

QCPS, QCPSL

ONE TOUCH PUSH LOCK CLAMPS



QCPS1036-6-OG

(Plastic Handle, Orange)



QCPS0828-6-BK

(Plastic Handle, Black)



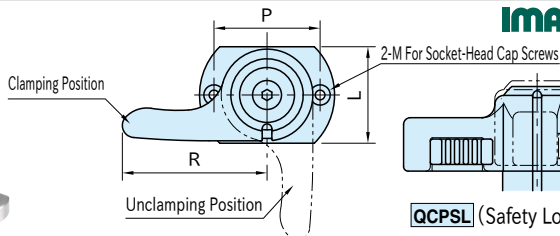
QCPS1036-6-S

(Metal Handle)

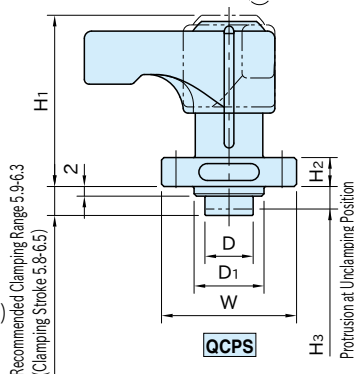


QCPSL1036-6-S

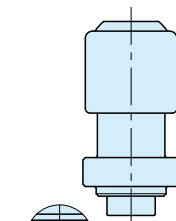
(Metal Handle, Safety Lock)



QCPSL (Safety Lock)



QCPS



Dimensions of Diamond Gripper



QCPS-F

Flat Tip



QCPS-D

Diamond Tip

★Key Point

Quick & easy lock with constant clamping force

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

Type	Tip Type	D	D ₁	W	L	H ₁	H ₂	H ₃	R	P	M	Clamping Force (N)	Shaft Collars
QCPS QCPSL	0828-6-F	Flat	8.5	14.5	28	35.5	6	5.5	30	22	M2	200	QCPSC0828 Type
	0828-6-D	Diamond	10	14.5	28	35.5	6	5.5	30	22	M2	200	
	1036-6-F	Flat	10.5	17.5	36	24	39	8	5.3	45	28	M3	QCPSC1036 Type
	1036-6-D	Diamond	14	17.5	36	24	39	8	5.3	45	28	M3	

■ Plastic Handle

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

■ Metal Handle

Part Number	Weight (g)
QCPS0828-6-S-F	79
QCPS0828-6-S-D	
QCPS1036-6-S-F	150
QCPS1036-6-S-D	

■ Metal Handle, Safety Lock

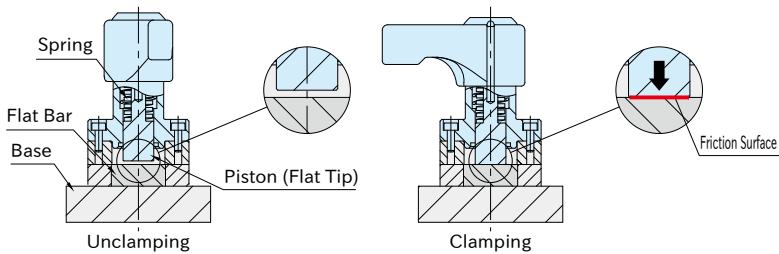
Part Number	Weight (g)
QCPSL0828-6-S-F	90
QCPSL0828-6-S-D	
QCPSL1036-6-S-F	160
QCPSL1036-6-S-D	

Supplied With

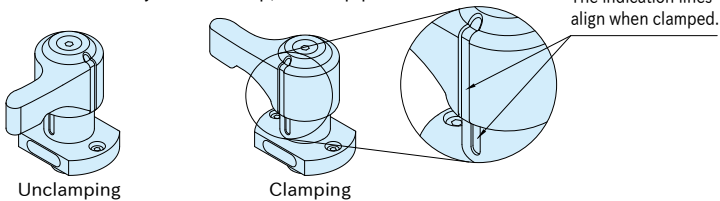
- QCPS QCPSL 0828-6 :
2 of socket-head cap screw (stainless steel),
M2×0.4-6L
- QCPS QCPSL 1036-6 :
2 of socket-head cap screw (stainless steel),
M3×0.5-8L

Feature

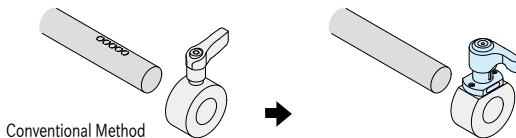
- By turning the handle, the piston is pushed out to clamp the object such as flat bar or shaft.
- The spring-loaded clamp provides a constant clamping force.
- Frictional force generated at the contact surface prevents the object from moving.
- The flat tip which hardly damages an object, and the diamond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



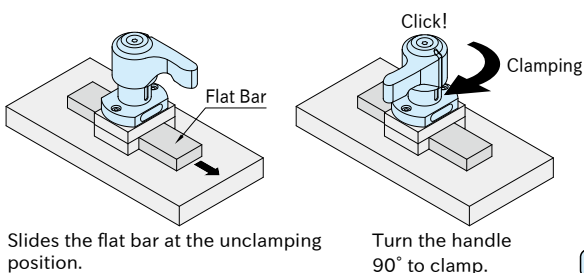
- The indication line clearly shows clamp/unclamp position.



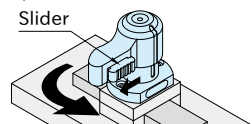
- Shafts are less likely to be damaged compared to fixing by screws.



How To Use



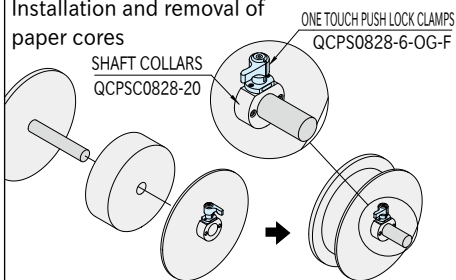
■ Safety Lock



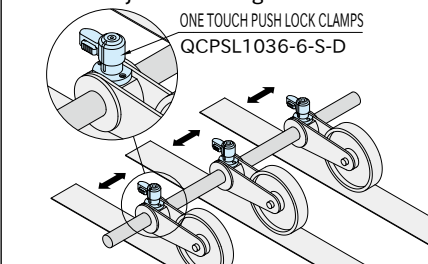
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Application Example

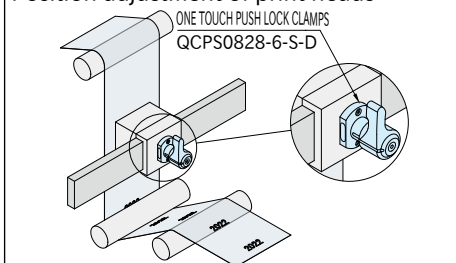
Installation and removal of paper cores



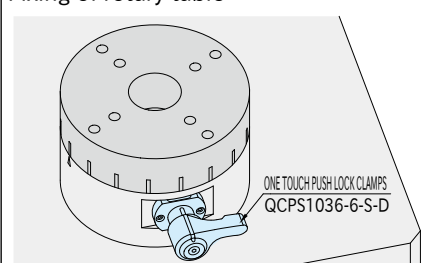
Position adjustment of guide rollers



Position adjustment of print heads



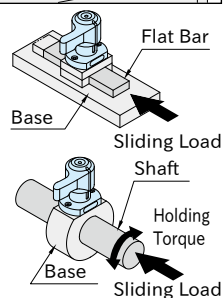
Fixing of rotary table



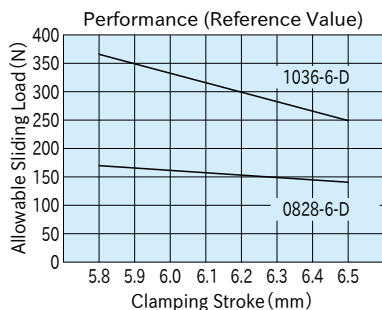
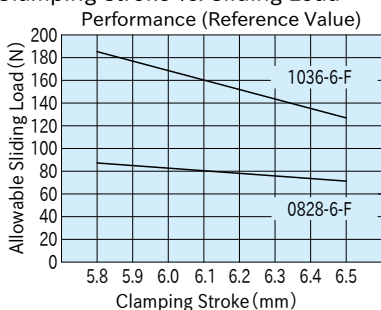
Technical Information

Sliding Load at 6.1 mm Clamping Position

Type	Sliding Load (N)	Holding Torque (N·m)						
		Shaft Dia.						
		φ 10	φ 12	φ 14	φ 15	φ 16	φ 20	φ 25
0828-6-F	80	0.4	0.5	0.6	0.6	0.6	0.8	1
QCPS 0828-6-D	160	0.8	1	1.2	1.2	1.2	1.6	2
QCPSL 1036-6-F	160	0.8	1	1.1	1.2	1.3	1.6	2
1036-6-D	320	1.6	2	2.2	2.4	2.6	3.2	4



Clamping Stroke vs. Sliding Load



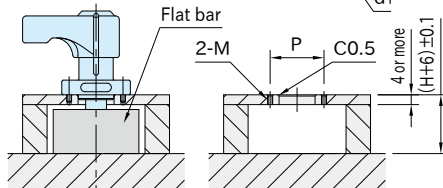
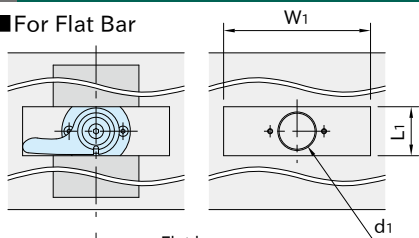
These numerical values are for reference only, under the following conditions.

- 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.

Note: The sliding load is reduced by 30% when the contact surfaces are lubricated.

How To Install

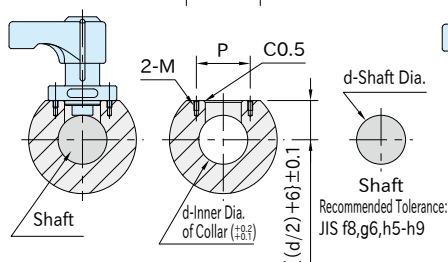
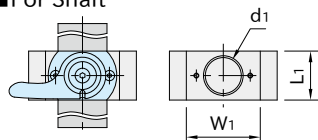
■ For Flat Bar



Size	d1 (+0.3 +0.1)	P	M	W1 (*)	L1 (*)
QCPS	0828-6	14.5	22	M2×0.4 Depth 4 or more C0.5	28 or more
QCPSL	1036-6	17.5	28	M3×0.5 Depth 5 or more C0.5	36 or more

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

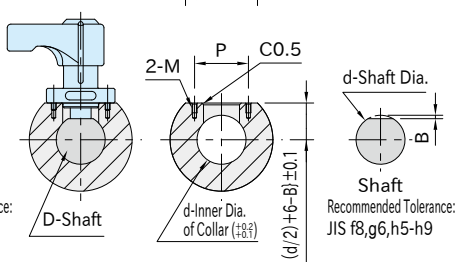
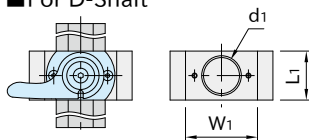
■ For Shaft



- 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.

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

Use only for axial retention of D shafts. Do not use in applications where torque must be held.

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.

Reference

- Push lock units **QCSSL-DK** **QCSSL-DP** are available for use with position indicators.
- Linear Rail Clamp Mounts **QCPSLA** are available for clamping linear rails.

QCPS	QCPSLA
SHAFT COLLARS	LINEAR RAIL CLAMP MOUNTS
QCSSL-DK	QCSSL-DP
ONE-TOUCH PUSH LOCK UNITS	ONE-TOUCH PUSH LOCK UNITS