

QCPSS

HEAVY DUTY ONE TOUCH PUSH LOCK CLAMPS

ROHS

IMAO



QCPSS-F

Flat Gripper

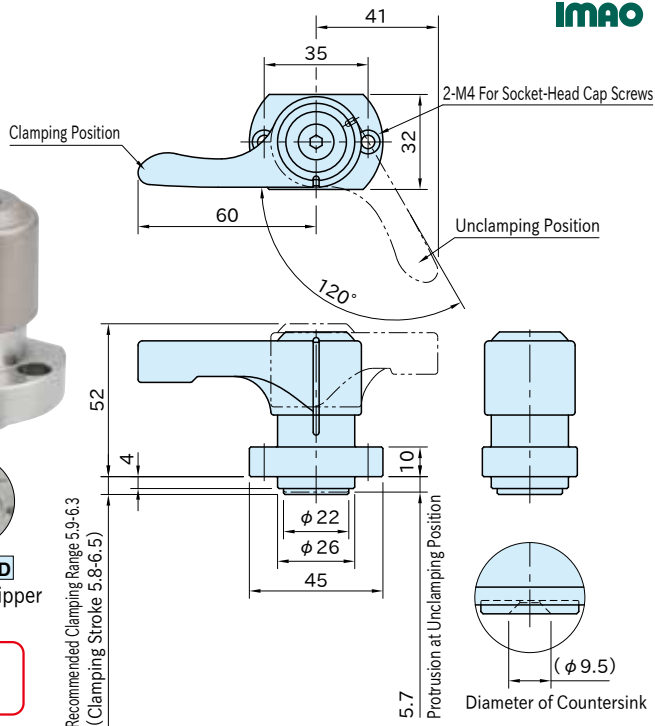


QCPSS-D

Diamond Gripper

★Key Point

Quick & easy lock with high clamping force



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

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

Supplied With

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

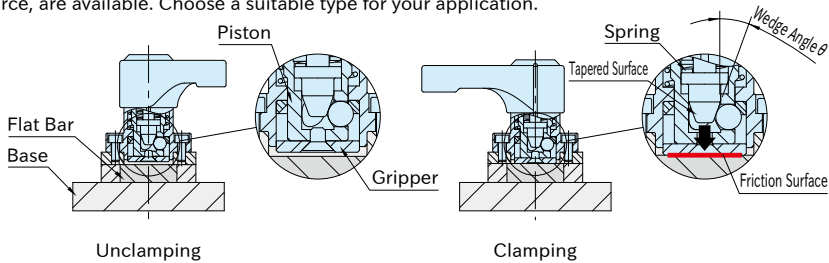
QCPSC

SHAFT COLLARS

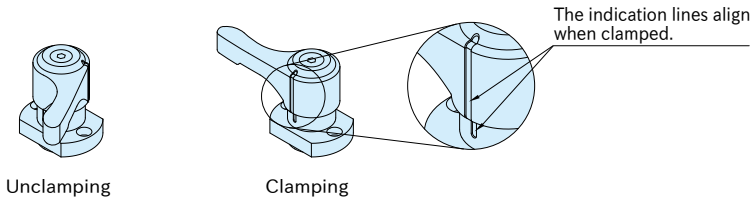


Feature

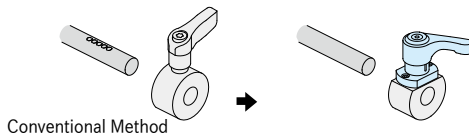
- By turning the handle, the piston is pushed out and locked with the balls and tapered surface to clamp the object such as flat bar or shaft.
- The internal spring and wedge mechanism provides constant and strong clamping force.
- Frictional force generated at the contact surface prevents the object 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.



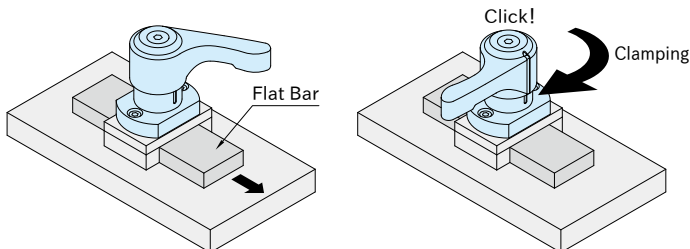
- The indication line clearly shows clamp/unclamp position.



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



How To Use



Slide the flat bar at the unclamping position.

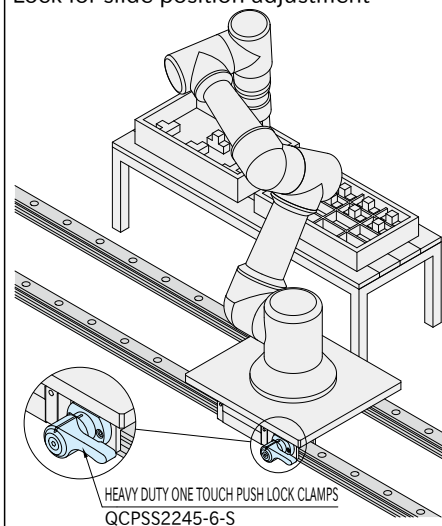
Turn the handle 120° to clamp.



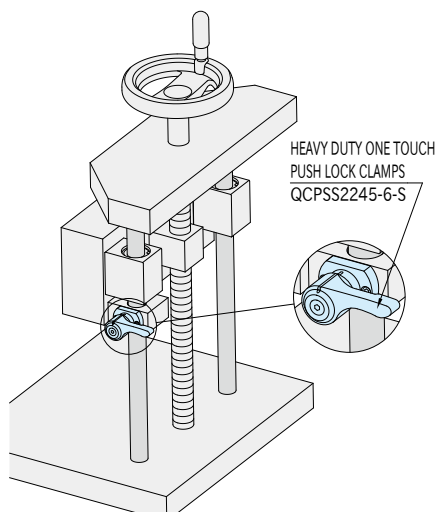
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Application Example

Lock for slide position adjustment



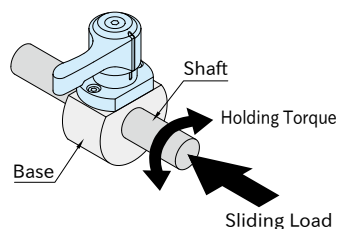
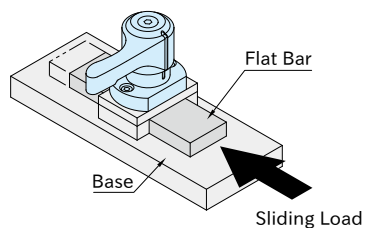
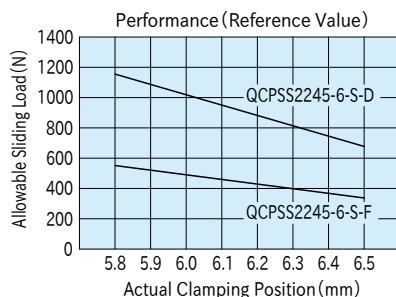
Lock for elevating equipment



Technical Information

Part Number	Sliding Load (N)	Holding Torque (N·m)	
		Shaft Dia.	
		φ 20	φ 25
QCPSS2245-6-S-F	450	4.4	5.5
QCPSS2245-6-S-D	900	8.8	11

Actual Clamping Position vs. Sliding Load

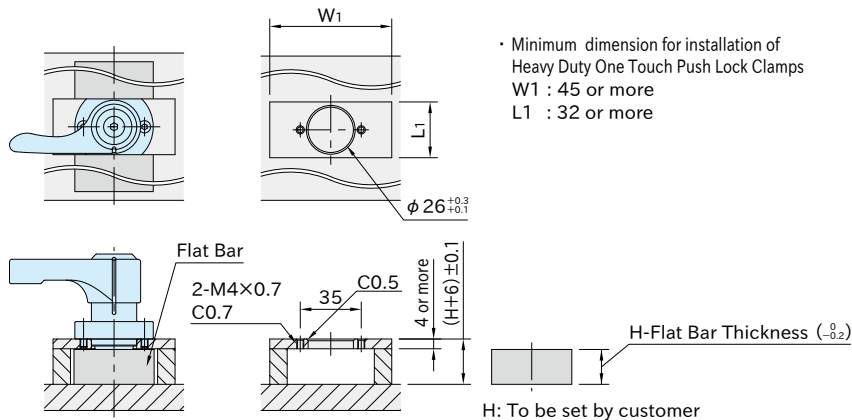


These numerical values are for reference only, under the following conditions.

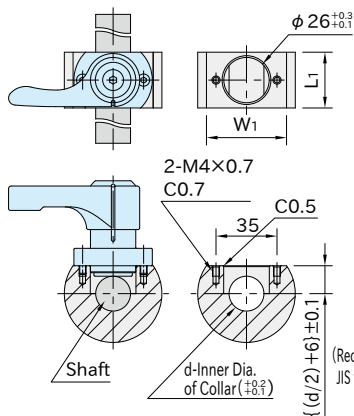
- The material of the object (flat bar, shaft) and the base is SUS303 stainless steel.
- The gripper, object (flat bar, shaft), and base are fully degreased.
- The object is clamped within the recommended clamping range.

How To Install

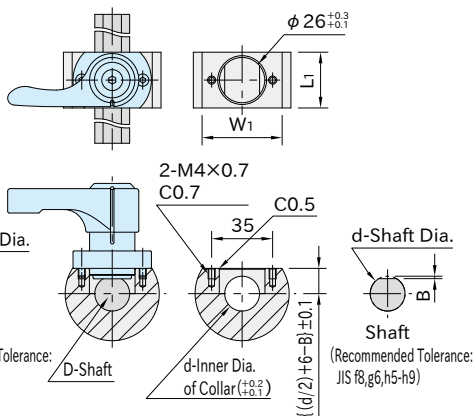
■ For Flat Bar



■ 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.

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

·d, 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.