QCPCS HEAVY DUTY PIN HOLDING CLAMPS

RoHS Stainless Steel

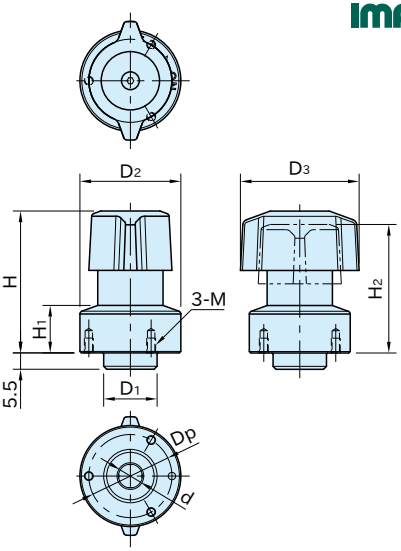
Wedge



QCPCS (Plastic Knob)



QCPCS-SUS Stainless Steel (Stainless Steel)



★Key Point

Minimises space requirement with clamping pins.

Type	Body	Wedge	Knob	Ball	Spring
QCPCS	SUS303 stainless steel	SUS630 stainless steel Precipitation hardened	Polyamide (glass-fiber reinforced) Black	SUS440C stainless steel Quenched and tempered	SUS304WPB stainless steel
QCPCS-SUS			SCS13 stainless steel (Equivalent to SUS304)		

Size		Plate Thickness	d (+0.4 +0.2)	D1 (h9)	D2	D3	H	H1	H2	M	Dp	Clamping Force (N)	Holding Force (N)**	Clamping Pins
QCPCS QCPCS-SUS	0625-20	3~20 *)	6	14	25	30	40	14.7	36	M2×0.4 Depth 4	21	150	450	QCPCS 0625-M4-SUS QCPCSF0625-M5-SUS QCPCSF0625-M6-SUS
	0834-20	3~20 *)	8	18	34	40	48	16	43	M3×0.5 Depth 5	28	250	750	QCPCS 0834-M5-SUS QCPCSF0834-M6-SUS

*) Spacer QCASP is required for thinner plate than 6mm.

**) Exceeding the holding force creates a gap of greater than 0.1mm between plates.

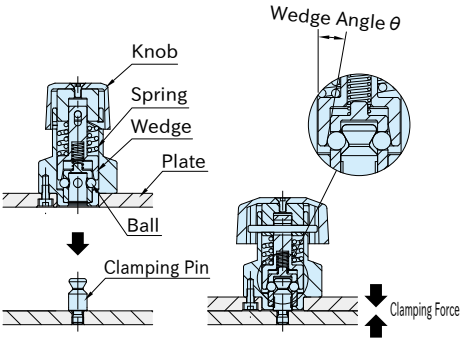
QCPCS (Plastic Knob)		QCPCS-SUS (Stainless Steel)	
Part Number	Weight (g)	Part Number	Weight (g)
QCPCS0625-20	85	QCPCS0625-20-SUS	100
QCPCS0834-20	165	QCPCS0834-20-SUS	195

Supplied With

·QCPCS QCPCS-SUS 0625-20:
3 of socket-head cap screws(stainless steel), M2×0.4-5L

·QCPCS QCPCS-SUS 0834-20:
3 of socket-head cap screws(stainless steel), M3×0.5-6L

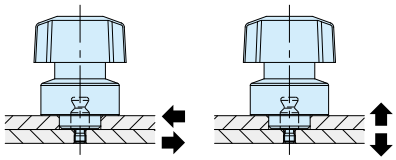
Feature



Four balls hold the Clamping Pin to pull the plate for clamping.

Mechanical Strength

Heatresistant Temperature QCPCS 130℃
QCPCS-SUS 180℃

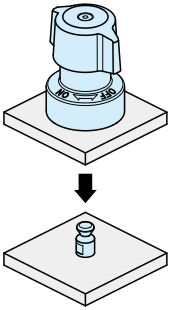


Shear Strength　　Tensile Strength

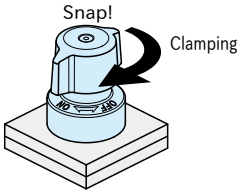
Size		Clamping Pin Size	Shear Strength (N)	Tensile Strength (N)
QCPCS / QCPCS-SUS	0625-20	QCPCS 0625-M4-SUS	1100	1800
		QCPCSF0625-M5-SUS	1800	
		QCPCSF0625-M6-SUS	2500	
	0834-20	QCPCS 0834-M5-SUS	1800	2400
		QCPCSF0834-M6-SUS	2500	

Shear and tensile strength is allowable load and the fastener could break when it receives bigger load.

How To Use



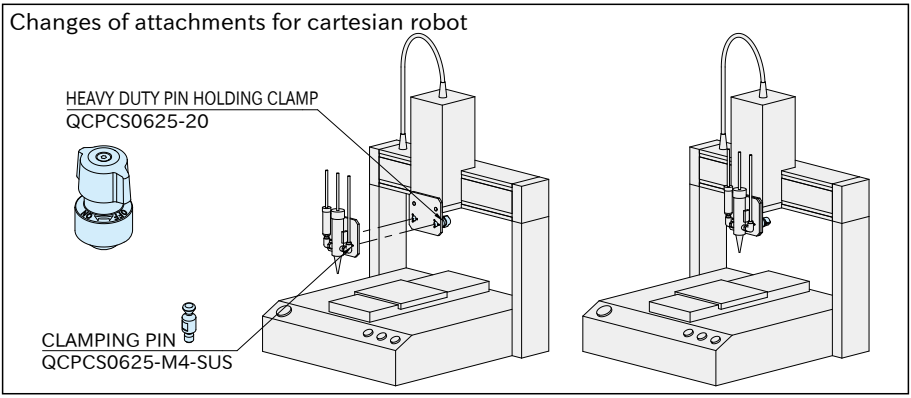
1. Ensure that the knob is positioned at the "OFF" mark and put Pin Holding Clamp over the Clamping Pin.



2. Turn the knob to the "ON" mark for clamping.
Note: For unclamping, follow back these steps.

Application Example

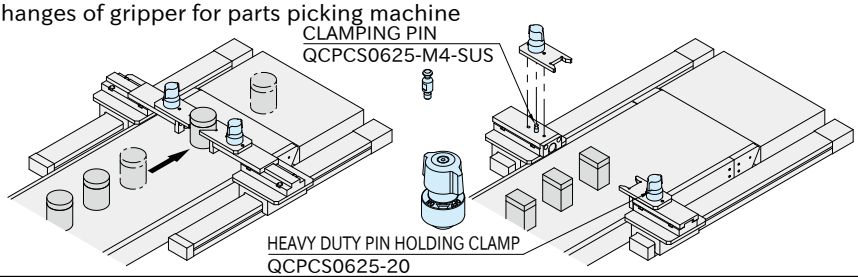
Changes of attachments for cartesian robot



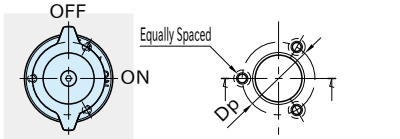
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Application Example

Changes of gripper for parts picking machine



How To Install



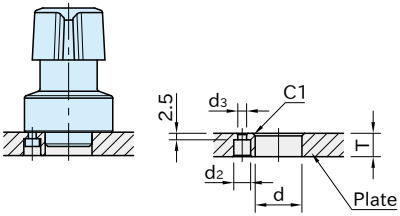
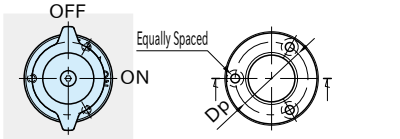


Figure A



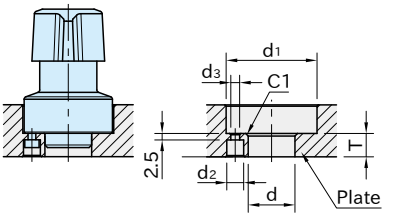


Figure B

Size		Clamping Pin Size	Plate Thickness	Figure	d (+0.10 +0.05)	T (±0.2)	d1	d2	d3	Dp
QCPCS / QCPCS-SUS	0625-20	QCPCS 0625-M4-SUS	3 or more, under 6	Spacer QCASP is required.						
			6	A	14	6	–	4.4	2.4	21
			Over 6, 20 or less	B			26			
		QCPCSF0625-M5-SUS	9 ***)	A		9	–			
		QCPCSF0625-M6-SUS	Over 9, 20 or less	B			26			
	0834-20	QCPCS 0834-M5-SUS	3 or more, under 6	Spacer QCASP is required.						
			6	A	18	6	–	6.5	3.4	28
			Over 6, 20 or less	B			35			
		QCPCSF0834-M6-SUS	9 ***)	A		9	–			
			Over 9, 20 or less	B			35			

QCPCS-M / QCPCSF-M
CLAMPING PINS

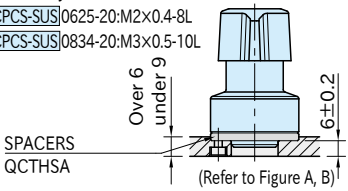


QCASP	QCTHSA
SPACERS	SPACERS



***)For plates with thickness between 6 - 9 mm, QCPCSF-M Clamping Pins are applicable with QCTHSA Spacers.
Hexagon socket head cap screws for fixing are to be provided by customer.

- QCPCS QCPCS-SUS 0625-20:M2×0.4-8L
- QCPCS QCPCS-SUS 0834-20:M3×0.5-10L



Accuracy

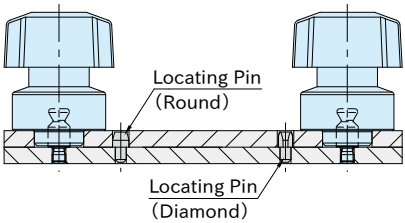
■Machining Accuracy



Spacing tolerance on both the subplate and the base plate should be ±0.1.

■Repeatability

Repeatability ±0.25



For higher accurate locating, use locating pins.

Reference

・"How To Install" of QCPCS-M, QCPCSF-M Clamping Pin.
・Spacer QCASP is required for 3mm or more, under 6mm plate thickness.