

# QCPS

# ONE TOUCH PUSH LOCK CLAMPS



**QCPS1036-6-OG**

(Plastic Handle, Orange)



**QCPS0828-6-BK**

(Plastic Handle, Black)



**QCPS1036-6-S**

(Metal Handle)



**QCPS-F**

Flat Tip

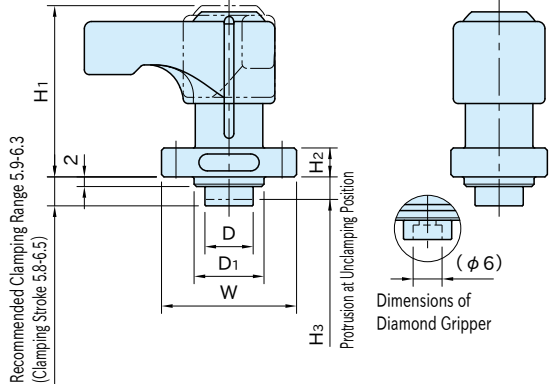
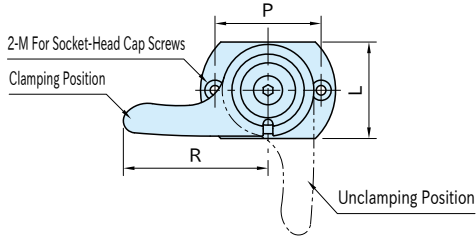


**QCPS-D**

Diamond Tip

**★Key Point**

Quick & easy lock with constant clamping force



Type	Body/Piston	Spring	Handle	Gripper
<b>QCPS-OG-F</b>	SUS303 stainless steel	Equivalent to SWOSC-V	Polyamide (glass-fiber reinforced)	-
<b>QCPS-BK-F</b>			SCS13 stainless steel (Equivalent to SUS304)	
<b>QCPS-S-F</b>			Polyamide (glass-fiber reinforced)	SUS303 stainless steel Diamond electroplated
<b>QCPS-OG-D</b>			SCS13 stainless steel (Equivalent to SUS304)	
<b>QCPS-BK-D</b>				
<b>QCPS-S-D</b>				

Type	Tip Type	D	D <sub>1</sub>	W	L	H <sub>1</sub>	H <sub>2</sub>	H <sub>3</sub>	R	P	M	Clamping Force (N)	Proper Shaft Collars
<b>QCPS0828-6-F</b>	Flat	8.5	14.5	28	20	35.5	6	5.5	30	22	M2	180	QCPC0828-20
<b>QCPS0828-6-D</b>	Diamond	10											QCPC0828-25
<b>QCPS1036-6-F</b>	Flat	10.5	17.5	36	24	39	8	5.3	45	28	M3	330	QCPC1036-20
<b>QCPS1036-6-D</b>	Diamond	14											QCPC1036-25

■ Plastic Handle

Part Number		Weight (g)
Orange	Black	
<b>QCPS0828-6-OG-F</b>	<b>QCPS0828-6-BK-F</b>	54
<b>QCPS0828-6-OG-D</b>	<b>QCPS0828-6-BK-D</b>	
<b>QCPS1036-6-OG-F</b>	<b>QCPS1036-6-BK-F</b>	100
<b>QCPS1036-6-OG-D</b>	<b>QCPS1036-6-BK-D</b>	

■ Metal Handle

Part Number	Weight (g)
<b>QCPS0828-6-S-F</b>	79
<b>QCPS0828-6-S-D</b>	
<b>QCPS1036-6-S-F</b>	150
<b>QCPS1036-6-S-D</b>	

## Supplied With

- **QCPS0828-6** :  
2 of socket-head cap screw (stainless steel),  
M2×0.4-6L
- **QCPS1036-6** :  
2 of socket-head cap screw (stainless steel),  
M3×0.5-8L

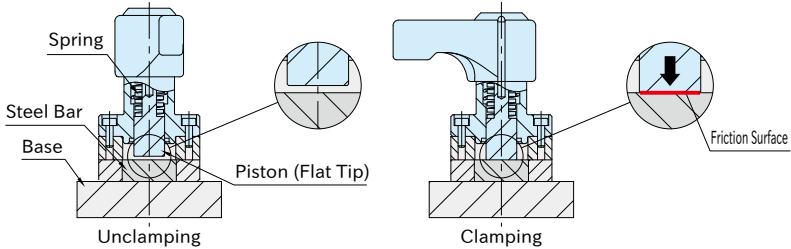
## QCPS

## SHAFT COLLARS

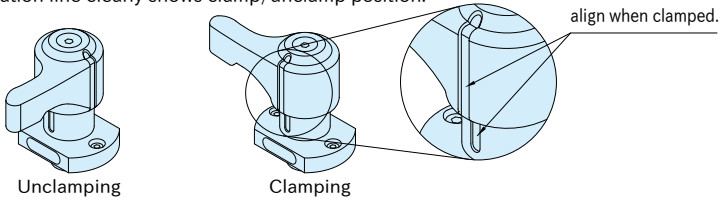


## Feature

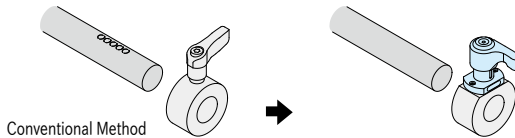
- The piston pushes out to clamp the object such as steel bar or shaft by turning the handle.
- The spring-loaded clamp provides a constant clamping force.
- Frictional force generated at the contact surface prevents the object from moving.
- The flat tip which hardly damages an object, and the diamond tip which provides high holding force, are available. Choose a suitable type for your application.



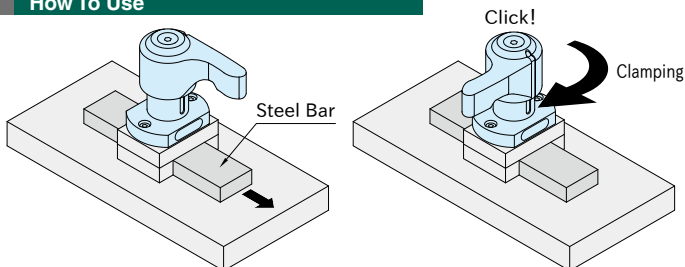
- The indication line clearly shows clamp/unclamp position.



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




## How To Use



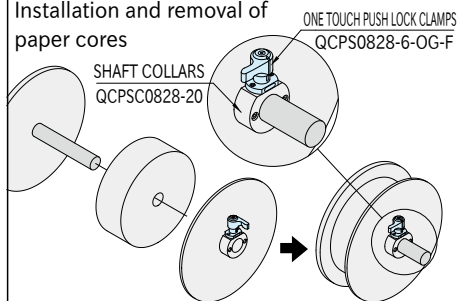
Slides the steel bar at the unclamping position.

Turn the handle 90° to clamp.

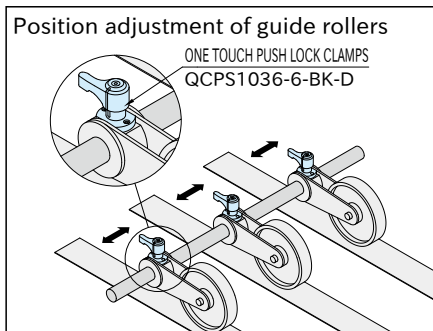
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## Application Example

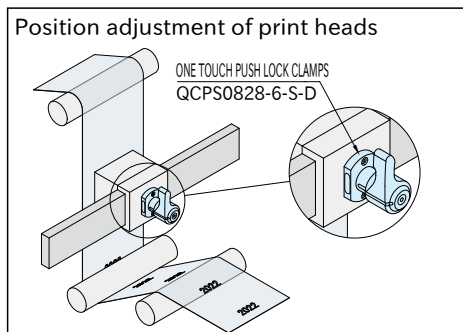
### Installation and removal of paper cores



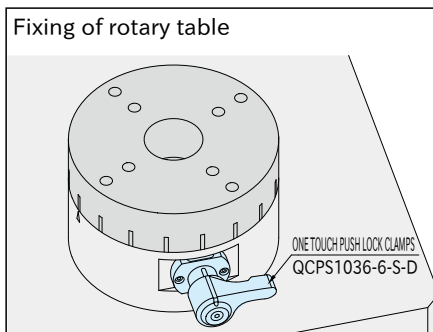
### Position adjustment of guide rollers



### Position adjustment of print heads



### Fixing of rotary table

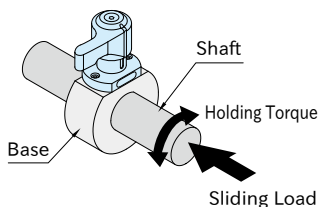
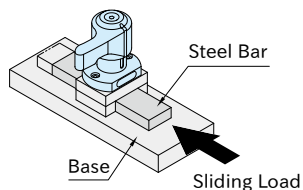


## Technical Information

Type	Sliding Load (N)	Holding Torque (N·m)
QCPS0828-6-F	70	1.8
QCPS0828-6-D	140	3.6
QCPS1036-6-F	150	3.7
QCPS1036-6-D	260	6.4

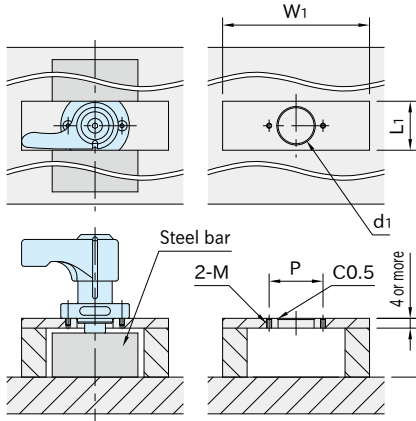
These numerical values are for reference only, under the following conditions.

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



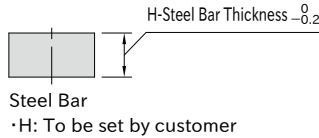
## How To Install

### ■ For Steel Bar

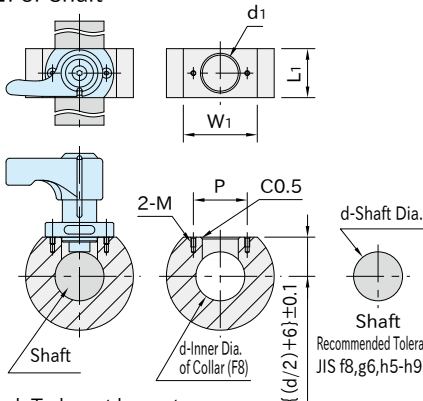


Size	d <sub>1</sub> (+0.3 +0.3)	P	M	W <sub>1</sub> (*)	L <sub>1</sub> (*)
<b>QCPS0828-6</b>	14.5	22	M2×0.4 Depth 4 or more C0.5	28 or more	20 or more
<b>QCPS1036-6</b>	17.5	28	M3×0.5 Depth 5 or more C0.5	36 or more	24 or more

\*) Minimum dimension for installation of the One Touch Push Lock Clamps



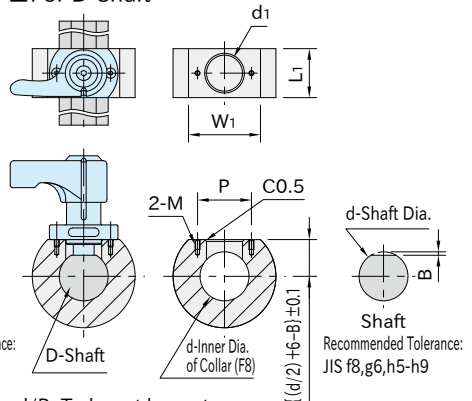
### ■ For Shaft



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

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

### ■ For D-Shaft



- 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.
- Excess shock or vibration may cause a misalignment of the clamped object.