

# QCPSS

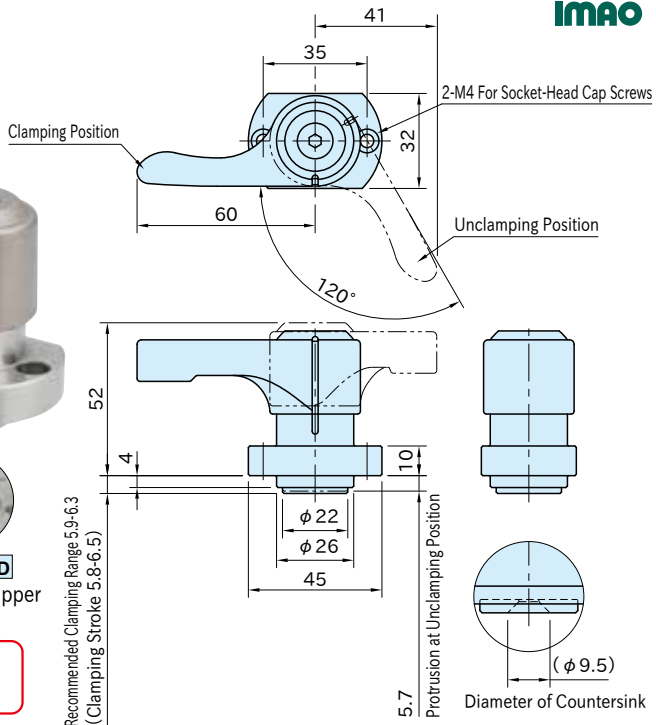
## HEAVY DUTY ONE TOUCH PUSH LOCK CLAMPS



**QCPSS-F**  
Flat Gripper



**QCPSS-D**  
Diamond Gripper



### ★Key Point

Quick & easy lock with high clamping force

Part Number	Body	Piston	Spring	Handle	Gripper
<b>QCPSS2245-6-S-F</b>	SUS303 stainless steel	SCM435 steel	Equivalent to SWOSC-V	SCS13 stainless steel (Equivalent to SUS304)	SUS303 stainless steel
<b>QCPSS2245-6-S-D</b>		Electroless Nickel Plated			SUS630 stainless steel Diamond electroplated

Part Number	Gripper	Clamping Force (N)	Weight (g)	Shaft Collars
<b>QCPSS2245-6-S-F</b>	Flat	1100	320	<b>QCPSC2245-20</b>
<b>QCPSS2245-6-S-D</b>	Diamond			<b>QCPSC2245-25</b>

## Supplied With

2 of socket-head cap screw (stainless steel),  
M4×0.7-10L

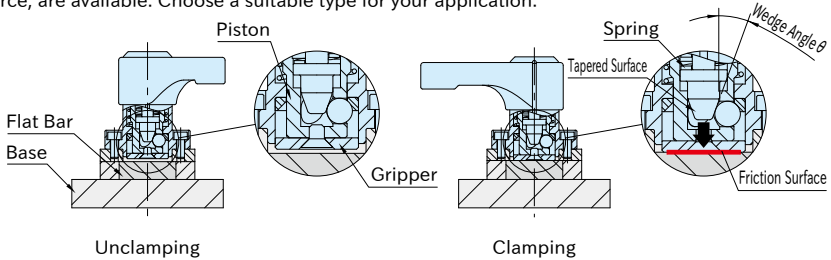
## QCPC

## SHAFT COLLARS

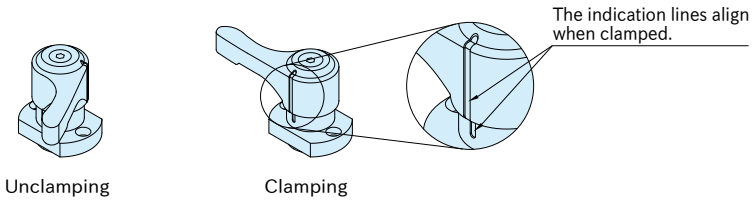


## Feature

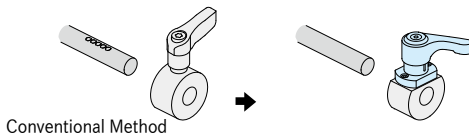
- By turning the handle, the piston is pushed out and locked with the balls and tapered surface to clamp the object such as flat bar or shaft.
- The internal spring and wedge mechanism provides constant and strong clamping force.
- Frictional force generated at the contact surface prevents the object from moving.
- The flat gripper which hardly damages an object, and the diamond gripper which provides high holding force, are available. Choose a suitable type for your application.



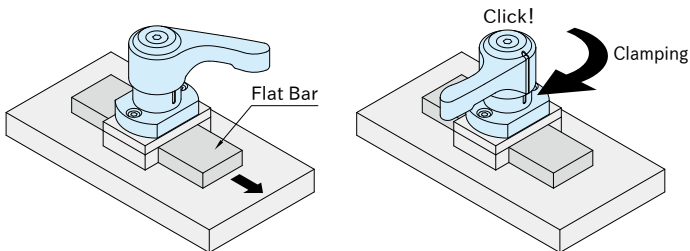
- The indication line clearly shows clamp/unclamp position.



- Shafts are less likely to be damaged compared to fixing by screws.




## How To Use



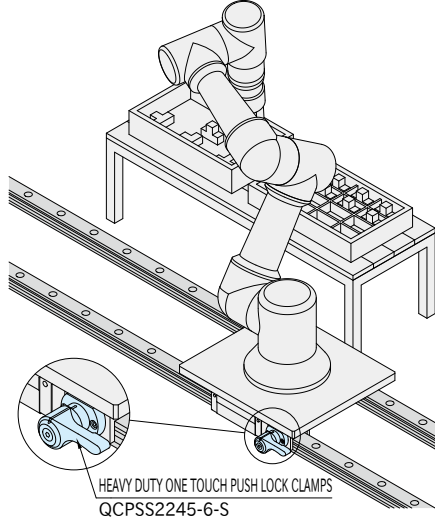
Slide the flat bar at the unclamping position.

Turn the handle 120° to clamp.

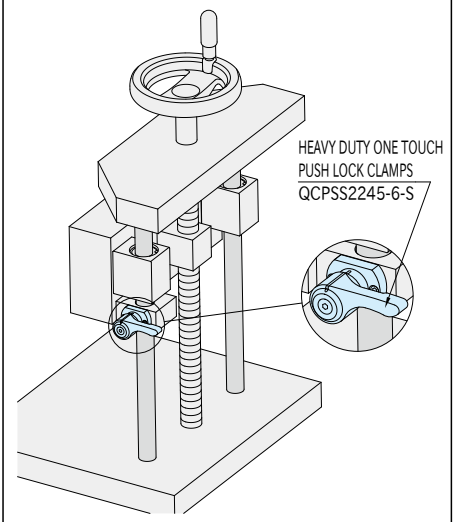
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## Application Example

### Lock for slide position adjustment



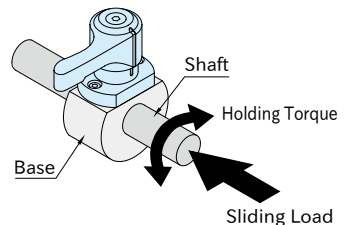
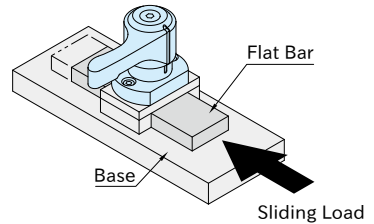
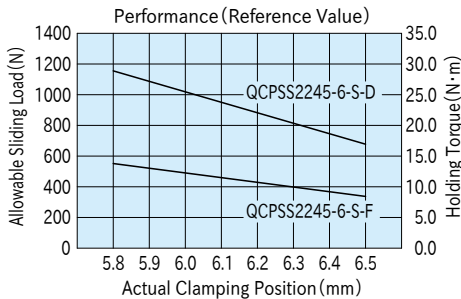
### Lock for elevating equipment



## Technical Information

Part Number	Sliding Load (N)	Holding Torque (N·m)
<b>QCPSS2245-6-S-F</b>	450	12
<b>QCPSS2245-6-S-D</b>	900	23

### Actual Clamping Position vs. Sliding Load and Holding Torque

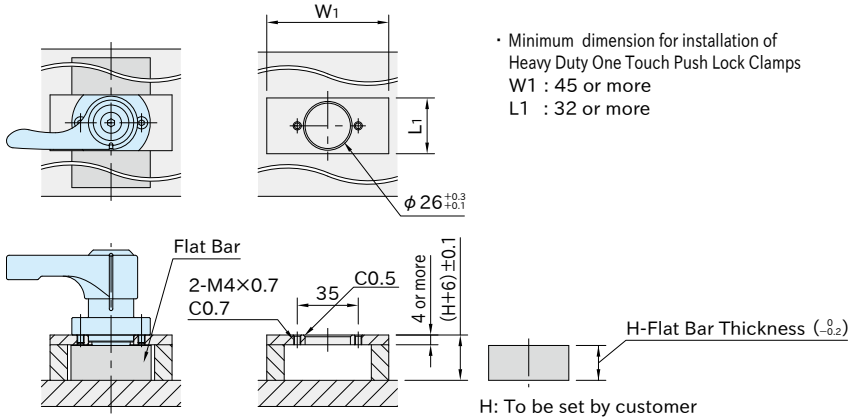


These numerical values are for reference only, under the following conditions.

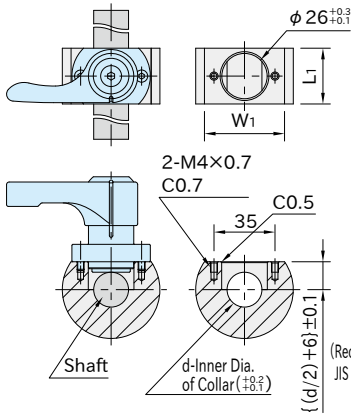
- The material of the object (flat bar, shaft) and the base is SUS303 stainless steel.
- The gripper, object (flat bar, shaft), and base are fully degreased.
- The object is clamped within the recommended clamping range.
- The values of Holding Torque are for  $\phi 25$  shafts.

## How To Install

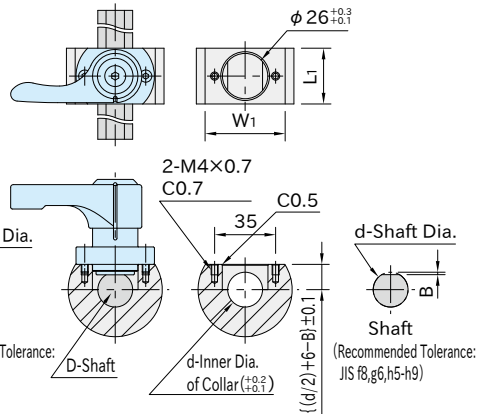
### ■ For Flat Bar



### ■ For Shaft



### ■ For D-Shaft



- d: To be set by customer
- The approximate outer diameter of the collar can be calculated according to the following formula.

$$\text{Outer diameter of collar} \geq 2 \times \sqrt{\left(\frac{W_1}{2}\right)^2 + \left(\frac{d}{2} + 6\right)^2}$$

- B: To be set by customer
- The approximate outer diameter of the collar can be calculated according to the following formula.

$$\text{Outer diameter of collar} \geq 2 \times \sqrt{\left(\frac{W_1}{2}\right)^2 + \left(\frac{d}{2} + 6 - B\right)^2}$$

### Note

- Degrease all contact surfaces thoroughly.
- Do not try to move the clamped object.
- When using the clamps by methods other than "How to Install" above, please install them so that the object is clamped within the recommended clamping range.