QCWE KNOB-LOCKING PINS

RoHS Stainless Steel

Wedge

IMAO

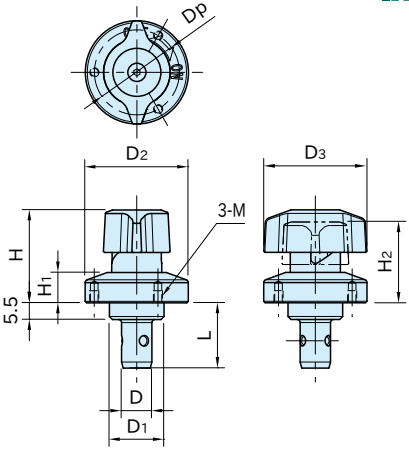


QCWE
(Plastic Knob)



Stainless Steel

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 $(^{-0.05}_{-0.10})$	D_1 (h9)	D_2	D_3	L	H	H_1	H_2	M	Dp	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 0.1mm between plates.

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

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

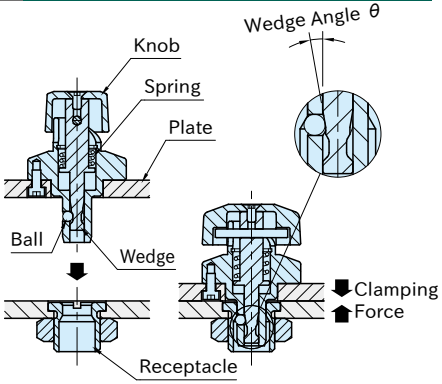
- QCWE QCWE-SUS 0625-10:
  3 of socket-head cap screws(stainless steel), M2×0.4-5L
- QCWE QCWE-SUS 1034-14、1034-20 :
  3 of socket-head cap screws(stainless steel), M3×0.5-6L

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



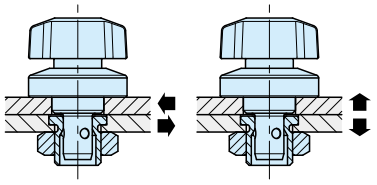


Feature



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

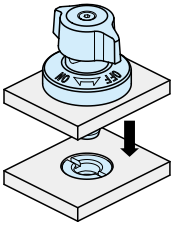
Mechanical Strength



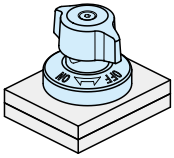
Size		Heatresistant Temperature(℃)	Shear Strength (N)	Tensile Strength (N)
QCWE	0625-10	130	3000	500
	1034-14		9000	1500
	1034-20			
QCWE-SUS	0625-10	180	3000	500
	1034-14		9000	1500
	1034-20			

Shear and tensile strength is allowable load and the fastener could break when it receives bigger load.

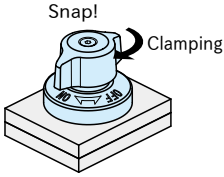
How To Use



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



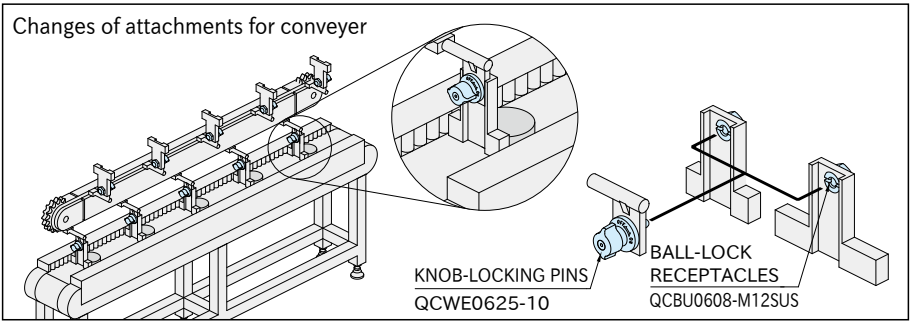
2.Insert the Knob-Locking Pin.



3.Turn the knob to the "ON" mark for clamping. The knob turns lightly by spring force.

Note: For unclamping, follow back these steps.

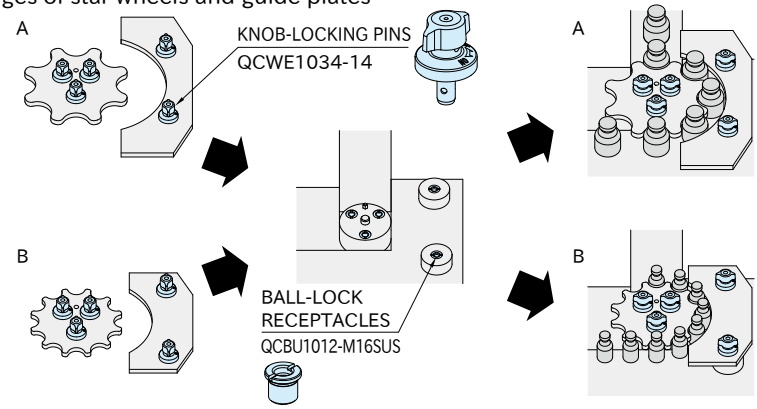
Application Example



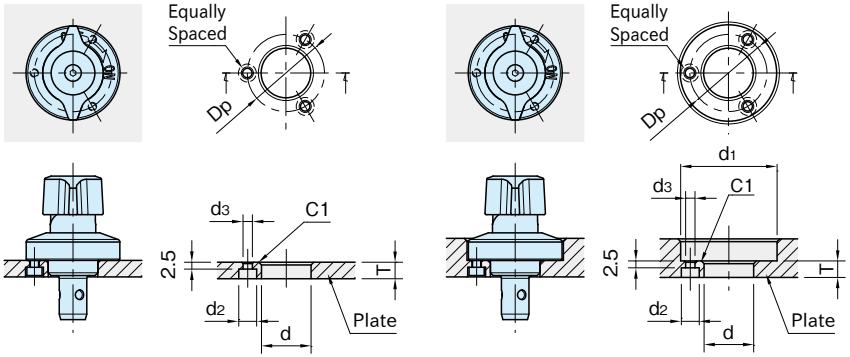
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Application Example

Changes of star wheels and guide plates



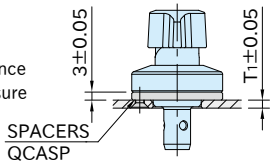
How To Install



Size		Plate Thickness	Figure	d (+0.10 +0.05)	d1	T *) (±0.2)	d2	d3	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.

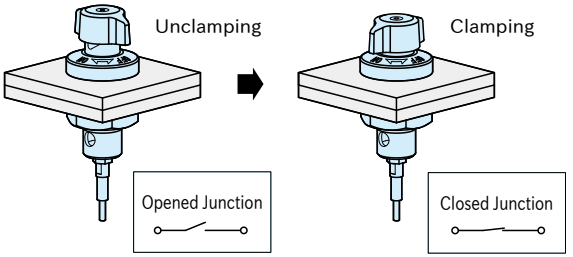


QCASP SPACERS



Detection by sensor

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



QCWE-M-S

POSITION SENSOR RECEPTACLES

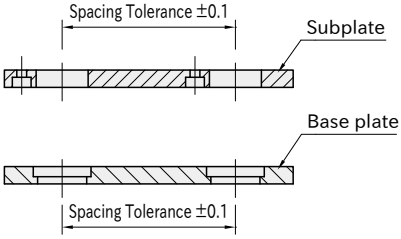


Reference

- "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

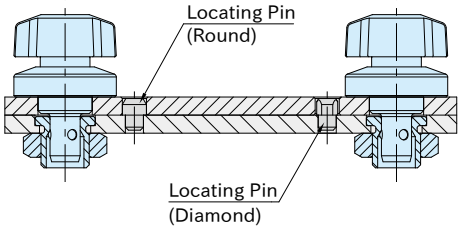


Spacing tolerance on both the subplate and the base plate should be ±0.1.

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.