Clamp



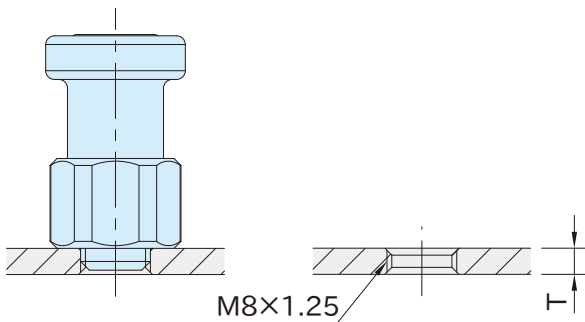
Continuing on Next Page

Application Example

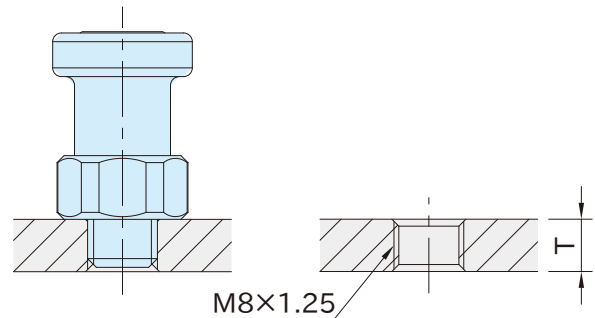
Changes of small fixtures



How To Install

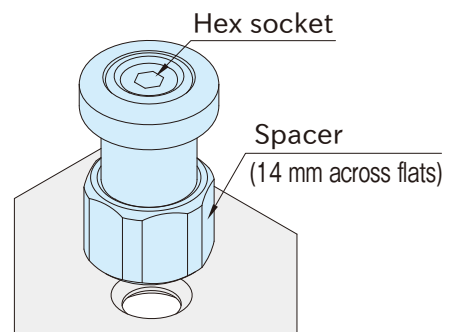


QCOWM0508-3-SUS



QCOWM0508-6-SUS

Part Number	Clamping Pin	T (±0.05)
QCOWM0508-3-SUS	QCOWM0508-M3-SUS	3
	QCOWM0508-M4-SUS	6
QCOWM0508-6-SUS	QCOWM0508-M3-SUS	6
	QCOWM0508-M4-SUS	9

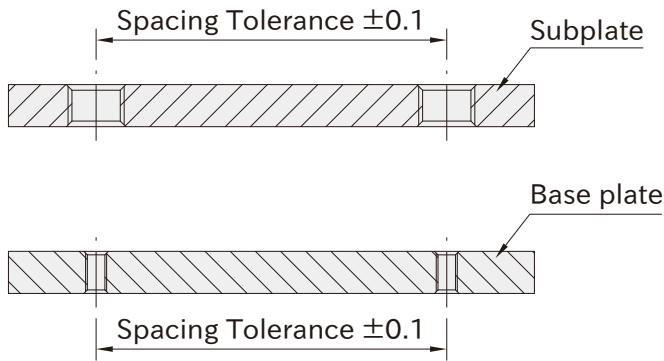


Use the wrench flats on the spacer for installation and removal.

* Do not use the hex socket on the top.

Accuracy

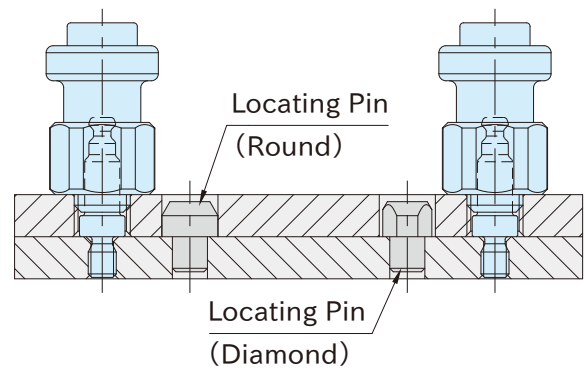
■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

■ Repeatability

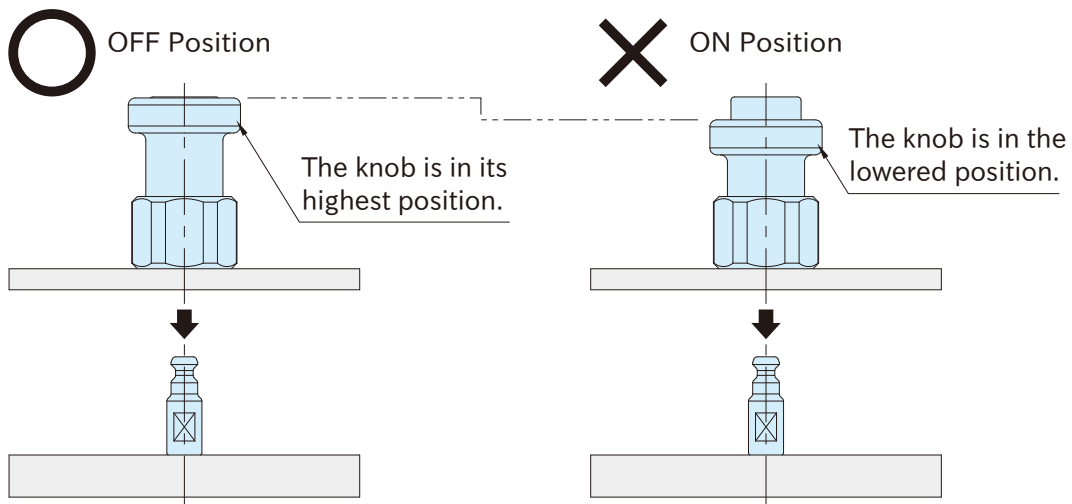
Repeatability ± 0.25



For higher accurate locating, use locating pins.

⚠ Note

Ensure the knob is in the OFF position before inserting the clamp into the clamp pin. Forcing the clamp in while the knob is in the ON position can cause damage.



Reference

“How To Install” of [QCOWM-M](#) Clamping Pins

QCOWM-M

CLAMPING PINS



Stainless Steel

Heat resistance: 180°C

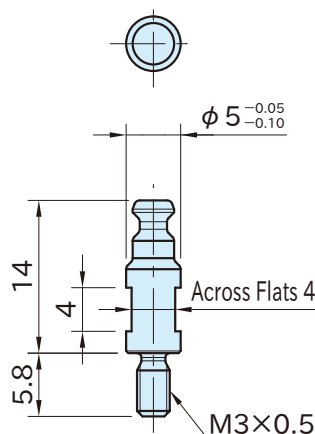
ER-EL

IMAO

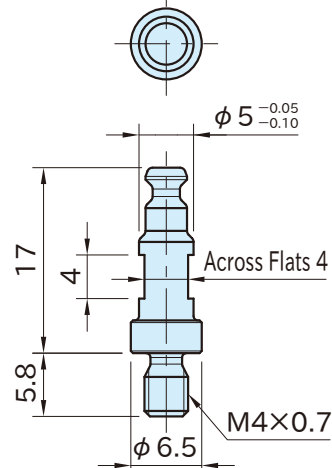


QCOWM0508-M3-SUS

QCOWM0508-M4-SUS



QCOWM0508-M3-SUS



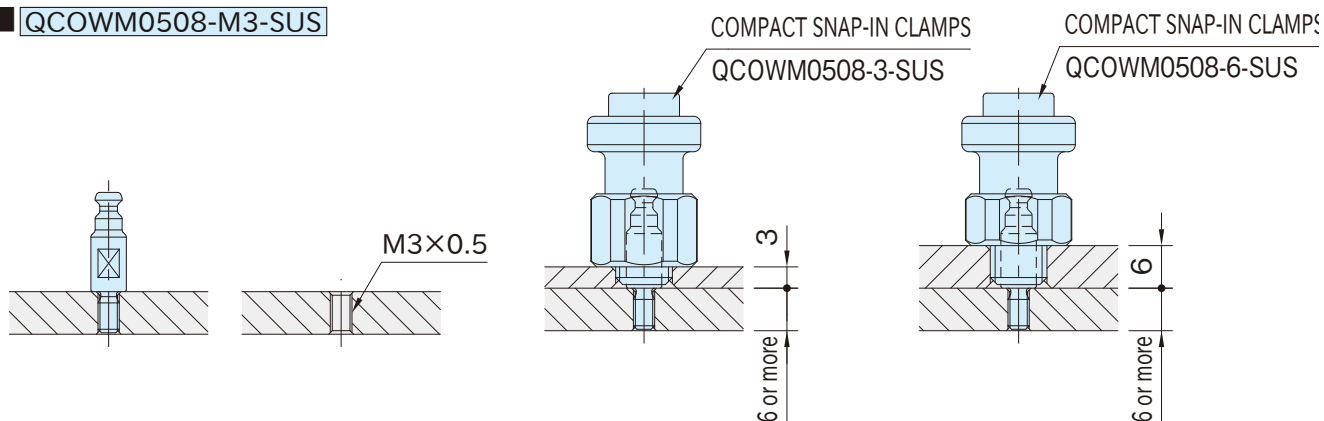
QCOWM0508-M4-SUS

Part Number	Weight (g)	Compact Snap-In Clamps
QCOWM0508-M3-SUS	2	QCOWM0508-3-SUS
QCOWM0508-M4-SUS	3.5	QCOWM0508-6-SUS

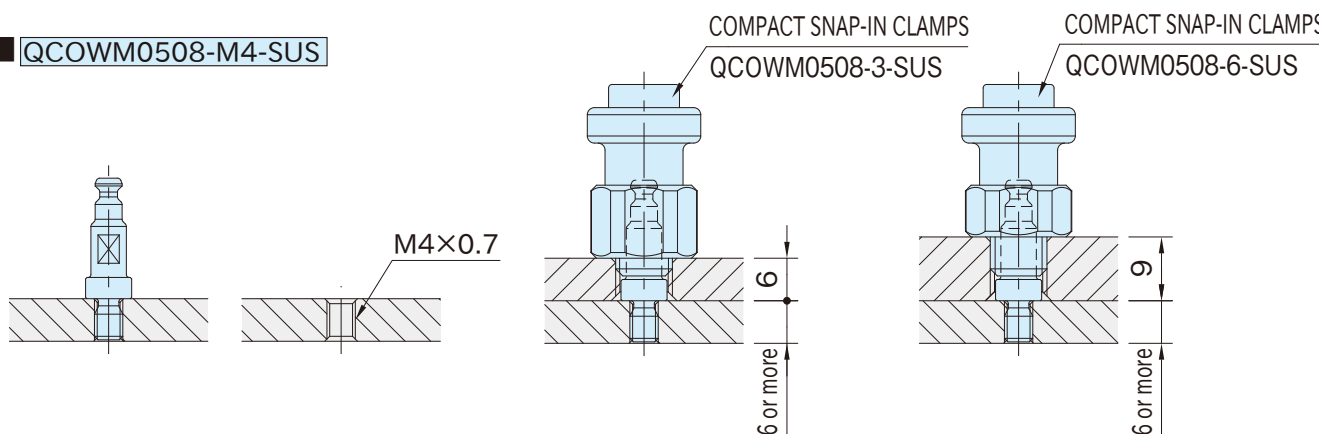
Body
SUS630 stainless steel Precipitation hardened

How To Install

QCOWM0508-M3-SUS



QCOWM0508-M4-SUS



Note

The color could be different from the picture due to the hardening.

Reference

Refer to the product pages of **QCOWM** Compact Snap-In Clamps for machining accuracy and repeatability.



*Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..*

www.er-el.com.tr



Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCOW / QCOWS SNAP-IN CLAMPS



Stainless Steel

Heat resistance: 180°C

ER-EL

IMAO



QCOW
(Stainless Steel)

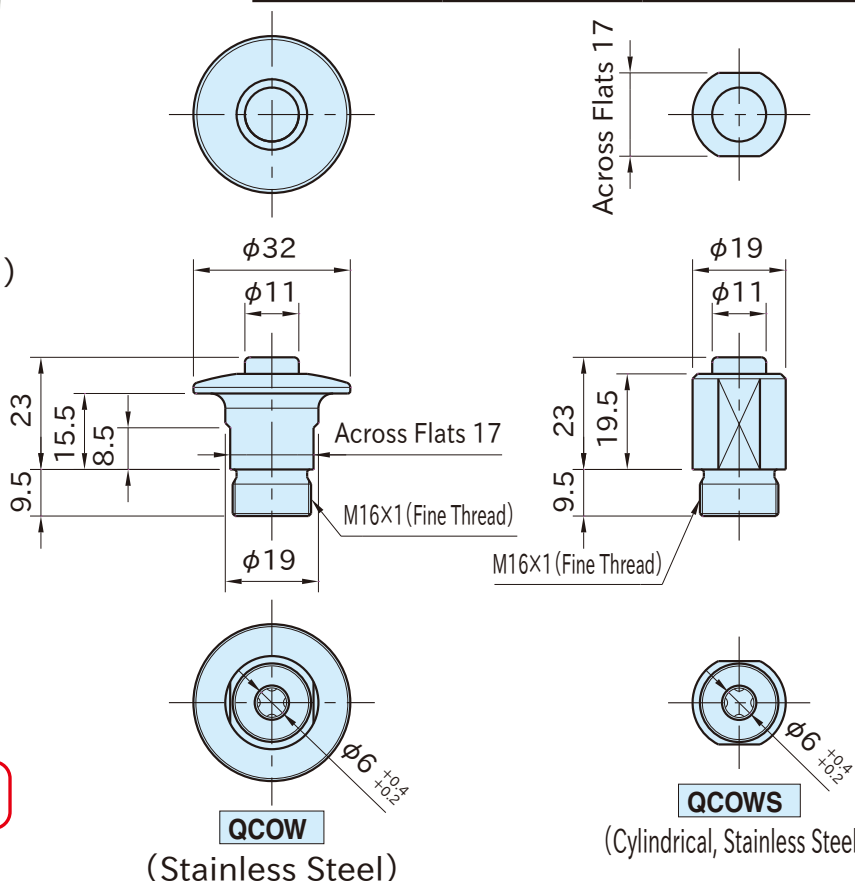


QCOWS
(Cylindrical, Stainless Steel)

★Key Point

Quick & easy snap-in operation

Body/Button	Ball	Spring
SUS303 stainless steel	SUS440C stainless steel Quenched and tempered	SUS304WPB stainless steel



Part Number	Plate Thickness	Clamping Force (N)	Holding Force (N)*	Weight (g)	Clamping Pin
QCOW 0616-10SUS	3~10	6	100	65	QCPC0625-M4-SUS
QCOWS0616-10SUS	3~27			50	

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

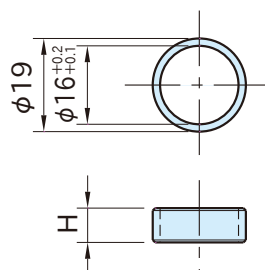
QCOW SPACERS



Stainless Steel

Heat resistance: 180°C

IMAO



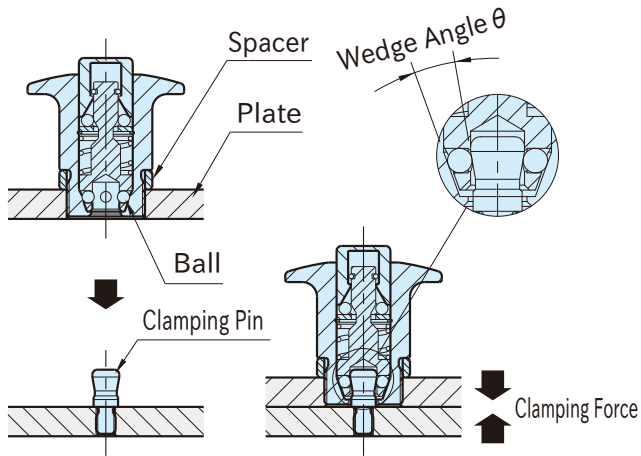
Spacer
SUS303 stainless steel

Part Number	Plate Thickness	H (± 0.05)	Weight (g)	Snap-In Clamps
QCOW0616-04-SUS	6	4	2.5	QCOW0616-10SUS QCOWS0616-10SUS
QCOW0616-05-SUS	5	5	3	
QCOW0616-06-SUS	4	6	3.5	
QCOW0616-07-SUS	3	7	4	

QCPC-M CLAMPING PINS



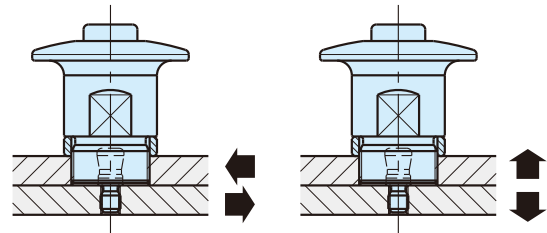
Feature



Four balls hold the Clamping Pin to pull the plate for clamping.

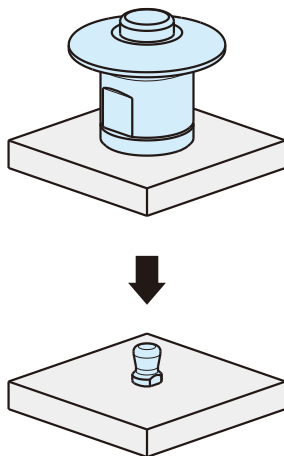
Mechanical Strength

Heatresistant Temperature 180°C

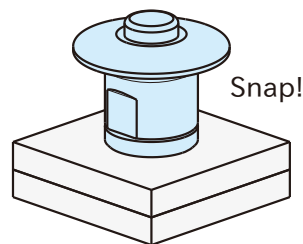


The values shown represent load levels at which failure can occur.

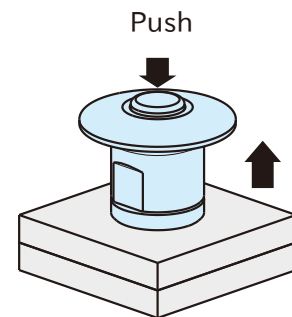
How To Use



1. Put Snap-In Clamp over the Clamping Pin. No need to push the button.



2. Clamped instantly as the pin is inserted.



3. For unclamping, push the button and pull the clamp.

Application Example

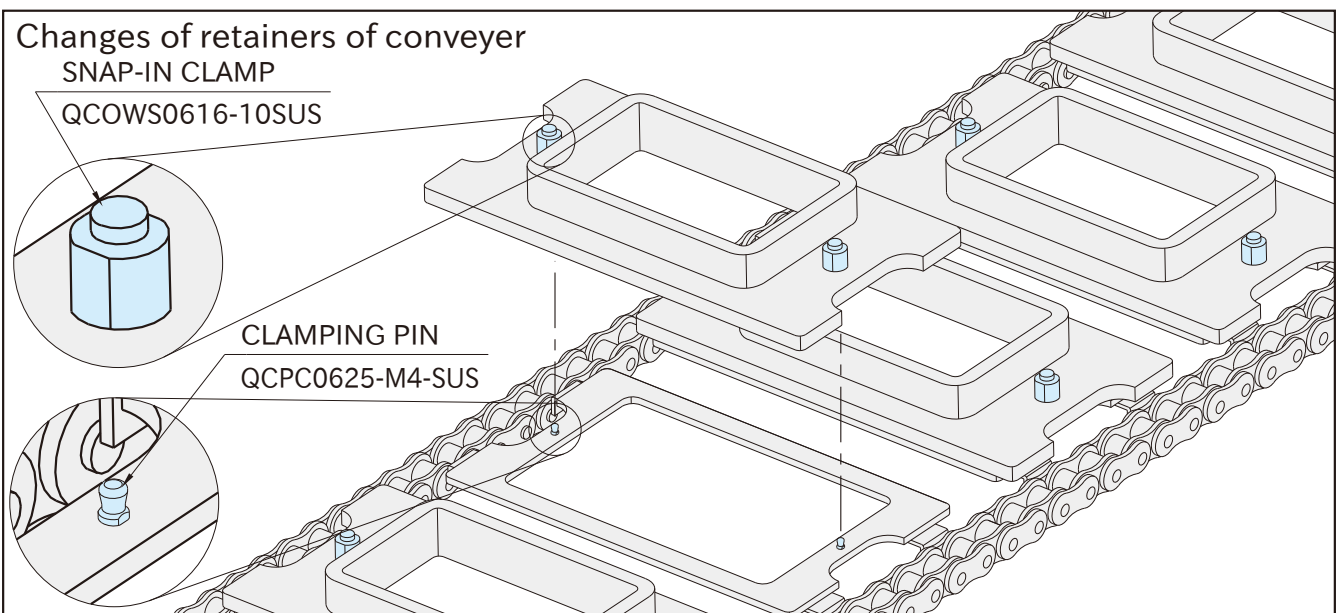
Changes of retainers of conveyer

SNAP-IN CLAMP

QCOWS0616-10SUS

CLAMPING PIN

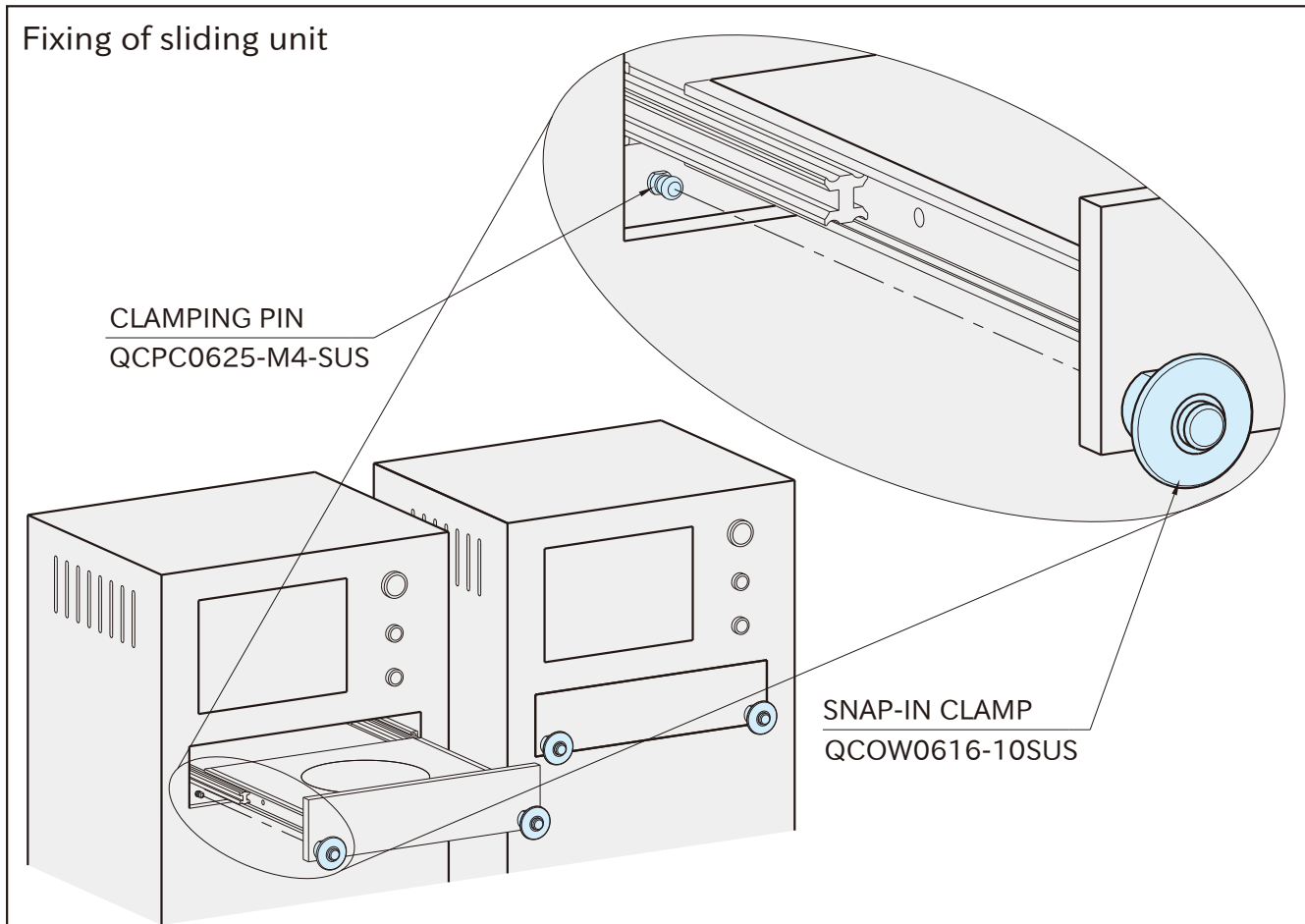
QCPC0625-M4-SUS



Continuing on Next Page

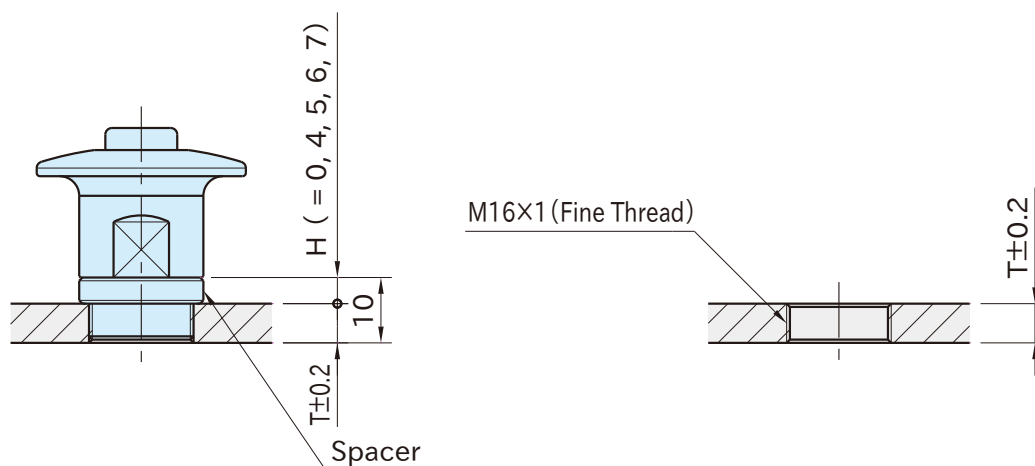
Application Example

Fixing of sliding unit

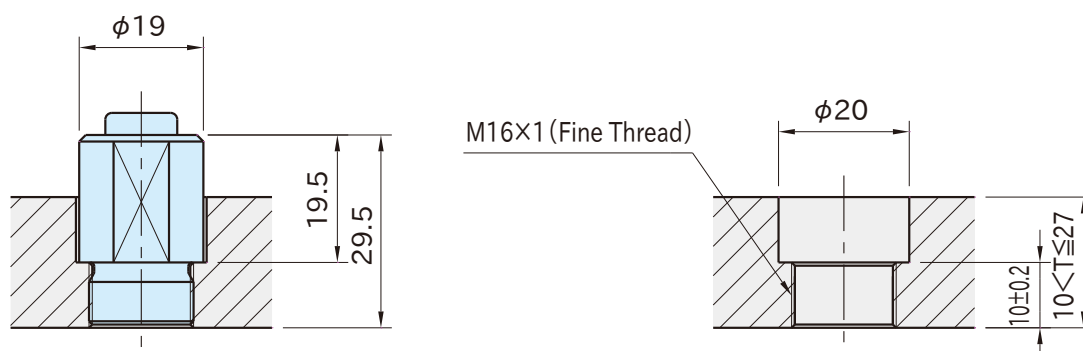


How To Install

For 3 to 10mm-thick plate

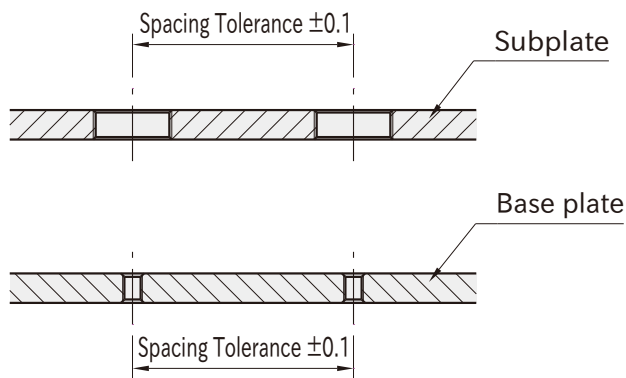


For over 10mm-thick plate



Accuracy

■ Machining Accuracy



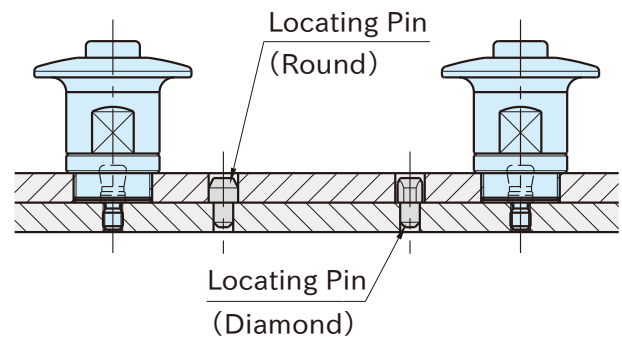
Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

🔧 Note

For cylindrical **QCOWS** Snap-In Clamps, prepare handles or knobs separately to facilitate the operation.

■ Repeatability

Repeatability ± 0.25



For higher accurate locating, use locating pins.

Reference

"How To Install" of **QCPC-M** Clamping Pins

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCHC-N

HOLE HOLDING CLAMPS



Stainless Steel

Heat resistance: 180°C

ER-EL

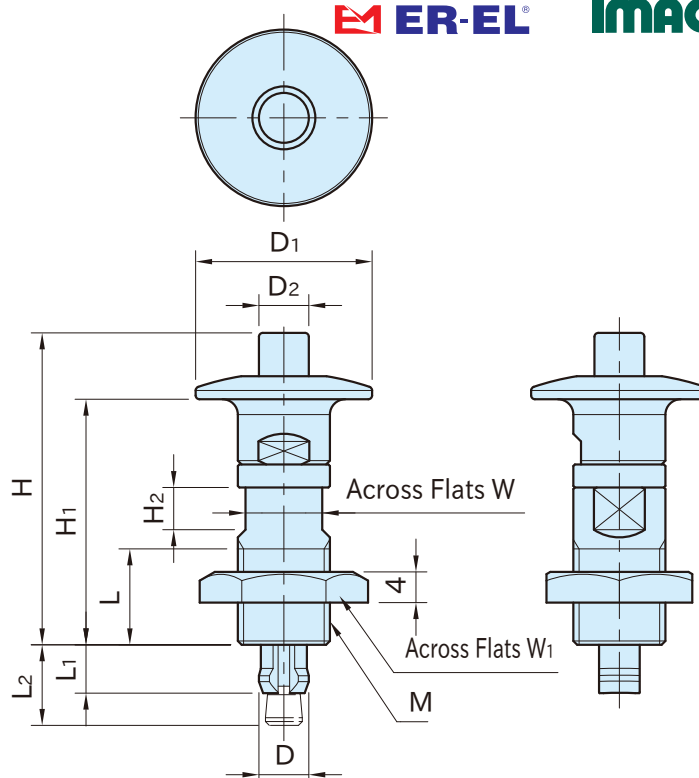
IMAO



QCHC-N-3



QCHC-N-6



★Key Point

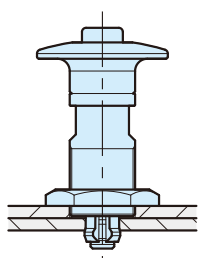
Receptacle is not required.

Part Number	Body/Nut	Spacer	Spring/Snap Ring
QCHC-N-3	SUS303 stainless steel	SUS303 stainless steel	SUS304WPB stainless steel
QCHC-N-6		—	

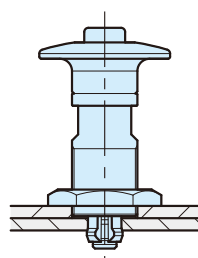
Part Number	Base Plate Thickness	Plate Thickness	D	M	D ₁	D ₂	H	L	H ₁	L ₁	L ₂	H ₂	W	W ₁	Clamping Force(N)	Holding Force (N)*	Weight (g)
QCHC0612N-3-SUS	3	3~ 8	6.5	M12X1 (Fine Thread)	23	6.5	40	12.5	32	6.5	10.5	5.5	10	19	3	30	41
QCHC0612N-6-SUS	6						37	12.5	29	9.5	13.5						40
QCHC0816N-3-SUS	3	3~12	8.5	M16X1 (Fine Thread)	32	10	51	16.5	41.5	6.5	11	7	14	24	6	60	88
QCHC0816N-6-SUS	6						48	16.5	38.5	9.5	14						86

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

Mechanical Strength



Shear Strength

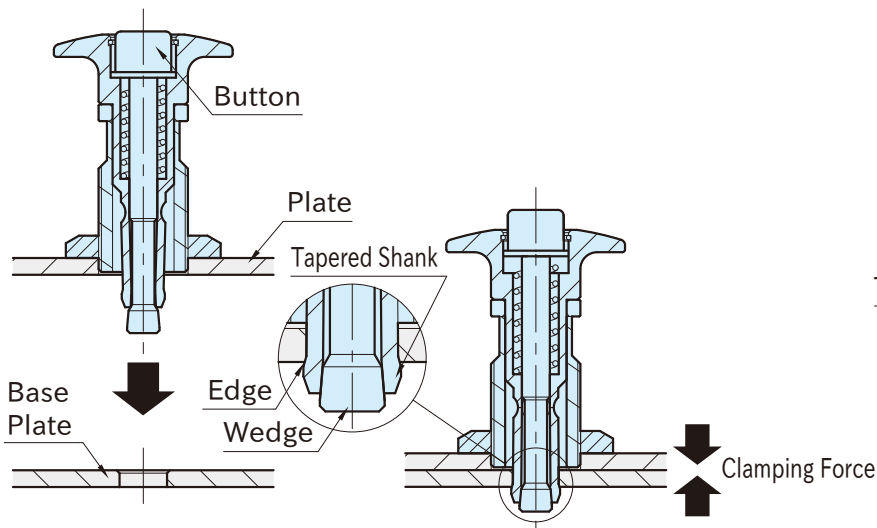


Tensile Strength

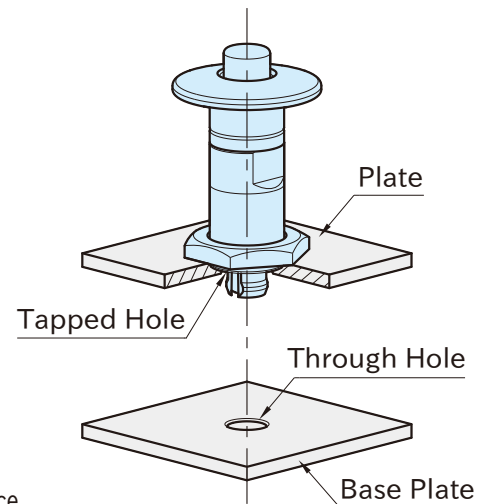
The values shown represent load levels at which failure can occur.

Part Number	Heat Resistant Temperature (°C)	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCHC0612N-3-SUS	180	200	150
QCHC0612N-6-SUS			
QCHC0816N-3-SUS		400	300
QCHC0816N-6-SUS			

Feature

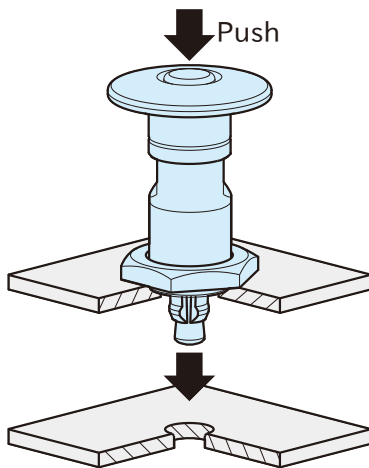


The tapered shank expanded by the wedge pushes out the edge of the hole on the base plate, and the two plates are clamped.

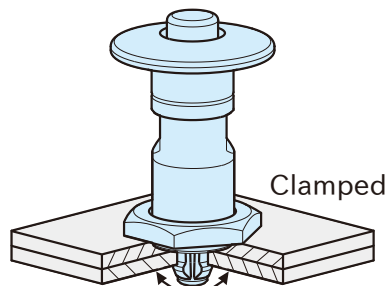


Just a tapped hole and a through hole are required.

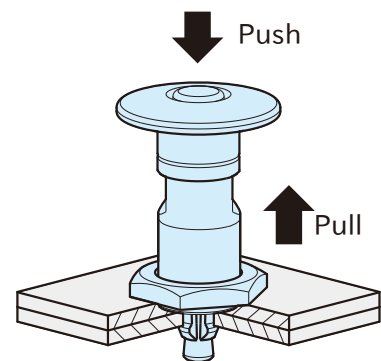
How To Use



1. Insert Hole Holding Clamp pressing the button.



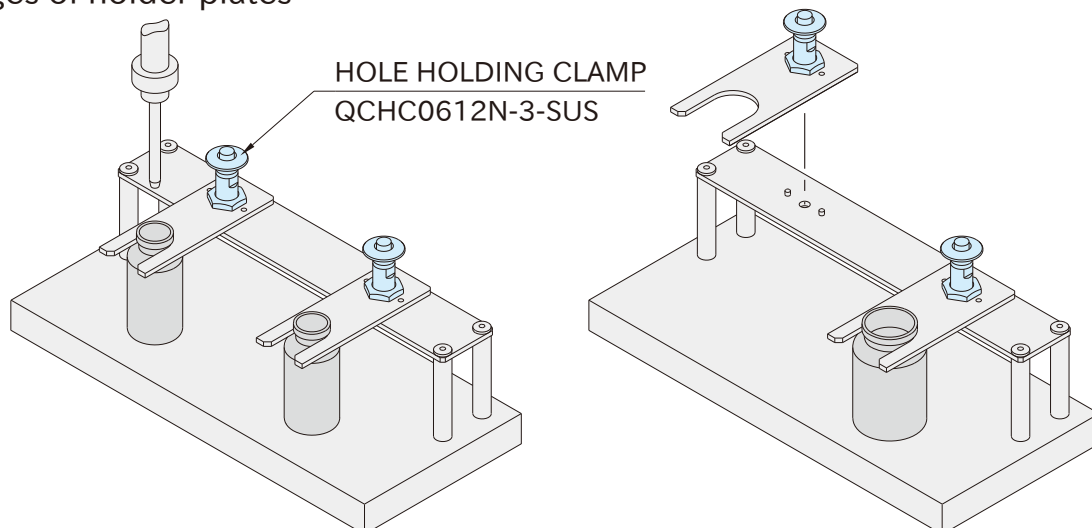
2. The slitted part on the shank expands once the button is released, and the plate is clamped.



3. For unclamping, push the button and pull the clamp.

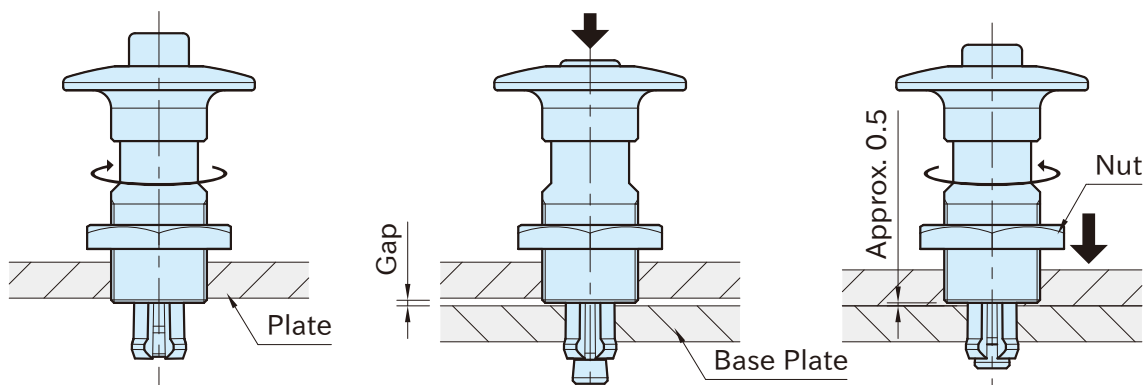
Application Example

Changes of holder plates



Continuing on Next Page

How To Install

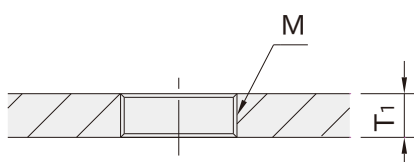


1. Screw Hole Holding Clamp into the plate until the end of threaded part comes out of the plate.

2. Insert the clamp pushing the button.

3. Adjust the clamp until the both plates get contacted, and then lock the clamp with the nut.

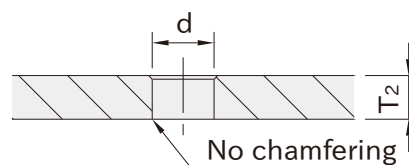
■ Mounting Hole on Plate



Part Number	M	T ₁
QCHC0612N	M12×1 (Fine Thread)	3~ 8
QCHC0816N	M16×1 (Fine Thread)	3~12

■ Mounting Hole on Baseplate

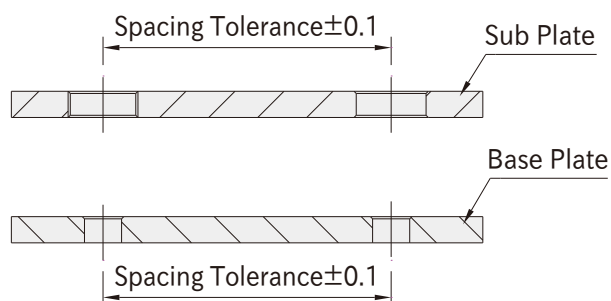
Use hard metals such as stainless steels for the base plate.



Part Number	d (±0.1)	T ₂
QCHC0612N-3-SUS	6.5	3
QCHC0612N-6-SUS		6
QCHC0816N-3-SUS	8.5	3
QCHC0816N-6-SUS		6

Accuracy

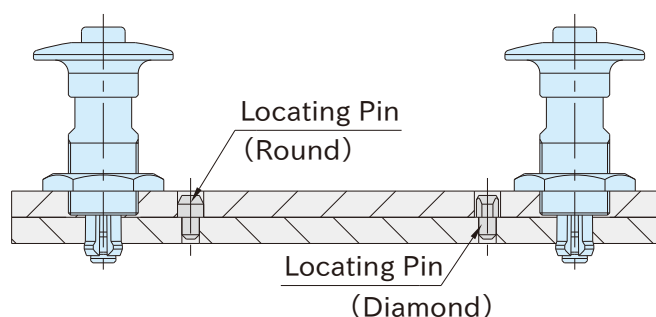
■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

■ Repeatability

Repeatability ± 0.25



For higher accurate locating, use locating pins.



*Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..*

www.er-el.com.tr



Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCSJ

SHAFT COUPLING CLAMP



Heat resistance: 180°C

ER-EL

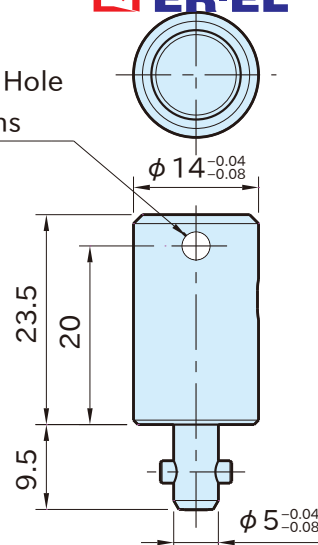
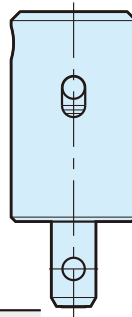
IMAO



★Key Point

Multipurpose coupling element

φ 3 Through Hole
for Spring Pins



Part Number	Clamping Force(N)	Holding Force(N)*	Weight(g)
QCSJ0514A	90	90	25

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



Note

Spring pins are not supplied.

Body/Shank	Pin	Spring
S45C steel Electroless nickel plated	SUS304 stainless steel	Equivalent to SWOSC-V steel

QCSJ-S / QCSJ-B

CAM RECEPTACLES



IMAO



QCSJ0514-S
(Shaft Mount)



QCSJ0514-B
(Plate Mount)

Body
SCM440 steel Quenched and tempered Electroless nickel plated

Part Number	Weight(g)
QCSJ0514-S	10
QCSJ0514-B	8

Supplied With

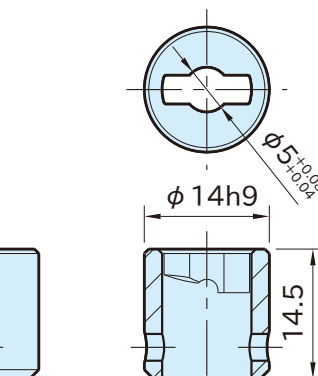
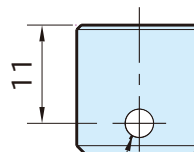
QCSJ0514-B: 2 of socket-head cap screws
(stainless steel), M2×0.4-5L



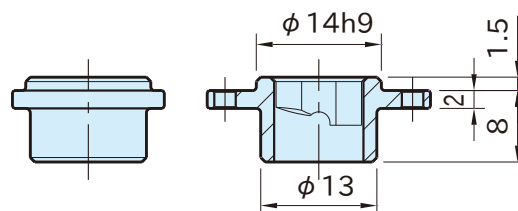
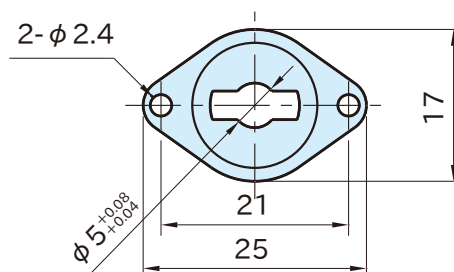
Note

Spring pins to mount **QCSJ0514-S** are not supplied.

φ 3 Through Hole
for Spring Pins

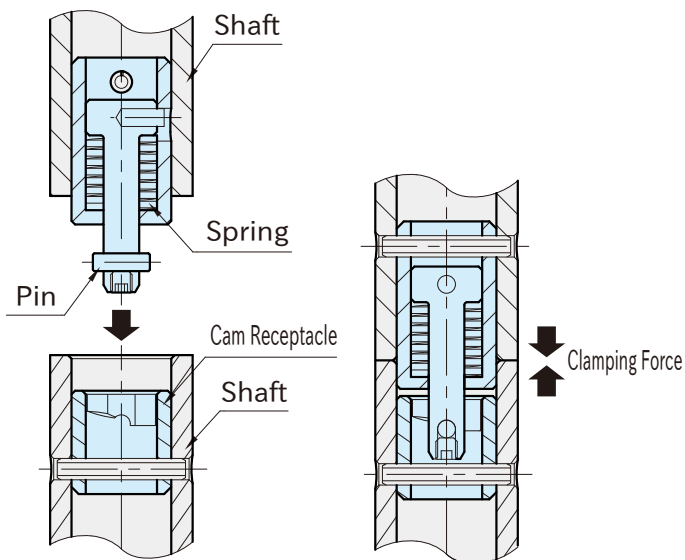


QCSJ0514-S (Shaft Mount)



QCSJ0514-B (Plate Mount)

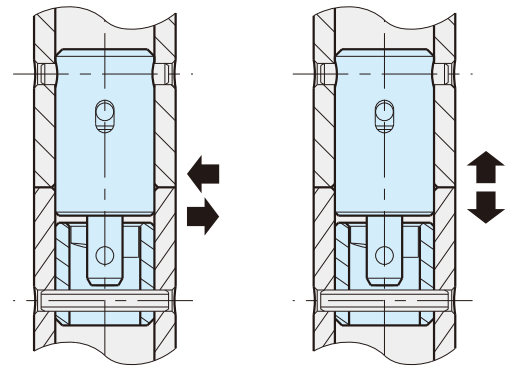
Feature



When the pin contacts along the cam surface in Cam Receptacle, the spring gets compressed to clamp the shafts.

Mechanical Strength

Heatresistant Temperature 180°C

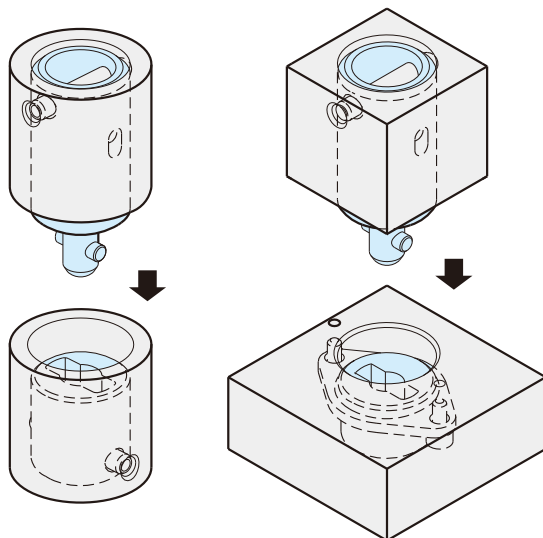


Shear Strength
at Failure 1800N

Tensile Strength
at Failure 1200N

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

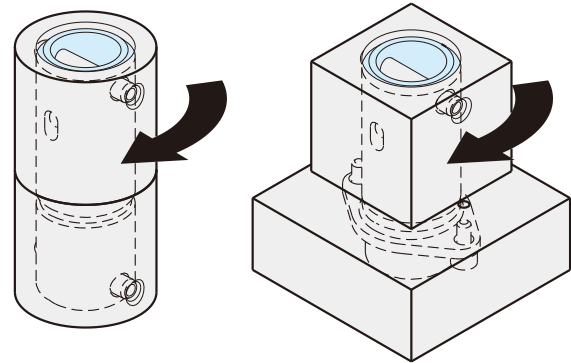
How To Use



1. Insert the shaft into the keyway of Cam Receptacle.

Click!

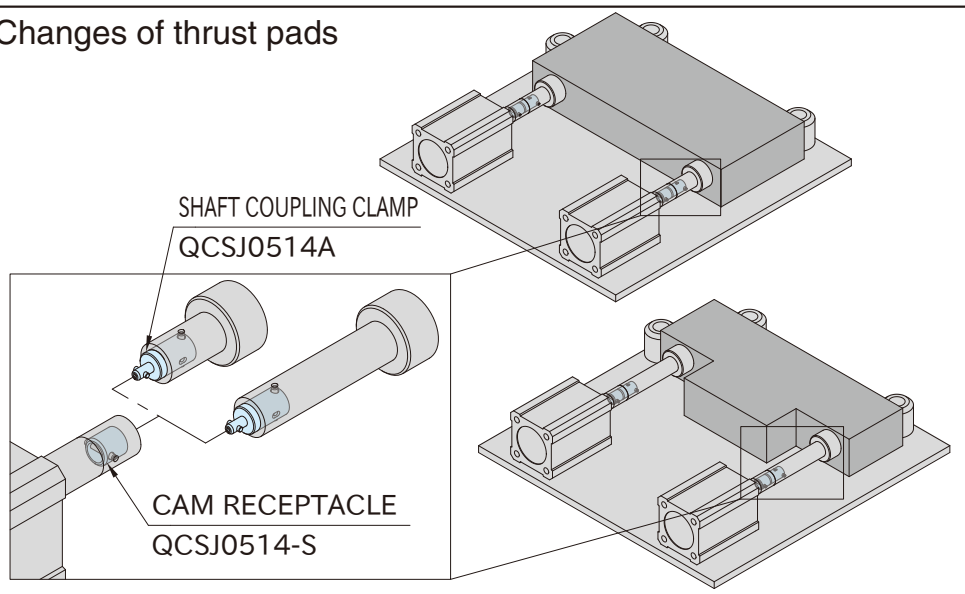
Click!



2. Turn the shaft or block for 90° to clamp.
The element clicks when clamped.
For unclamping, follow back these steps.

Application Example

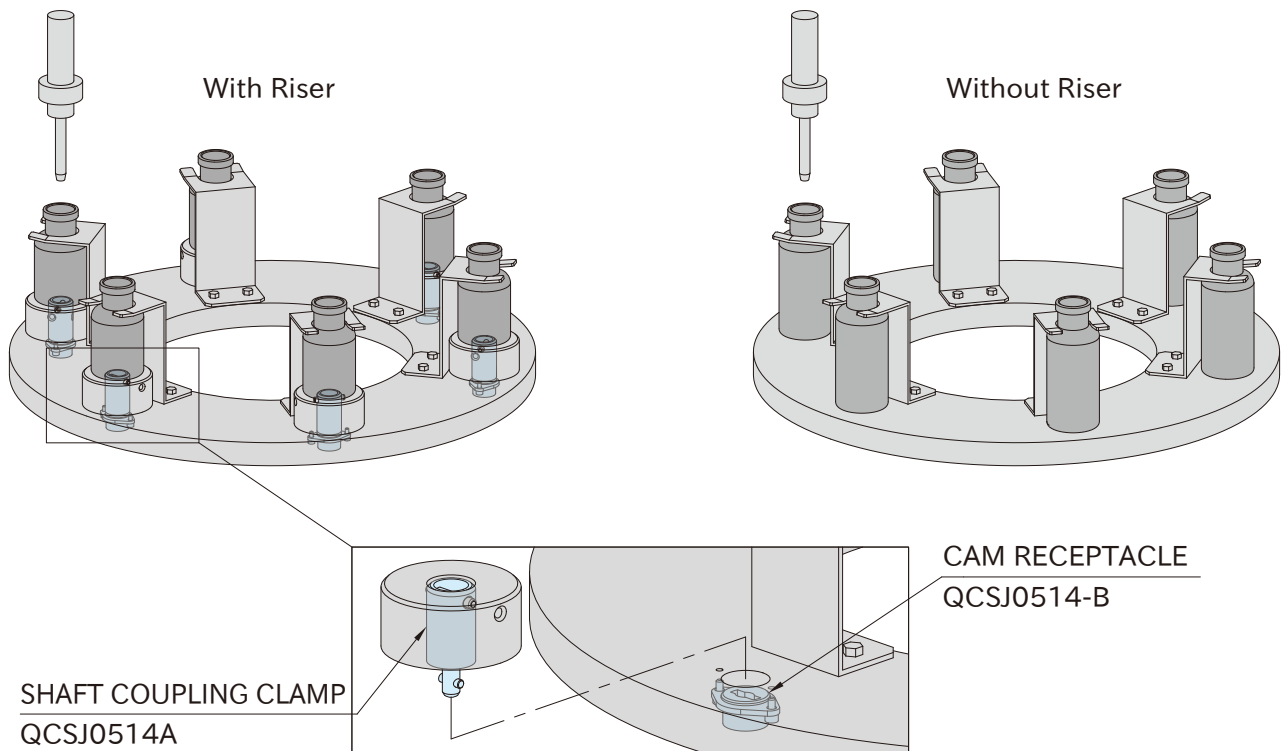
Changes of thrust pads



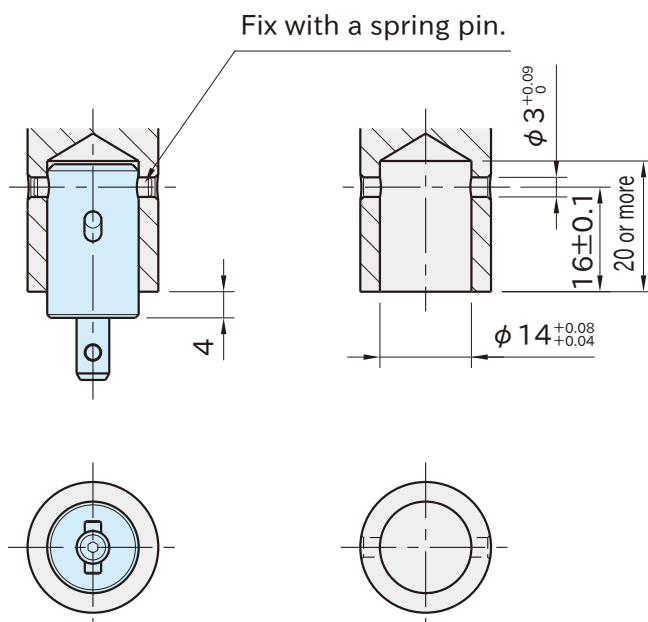
Continuing on
Next Page

Application Example

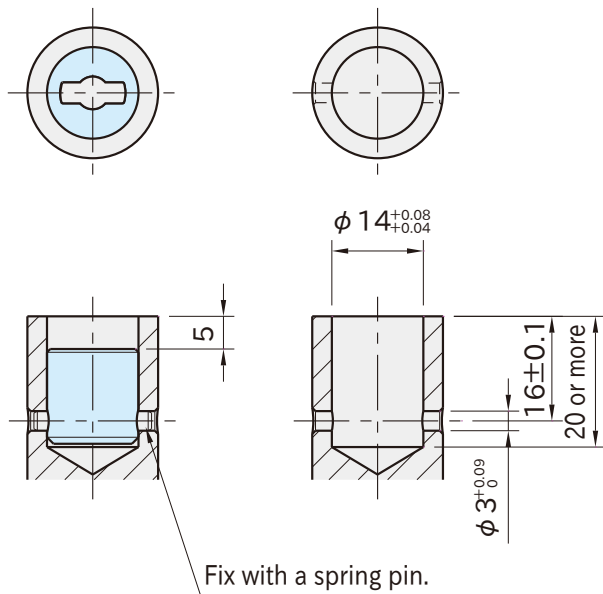
Changes of riser



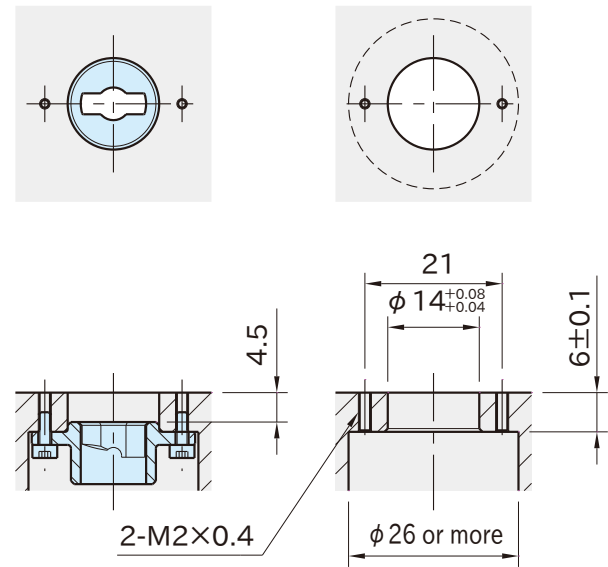
How To Install Shaft Coupling Clamp



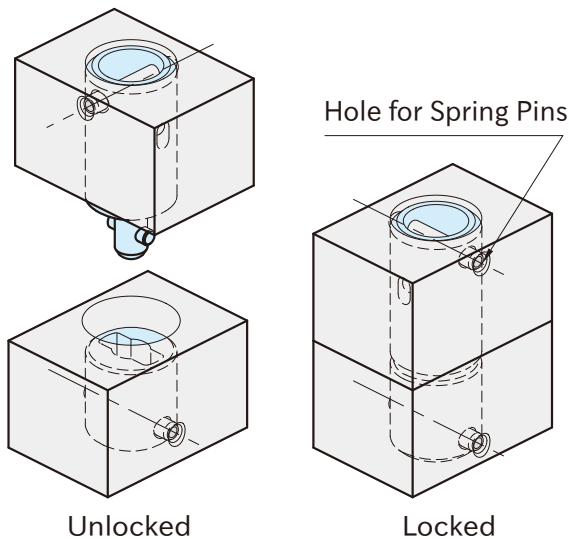
How To Install Cam Receptacle(Shaft Mount)



How To Install Cam Receptacle(Plate Mount)



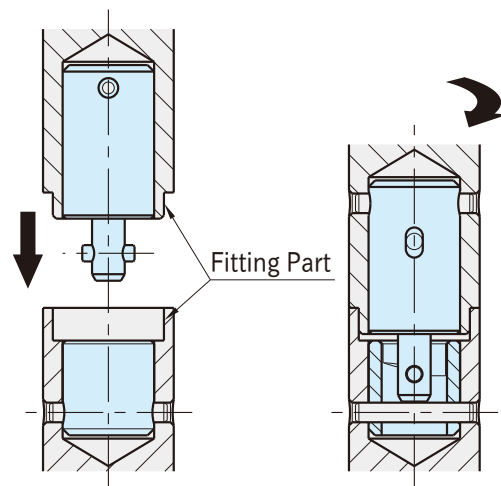
Note



Pay attention to the direction of holes for spring pins.

Repeatability

Repeatability ± 0.08



Prepare male and female fittings for higher accurate locating.

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCSJS

HEAVY DUTY SHAFT COUPLING CLAMP



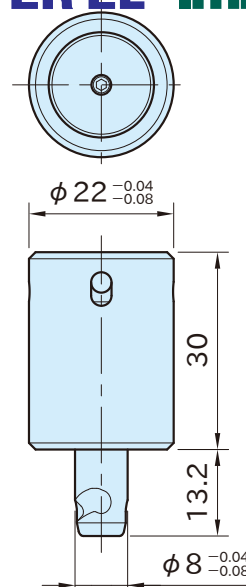
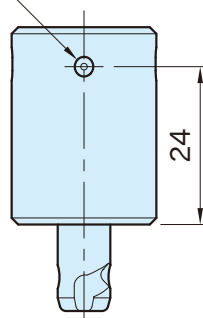
Heat resistance: 180°C



★Key Point
Strong clamping
by the spring



2-Countersink
For M4 Cone Point Setscrew



Body	Shank	Pin	Spring
S45C steel Electroless nickel plated	SKS3 steel Electroless nickel plated Quenched and tempered	SUS303 stainless steel	Equivalent to SWOSC-V steel

Part Number	Clamping Force (N)	Holding Force(N*)	Weight (g)	Locking Receptacle	Locking Receptacle
QCSJS0822A	400	400	76	QCSJS0822-S	QCTHS0834-B

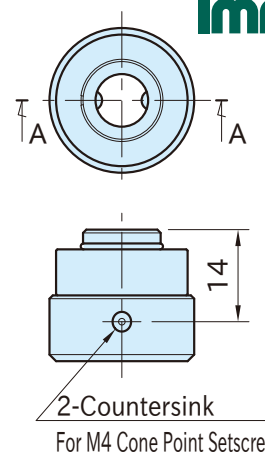
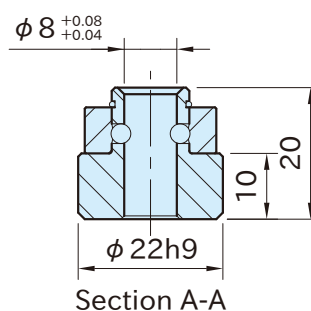
*) Exceeding the holding force creates a gap of greater than 0.1mm between plates.

Supplied With

2 of cone point setscrews(stainless steel), M4×0.7-5L

QCSJS-S

LOCKING RECEPTACLE



Part Number	Weight (g)	Body	Ball	Collar	Retaining Ring
QCSJS0822-S	42	S45C steel Electroless nickel plated	SUS440C stainless steel Quenched and tempered	SKS3 steel Electroless nickel plated Quenched and tempered	SUS304WPB stainless steel

Supplied With

2 of cone point setscrews(stainless steel), M4×0.7-5L

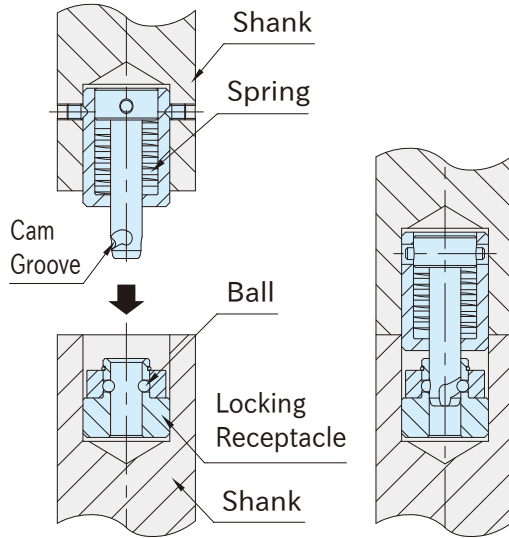
QCTHS-B Locking Receptacle



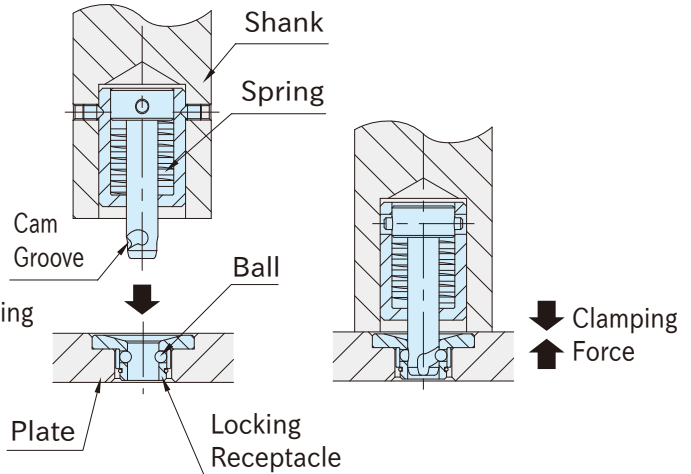
Feature

When the cam groove moves along the balls inside the receptacle, the spring gets compressed to clamp the shafts.

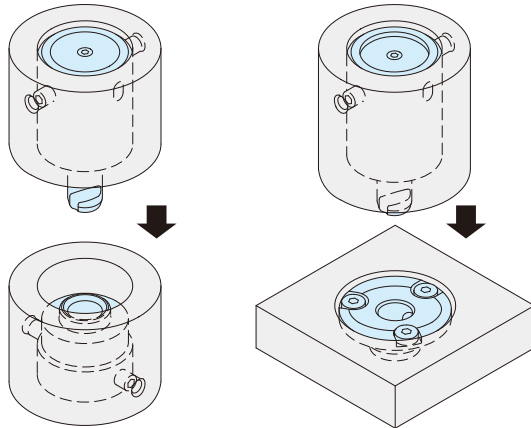
Installation on Shaft



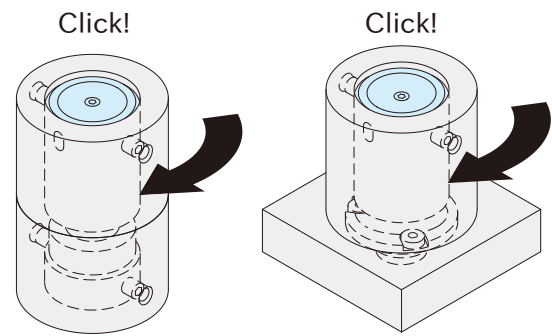
Installation on Plate



How To Use



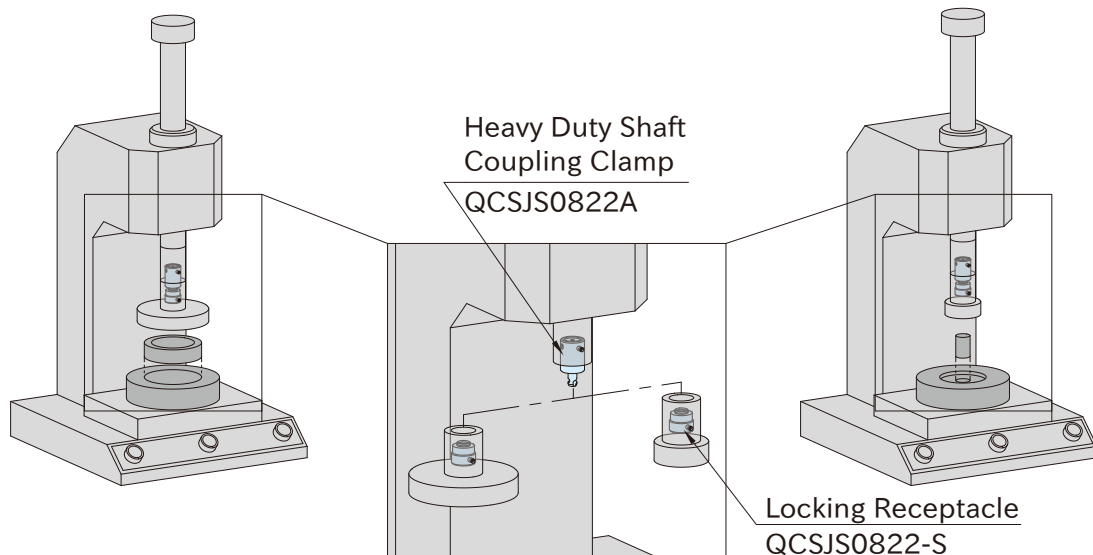
1. Align the cam groove with the ball in Locking Receptacle and insert.



2. Turn the shaft for 90° to clamp. The element clicks when clamped. For unclamping, follow back these steps.

Application Example

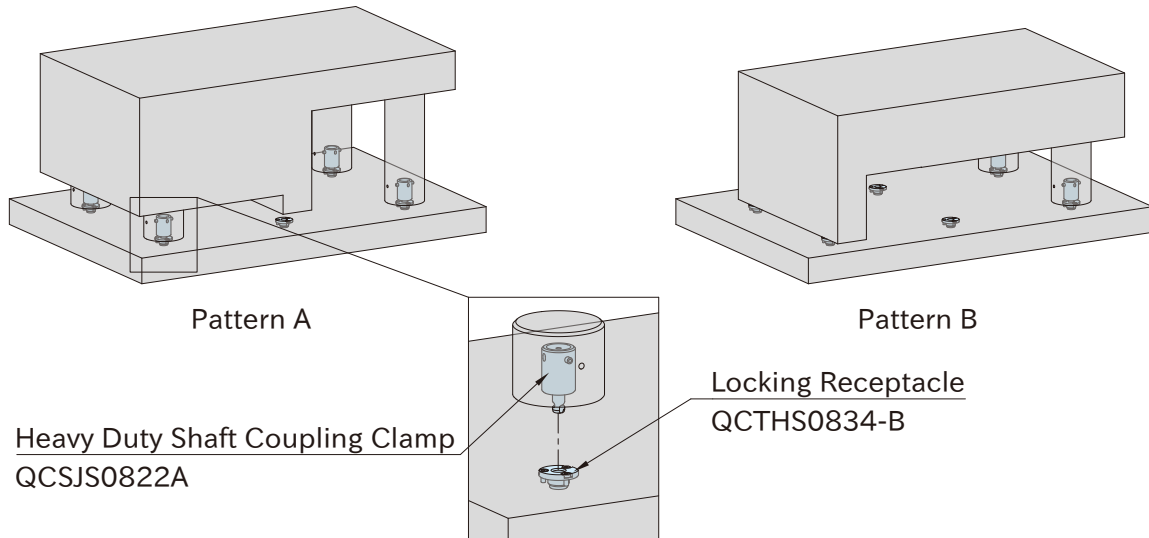
Change of the press machine attachment



Continuing on Next Page

Application Example

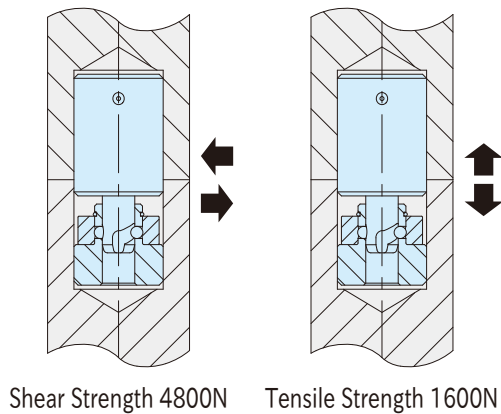
Change of riser



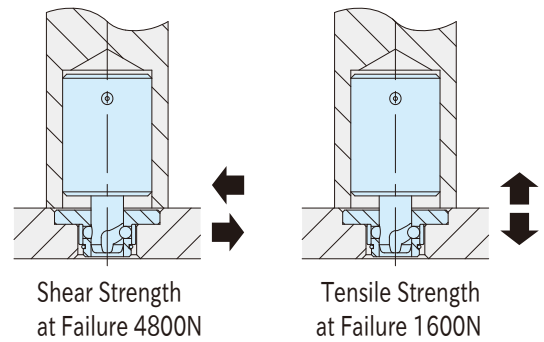
Mechanical Strength

Heatresistant Temperature 180°C

Installation on Shaft



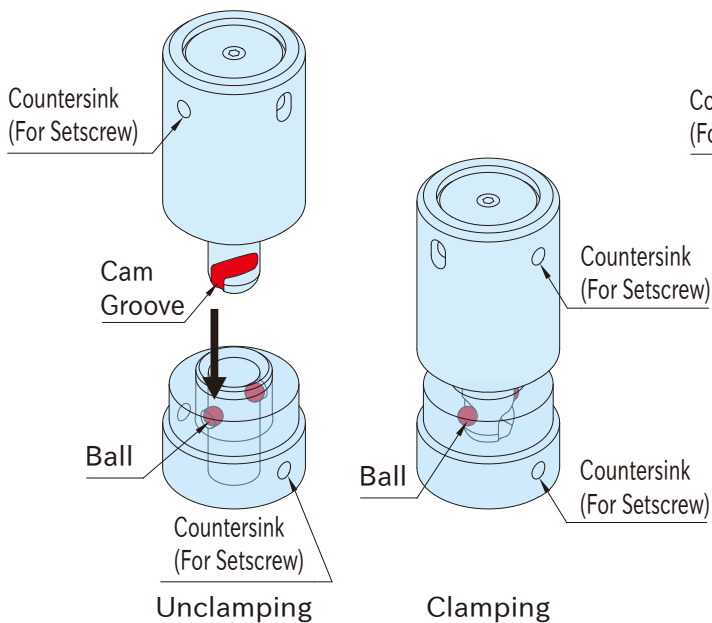
Installation on Plate



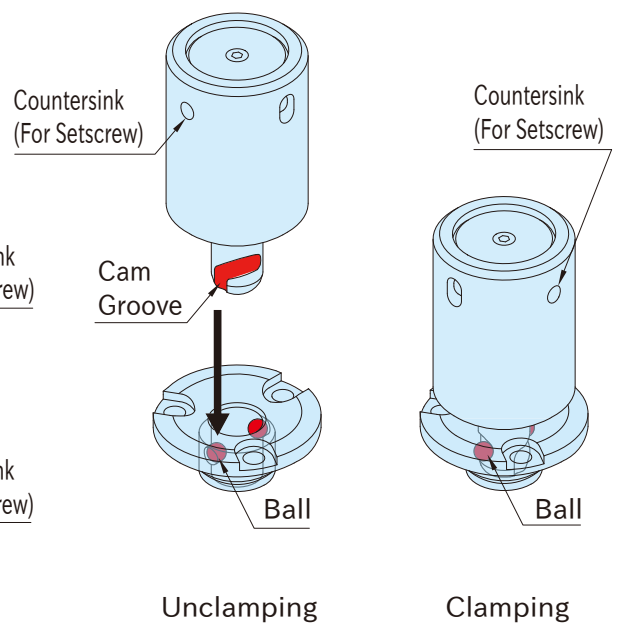
The values shown represent load levels at which failure can occur.

Mounting Direction

Installation on Shaft



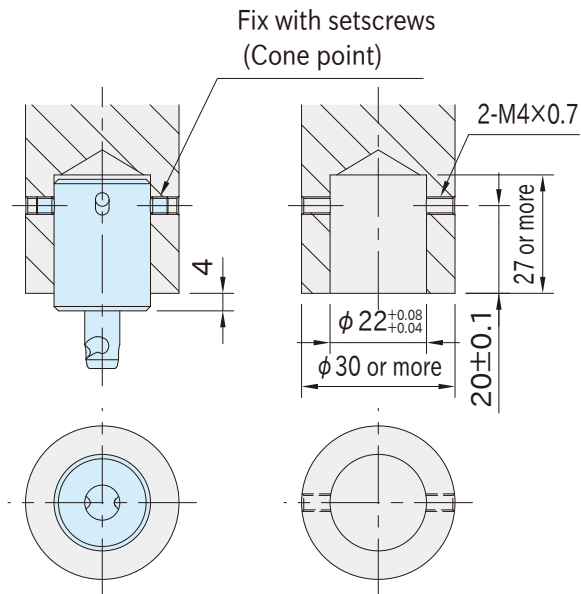
Installation on Plate



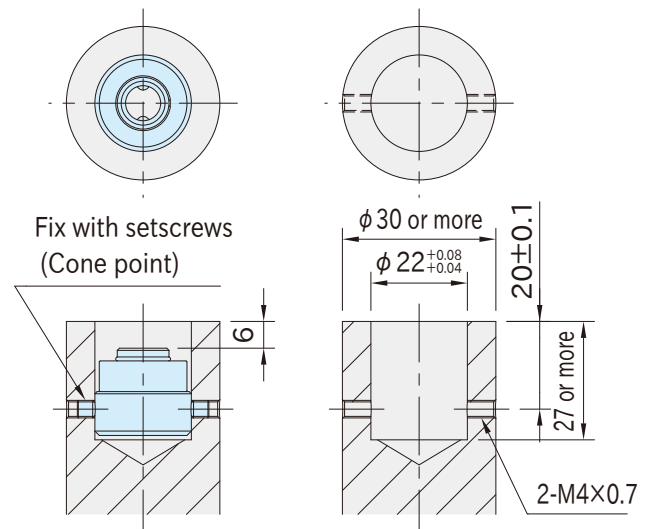
How To Install

Installation on Shaft

Heavy Duty Shaft Coupling Clamp

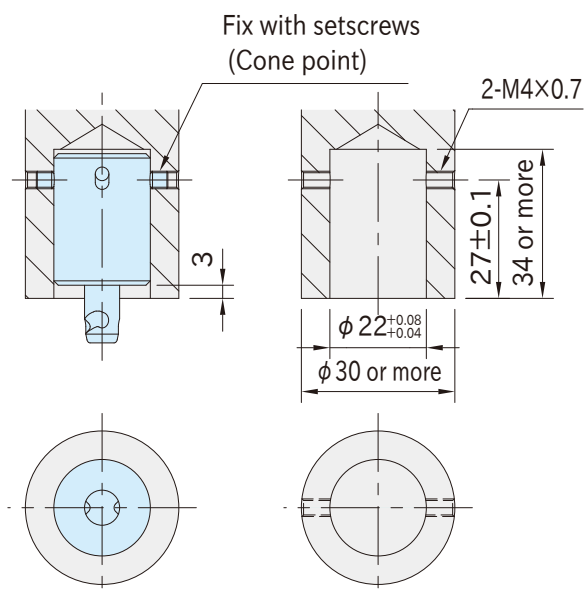


Locking Receptacle (QCSJS0822-S)



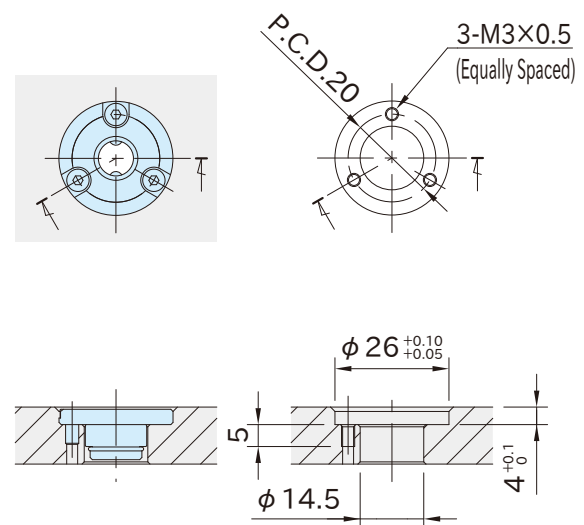
Installation on Plate

Heavy Duty Shaft Coupling Clamp

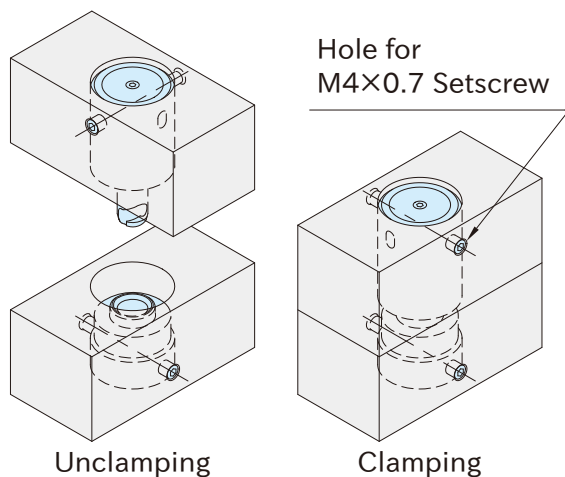


Locking Receptacle (QCTHS0834-B)

Plate thickness should be 9mm or more.



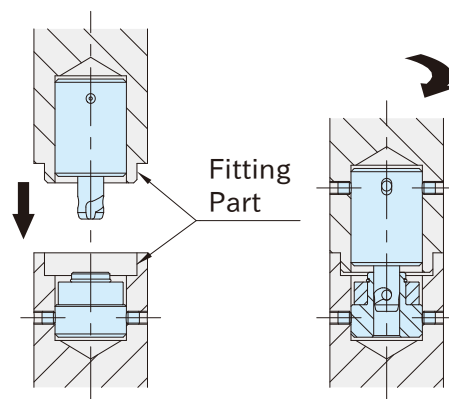
Note



Decide the mounting hole position depending on the clamped part direction.

Repeatability

Repeatability ± 0.08



Prepare male and female fittings for higher accurate locating.

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCSJLK

SHAFT COUPLING CLAMP WITH SAFETY LOCK



Stainless Steel

Heat resistance: 180°C

ER-EL

IMAO



★Key Point

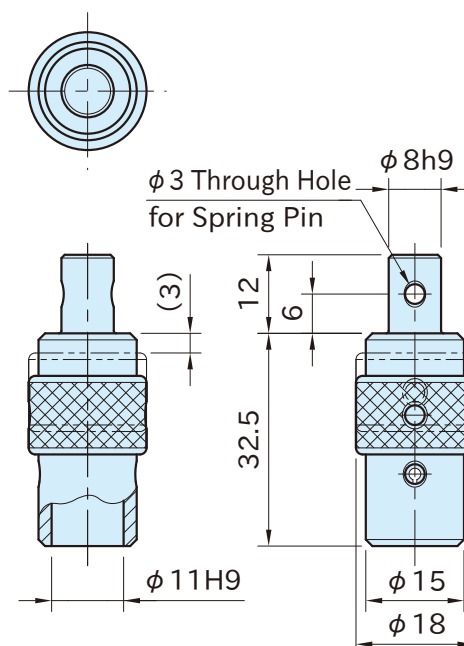
Safety lock for axial & rotational force

Part Number	Weight (g)
QCSJLK1118A	41



Note

Spring pin for fixing the shaft is not supplied.



Body/Collar	Pin	Spring
SUS303 stainless steel	SUS420J2 stainless steel	SUS304WPB stainless steel

QCSJLK-S

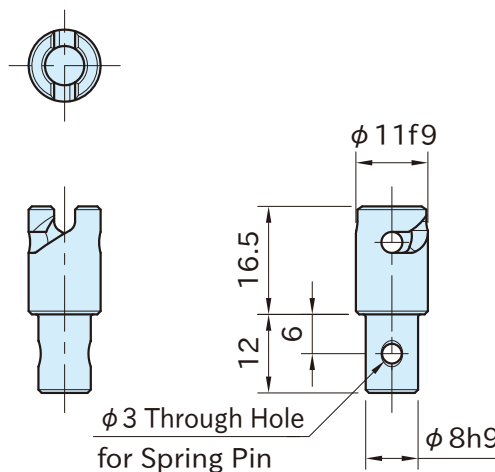
LOCKING RECEPTACLE



Stainless Steel

Heat resistance: 180°C

IMAO



Body
SUS303 stainless steel

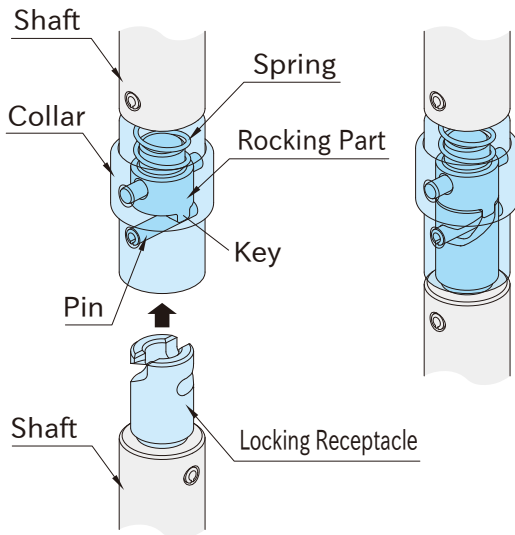
Part Number	Weight (g)
QCSJLK1118-S	13



Note

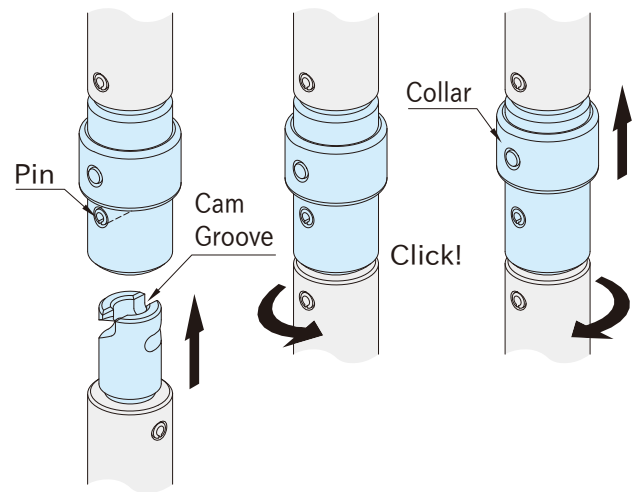
Spring pin for fixing the shaft is not supplied.

Feature



The pin cannot be pulled out when it reaches the end of the cam groove. The keys on the locking part stop the rotation.

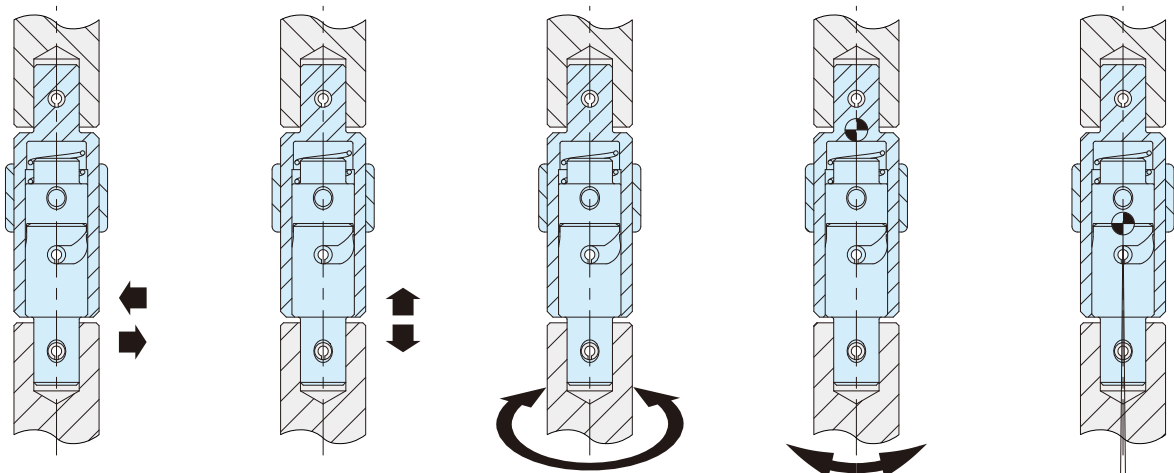
How To Use



1. Align the cam groove with the pin and insert.
2. Turn the shaft for 90° to clamp and it clicks when clamped.
3. Push up the collar for unclamping and turn the shaft by 90°.

Mechanical Strength

Heatresistant Temperature 180°C



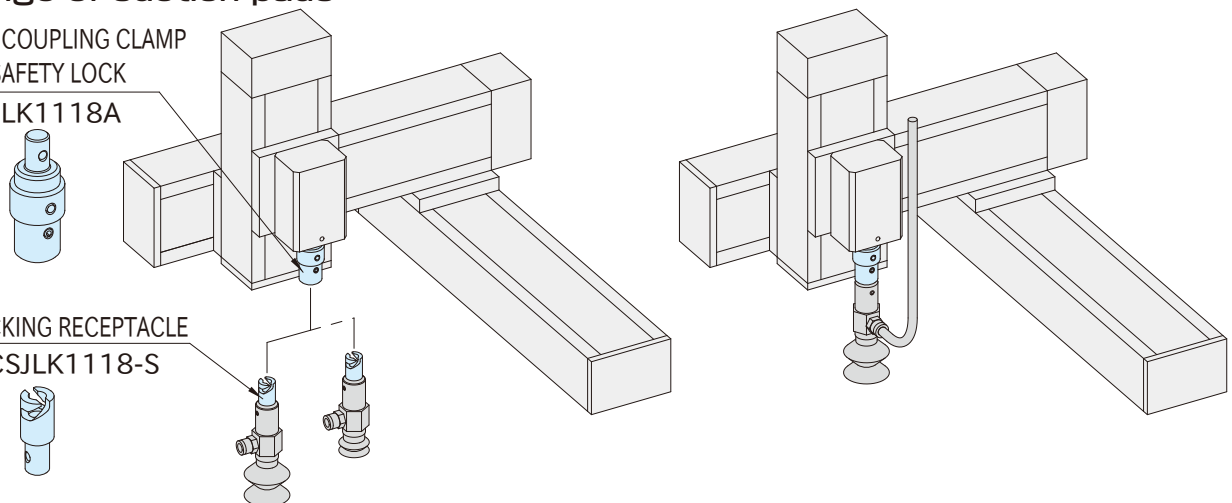
Shear Strength 2000N Tensile Strength 1200N Allowable Torque 10N·m Allowable Bending Moment 15N·m Runout Angle Max. 0.9°

Application Example

Change of suction pads

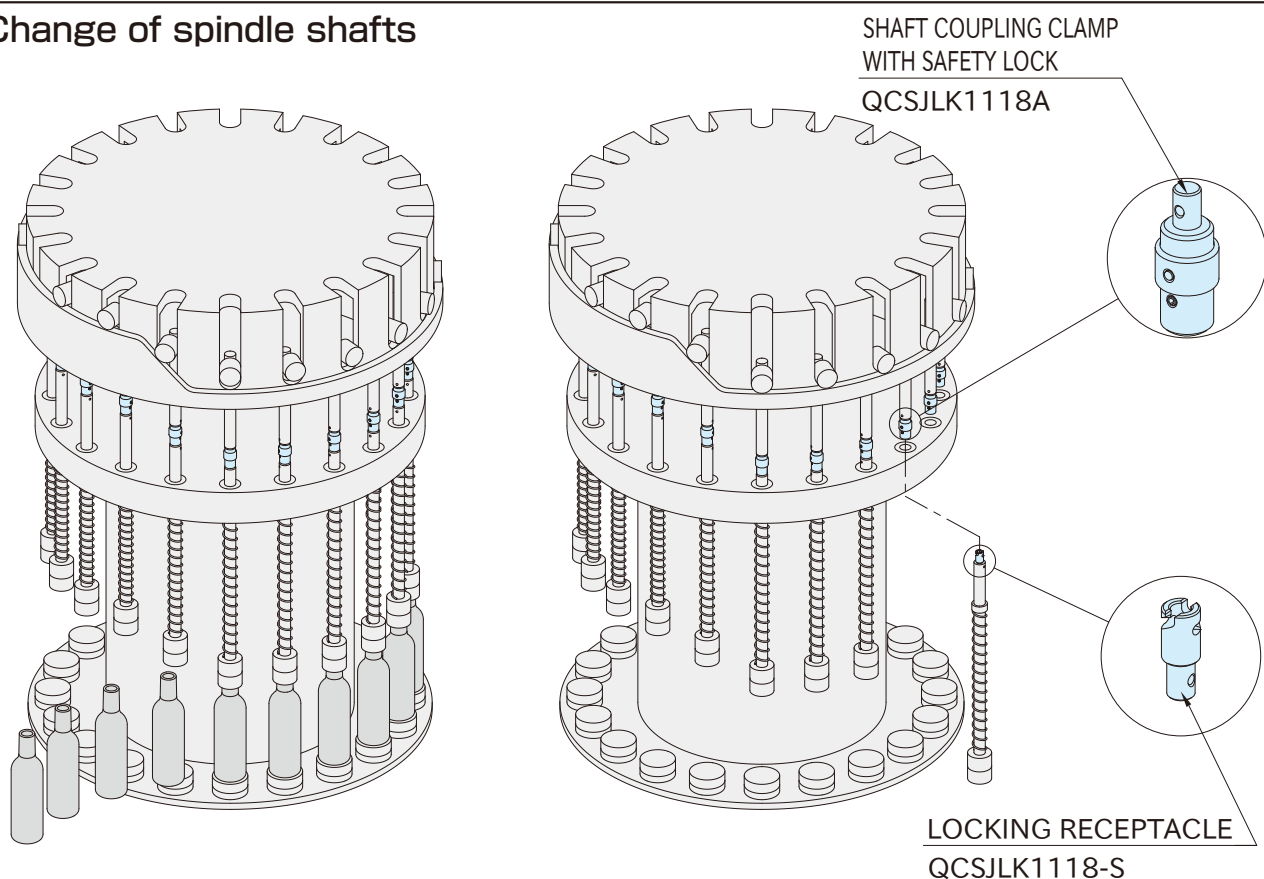
SHAFT COUPLING CLAMP
WITH SAFETY LOCK
QCSJLK1118A

LOCKING RECEPTACLE
QCSJLK1118-S

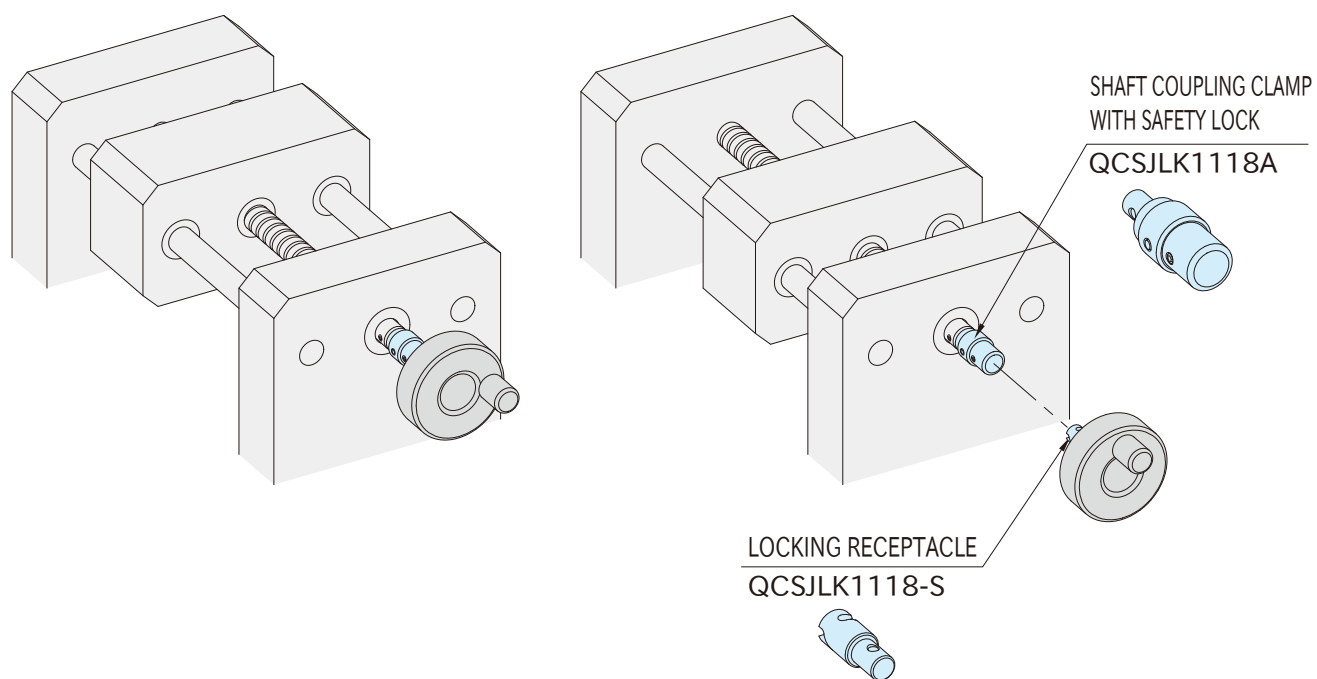


Continuing on Next Page

Change of spindle shafts



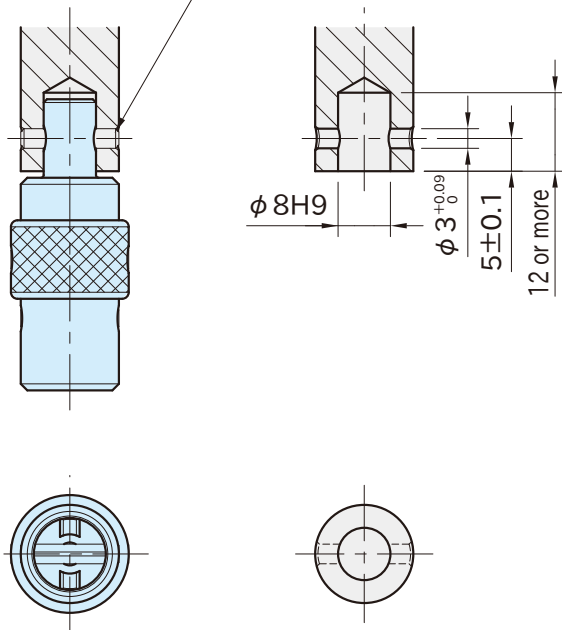
Detachment of handwheel to prevent accidental operation



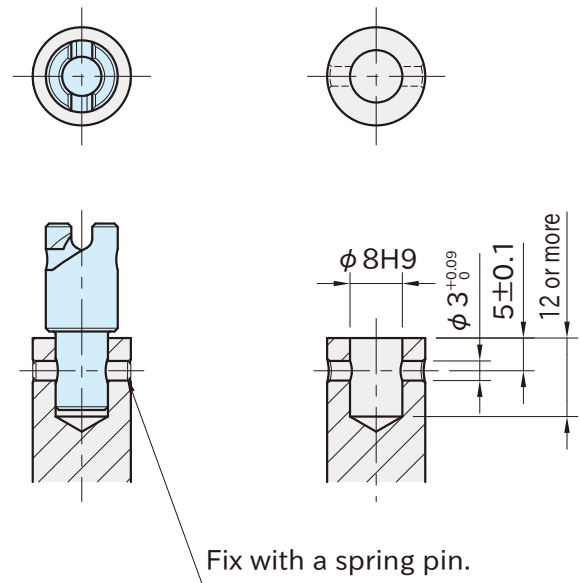
How To Install

Shaft Coupling Clamp With Safety Lock

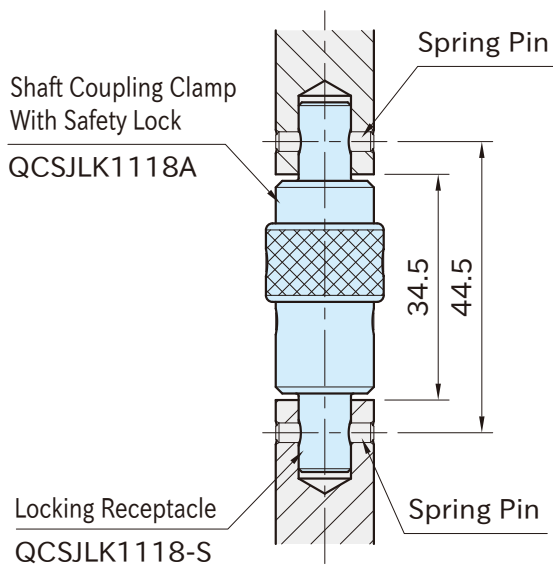
Fix with a spring pin.



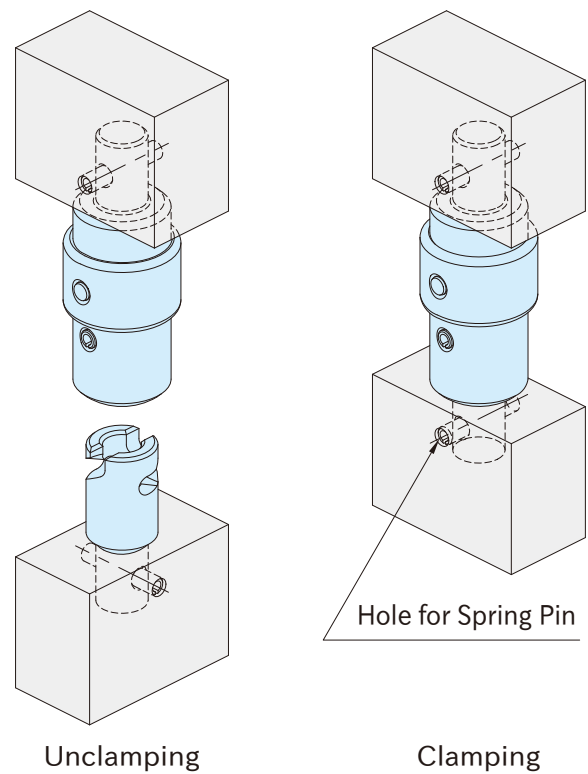
Locking Receptacle



Installation Dimension



Note



Decide the mounting hole position depending on the part direction at the locking position.

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCBA / QCBAS BALL-LOCK CLAMPING RECEPTACLES

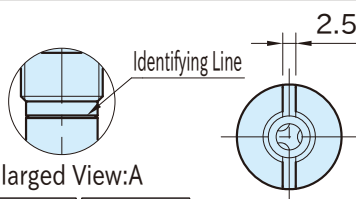


Heat resistance: 180°C

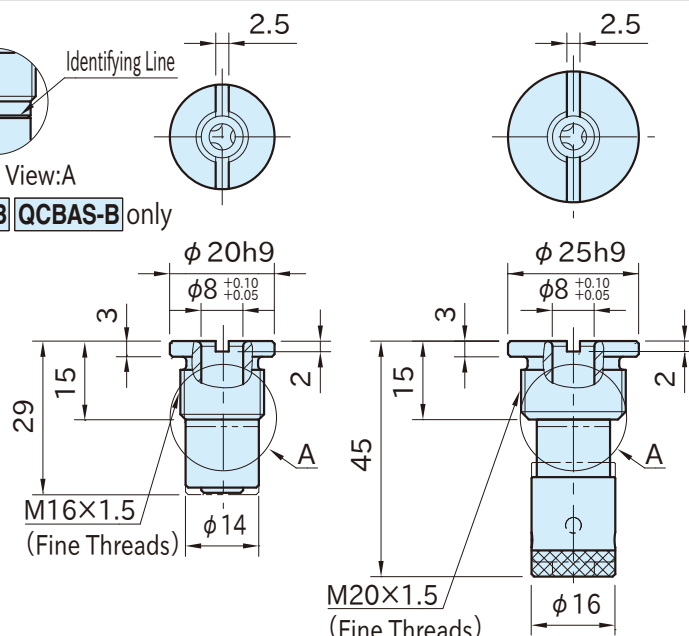


QCBA0816 (Standard) **QCBAS0820** (Safety Lock)

Type	Body/Collar	Balls	Coiled Spring	Locking Knob
QCBA0816	S45C steel	SUS440C stainless steel	SUS304WPB	—
QCBAS0820	Electroless nickel plated	Quenched and tempered	stainless steel	S45C steel Electroless nickel plated



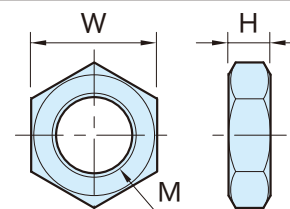
For **QCBA-B** **QCBAS-B** only



QCBA0816 (Standard)

QCBAS0820 (Safety Lock)

Order Separately Nut (Stainless Steel)



Part Number	M (Fine Threads)	H	W	Ball-Lock Clamping Receptacles
NDX16-NUT-SUS	M16×1.5	8	24	QCBA0816
NDX20-NUT-SUS	M20×1.5	10	30	QCBAS0820

QCBA0816 (Standard)

Part Number	Clamping Force (N)	Weight (g)
QCBA0816A	7	30
QCBA0816B	15	

QCBAS0820 (Safety Lock)

Part Number	Clamping Force (N)	Weight (g)
QCBAS0820A	7	65
QCBAS0820B	15	

Order Separately Installation Wrench



QCBA-M

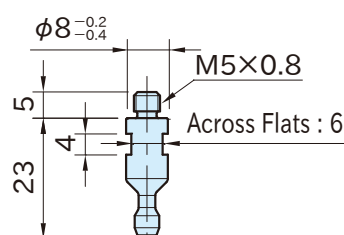
BALL-LOCK CLAMPING PINS



Heat resistance: 180°C

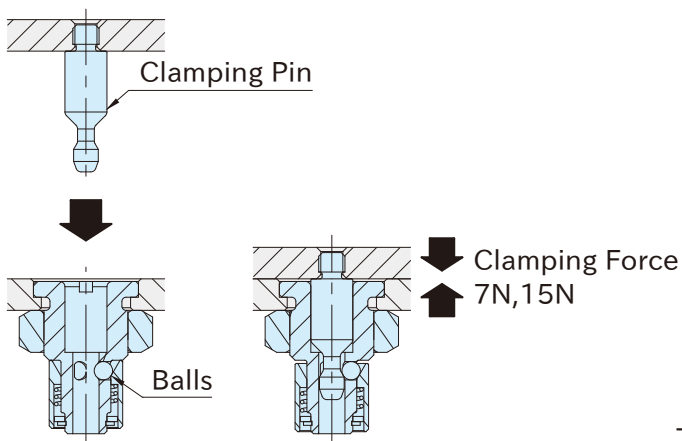


Part Number	Weight (g)
QCBA0816-M5	7



Body
S45C steel Quenched and tempered Electroless nickel plated

Feature

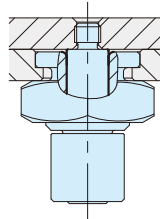


The 3 balls pull in the clamping pin.

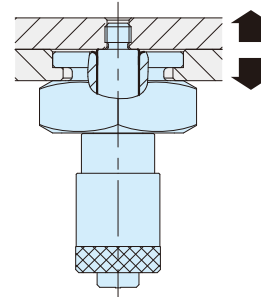
Mechanical Strength

Heatresistant Temperature 180°C

Shear Strength
at Failure
1800N



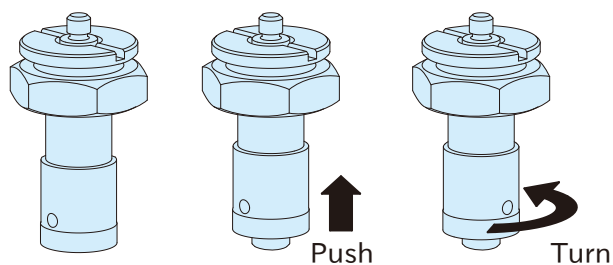
Tensile Strength
at Failure 1800N
(with safety lock engaged)



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

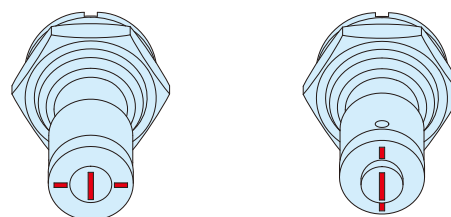
When a tensile load exceeding the clamping force is applied, a gap may occur between the plates.

How To Operate Safety Lock



Turn in the arrowhead direction pushing the locking knob.
Note: To release the safety lock, follow the steps back.

How To Check Safety Lock



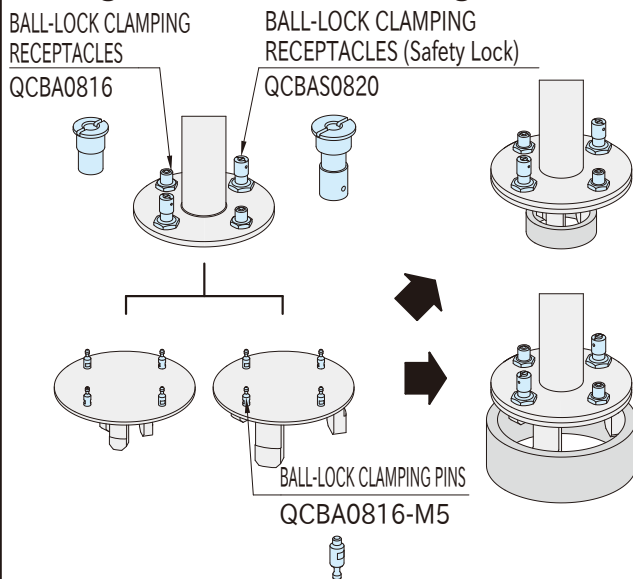
Inactive Mode

Active Mode

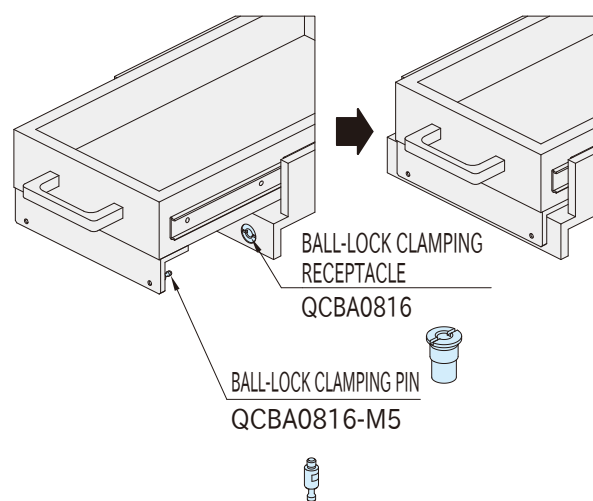
When the mark lines on the end of the locking knob are aligned, the safety lock is active.

Application Example

Changes of chuck of handling machines



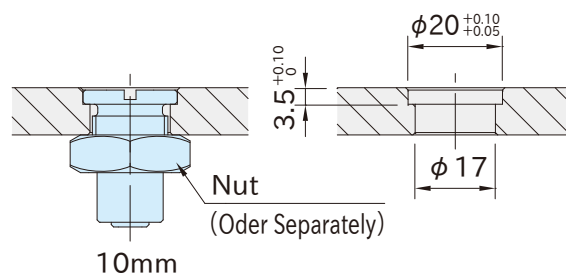
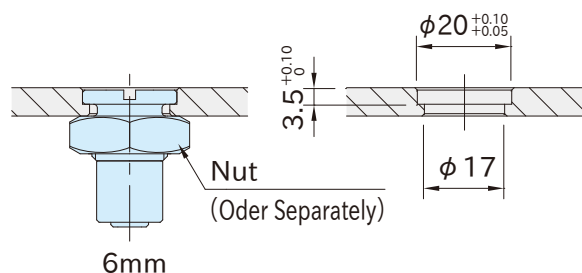
End fixing of sliding units



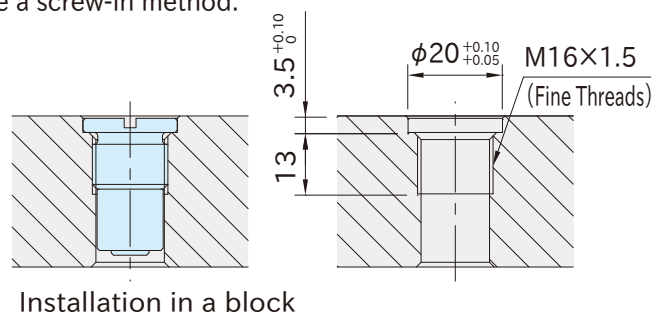
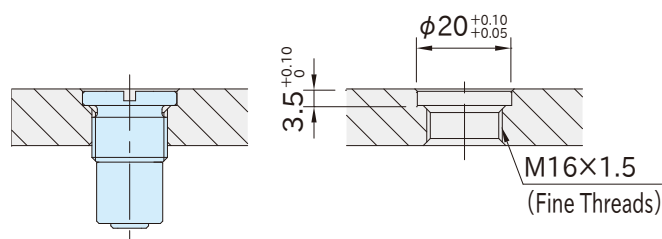
Continuing to next page

How To Install (Standard)

For installation in a subplate of thickness ranging from 6mm to 10mm, use a nut for fastening.

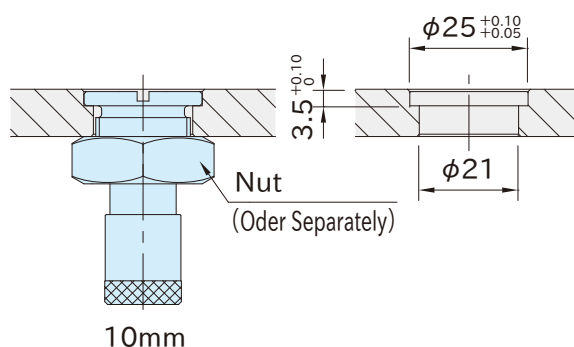
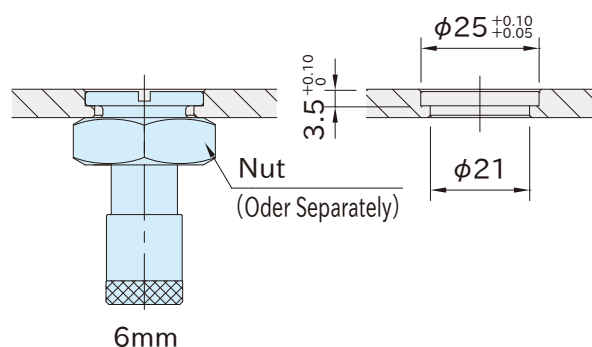


For installation in a subplate of thickness over 10mm, use a screw-in method.

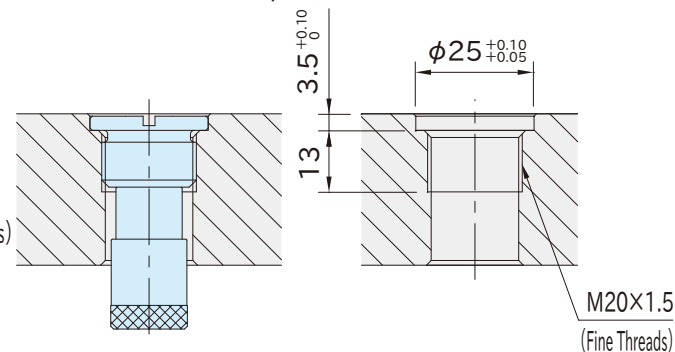
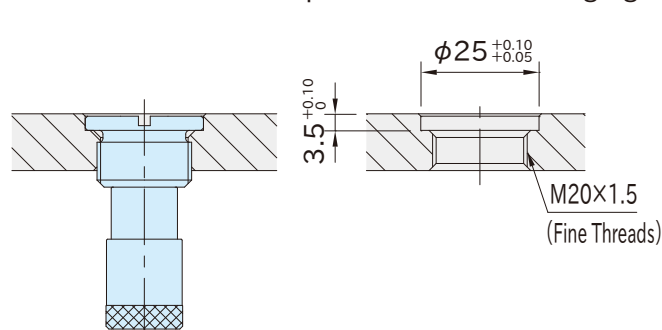


How To Install (Safety Lock)

For installation in a subplate of thickness ranging from 6mm to 10mm, use a nut for fastening.

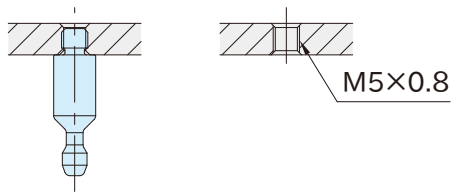


For installation in a subplate of thickness ranging from 10mm to 32mm, use a screw-in method.



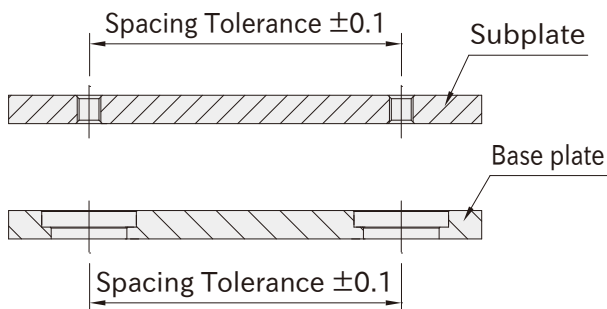
How To Install (Ball-Lock Clamping Pins)

Plate thickness should be 6mm or more.



Accuracy

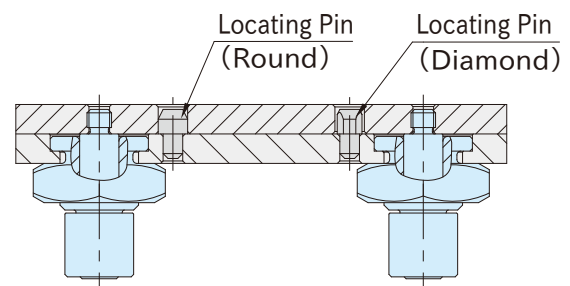
■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

■ Repeatability

Repeatability ± 0.25



For higher accurate locating, use locating pins.

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

QCMA

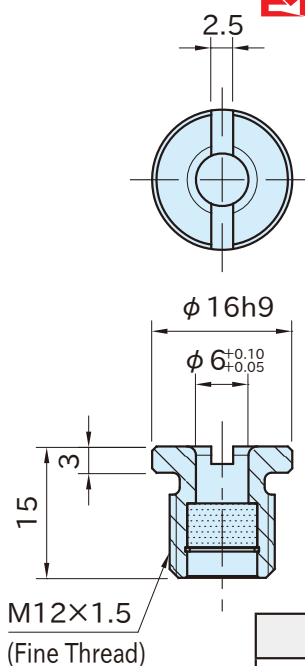
MAGNET-LOCK CLAMPING RECEPTACLES



Stainless Steel

ER-EL

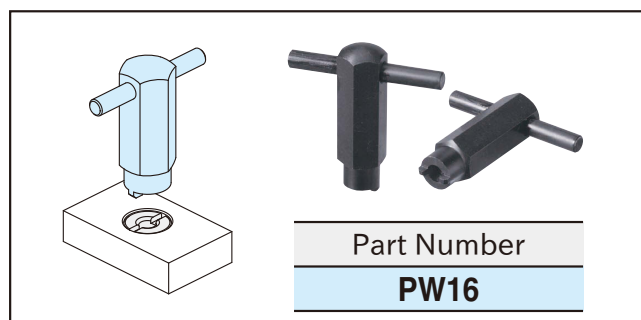
IMAO



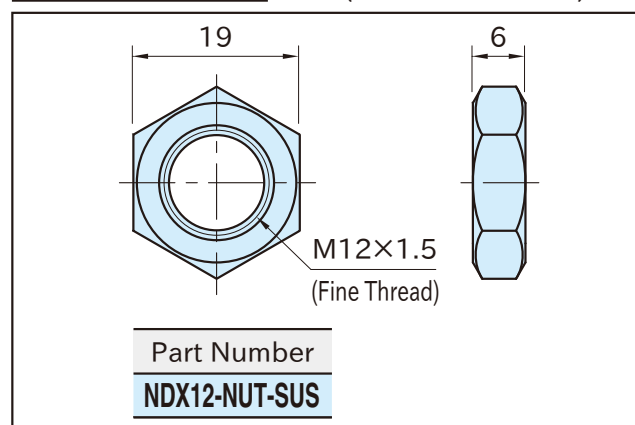
Part Number	Plate Thickness	Clamping Force (N)	Weight (g)
QCMA0612A	6 or more	7	12

Body	Magnet
SUS303 stainless steel	Neodymium

Order Separately Installation Wrench



Order Separately Nut (Stainless Steel)

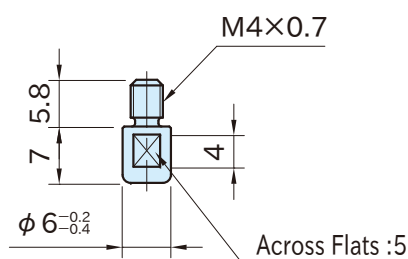


QCMA-M

MAGNET-LOCK CLAMPING PINS



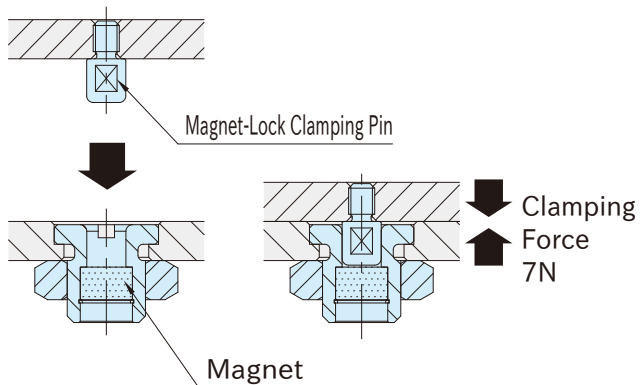
IMAO



Body
S45C steel Electroless nickel plated

Part Number	Weight (g)	Magnet-Lock Clamping Receptacles	Magnet-Lock Slotted Receptacles
QCMA0612-M4	2	QCMA0612A	QCMA0612A-SH

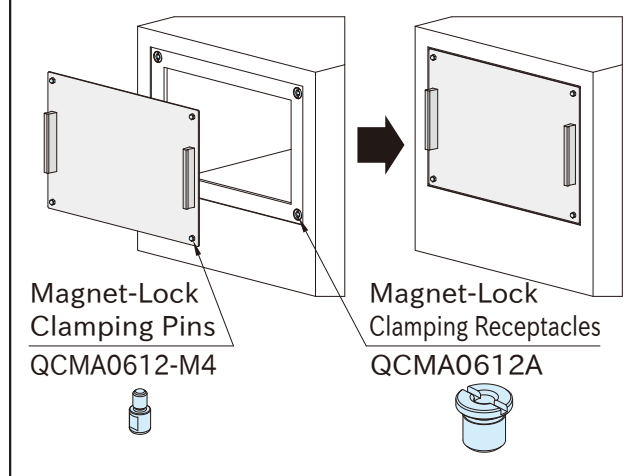
Feature



The magnet draws the clamping pin in and holds it in place.

Application Example

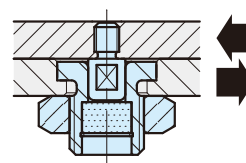
Installation/removal of maintenance cover plate of machines



Mechanical Strength

Heatresistant Temperature 80°C

Shear Strength at Failure 900N



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

QCMA-SH

MAGNET-LOCK SLOTTED RECEPTACLES



Quarter Turn

Button Push

Twist Coupling

Push Pull

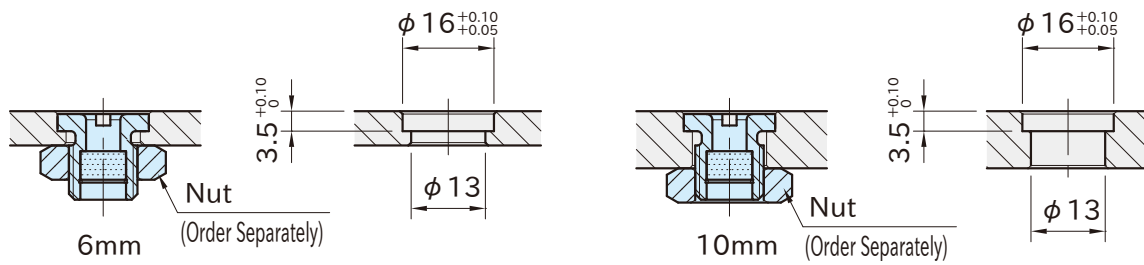
Locate & Clamp



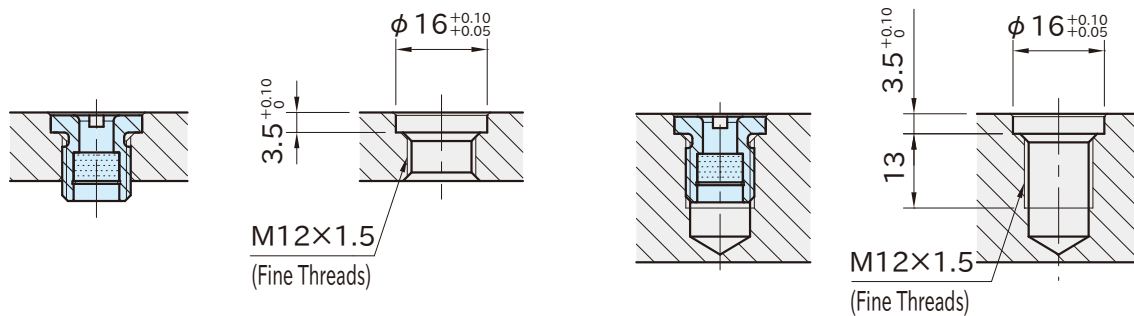
Continuing to next page

How To Install Magnet-Lock Clamping Receptacles

For installation in a subplate of thickness ranging from 6mm to 10mm, use a nut for fastening.

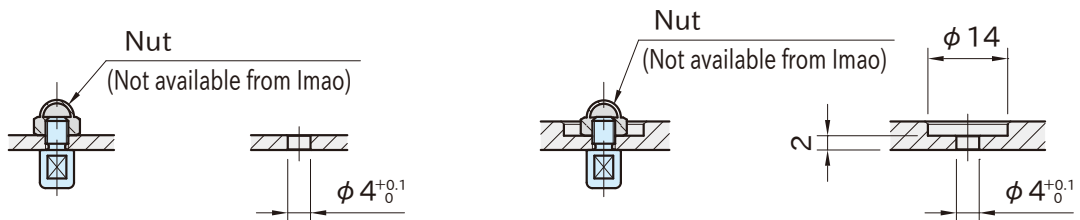


For installation in a subplate of thickness over 10mm, use a screw-in method.



How To Install Magnet-Lock Clamping Pins

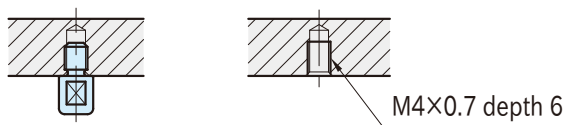
For installation in a subplate of thickness ranging from 2mm to 6mm, use a nut for fastening.



Installation in a plate of thickness ranging from 2 to 2.6mm.

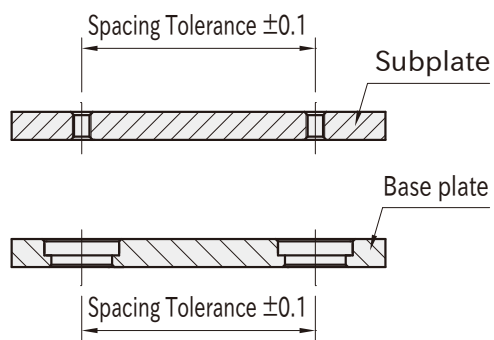
Installation in subplates of thickness ranging from over 2.6mm to 6mm.

For installation in a subplate of thickness over 6mm, use a screw-in method.



Accuracy

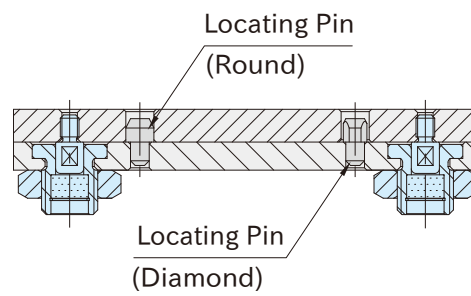
■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ± 0.1 .

■ Repeatability

Repeatability ± 0.25



For higher accurate locating, use locating pins.

Quarter Turn

Button Push

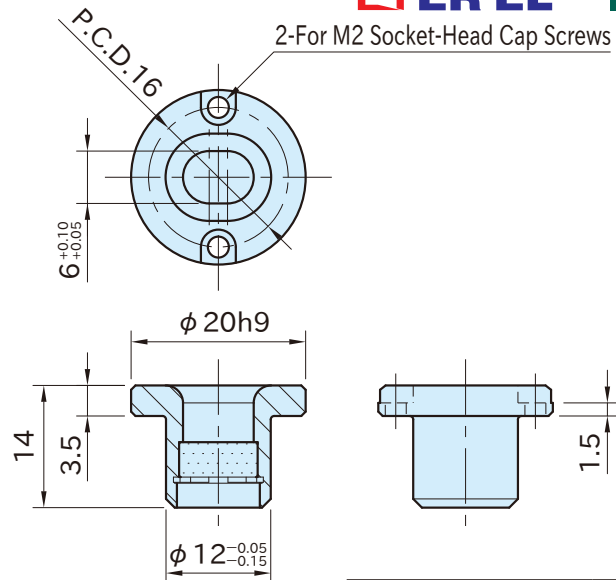
Twist Coupling

Push Pull

Locate & Clamp

QCMA-SH

MAGNET-LOCK SLOTTED RECEPTACLES



★Key Point

Work with rough mounting hole spacing

Body	Magnet
SUS303 stainless steel	Neodymium

Part Number	Plate Thickness	Clamping Force (N)	Weight (g)	Magnet-Lock Clamping Pins
QCMA0612A-SH	8 or more	7	13	QCMA0612-M4

Supplied With

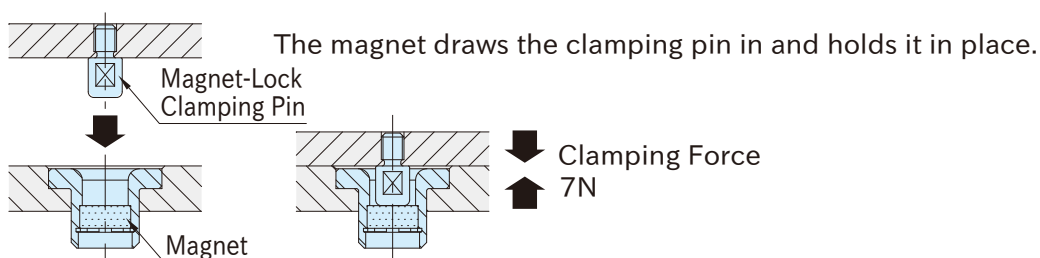
2 of socket-head cap screws(stainless steel), M2×0.4-5L

QCMA-M

MAGNET-LOCK CLAMPING PINS

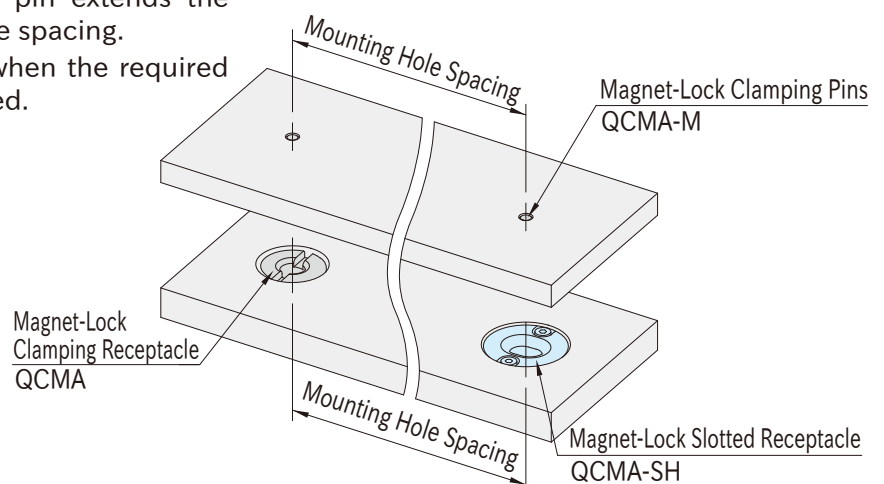
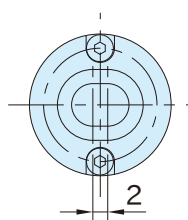


Feature



The slotted hole for the clamping pin extends the tolerance range of the mounting hole spacing.

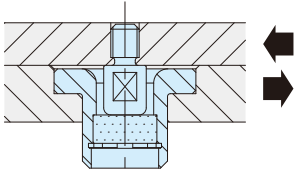
This allows secure mounting even when the required spacing tolerance cannot be achieved.



Mechanical Strength

Heatresistant Temperature 80°C

Shear Strength at Failure 900N



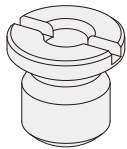
The values shown represent load levels at which failure can occur.

Note

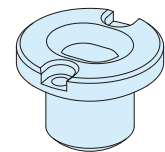
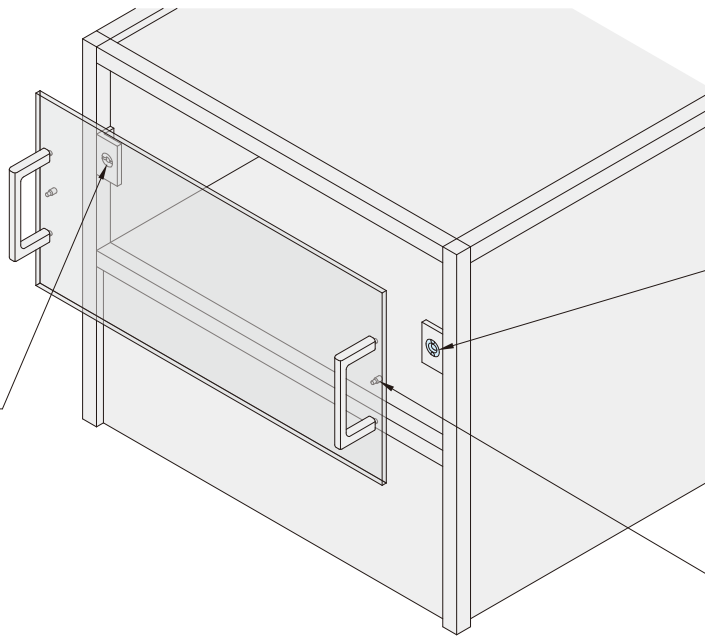
Use this product in pairs with a **QCMA-M** receptacle for use with two **QCMA** clamping pins.

Application Example

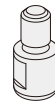
Installation/removal of maintenance cover plate of machines



MAGNET-LOCK
CLAMPING RECEPTACLE
QCMA0612A



MAGNET-LOCK
SLOTTED RECEPTACLE
QCMA0612A-SH



MAGNET-LOCK
CLAMPING PINS
QCMA0612-M4

Quarter Turn

Button Push

Twist Coupling

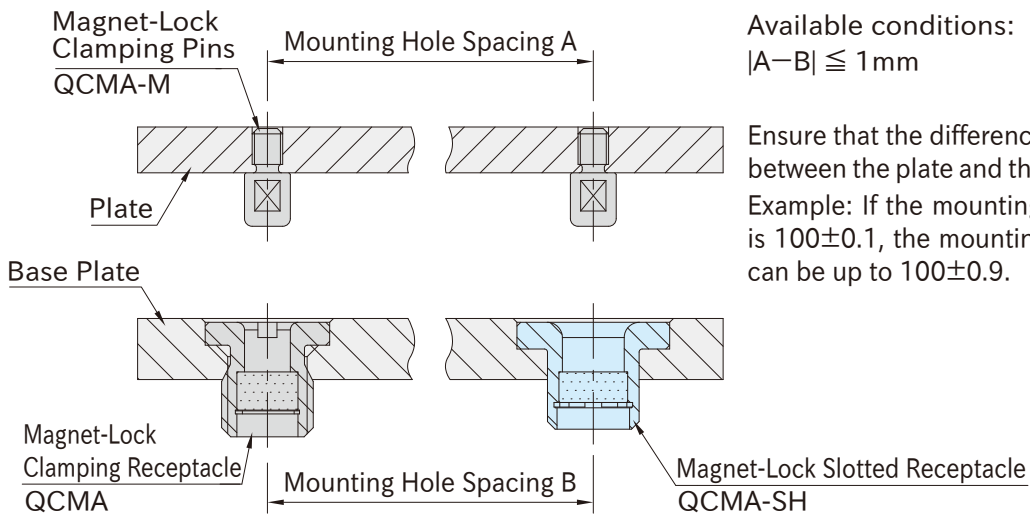
Push Pull

Locate & Clamp



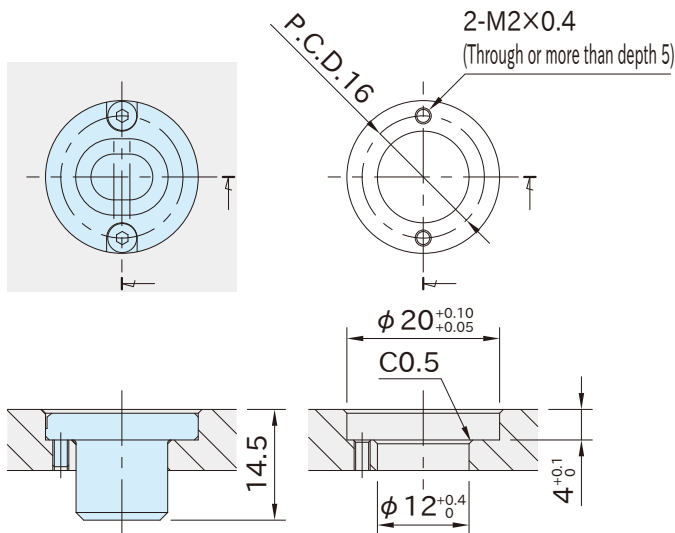
Continuing on Next Page

How To Set Mounting Hole Spacing



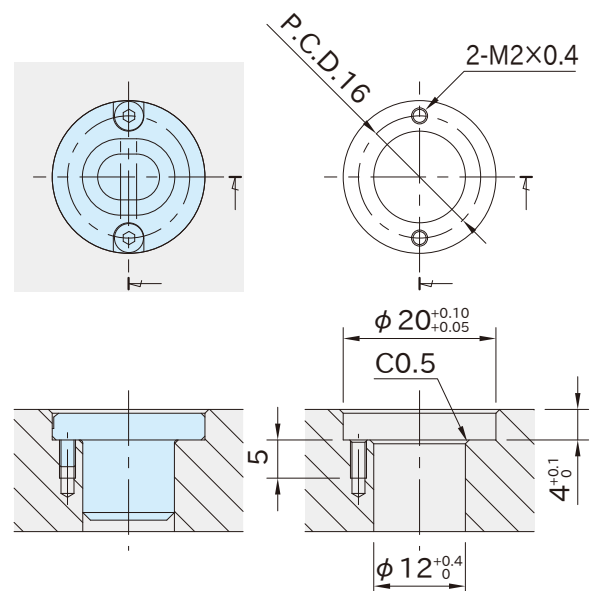
How To Install

For over 8 mm to 15 mm plate



With thin plates, the bottom of the receptacle protrudes from the plate.

For over 15 mm plate



Accuracy

Repeatability is in accordance with the [QCMA](#) receptacle used.

Reference

- "How To Install Magnet-Lock Clamping Pins" of [QCMA-M](#) Magnet-Lock Clamping Pins
- [QCMA](#) MAGNET-LOCK CLAMPING RECEPTACLES



*Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..*

www.er-el.com.tr



Quarter Turn

Button Push

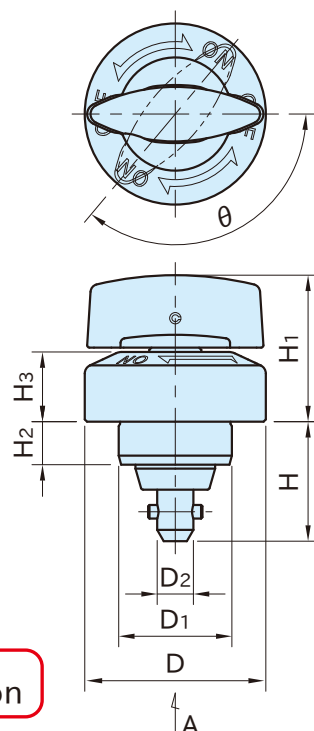
Twist Coupling

Push Pull

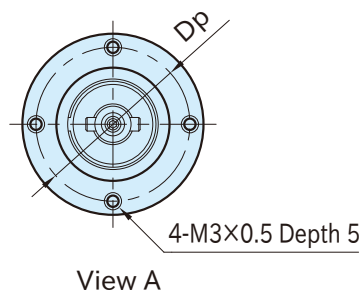
Locate & Clamp

CP723

ONE-TOUCH CLAMPING LOCATORS



Body / Shank	Tapered Pin	Knob	Pin
SCM440 steel Black oxide finished	SCM440 steel Nitrocarburized	SCS13 stainless steel (Equivalent to SUS304)	SUS304 stainless steel



★Key Point
Space saving operation

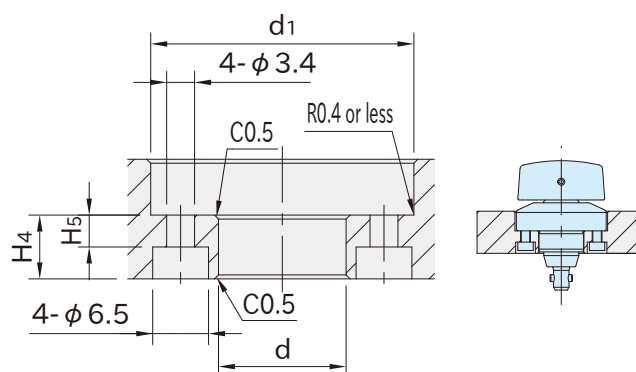
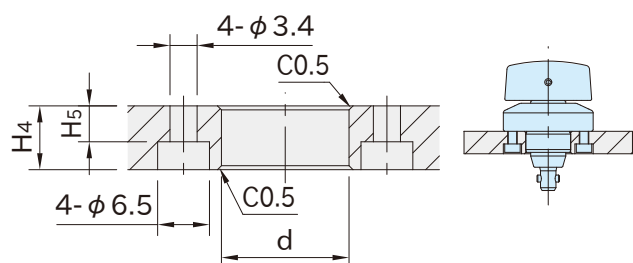
Part Number	D ₁ (g6)	H ₂	D	H ₁	H ₃	D ₂	H	θ	D _p
CP723-0632R-04	16	7.5	32	27	12	5.5	22	120°	25.5
CP723-0840R-06	25	9.5	40	32	15.5	8	26	130°	34

Part Number	Clamping Force(N)	Lifting Force (N) *	Weight (g)	Locating Receivers
CP723-0632R-04	350	30	96	CP727-0632R
CP723-0840R-06	600	100	211	CP727-0840R

*) The lifting force is the power of the inner spring of the body to push up the movable tapered pin.
For maximum loading weight and locating repeatability, see How To Use ONE-TOUCH FLEX LOCATORS (Handle / Knob).

How To Use

■ Mounting Hole Dimension



Part Number	d (H7)	H ₄ (±0.05)	d ₁	H ₅
CP723-0632R-04	16	8	33	4
CP723-0840R-06	25	10	41	6

Supplied With

- **CP723-0632R-04**: Four pieces of hex. socket-head cap screws M3x0.5-8L
- **CP723-0840R-06**: Four pieces of hex. socket-head cap screws M3x0.5-10L

Reference

How To Use ONE-TOUCH FLEX LOCATORS
(Handle / Knob)

CP722

ONE-TOUCH CLAMPING LOCATORS

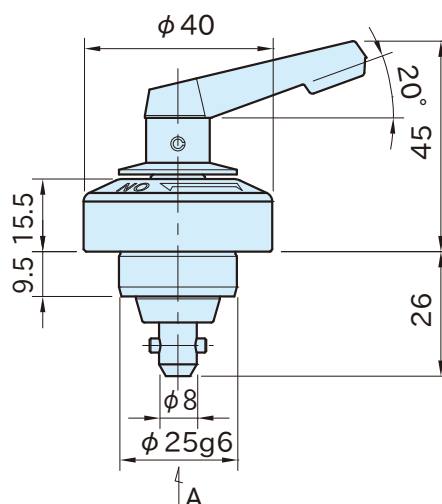
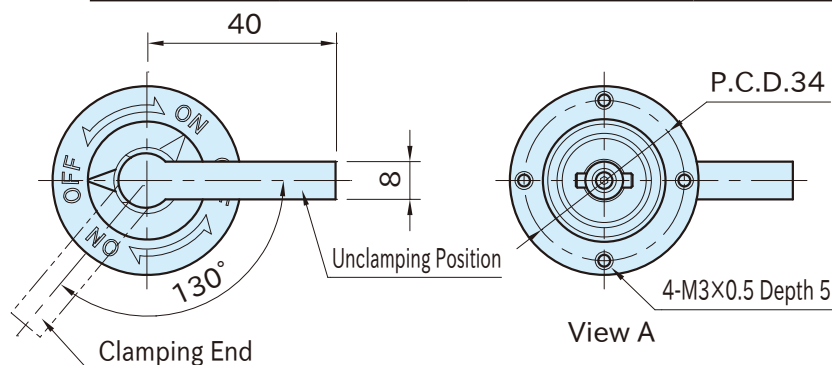


CP722-0840R-06

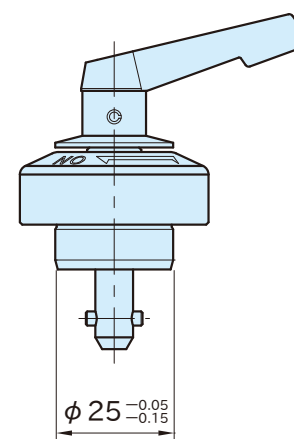


CP722-0840R-06N

Body / Shank	Tapered Pin	Handle	Pin
SCM440 steel Black Oxide Finished	SCM440 Nitrocarburized	ZDC1 die-cast zinc Silver-gray painted	SUS303 stainless steel



CP722-0840R-06



CP722-0840R-06N

Part Number	Tapered Pin	Clamping Force (N)	Lifting Force (N)*	Weight (g)	Locating Receivers
CP722-0840R-06	With	600	100	220	CP727-0840R
CP722-0840R-06N	Without	700	—	215	

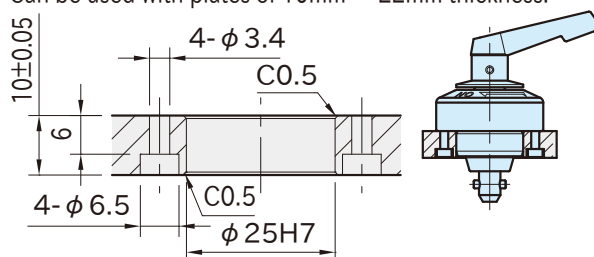
*) The lifting force is the power of the inner spring of the body to push up the movable tapered pin.

For maximum loading weight and locating repeatability, see How To Use ONE-TOUCH FLEX LOCATORS (Handle / Knob).

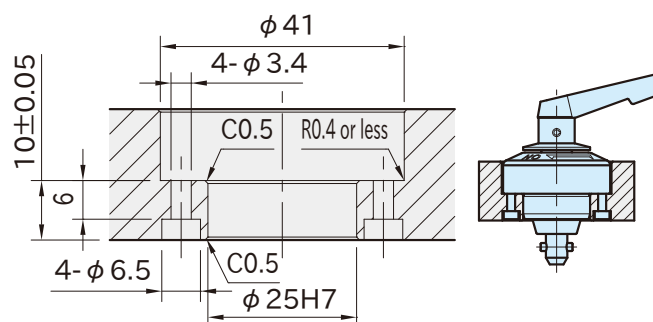
How To Use

■ Mounting Hole Dimension

Can be used with plates of 10mm ~ 22mm thickness.



Installation on 10mm-thick Plate



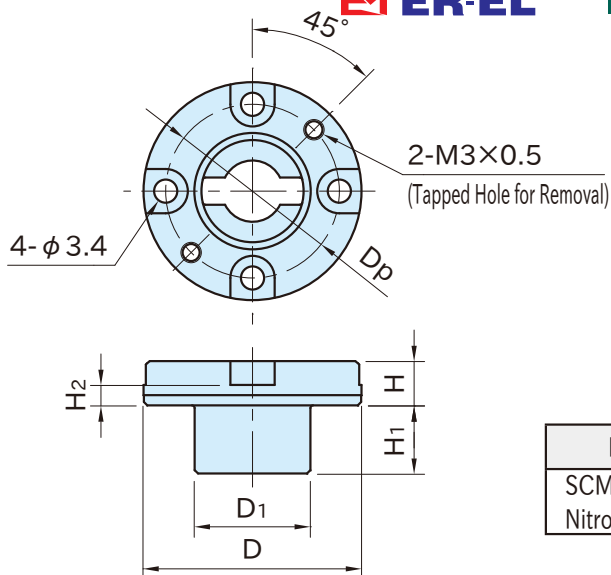
Installation on 10mm-22mm Thick Plate
Drill a counterbored hole.

Reference

How To Use ONE-TOUCH FLEX LOCATORS
(Handle / Knob)

Supplied With

4 of M3X0.5-10L Hex Socket-Head Cap Screw

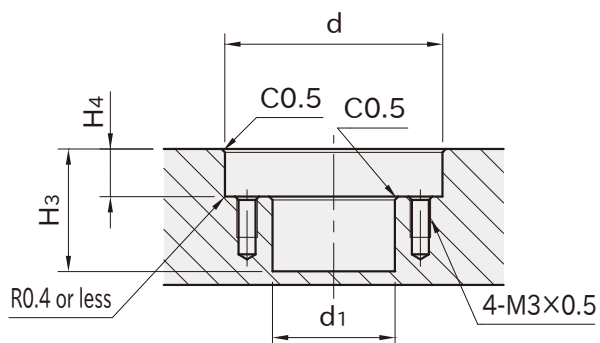


Body
SCM440 steel
Nitrocarburized

Part Number	D (g6)	H	D ₁	H ₁	H ₂	D _p	Weight (g)
CP727-0632R	28	5.5	12.5	8	2	21.5	20
CP727-0840R	32	6.5	17	10	3	25.5	32

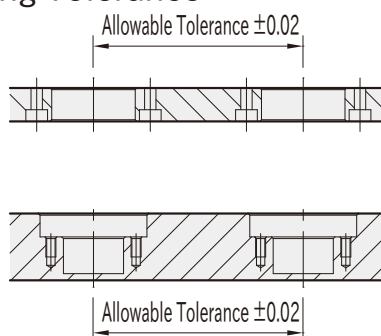
How To Use

■ Mounting Hole Dimension



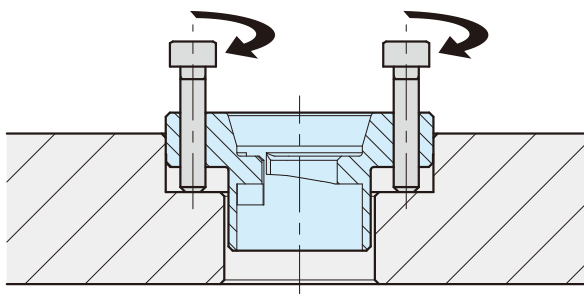
Part Number	d (H7)	H ₄ (±0.05)	d ₁	H ₃
CP727-0632R	28	6	13.5	15
CP727-0840R	32	7	18	18

■ Spacing Tolerance



■ How to Remove

Insert screws into the tapped holes to lift up the Locating Receivers for removal.



Related Product

- **CP722** ONE-TOUCH CLAMPING LOCATORS
- **CP723** ONE-TOUCH CLAMPING LOCATORS

Reference

How To Use ONE-TOUCH FLEX LOCATORS
(Handle / Knob)



Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..

www.er-el.com.tr



Quarter Turn

Button Push

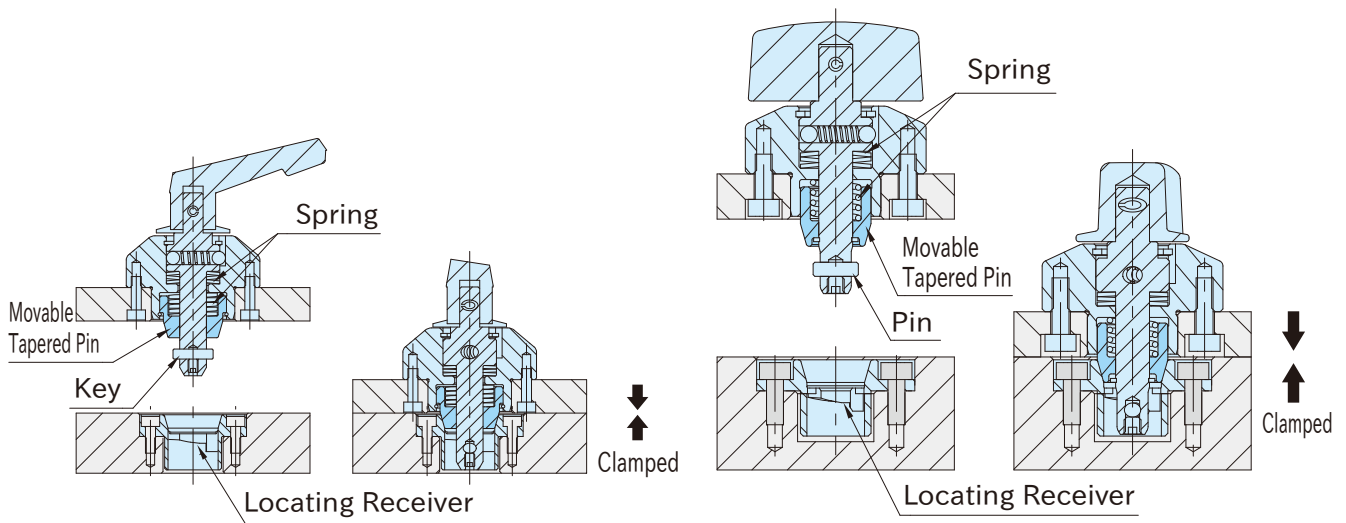
Twist Coupling

Push Pull

Locate & Clamp

How To Use ONE-TOUCH FLEX LOCATORS (Handle / Knob)

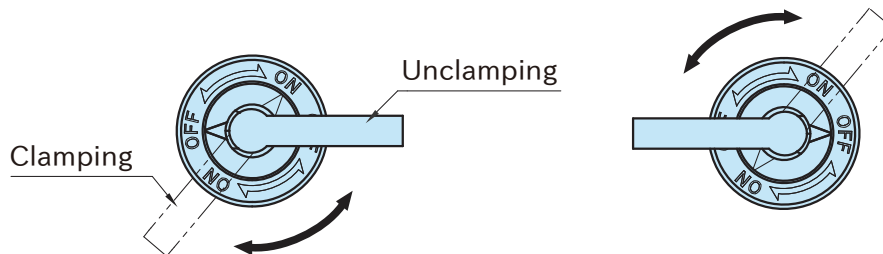
Feature



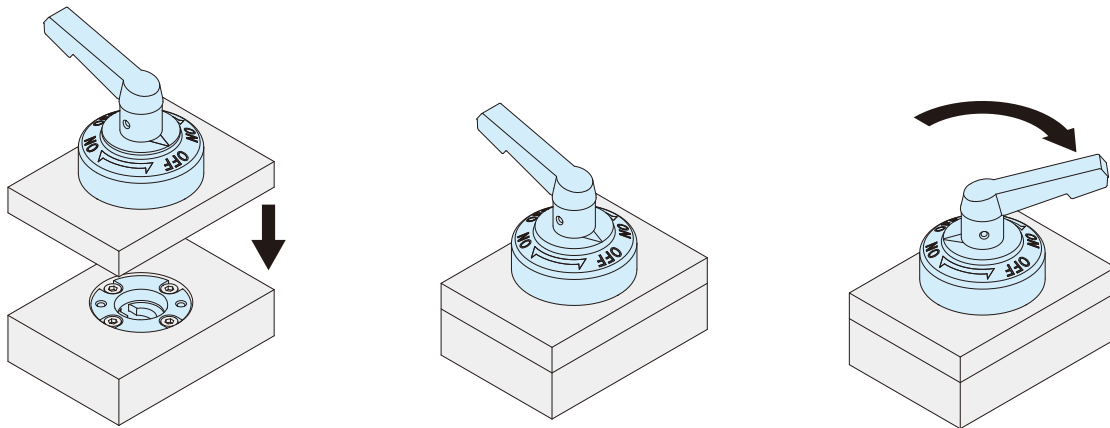
- Fitting of the tapered surfaces ensures precise positioning.
- Turning the handle engages the key of the locator with the cam of the locating receiver. This compresses the spring-loaded floating pin into contact with the tapered surface of the receiver to create a secure contact between the plate surfaces.

Straight pin locator has no locating function and is for clamping only.

CP722 has two clamp and unclamp positions. Either position can be used for operability.



How To Operate



1. Ensure the handle is positioned at "OFF" mark.

2. Insert the Locator to the Locating Receiver.

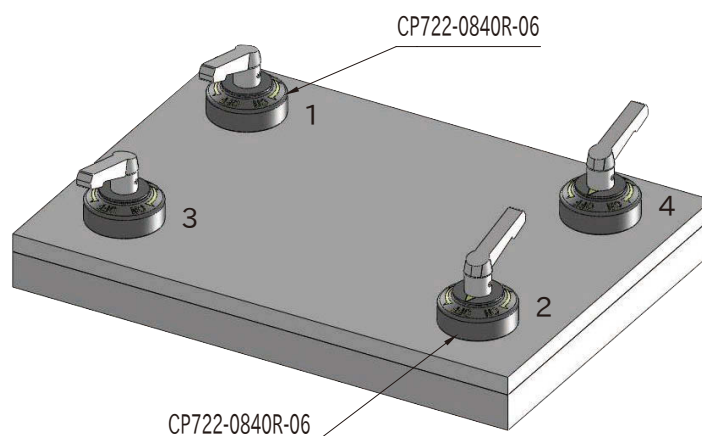
3. Turn the handle to "ON" mark for clamping.

*) Follow back these steps for unclamping.

*) Same operation for Knob style.

Tightening Order

1. Ensure the handle is positioned at "OFF" mark and lift down the fixture plate.
 2. Turn the handle and clamp in order of 1→2→3→4.
- *) For unclamping, ensure the handle is positioned at "OFF" mark and disassemble the fixture plate.

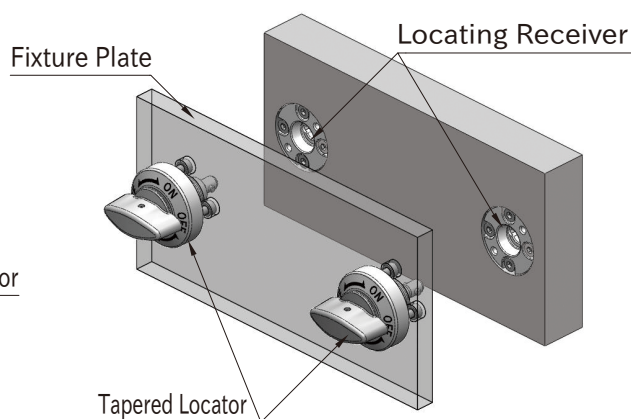
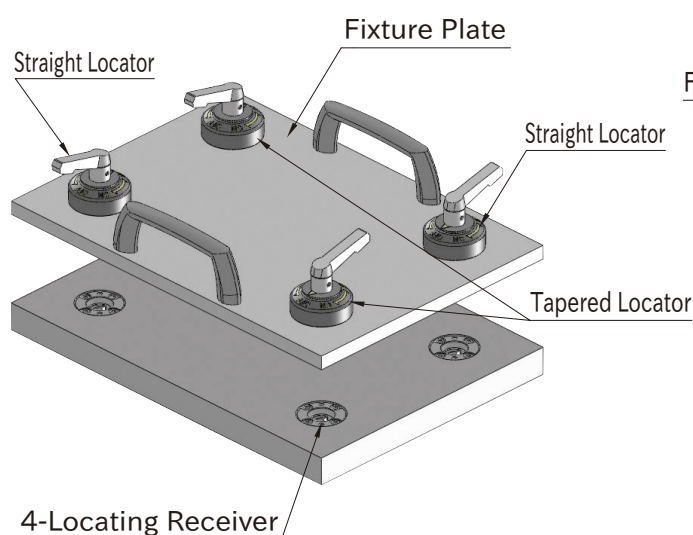


If the handles are not tightened in the correct order, the locating repeatability may exceed 10 μm .

How To Use

Horizontal Assembly of Fixture Plate

Vertical Assembly of Fixture Plate



Note: Ensure not to lift the fixture plate up and down with gripping the handle of the Locators.

Size		Horizontal Assembly		Vertical Assembly	
		Max. Loading Weight (kg)	Locating Repeatability	Max. Loading Weight (kg)	Locating Repeatability
CP723 CP727	0632R	12	10 μm	12	20 μm
CP722 CP723 CP727	0840R	40		40	

Note: These values shown above are when 2 pairs of tapered Locators and tapered Locating Receivers are used. When 4 pairs of tapered Locators and tapered Locating Receivers are used, the maximum loading weight is double the above values.

Note: The maximum loading weight is the entire sum of the weight of fixture plates, fixtures and workpieces.

Note: When used in excess of the maximum loading weight, the locating repeatability may exceed the above values.

Quarter Turn

Button Push

Twist Coupling

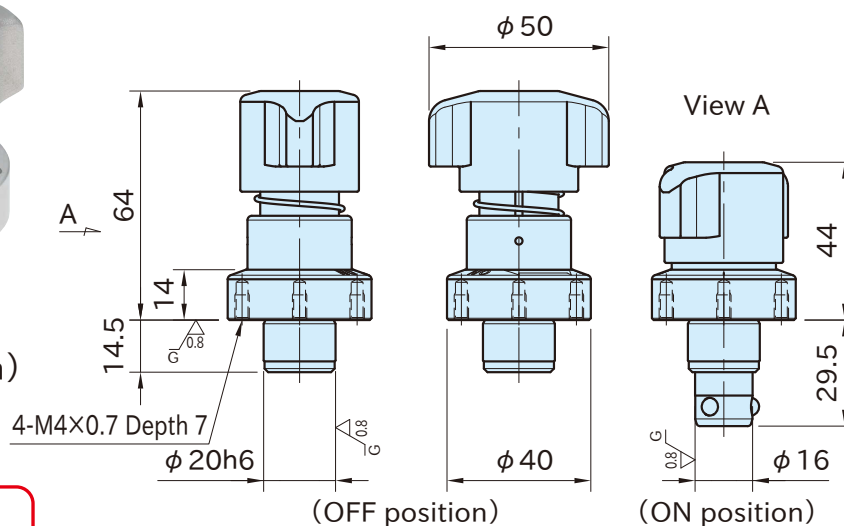
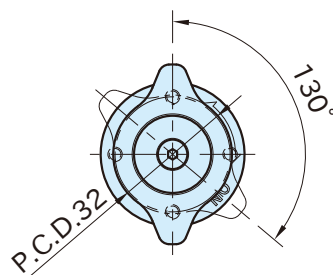
Push Pull

Locate & Clamp

RETRACTABLE ONE-TOUCH CLAMPING LOCATORS



(OFF position) (ON position)



★ Key Point

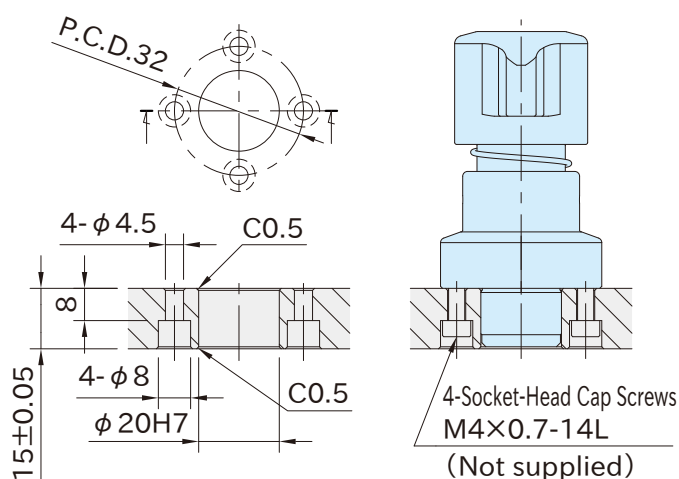
Retractable shaft allows sliding movement

Body	Shaft	Cam Shaft	Knob	Ball	Spring	
SUS303 stainless steel	Pre-hardened steel Electroless nickel plated	SCM415 steel Electroless nickel plated Carburized-hardened	SCS13 stainless steel (Equivalent to SUS304)	SUS440C stainless steel	Equivalent to SWOSC-V steel	SUS304WPB stainless steel

Part Number	Clamping Force (N)	Weight (g)	Locating Receivers
CP740-1640LA	2500	350	CP745-1640L,CP745-1640S

How To Use

■ Mounting Hole Dimension



Reference

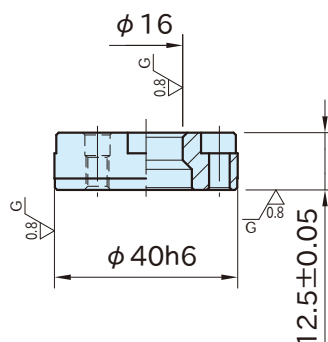
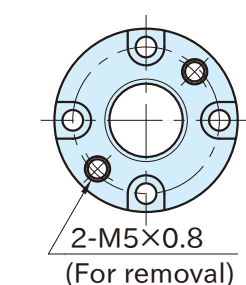
How To Use RETRACTABLE ONE-TOUCH CLAMPING LOCATORS



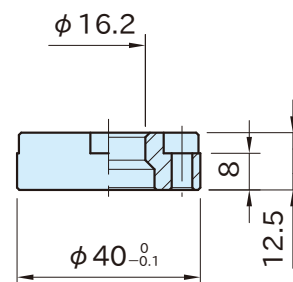
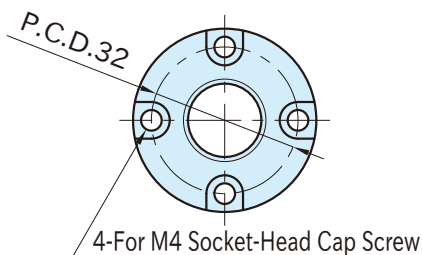
CP745-1640L
(Accurate)



CP745-1640S
(Standard)



CP745-1640L
(Accurate)



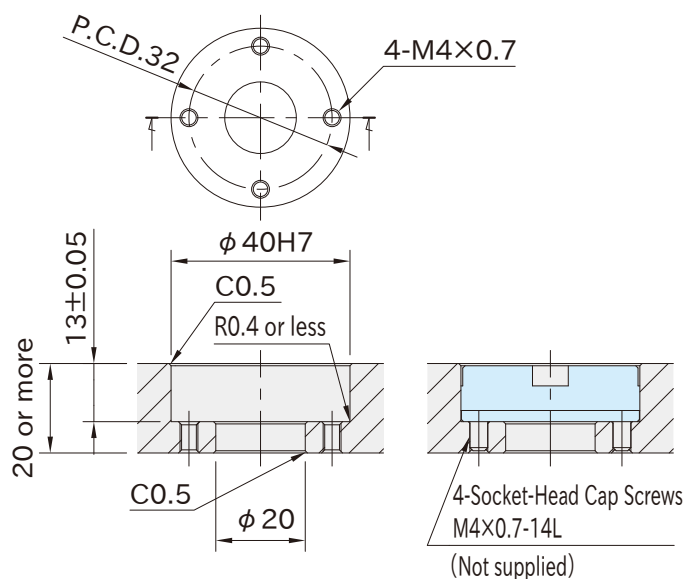
CP745-1640S
(Standard)

Part Number	Type	Weight (g)
CP745-1640L	Accurate	81
CP745-1640S	Standard	83

Body
SCM440 steel Electroless nickel plated Quenched and tempered

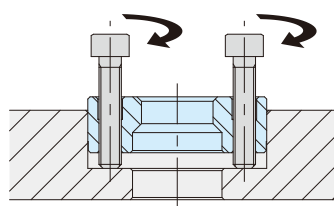
How To Use

■ Mounting Hole Dimension



■ How to Remove

For removal, insert screws into the tapped holes and screw it.



Related Product

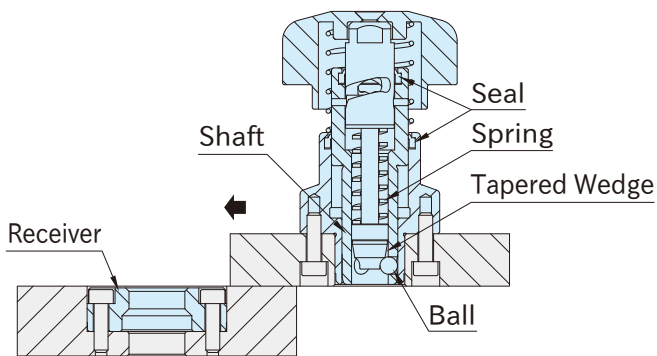
CP740 RETRACTABLE ONE-TOUCH CLAMPING LOCATORS

Reference

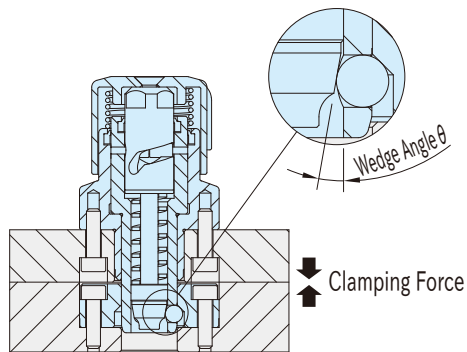
How To Use RETRACTABLE ONE-TOUCH FLEX LOCATORS

How To Use RETRACTABLE ONE-TOUCH CLAMPING LOCATORS

Feature



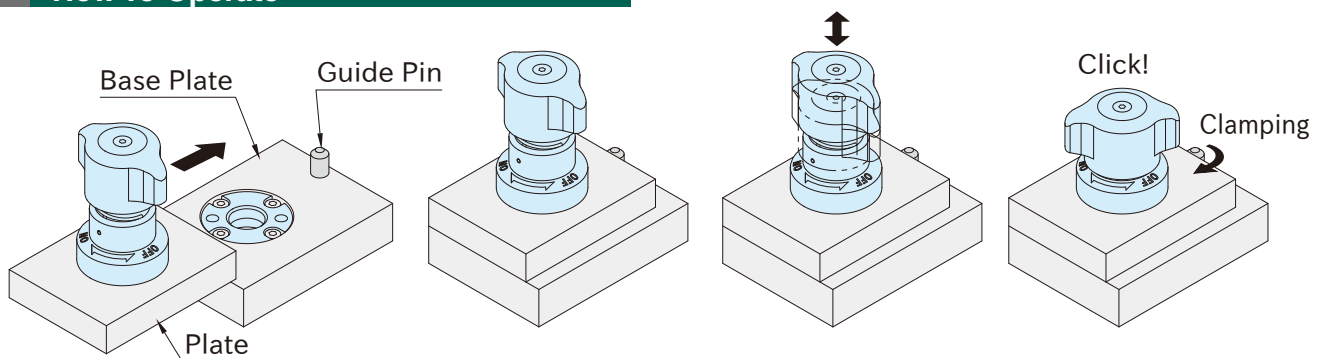
The shaft retracts at the unclamping position to enable operations without interference with the base plate.



The wedge of the locator pushes out the balls against the tapered surface of the receiver to clamp the two plates.

Provides constant clamping force with mechanical positive locking and spring force.

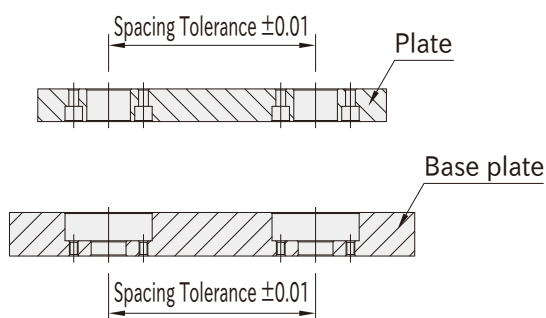
How To Operate



1. Ensure that the knob is positioned at the "OFF" mark.
2. Slide the plate to the guide pin.
3. Insert the locator pressing the knob. The plate is located.
4. Turn the knob to the "ON" mark for clamping. The knob clicks when clamped. Turning the knob to the "OFF" position, the shaft returns automatically to the unclamping position by the spring.

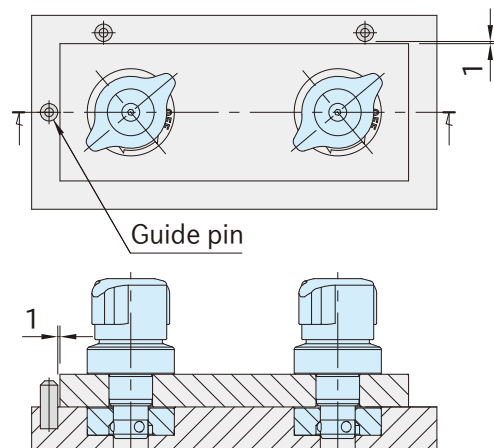
Accuracy

■ Machining Accuracy



■ Repeatability

Repeatability 20μm

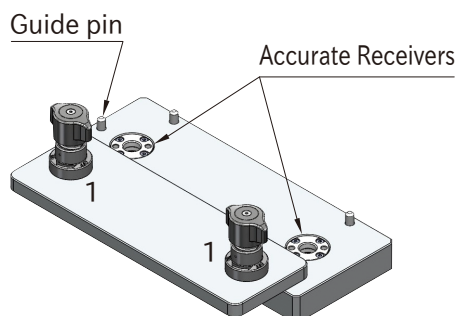


* Use guide pins for rough locating. The clearance between guide pin and plate should be 1 mm or less.

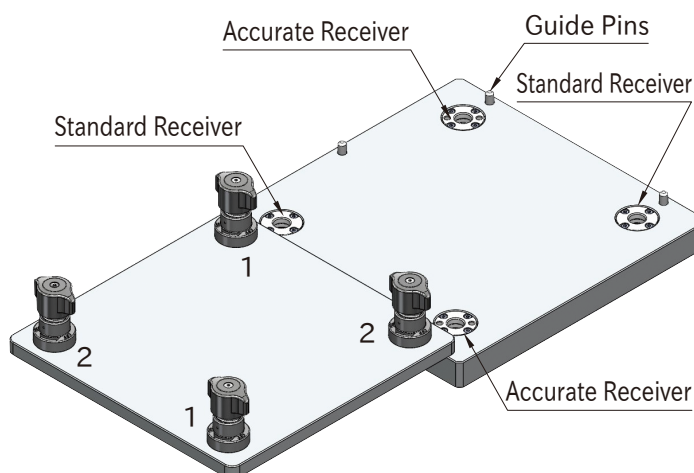
Tightening Order

1. Ensure that the knob is positioned at the “OFF” mark. Slide the plate to the guide pins.
2. Press down the knobs marked “1” to locate the plate.
3. Turn the knob and clamp in order of 1→2.

Use of 2 Locators



Use of 4 Locators



Quarter Turn

Button Push

Twist Coupling

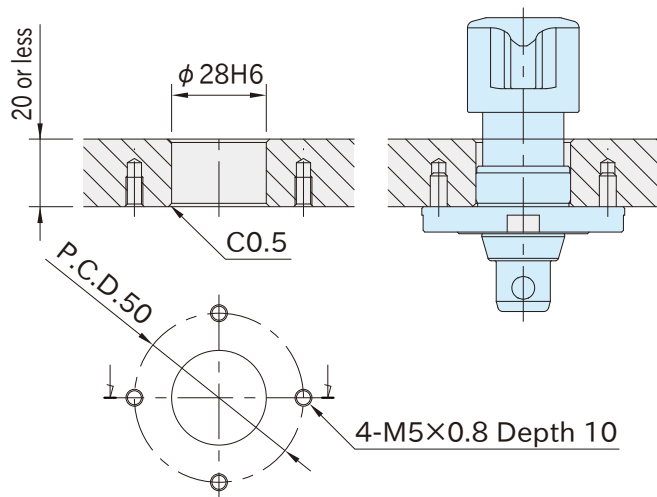
Push Pull

Locate & Clamp

Part Number	Style	Clamping Force (N)	Weight (g)	Locating Receivers
CP741-1660L	Tapered	3000	410	AMWF40-BU-T,AMWF40-BU-D
CP741-1660S	Straight		400	AMWF40-BU-S

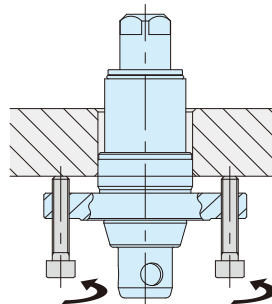
How To Use

■ Mounting Hole Dimension

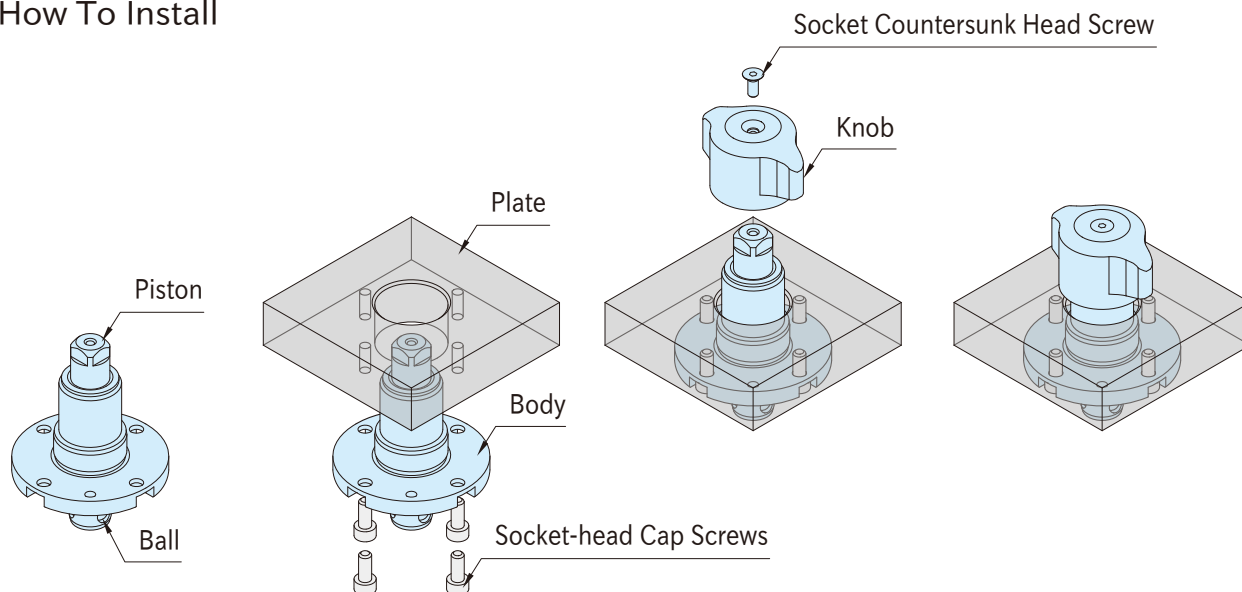


■ How to Remove

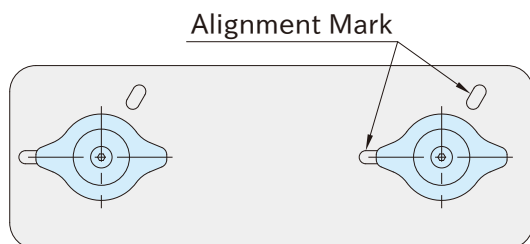
For removal, insert screws into the tapped holes and screw it.



■ How To Install



1. Ensure that the piston is in unclamping position and the balls are recessed.
2. Fix the body on the plate.
3. Assemble the knob.
4. The knob position can be changed by 90°.



Adding alignment marks at the clamping/unclamping positions helps to identify the operating status.

Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp



(Tapered Type)

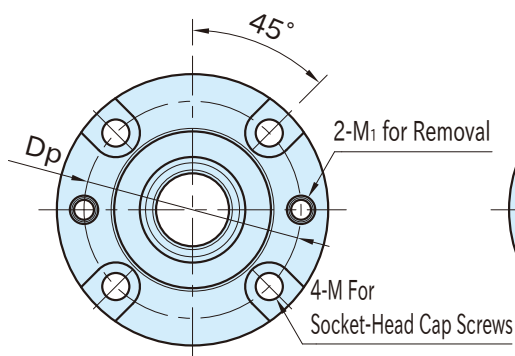
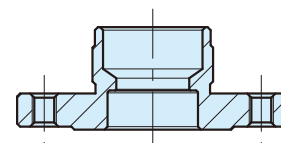
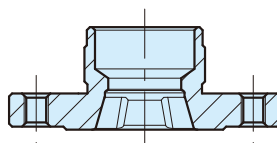
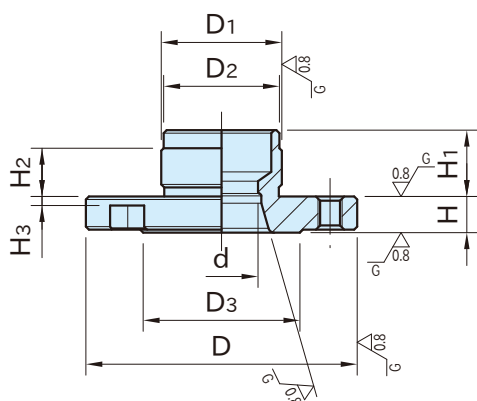


(Diamond Type)

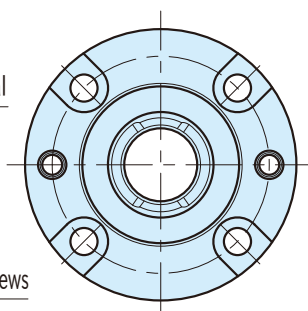


(Straight Type)

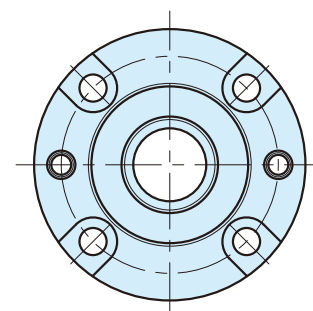
Body
SCM440 steel
Quenched & tempered
Black oxide finish
Precision ground



AMWF-BU-T
(Tapered Type)



AMWF-BU-D
(Diamond Type)



AMWF-BU-S
(Straight Type)

Size		D ₁ (g6)	H ₂	D ₂	H ₁	M	H ₃	D	D ₃	H (±0.003)	d (^{+0.15} _{+0.05})	M ₁	D _p
AMWF-BU-T	40	28	10	27.5	15	M5	2.5	60	38	8	16	M5×0.8	50
AMWF-BU-D													
AMWF-BU-S	50	36	14	35.5	19	M6	3.5	75	48	10	20	M6×1	62

AMWF-BU-T (Tapered Type)

Part Number	Weight (g)
AMWF40-BU-T	160
AMWF50-BU-T	323

AMWF-BU-D (Diamond Type)

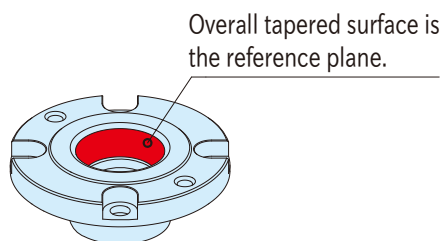
Part Number	Weight (g)
AMWF40-BU-D	159
AMWF50-BU-D	322

AMWF-BU-S (Straight Type)

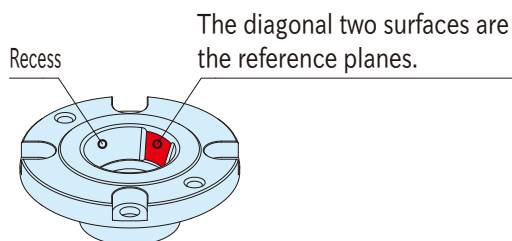
Part Number	Weight (g)
AMWF40-BU-S	163
AMWF50-BU-S	330

Feature**Function**

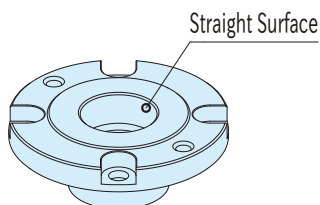
Locating with Tapered Type
For setting reference position



Locating with Diamond Type
For locating reference at rotational direction



Clamping with Straight Type

**Related Product**

- **AMWF-W** PNEUMATIC CLAMPING LOCATORS
- **CP741** PRECISION ONE-TOUCH CLAMPING LOCATORS

Reference

- How To Use PNEUMATIC FLEX LOCATORS
- How To Install PNEUMATIC FLEX LOCATORS
- How To Use PRECISION ONE-TOUCH CLAMPING LOCATORS

Quarter Turn

Button Push

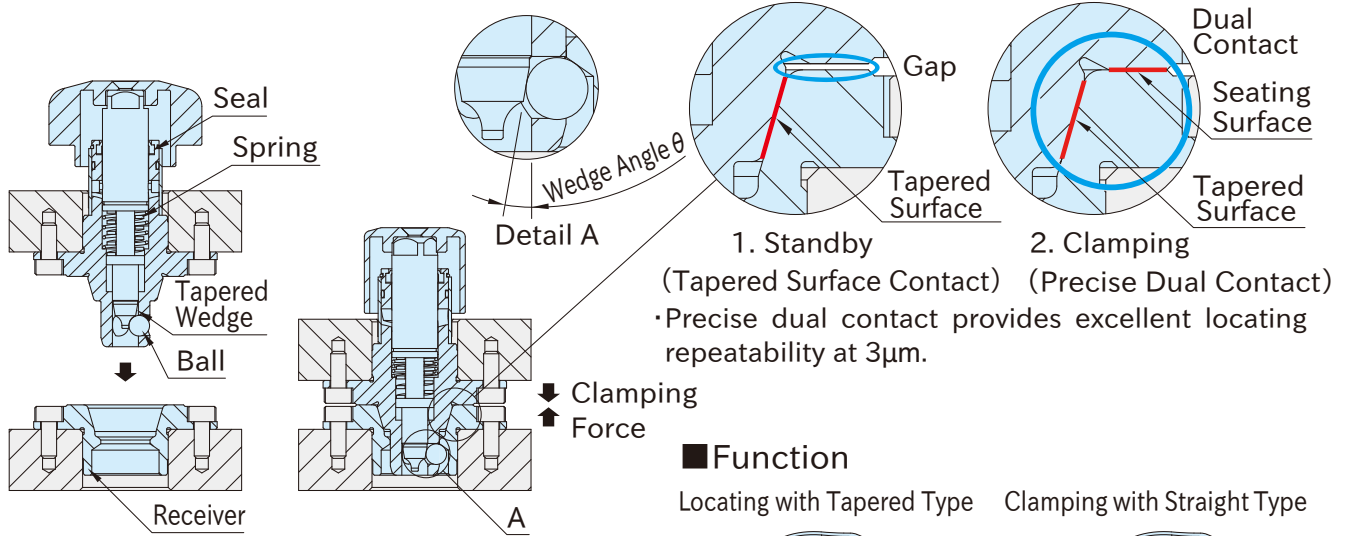
Twist Coupling

Push Pull

Locate & Clamp

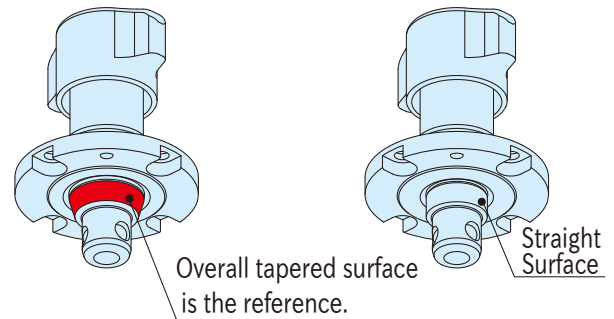
How To Use PRECISION ONE-TOUCH CLAMPING LOCATORS

Feature



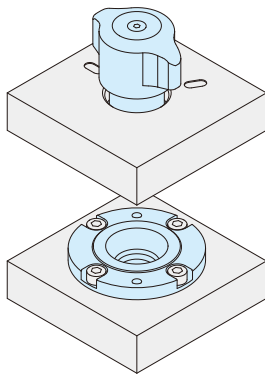
Function

Locating with Tapered Type Clamping with Straight Type

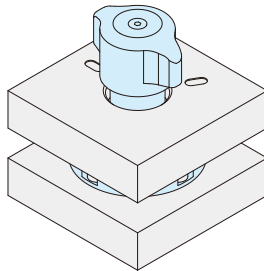


- Positioning is achieved through the tapered fit between the pin and receiver.
 - The wedge of the locator pushes out the balls against the tapered surface of the receiver to clamp the two plates.
 - Provides constant clamping force with mechanical positive locking and spring force.
- Note: CP741-1660S does not have locating function.

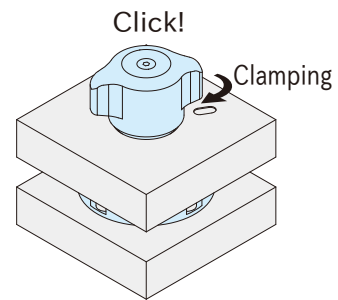
How To Operate



1. Ensure that the knob is in the unclamping position.



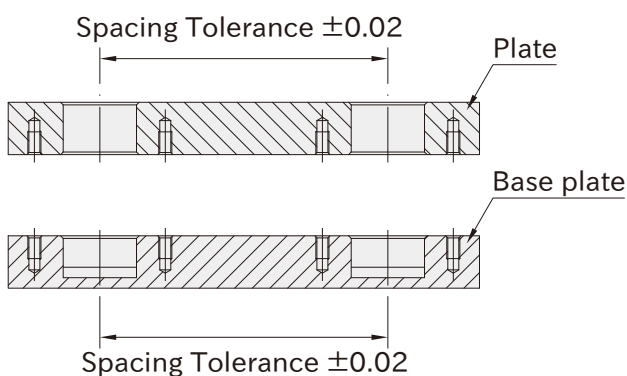
2. Insert the locator in the receiver.



3. Turn the knob to the clamping position. The knob clicks when it is clamped. For unclamping, follow back these steps.

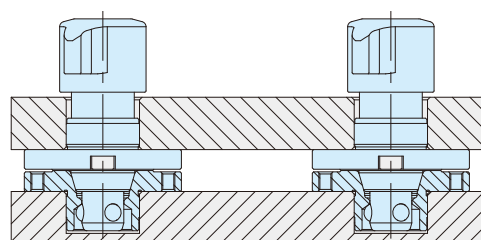
Accuracy

Machining Accuracy



Repeatability

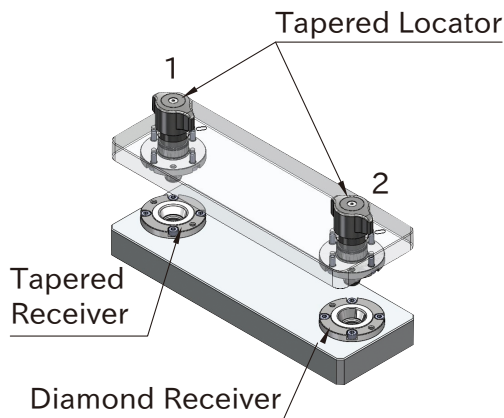
Repeatability 3μm



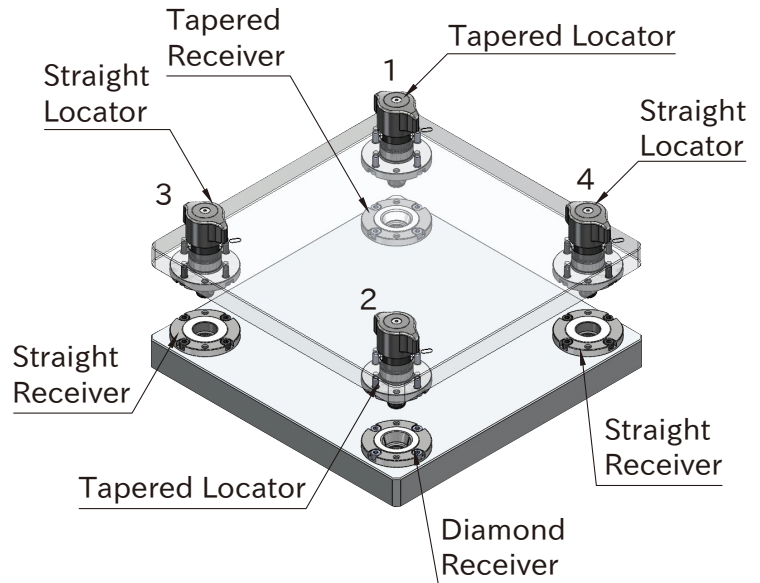
Tightening Order

1. Ensure the knob is in the unclamping position and lower the plate.
2. Turn the knobs to the clamping position in the order of 1→2→3→4 and clamp them.

Use of 2 Locators



Use of 4 Locators



Note: Do not use the knobs to lift or lower the plate.

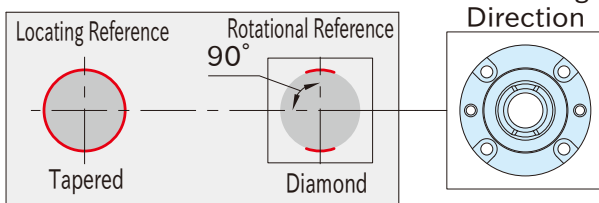
How To Use

Layout of Receivers

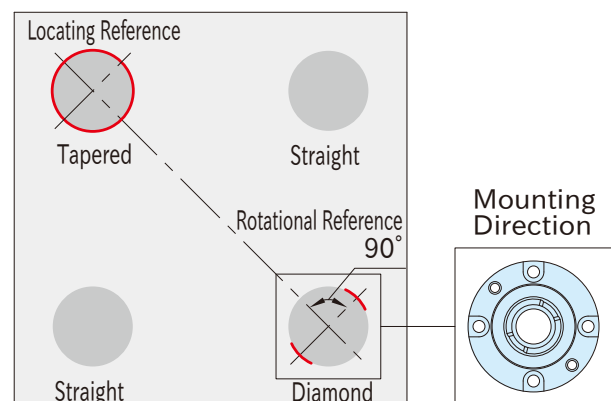
Mount the tapered receiver and diamond receiver as shown in the figure below.

The orientation of the diamond receivers changes between 2-point and 4-point clamping to ensure proper rotational positioning.

Use of 2 Locators



Use of 4 Locators



Quarter Turn

Button Push

Twist Coupling

Push Pull

Locate & Clamp

CP731

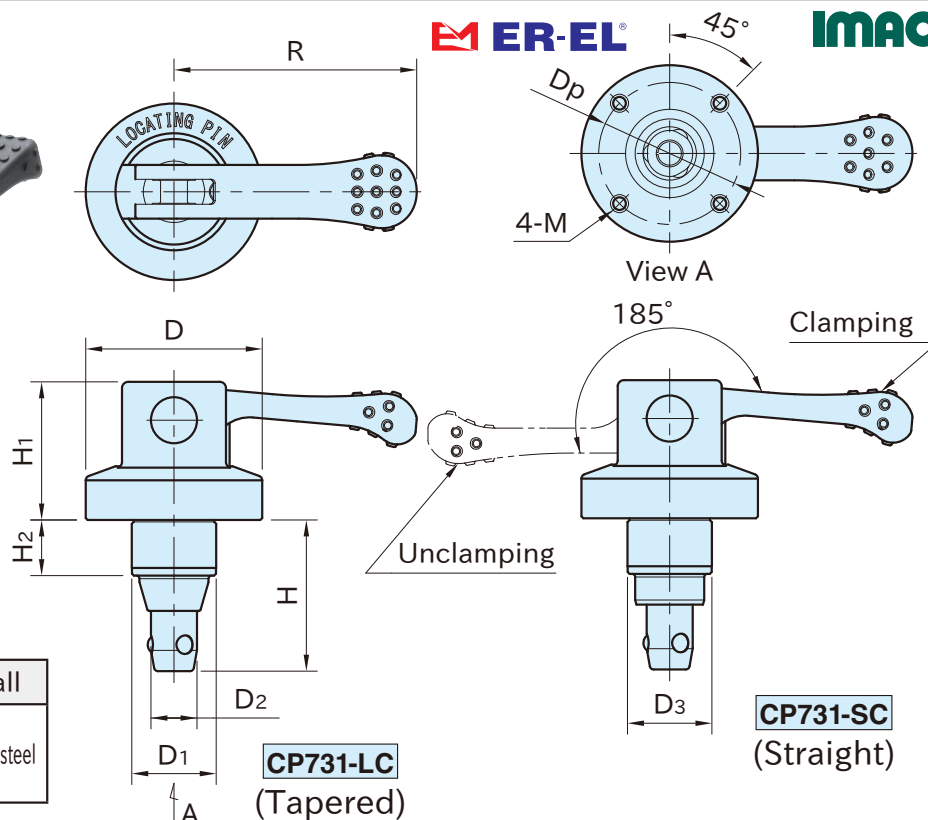
ONE-TOUCH CLAMPING LOCATORS



CP731-LC
(Tapered)

CP731-SC
(Straight)

Body	Cam Handle	Ball
SCM440 steel Nitrocarburized	SCM440 steel Black oxide finished Quenched & tempered	SUJ2 steel



CP731-LC
(Tapered)

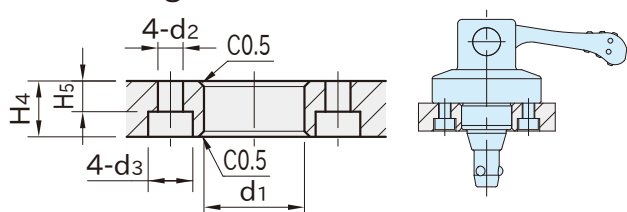
CP731-SC
(Straight)

Part Number	D ₁ (g6)	D ₃ (^{-0.02} _{-0.06})	H ₂	D	H ₁	D ₂	H	M	Dp	R	Cam Handle
CP731-0939LC	18	—	9.5	39	30	9	30	M4×0.7 Depth 6	30	50	QLCA-05
CP731-0939SC	—	18									
CP731-1246LC	22	—	14.5	46	36	12	40		37	63	QLCA-06
CP731-1246SC	—	22									
CP731-1656LC	28	—	19.5	56	42	16	51	M5×0.8 Depth 7	45	80	QLCA-08
CP731-1656SC	—	28									

Part Number	Clamping Force (N)	Operating Load (N)	Weight (g)	Locating Receivers
CP731-0939LC	600	60	191	CP735-0939L
CP731-0939SC			189	CP735-0939S
CP731-1246LC	1200	130	297	CP735-1246L
CP731-1246SC			294	CP735-1246S
CP731-1656LC	1800	160	654	CP735-1656L
CP731-1656SC			648	CP735-1656S

How To Use

■ Mounting Hole Dimension



Size	d ₁ (H7)	H ₄ (±0.05)	d ₂	H ₅	d ₃
CP731-0939	18	10	4.5	5	8
CP731-1246	22	15		10	
CP731-1656	28	20	5.5	14	10

Supplied With

- **CP731-0939**: Four pieces of hex. socket-head cap screws M4×0.7-10L
- **CP731-1246**: Four pieces of hex. socket-head cap screws M4×0.7-15L
- **CP731-1656**: Four pieces of hex. socket-head cap screws M5×0.8-20L

Reference

How To Use ONE-TOUCH FLEX LOCATORS
(Hexagon Head / Cam Handle)

CP730

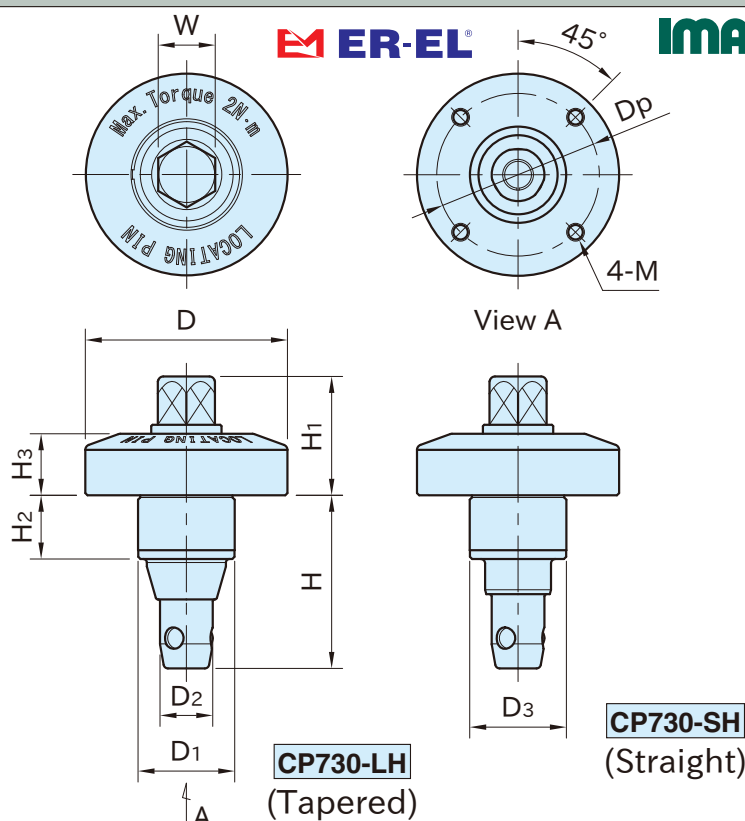
HEAVY DUTY ONE-TOUCH CLAMPING LOCATORS



CP730-LH
(Tapered)

CP730-SH
(Straight)

Body	Clamping Screw	Ball
SCM440 steel Nitrocarburized	SCM435 steel Black oxide finished Quenched & tempered	SUJ2 steel



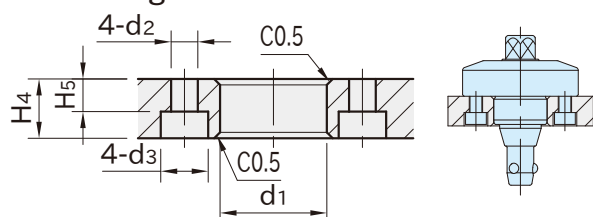
Part Number	D ₁ (g6)	D ₃ (^{-0.02} _{-0.06})	H ₂	D	H ₁	H ₃	D ₂	H	W	M	Dp
CP730-0939LH	18	—	9.5	39	22	12	9	30	10	M4×0.7 Depth 6	30
CP730-0939SH	—	18									
CP730-1246LH	22	—	14.5	46	27	14	12	40	13		37
CP730-1246SH	—	22									
CP730-1656LH	28	—	19.5	56	34	16	16	51	17	M5×0.8 Depth 7	45
CP730-1656SH	—	28									

Part Number	Clamping Force (N)	Allowable Screw Torque (N·m*)	Weight (g)	Locating Receivers
CP730-0939LH	1700	2	134	CP735-0939L
CP730-0939SH			133	CP735-0939S
CP730-1246LH	3000	4	241	CP735-1246L
CP730-1246SH			239	CP735-1246S
CP730-1656LH	4500	7	457	CP735-1656L
CP730-1656SH			453	CP735-1656S

*)Do not apply greater torque than allowable screw torque.
Do not use a power tool (impact wrench etc.) to turn the hex head, for damage prevention.

How To Use

■ Mounting Hole Dimension



Supplied With

- CP730-0939: Four pieces of hex. socket-head cap screws M4×0.7-10L
- CP730-1246: Four pieces of hex. socket-head cap screws M4×0.7-15L

Size	d ₁ (H7)	H ₄ (±0.05)	d ₂	H ₅	d ₃
CP730-0939	18	10	4.5	5	8
CP730-1246	22	15		10	
CP730-1656	28	20		14	

Reference

How To Use ONE-TOUCH FLEX LOCATORS
(Hexagon Head / Cam Handle)

Related Product

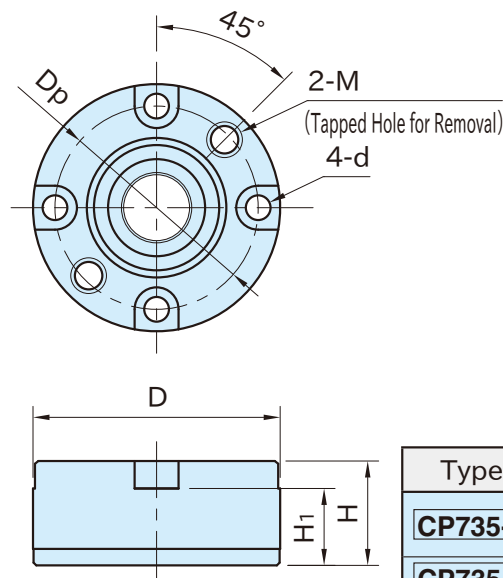
CP-TCW ADJUSTABLE-TORQUE WRENCHES are available for tightening.



(Tapered Type)



(Straight Type)



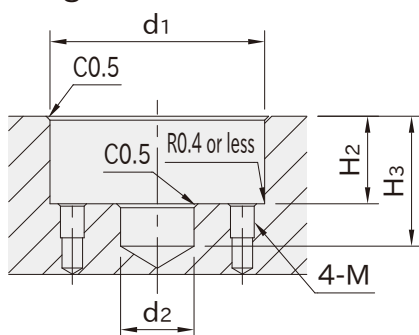
Type	Body	Tapered Bushing
CP735-L	SCM440 steel Black oxide finished	SCM440 steel Nitrocarburized
CP735-S	Quenched & tempered	—

Part Number	Type	D (g6)	H	d	H ₁	D _p	M	Lifting Force (N)*	Weight (g)
CP735-0939L	Tapered	38	15	4.5	10	30	M5×0.8	300	100
CP735-0939S	Straight							—	101
CP735-1246L	Tapered	45	19	4.5	14	37	M6×1	450	179
CP735-1246S	Straight							—	184
CP735-1656L	Tapered	55	24	5.5	18	45	M6×1	680	337
CP735-1656S	Straight							—	341

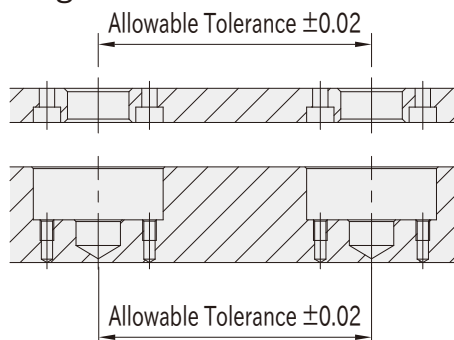
*) The lifting force is the power of the inner spring of the body to push up the movable tapered bushing.
For maximum loading weight and locating repeatability, see How To Use ONE-TOUCH FLEX LOCATORS (Hexagon Head / Cam Handle).

How To Use

■ Mounting Hole Dimension



■ Spacing Tolerance



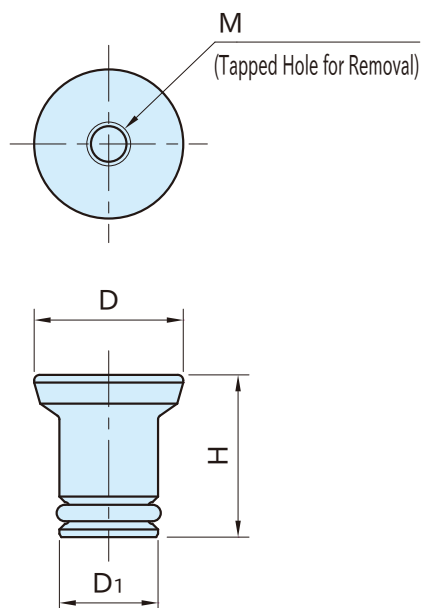
Size	d ₁ (H7)	H ₂ (±0.05)	d ₂	H ₃	M
CP735-0939	38	15.5	13	23	M4×0.7
CP735-1246	45	19.5	16	28	
CP735-1656	55	24.5	20	34	M5×0.8

Related Product

- **CP730** HEAVY DUTY ONE-TOUCH CLAMPING LOCATORS
- **CP731** ONE-TOUCH CLAMPING LOCATORS
- **CP735-P** PROTECTIVE COVERS

Reference

How To Use ONE-TOUCH FLEX LOCATORS
(Hexagon Head / Cam Handle)



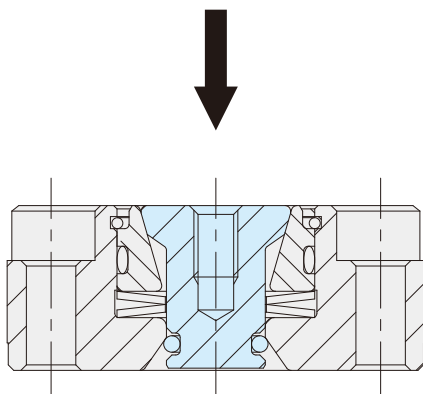
Body	O-Ring
A5052 aluminum Red	NBR nitrile rubber

Part Number	D	H	D ₁	M	Weight (g)	Locating Receivers	
CP735-0939P	13.5	15	9	M4×0.7	3	CP735-0939L	CP735-0939S
CP735-1246P	17	19	12		6	CP735-1246L	CP735-1246S
CP735-1656P	23	22.5	16	M5×0.8	14	CP735-1656L	CP735-1656S

How To Use

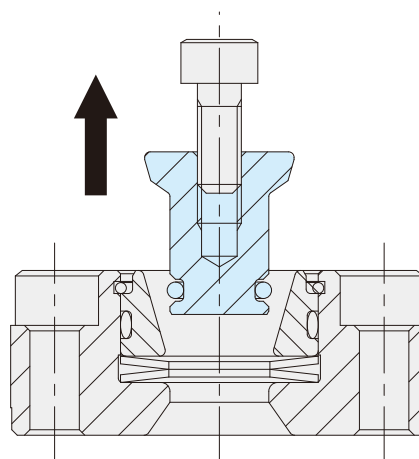
■ How to Install

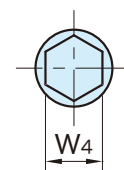
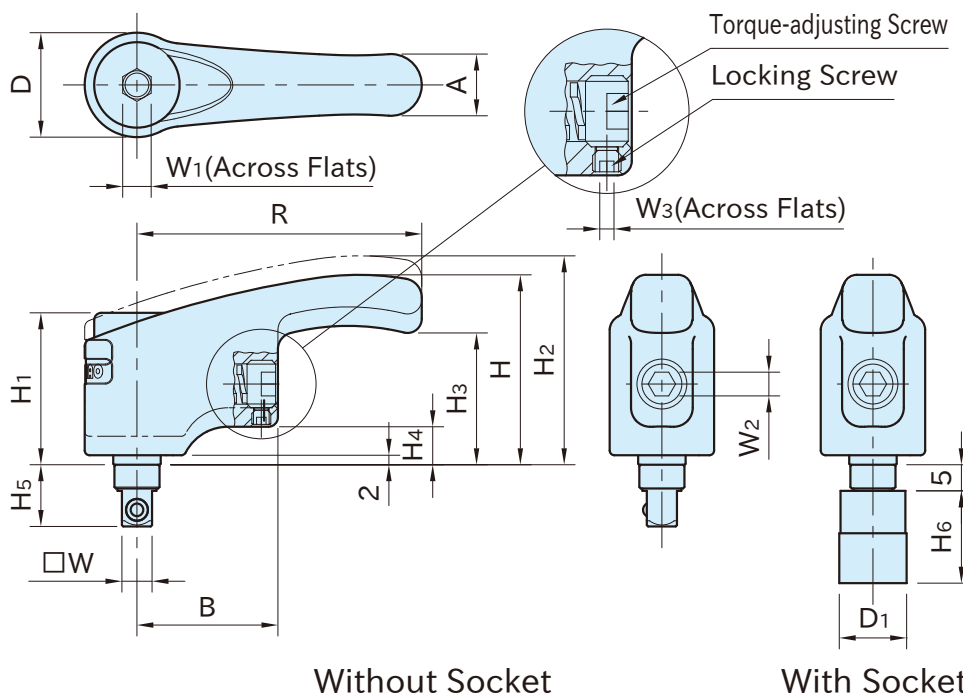
Insert the product to the center hole of the Locating Receivers and use it as a protective cover.



■ How to Remove

Insert a screw into the tapped hole and pull it out.





Type	Handle	Ratchet	Adapter	Socket
CP-TCW	SCM440 steel Quenched & tempered Painted Orange	SCM415 steel Carburized-hardened Black oxide finished	SCM435 steel Quenched & tempered Black oxide finished	—
CP-TCW-S				Cr-V chrome-vanadium steel Chrome plated

Size	W	R	H	D	H ₁	H ₂	H ₃	H ₄	H ₅	A	B	W ₁	W ₂	W ₃
CP-TCW 6	6.3	60	40	22	32	44	27.5	8	13	13	30	6	5	2
CP-TCW 8		75	48	26	38	52.5	33	9		15	37	8	6	2.5
CP-TCW-S 10	9.5	90	57	32	45	62.5	39.5	10.5	16.5	18	39	10	6	2.5

Size	Torque Range (N·m)
CP-TCW 6	1~3.5
CP-TCW 8	2~5.4
CP-TCW-S 10	3~8

Without Socket

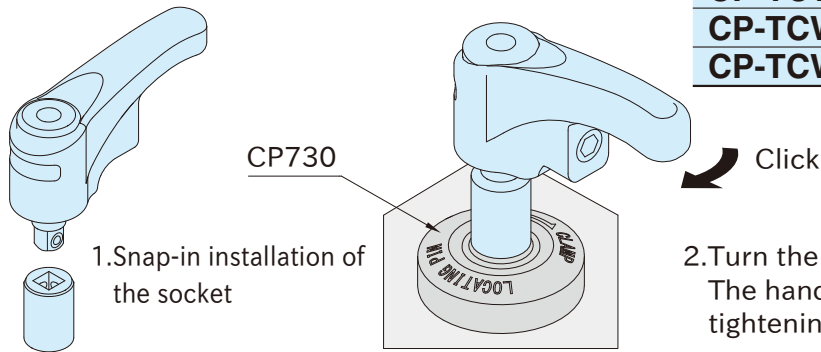
Part Number	Weight (g)
CP-TCW 6	166
CP-TCW 8	284
CP-TCW10	467

With Socket

Part Number	W ₄	D ₁	H ₆	Weight (g)
CP-TCW 6-S	10	13.8	25	183
CP-TCW 8-S	13	17.8		314
CP-TCW10-S	17	23.8	30	529

How To Use

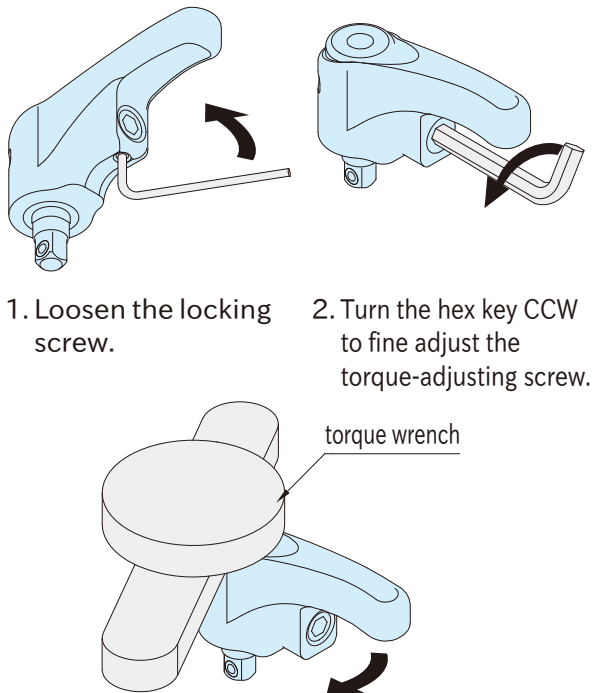
Can be used as a tightening tool for **CP730**
HEAVY DUTY ONE-TOUCH CLAMPING LOCATORS.



2. Turn the handle to clamp.
The handle clicks to indicate completed tightening at desired torque.

How To Set Torque

The preset torque is roughly set to its maximum tightening torque.

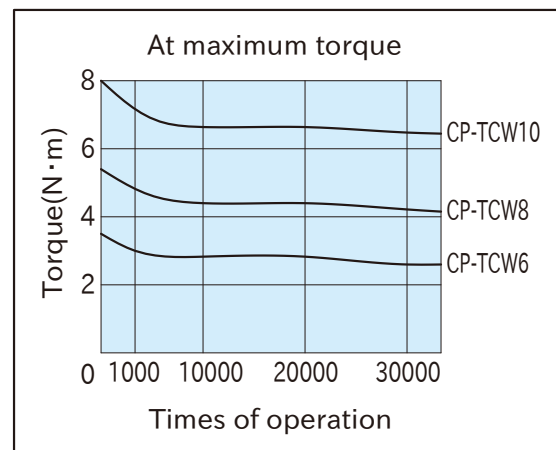


3. Measure the torque with a torque wrench.
 - Connect a torque wrench on the Adjustable-Torque Wrench.
 - Turn the handle in the tightening direction and fine adjust the depth of torque-adjusting screw to reach to the handle clicking position at desired torque.

Technical Information

- For initial several thousand operations, the tightening torque will decrease. (See the graph below)
Measure the torque regularly, and fine adjust the depth of torque-adjusting screw as needed.
- The tightening torque can vary. (Max. $\pm 15\%$)
Not recommended for precise torque management.

Torque Performance Graph



Note

- Do not overtighten or overloosen the torque-adjusting screw.

Reference Torque Adjusting Range

Size		Rotation
CP-TCW	6	3/4
	8	1
CP-TCW-S	10	3/4

Minimum torque position
tightening end with
roughly detectable touch

- To reach approx. the min torque, loosen the torque adjusting screw to the same end surface level of the body, then tighten it until you feel light touch of stop. (Ensure that the torque adjusting screw does not protrude from the body when loosening it.)
- To reach approx. the max torque, rotate the torque adjusting screw depending on the above table from the approx. min torque as instructed previously.

Reference

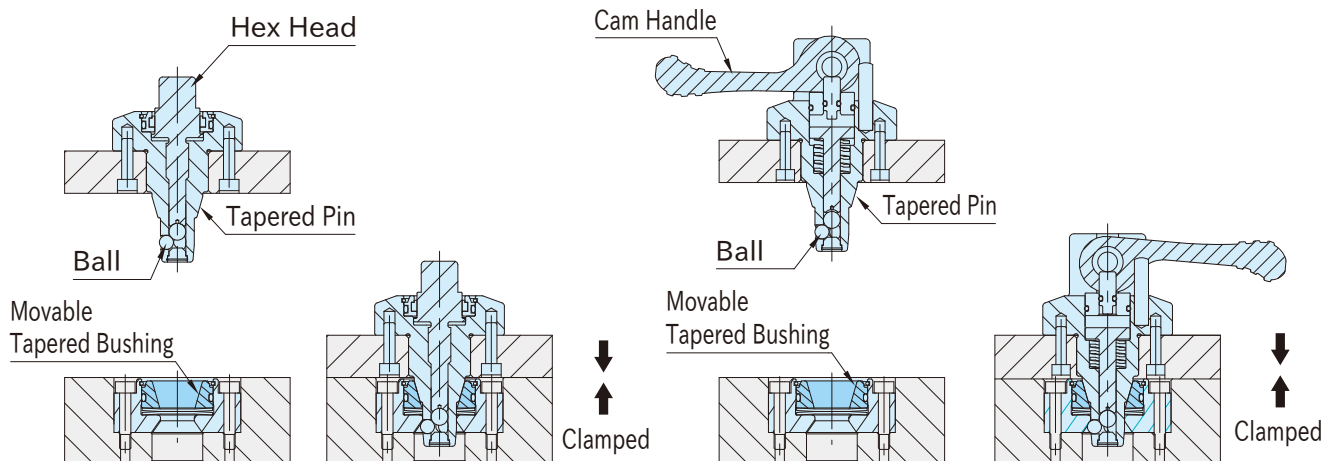
See **ATCL** ADJUSTABLE-TORQUE HANDLES page for further information.

Related Product

CP730 HEAVY DUTY ONE-TOUCH CLAMPING LOCATORS

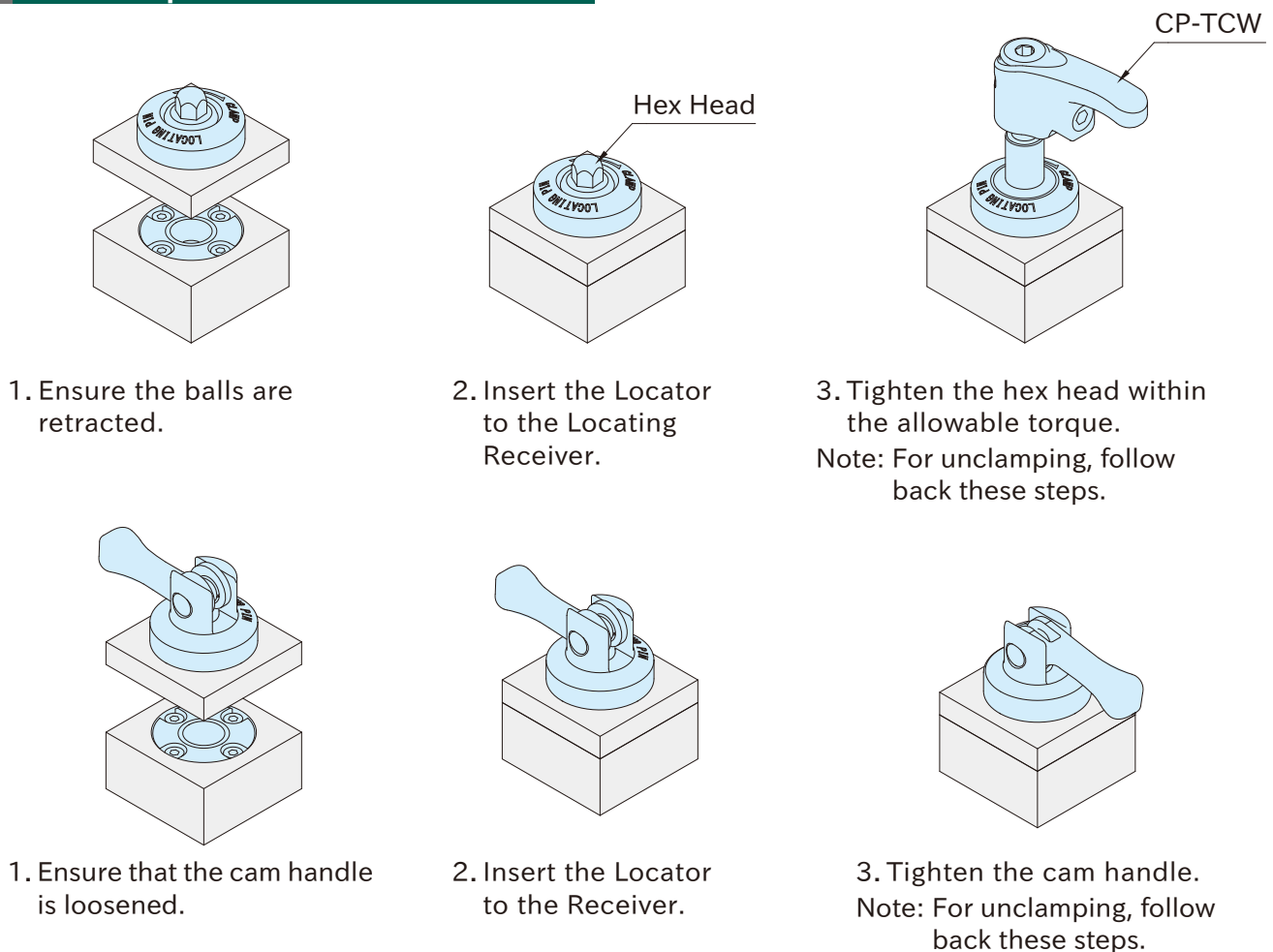
How To Use ONE-TOUCH FLEX LOCATORS (Hexagon Head / Cam Handle)

Feature

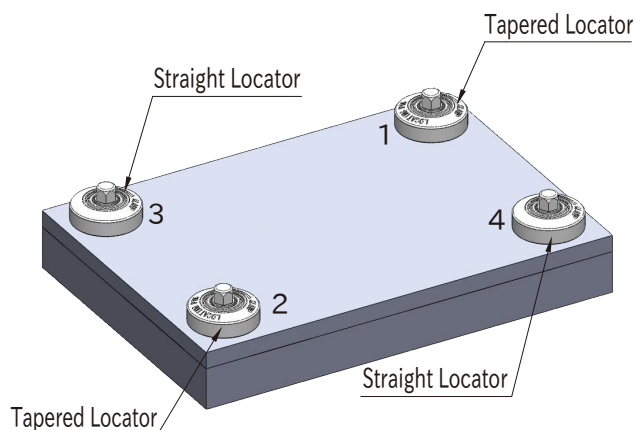


- Fitting of the tapered surfaces ensures precise positioning.
 - Turning the hex head/cam handle pushes the balls outward, engaging the tapered pin with the locating receiver. This compresses the spring-loaded floating bushing, ensuring a secure contact between the plate surfaces.
 - Hex head type requires 2 turns to complete clamping.
- Straight pin locator and straight bushing receiver have no locating function and are for clamping only.

How To Operate



Tightening Order



CP730

1. Ensure that each plate is in close contact. *)
 2. Tighten the Locator temporarily in order of 1→2→3→4.
For temporary tightening, the tightening torque should be approximately 50% of the final tightening.
 3. Tighten the Locator finally in order of 1→2→3→4.
- *) The fixture plate may be pushed up by the lifting force of the tapered Receiver. In such cases, tighten the Locator loosely in order of 1→2→3→4, and make the each plate be in close contact with each other. Then tighten the Locator temporarily. For the lifting force, see the measurement table of **CP735 LOCATING RECEIVERS**.

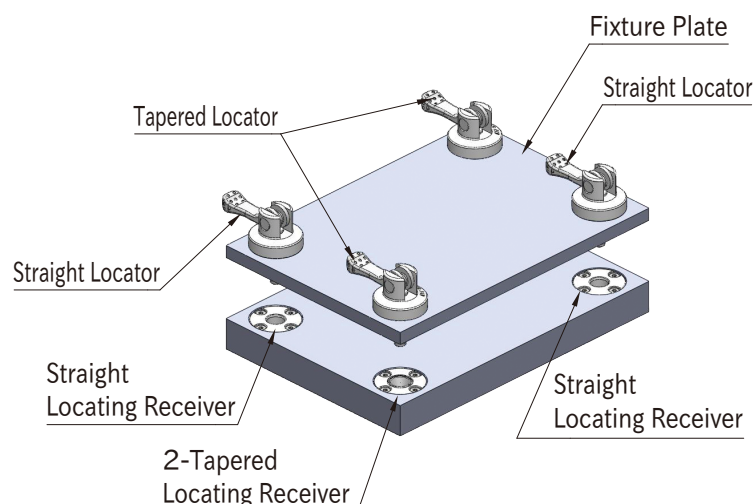
CP731

- Tighten the cam handles in order of 1→2→3→4.

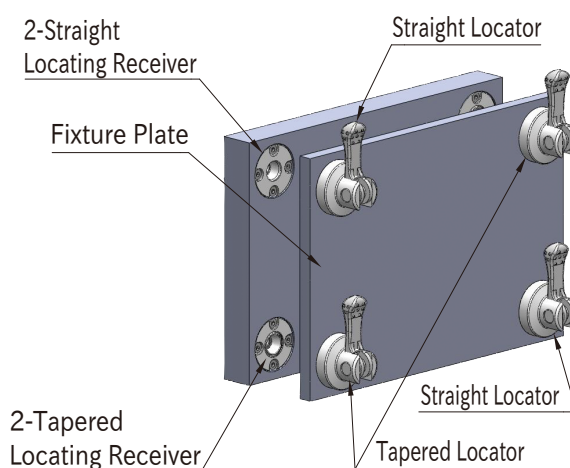
If the Locator are not tightened in the correct order, the locating repeatability may exceed 8 μm.

How To Use

■ Horizontal Assembly



■ Vertical Assembly



Use tapered or straight Locator and Locating Receiver as a set.

Note: Ensure not to lift the fixture plate up and down with gripping the cam handle of the Locators.

Size		Horizontal Assembly		Vertical Assembly	
		Max. Loading Weight (kg)	Locating Repeatability	Max. Loading Weight (kg)	Locating Repeatability
CP730 CP735	0939	120	8μm	40	10μm
	1246	180		60	
	1656	280		100	
CP731 CP735	0939	120		25	
	1246	180		40	
	1656	280		60	

Note: These values shown above are when 2 pairs of tapered Locators and tapered Locating Receivers are used. When 4 pairs of tapered Locators and tapered Locating Receivers are used, the maximum loading weight is double the above values.

Note: The maximum loading weight is the entire sum of the weight of fixture plates, fixtures and workpieces.

Note: When used in excess of the maximum loading weight, the locating repeatability may exceed the above values.



Bağlama ekipmanlarında kalite üretiliyoruz..
We produce quality in clamping equipment..

www.er-el.com.tr

IMAO CORPORATION

www.imao.com/en

2002 Senbiki, Seki, Gifu 501-3954, Japan

Tel : +81 575 28 5823