

QCTHS / QCTHSN HEAVY DUTY QUARTER-TURN CLAMPS



QCTHS
(Plastic Knob)



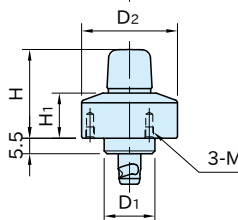
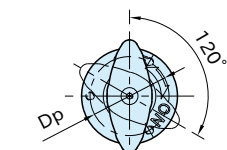
QCTHS-S
(Metal Knob)



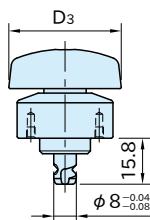
QCTHSN-S
(Knobless)

★Key Point

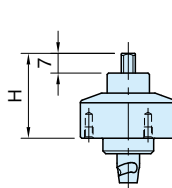
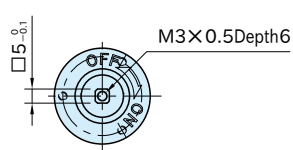
Clamping force 400N,250N



QCTHS
(Plastic Knob)



QCTHS-S
(Metal Knob)



QCTHSN-S
(Knobless)

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)	
QCTHSN-S				—	

Size	Plate Thickness	D ₁ (h9)	D ₂	H ₁	M	D _p	Clamping Force (N)	Holding Force (N)**
QCTHS QCTHS-S	0825-20 3 - 20 ^{*)}	14	25	14.5	M2x0.4Depth3	21	250	250
QCTHSN-S		18	34	16	M3x0.5Depth6	28	400	400

^{*)} Spacer [QCASP] is required for thinner plate than 6mm.

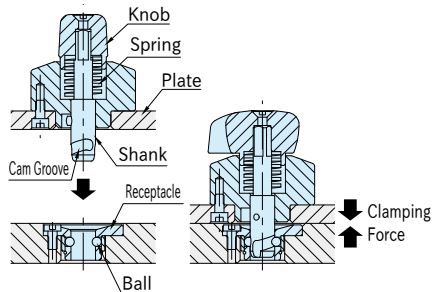
^{**)} Exceeding the holding force creates a gap of greater than 0.1mm between plates.

Size	Cam Receptacles	Floating Receptacles
QCTHS QCTHS-S	QCTHS0834-B	QCTHS0834-FL-SUS
QCTHSN-S		

QCTHS (Plastic Knob)				QCTHS-S (Metal Knob)			
Part Number	D ₃	H	Weight (g)	Part Number	D ₃	H	Weight (g)
QCTHS0825-20	30	29.5	62	QCTHS0825-20S	30	29.5	84
QCTHS0834-20	40	32	121	QCTHS0834-20S	40	32	157

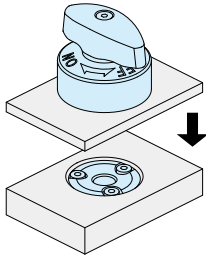
QCTHSN-S (Knobless)		
Part Number	H	Weight (g)
QCTHSN0825-20S	28.8	64
QCTHSN0834-20S	30.1	120

Feature

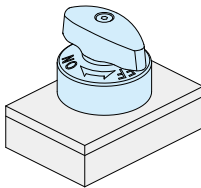


- When the cam groove moves along the ball inside the receptacle, the spring gets compressed to press down the plate.
- QCTHSN-S allows the use of customer-supplied knobs or levers, providing flexibility for operation in confined spaces.

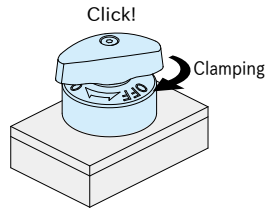
How To Use



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



- Insert the Heavy Duty Quarter-Turn Clamp.

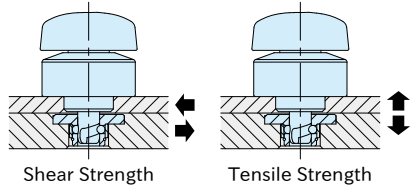


- Turn the knob to the "ON" mark for clamping. The knob clicks when it is clamped/unclamped.
Note: For unclamping, follow back these steps.

Supplied With

- QCTHS QCTHS-S QCTHSN-S 0825-20 :
3 of socket-head cap screws(stainless steel),M2X0.4-5L
- QCTHS QCTHS-S QCTHSN-S 0834-20 :
3 of socket-head cap screws(stainless steel),M3X0.5-6L

Mechanical Strength



Size		Heatresistant Temperature (°C)	Shear Strength at Failure (N)	Tensile Strength at Failure (N)
QCTHS	0825-20	130	4800	1100
	0834-20	180		1600
QCTHS-S	0825-20	130		
QCTHSN-S	0834-20	180		

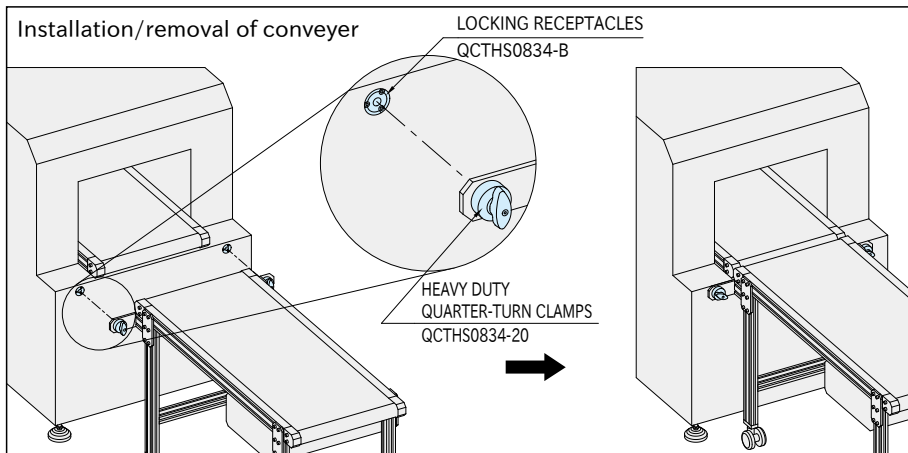
The values shown represent load levels at which failure can occur.

QCTHS-B	LOCKING RECEPTACLES	QCTHS-FL	FLOATING RECEPTACLES

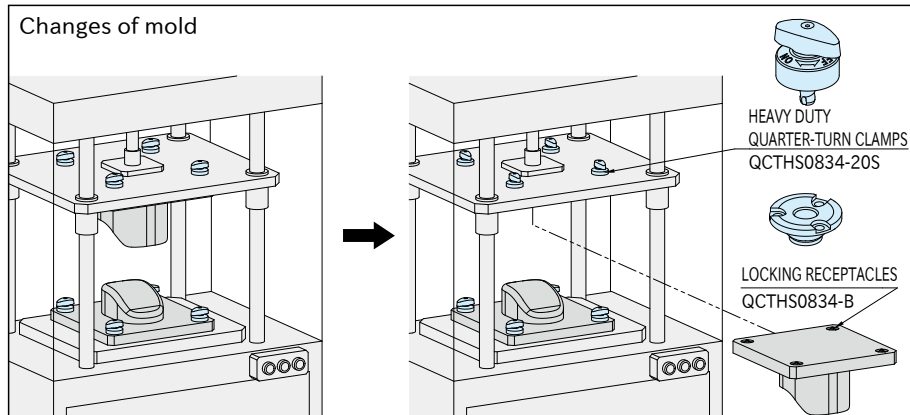


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Application Example

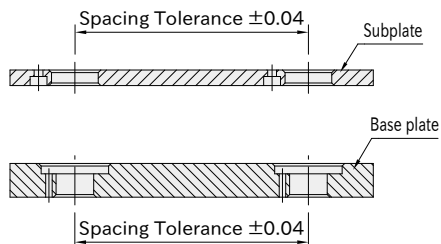


Changes of mold



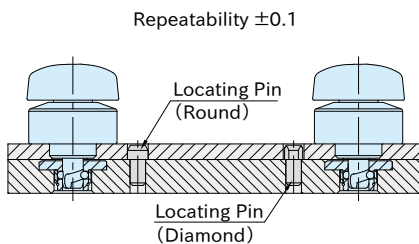
Accuracy

■ Machining Accuracy



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

■ Repeatability



For higher accurate locating, use locating pins.

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

How To Install

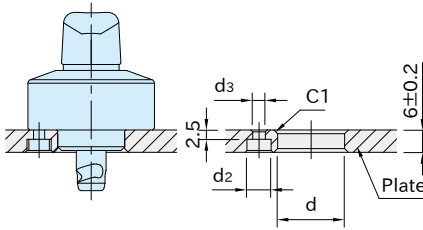
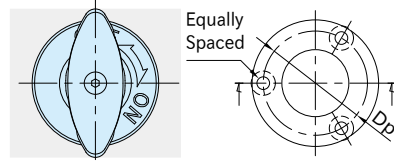
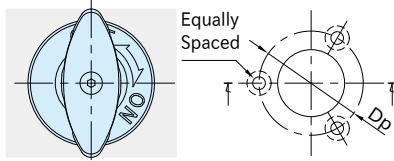


Figure A

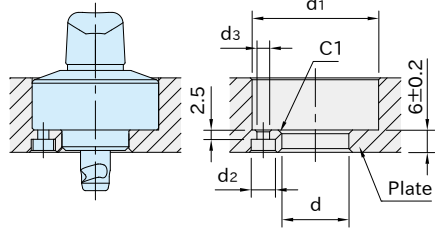


Figure B

Size		Plate Thickness	Figure	d (+0.10 +0.05)	d ₁	d ₂	d ₃	Dp
QCTHS QCTHS-S QCTHSN-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			

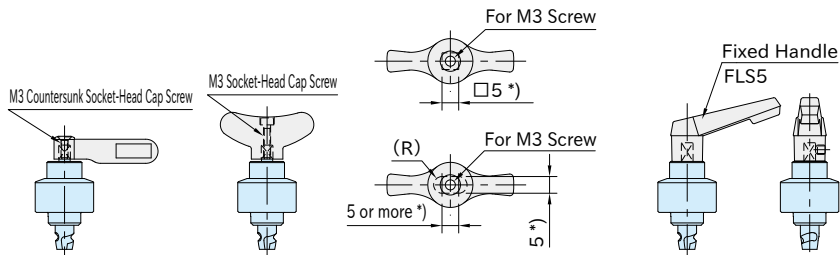
QCASP

SPACERS



Custom Knob Details

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



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

FLS5 Fixed Handles can be installed as supplied.

Reference

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