

QCTHA

RETRACTABLE QUARTER-TURN CLAMPS



Stainless Steel

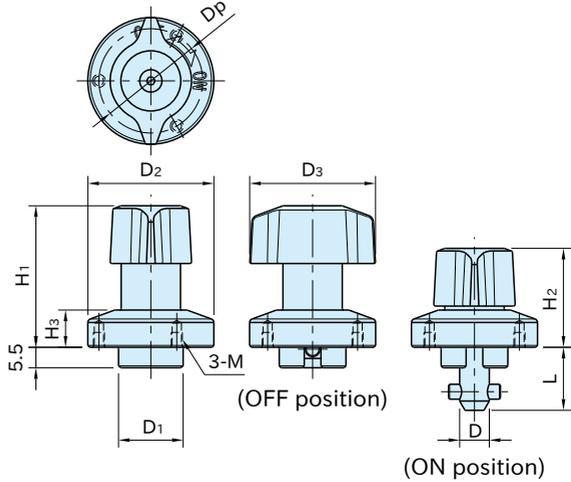


QCTHA
(Plastic Knob,
OFF position)



QCTHA-SUS
(Stainless Steel,
ON position)

Stainless Steel



★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	SUS303 stainless steel	SUS304 stainless steel	SCS13 stainless steel (Equivalent to SUS304)	SUS304-CSP stainless steel	

Size	Plate Thickness	D ($\begin{smallmatrix} -0.04 \\ -0.08 \end{smallmatrix}$)	D ₁ (h9)	D ₂	D ₃	L	H ₁	H ₂	H ₃	M	D _p	Clamping Force(N)	Holding Force (N) **	Cam Receptacles	
														QCTHA0525-N, QCTHA0525-B QCTHA0525-N-SUS, QCTHA0525-B-SUS	
QCTHA	0525-10	3~10 (*)	5	14	25	25	15.5	30	20	6.5	M2X0.4 Depth 3	21	60	60	QCTHA0834-N, QCTHA0834-B QCTHA0834-N-SUS, QCTHA0834-B-SUS
QCTHA-SUS	0834-14	3~14 (*)	8	18	34	34	17	38	26.5	10	M3X0.5 Depth 4	28	90	90	

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

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

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

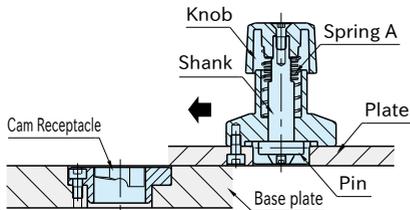
Supplied With

- 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

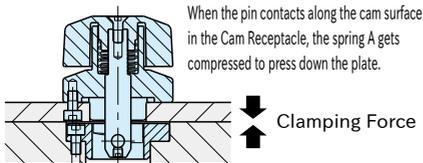
QCTH-N/QCTH-B CAM RECEPTACLES



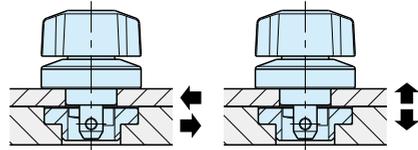
Feature



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



Mechanical Strength



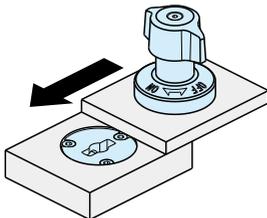
Shear Strength

Tensile Strength

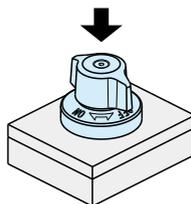
Part Number		Heatresistant Temperature(C)	Shear Strength(N)	Tensile Strength(N)
QCTHA	0525-10	130	1800	1200
	0834-14		3200	400
QCTHA-SUS	0525-10	180	1800	1200
	0834-14		3200	

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

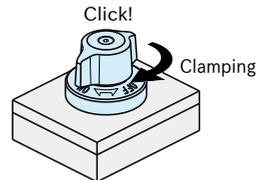
How To Use



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



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

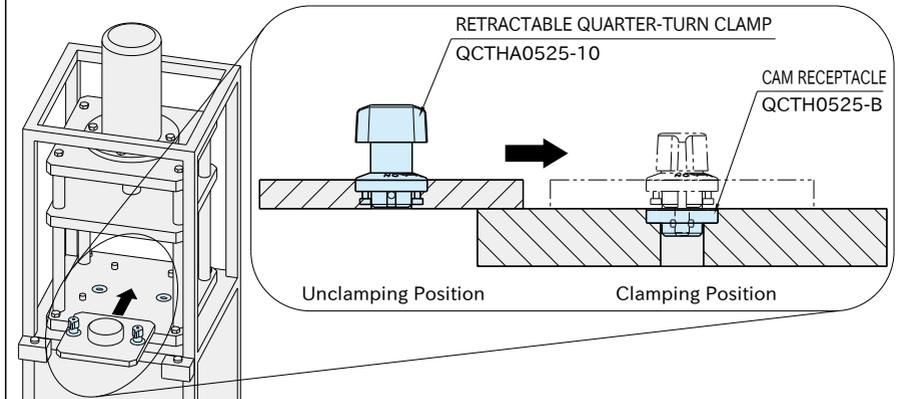


3. Turn the knob to the "ON" mark for clamping. The knob clicks when clamped.

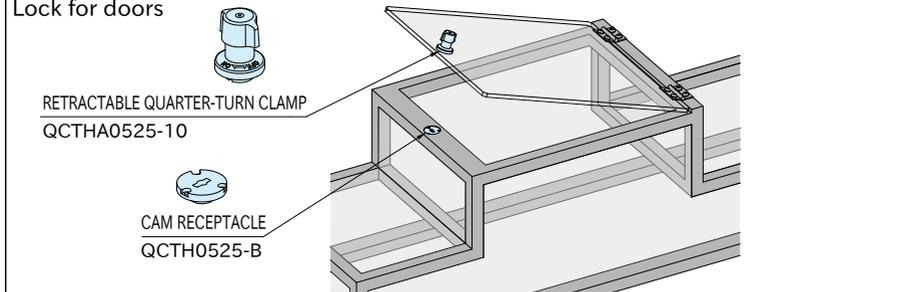
Turning the knob to the "OFF" position, the shank returns automatically to the unclamping position by the spring.

Application Example

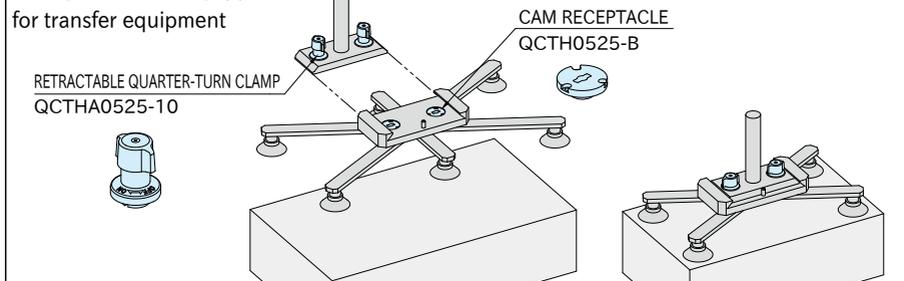
Changes of fixture plates



Lock for doors



Changes of suction grippers for transfer equipment



Reference

- "How To Install" of [QCTH-N](#) [QCTH-B](#) [QCTH-N-SUS](#) [QCTH-B-SUS](#) Cam Receptacles
- Spacer [QCASP](#) is required for 3mm or more, under 6mm plate thickness.

How To Install

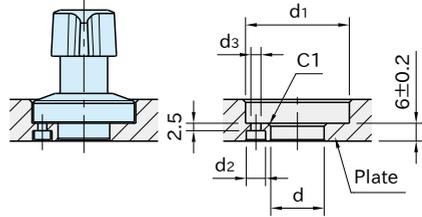
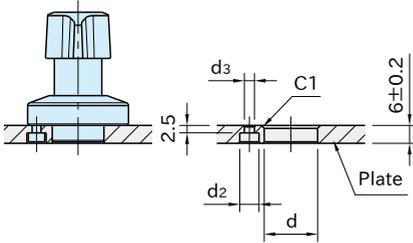
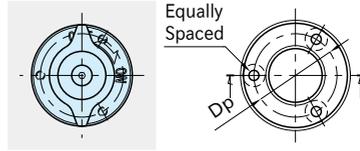
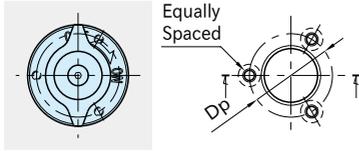


Figure A

Figure B

Part Number	Plate Thickness	Figure	D ($+0.10$ / $+0.05$)	d ₁	d ₂	d ₃	D _p
QCTHA	3 or more, under 6	Spacer [QCASP] is required.					
	6	A	14	—	4.4	2.4	21
	Over 6, 10 or less	B	14	26	4.4	2.4	21
QCTHA-SUS	3 or more, under 6	Spacer [QCASP] is required.					
	6	A	18	—	6.5	3.4	28
	Over 6, 14 or less	B	18	35	6.5	3.4	28

QCASP SPACERS



Accuracy

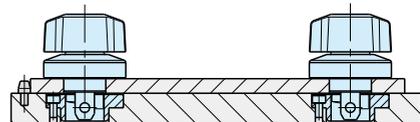
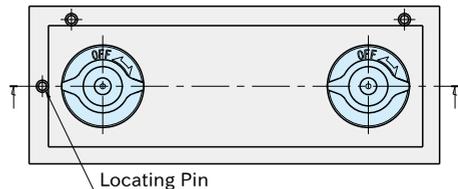
■ Machining Accuracy



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

■ Repeatability

Repeatability ± 0.1



For higher accurate locating, use locating components.