QCOWM COMPACT SNAP-IN CLAMPS

RoHS | Stainless Steel | Heat resistance: 180°C

IMAO

Wedge



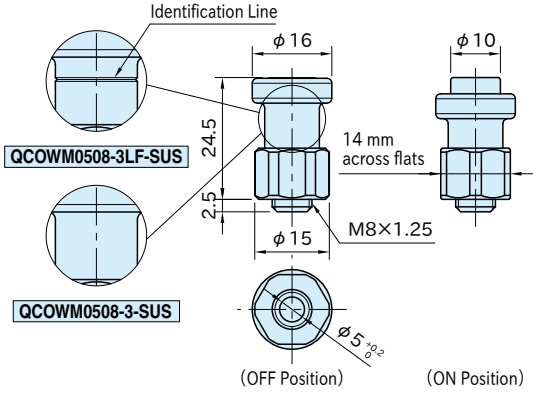
(OFF Position)

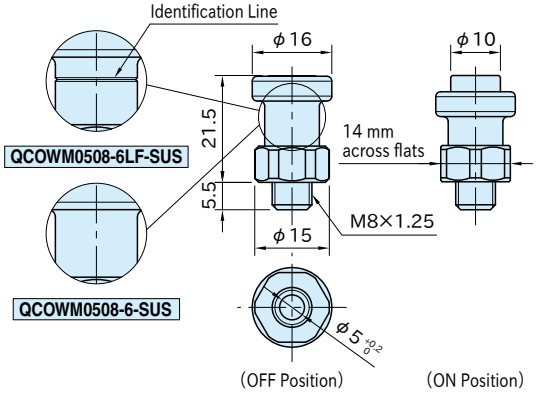
QCOWM0508-3



(OFF Position)

QCOWM0508-6





Note: The identification line indicates the QCOWM-LF type.

★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

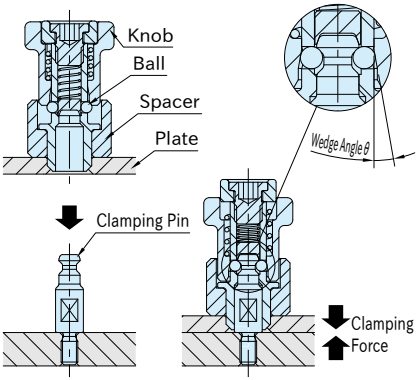
Type	Clamping Force (N)	Holding Force (N) *)	Knob Operating Force (N) **)
QCOWM0508-LF	14	50	7.5
QCOWM0508	25	100	14

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

**) Knob operating force refers to the force required to pull up the knob when unclamping.

Part Number	Weight (g)	Clamping Pin			
		Part Number	Plate Thickness	Part Number	Plate Thickness
QCOWM0508-3LF-SUS	18	QCOWM0508-M3-SUS	3	QCOWM0508-M4-SUS	6
QCOWM0508-6LF-SUS	16		6		9
QCOWM0508-3-SUS	18		3		6
QCOWM0508-6-SUS	16		6		9

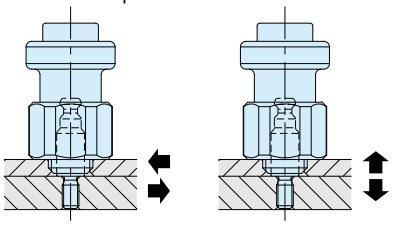
Feature



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

Mechanical Strength

Heatresistant Temperature 180℃

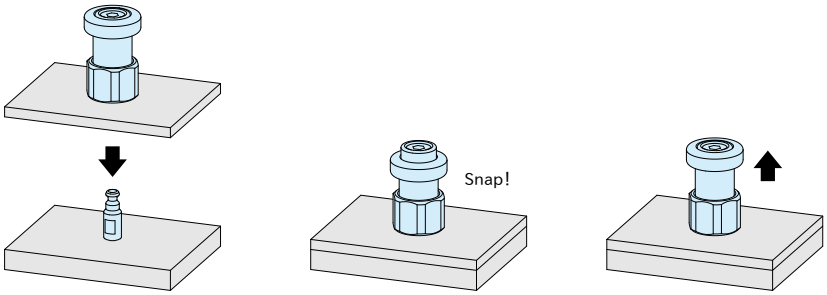


Shear Strength Tensile Strength

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

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

How To Use



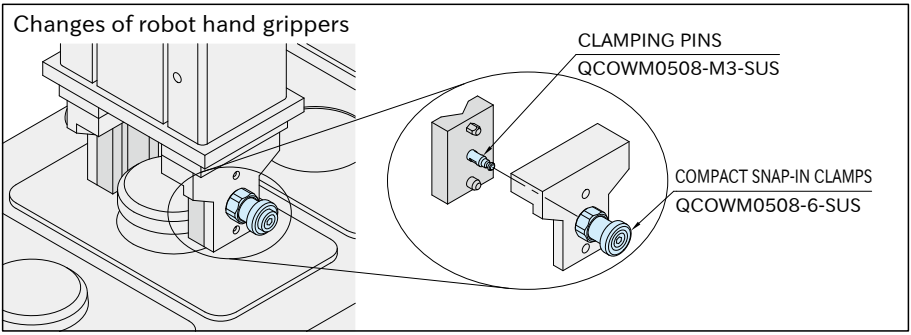
1.Put Compact Snap-In Clamp over the Clamping Pin. No knob operation is required.

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



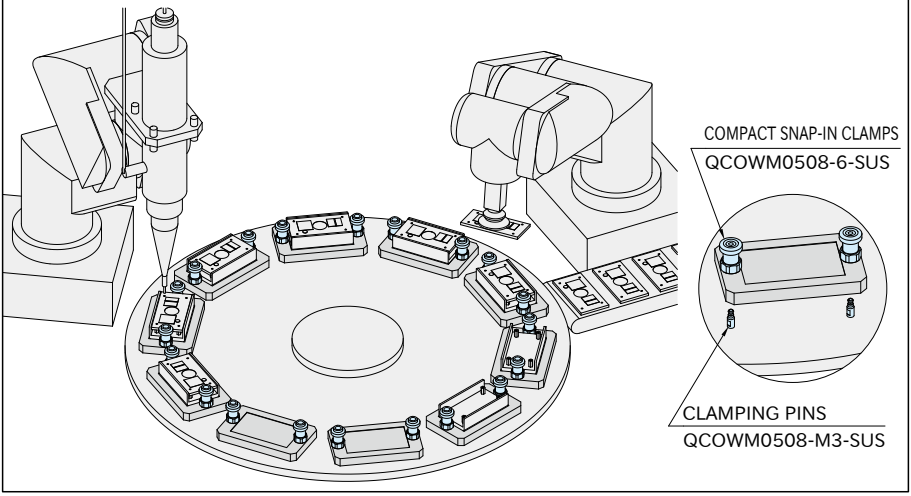
QCOWM-M CLAMPING PINS



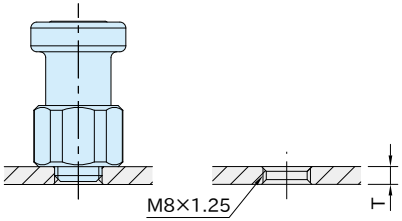
Continuing on Next Page

Application Example

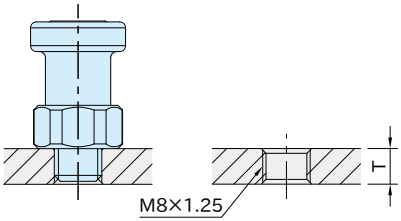
Changes of small fixtures



How To Install

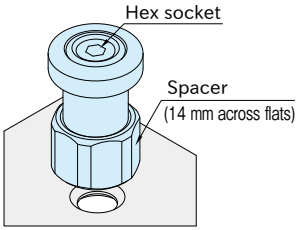


QCOWM0508-3-SUS



QCOWM0508-6-SUS

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

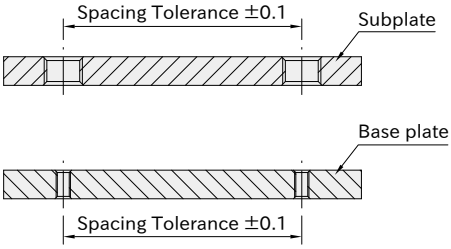


Use the wrench flats on the spacer for installation and removal.

* Do not use the hex socket on the top.

Accuracy

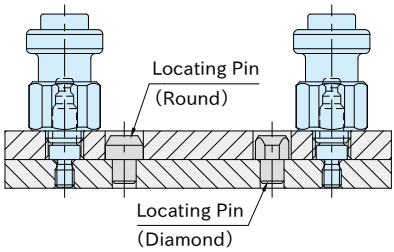
■Machining Accuracy



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

■Repeatability

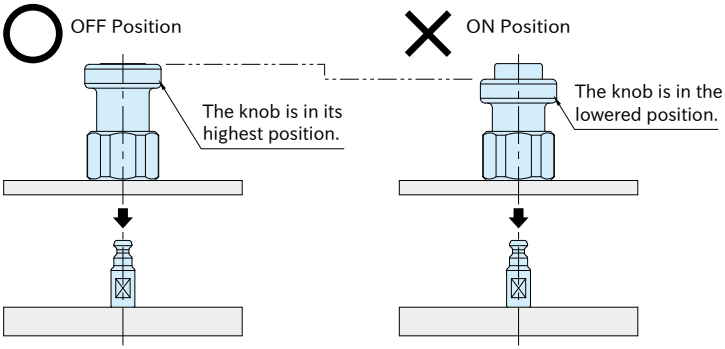
Repeatability ±0.25



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