

# QCWE

# KNOB-LOCKING CLAMPS



Stainless Steel

Electroless Nickel Plated



QCWE



QCWE-S  
(OFF position)

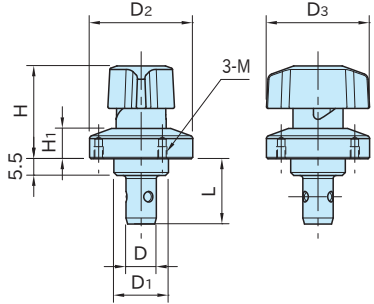
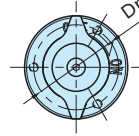


QCWE-SUS



QCWE

(ON position)



### ★ Key Point

Secure clamping with wedge

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

Size	Proper Plate Thickness	D (-0.05 / -0.10)	D <sub>1</sub> (h9)	D <sub>2</sub>	D <sub>3</sub>	L	H	H <sub>1</sub>	M	D <sub>p</sub>	Clamping Force(N)	Proper Receptacle	
QCWE	0625-10	6~10	6	14	25	25	19.5	24.5	6.5	M2×0.4 Depth 3	21	30	QCBU0608-M12 QCBU0608-M12SUS
QCWE-S													
QCWE-SUS	1034-14	6~14	10	18	34	34	21.5	31	10	M3×0.5 Depth 4	28	50	QCBU1012-M16 QCBU1012-M16SUS
	1034-20	12~20					27.5						

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

### QCBU-M

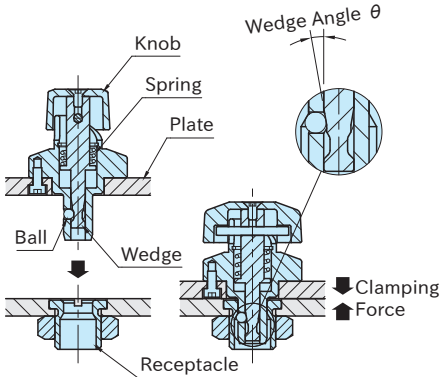
### BALL-LOCK RECEPTACLES



### Supplied With

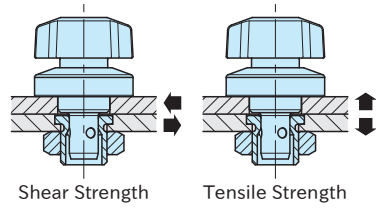
- QCWE QCWE-S QCWE-SUS 0625-10 :  
3 of socket-head cap screws(stainless steel), M2×0.4-5L
- QCWE QCWE-S QCWE-SUS 1034-14, 1034-20 :  
3 of socket-head cap screws(stainless steel), M3×0.5-6L

## Feature



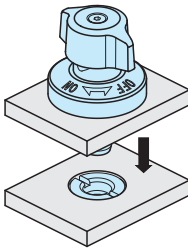
The wedge of the locking pin pushes out the ball onto the taper of the receptacle, for clamping of the two plates.

## Technical Information

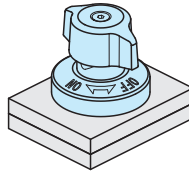


Size		Heatresistant Temperature(C)	Shear Strength (N)	Tensile Strength (N)
QCWE	0625-10	130	3000	500
	1034-14		9000	1500
	1034-20			
QCWE-S	0625-10	200	3000	500
QCWE-SUS	1034-14		9000	1500
	1034-20			

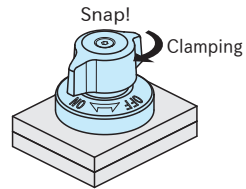
## How To Use



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



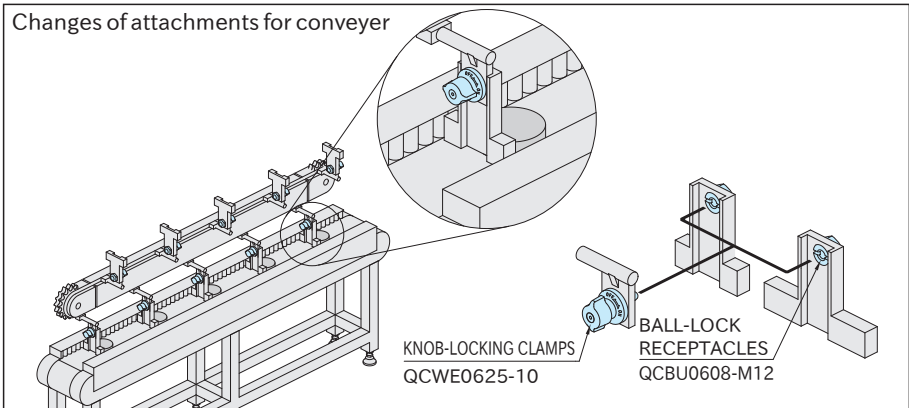
2. Insert the Knob-Locking Clamp.



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

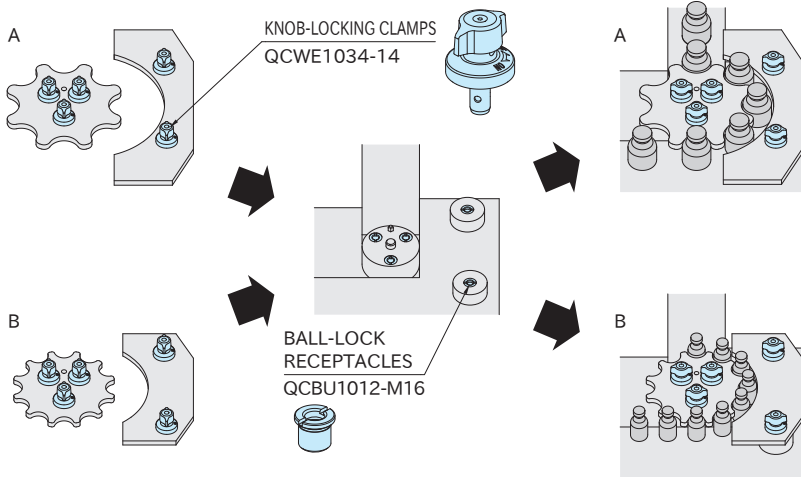
## Application Example

Changes of attachments for conveyer

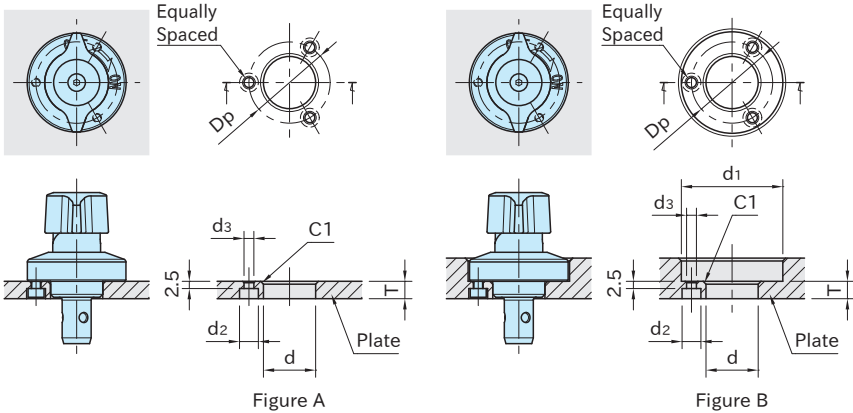


## Application Example

### Changes of star wheels and guide plates



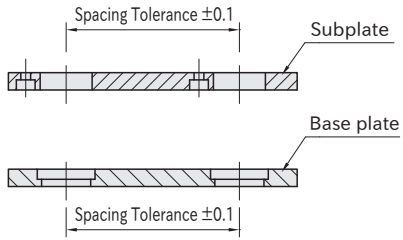
## How To Install



Size	Proper Plate Thickness	Figure	$d$ ( $+0.10$ / $+0.05$ )	$d_1$	$T$ ( $\pm 0.2$ )	$d_2$	$d_3$	$D_p$
QCWE 0625-10	6	A	14	—	6	4.4	2.4	21
	Over 6, 10 or less	B		26				
QCWE-S 1034-14	6	A	18	—	6	6.5	3.4	28
	Over 6, 14 or less	B		35				
QCWE-SUS 1034-20	12	A	18	—	12	6.5	3.4	28
	Over 12, 20 or less	B		35				

## Accuracy

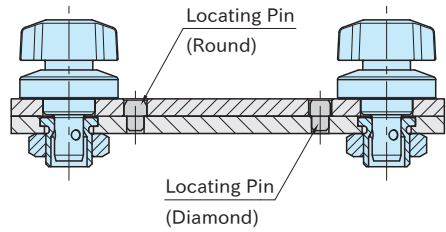
### ■ Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be  $\pm 0.1$ .

### ■ Repeatability

Repeatability  $\pm 0.25$



For higher accurate locating, use locating pins.