

# QCPS

## ONE TOUCH PUSH LOCK CLAMPS



IMAO



**QCPS1036-6-OG**

(Plastic Handle, Orange)



**QCPS0828-6-BK**

(Plastic Handle, Black)



**QCPS1036-6-S**

(Metal Handle)



**QCPS-F**

Flat Tip

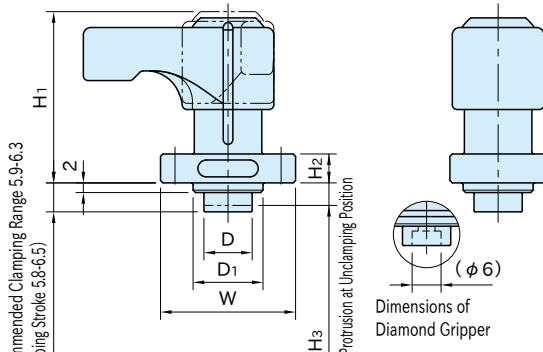
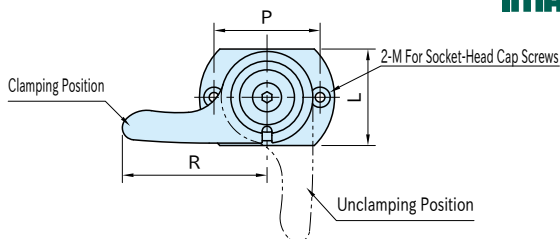


**QCPS-D**

Diamond Tip

### ★Key Point

Quick & easy lock with  
constant clamping force



Recommended Clamping Range 5.9-6.3  
(Clamping Stroke 5.8-6.5)

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	200	QCPSC0828 Type
<b>QCPS0828-6-D</b>	Diamond	10											
<b>QCPS1036-6-F</b>	Flat	10.5	17.5	36	24	39	8	5.3	45	28	M3	400	QCPSC1036 Type
<b>QCPS1036-6-D</b>	Diamond	14											

### ■ 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)
QCPS0828-6-S-F	79
QCPS0828-6-S-D	
QCPS1036-6-S-F	150
QCPS1036-6-S-D	

## 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

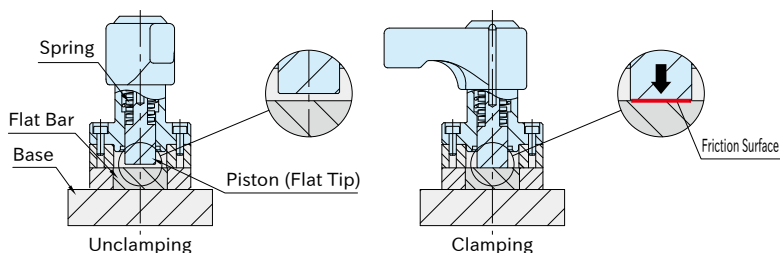
## QCPSC

## SHAFT COLLARS

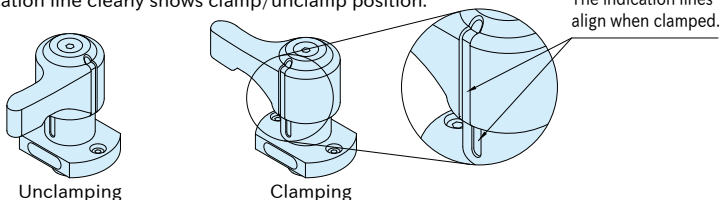


## Feature

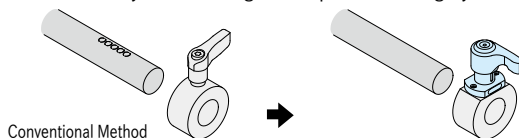
- By turning the handle, the piston is pushed out to clamp the object such as flat bar or shaft.
- The spring-loaded clamp provides a constant clamping force.
- Frictional force generated at the contact surface prevents the object from moving.
- The flat tip which hardly damages an object, and the diamond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



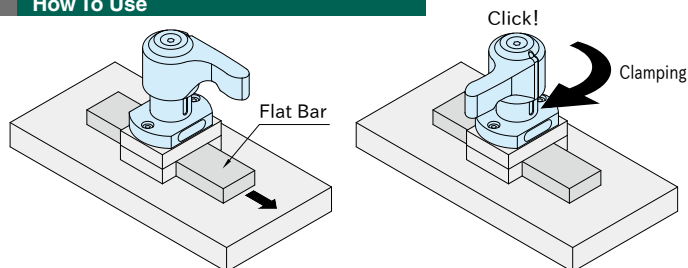
- The indication line clearly shows clamp/unclamp position.



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



## How To Use



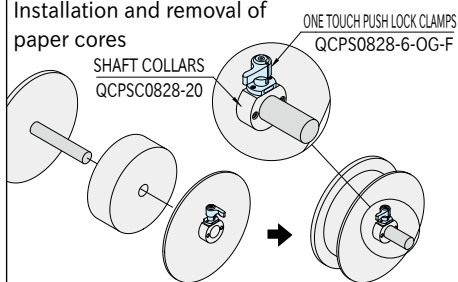
Slides the flat bar at the unclamping position.

Turn the handle 90° to clamp.

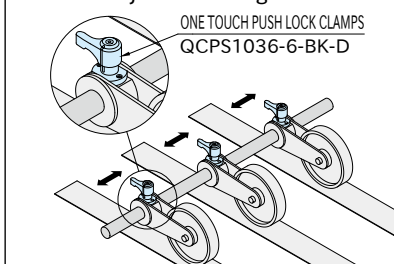
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## Application Example

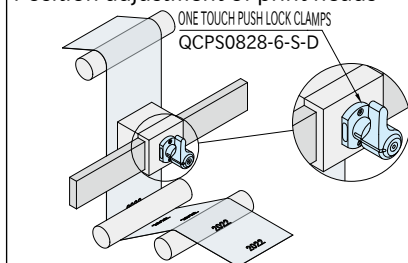
### Installation and removal of paper cores



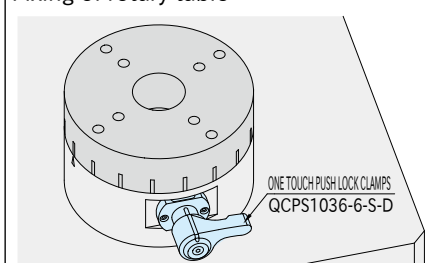
### Position adjustment of guide rollers



### Position adjustment of print heads

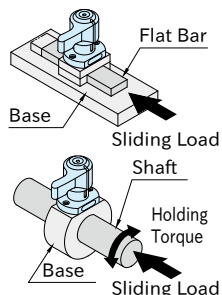


### Fixing of rotary table

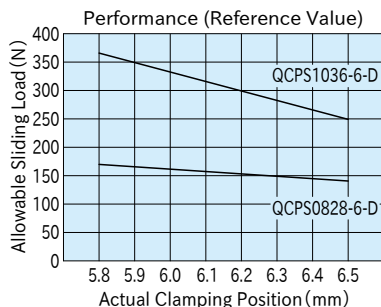
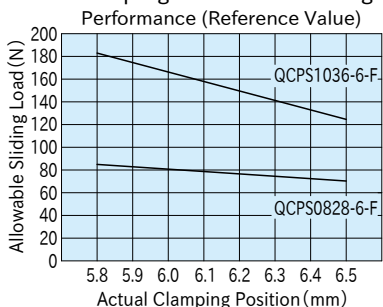


## Technical Information

Type	Sliding Load (N)	Holding Torque (N·m)						
		Shaft Dia.						
		φ 10	φ 12	φ 14	φ 15	φ 16	φ 20	φ 25
QCPS0828-6-F	80	0.4	0.5	0.6	0.6	0.6	0.8	1
QCPS0828-6-D	160	0.8	1	1.2	1.2	1.2	1.6	2
QCPS1036-6-F	160	0.8	1	1.1	1.2	1.3	1.6	2
QCPS1036-6-D	320	1.6	2	2.2	2.4	2.6	3.2	4



### Actual Clamping Position vs. Sliding Load

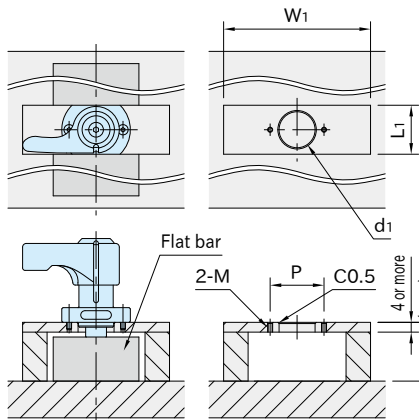


These numerical values are for reference only, under the following conditions.

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

## How To Install

### ■ For Flat Bar

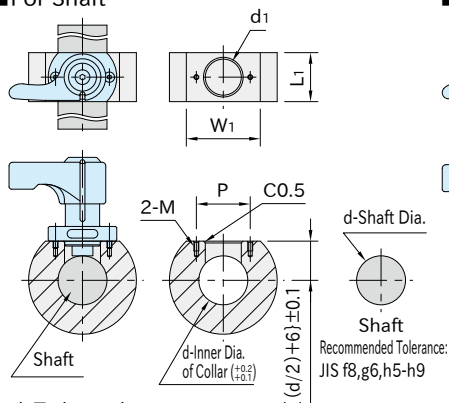


Size	d <sub>1</sub> (+0.3 +0.1)	P	M	W <sub>1</sub> (*)	L <sub>1</sub> (*)
<b>QCPS0828-6</b>	14.5	22	M2×0.4 Depth 4 or more C0.5	28 or more	20 or more
<b>QCPS1036-6</b>	17.5	28	M3×0.5 Depth 5 or more C0.5	36 or more	24 or more

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

H: To be set by customer

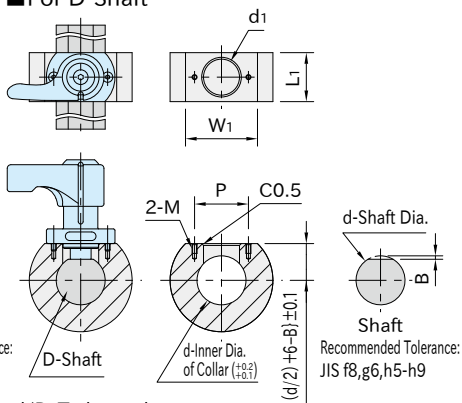
### ■ For Shaft



- 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.
- 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.