RENISHAW
apply innovation™

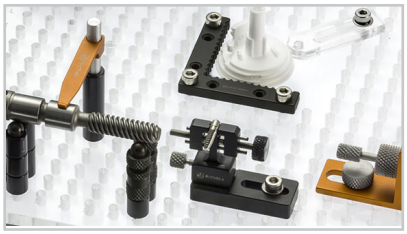
Vision fixtures for Mitutoyo systems

Fixturing made simple

Our QuickLoad™ corner system is designed to fit your vision machine.

The QuickLoad corner contains magnets that allow our acrylic vision base plates to snap into a precise and repeatable position, enabling quick and easy loading and unloading of plates. Steel pins are located into the sides of the plate to align to the magnets contained in the QuickLoad corner.

- Mounting holes allow users to attach the QuickLoad corner to the vision stage, ensuring a secure and stable position.
- Magnets on the QuickLoad corner frame and pins in the acrylic base plates mean the two lock repeatedly into the same position.



Hold almost anything

Renishaw has a wide selection of modular metrology fixturing components, designed to hold even the smallest of workpieces, allowing for maximum visibility and probe access without obscuring any critical features.

Cut inspection time

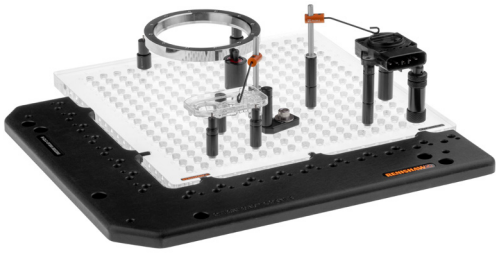
Keep your parts set up on multiple plates, switching on and off the machine within seconds. This minimises down time waiting for fixturing to be set up. Both modular and custom plates can be used on the QuickLoad corner, for even greater flexibility.

Made for easy viewing

Serrations are present on the edges of the QuickLoad corner. Workpieces can be inspected easily when mounted directly against these serrations.

Why use a QuickLoad™ corner?

- Load and unload plates within seconds using quick release magnets.
- Easy to secure to vision stage using mounting holes ensuring repeatable set-ups.
- Ideal for multiple users.
- Dedicated sub-plates available to save you time.
- Flexibility of both modular and custom plates.
- Maximise repeatability and reproducibility when using a QuickLoad corner with labelled components and alpha numeric plates.
- Short payback period.



www.renishaw.com/fixturing

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Build your fixturing solution

1 QuickLoad™ corner

To determine the correct QuickLoad corner (QLC) frame to suit your machine, simply identify your machine model below.

Mitutoyo machine models	
Part number	**Machine model**
R-QLC-MIQI-A10-20-30	A505, A1010, A2010, A2017, A3017
R-QLC-MTIQVAP-S302	Quick Vision Apex Pro and Stream 302
R-QLC-MTIQVAP-S404	Quick Vision Apex Pro and Stream-404; Quick-Active-404
R-QLC-MTIQVEP-QZS-E	Elf 200, 202; Elf Pro 202; QS 200Z, 250Z

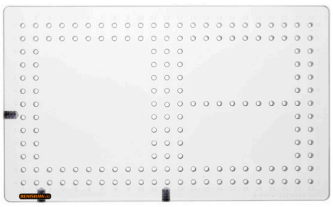
NOTE: Contact your local sales representative if you do not see your machine listed or if you need to discuss requirements for a lower right mounting QuickLoad corner and plate set-up.

2 Plate options

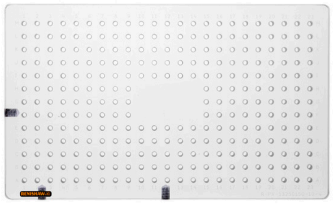
Vision base plates

Workpieces can be placed directly on the acrylic multi-window or multi-hole base plate and are held securely using Renishaw's modular fixturing components, ensuring repeatability and reproducibility.

NOTE: Be mindful of your probe rack and artefacts that may limit the potential plate size used on your machine.



250 mm × 150 mm acrylic base plate:
R-PV-W-13250150-10-4



250 mm × 150 mm acrylic base plate:
R-PV-13250150-10-4

Part number	Thread	Height	Width	Depth	Windows	Spacing (on centre)
M4 multi-hole plates						
R-PV-13150150-10-4	M4	12.0 mm	150.0 mm	150.0 mm	1	10.0 mm
R-PV-13200200-10-4	M4	12.0 mm	200.0 mm	200.0 mm	1	10.0 mm
R-PV-13250150-10-4	M4	12.0 mm	250.0 mm	150.0 mm	1	10.0 mm
R-PV-13250250-10-4	M4	12.0 mm	250.0 mm	250.0 mm	1	10.0 mm
R-PV-13300200-10-4	M4	12.0 mm	300.0 mm	200.0 mm	1	10.0 mm
R-PV-13300300-10-4	M4	12.0 mm	300.0 mm	300.0 mm	1	10.0 mm
R-PV-13400400-10-4	M4	12.0 mm	400.0 mm	400.0 mm	1	10.0 mm
M4 multi-window plates						
R-PVMW-13150150-10-4	M4	12.0 mm	150.0 mm	150.0 mm	4	10.0 mm
R-PV-W-13200200-10-4	M4	12.0 mm	200.0 mm	200.0 mm	5	10.0 mm
R-PV-W-13250150-10-4	M4	12.0 mm	250.0 mm	150.0 mm	3	10.0 mm
R-PV-W-13250250-10-4	M4	12.0 mm	250.0 mm	250.0 mm	5	10.0 mm
R-PVW-13300200-10-4	M4	12.0 mm	300.0 mm	200.0 mm	3	10.0 mm
R-PVW-13300300-10-4	M4	12.0 mm	300.0 mm	300.0 mm	8	10.0 mm
R-PV-W-13400400-10-4	M4	12.0 mm	400.0 mm	400.0 mm	7	10.0 mm
M6 multi-hole plates						
R-PV-13150150-12-6	M6	12.0 mm	150.0 mm	150.0 mm	1	12.5 mm
R-PV-13250250-12-6	M6	12.0 mm	250.0 mm	250.0 mm	1	12.5 mm
M6 multi-window plates						
R-PV-W-13250150-12-6	M6	12.0 mm	250.0 mm	150.0 mm	4	12.5 mm
R-PV-W-13250250-12-6	M6	12.0 mm	250.0 mm	250.0 mm	5	12.5 mm
R-PV-W-13400400-12-6	M6	12.0 mm	400.0 mm	400.0 mm	7	12.5 mm

Part number	Thread	Height	Width	Depth	Windows	Spacing (on centre)
1/4-20 multi-hole plates						
R-PV-501010-50-20	1/4-20	0.47 in	10.00 in	10.00 in	1	0.50 in
R-PV-50128-50-20	1/4-20	0.47 in	12.00 in	8.00 in	1	0.50 in
R-PV-501616-50-20	1/4-20	0.47 in	16.00 in	16.00 in	1	0.50 in
1/4-20 multi-window plates						
R-PV-W-50106-50-20	1/4-20	0.47 in	10.00 in	6.00 in	4	0.50 in
R-PV-W-501010-50-20	1/4-20	0.47 in	10.00 in	10.00 in	5	0.50 in
R-PVW-50128-50-20	1/4-20	0.47 in	12.00 in	8.00 in	4	0.50 in
R-PV-W-501616-50-20	1/4-20	0.47 in	16.00 in	16.00 in	7	0.50 in

3 Component sets for vision measurement

M4 vision fixturing component sets

NOTE: Make sure that the acrylic plate and QuickLoad corner you select will fit your specific machine. Contact your local sales representative to discuss your requirements.

Basic component set
R-V-SET-BSC-4

Intermediate component set
R-V-SET-INT-4

Part number	Description	Basic R-V-SET-BSC-4	Intermediate R-V-SET-INT-4
R-S-65-4*	6.0 mm diameter × 5.0 mm standoff	–	3
R-S-610-4*	6.0 mm diameter × 10.0 mm standoff	3	6
R-S-625-4*	6.0 mm diameter × 25.0 mm standoff	3	6
R-S-95-4*	9.0 mm diameter × 5.0 mm standoff	3	3
R-S-910-4	9.0 mm diameter × 10.0 mm standoff	3	6
R-S-920-4	9.0 mm diameter × 20.0 mm standoff	3	6
R-S-925-4	9.0 mm diameter × 25.0 mm standoff	3	6
R-S-1210-4	12.0 mm diameter × 10.0 mm standoff	3	6
R-S-1225-4	12.0 mm diameter × 25.0 mm standoff	3	6
R-SP-610-4	6.0 mm diameter × 10.0 mm pin standoff	2	4
R-SP-910-4	9.0 mm diameter × 10.0 mm pin standoff	2	4
R-CTT-40-25-4	36.2 mm tension clamp with coated soft tip and 25.0 mm post	2	4
R-CWT-25-25-4	31.3 mm wire clamp with coated soft tip and 25.0 mm post	2	4
R-CWT-50-50-4	49.7 mm wire clamp with coated soft tip and 50.0 mm post	2	4
R-CP-4	Pusher clamp	1	1
R-NTM-1	Magnetic V block	–	1
R-CSPS-1210-4	Spring pusher standoff clamp	1	1
R-RPA-4	Aluminium resting pin	4	4
R-VC-5050-4	50.0 mm × 50.0 mm corner viewer	1	1
R-AJ-9-4	9.5 mm diameter adjustable jack stand	1	2
R-AS-30-4	30.1 mm long adjustable slide	1	2
R-ASA-45-4	45.0 mm long adjustable acrylic slide	1	2
R-TB-1619-4	41.3 mm × 15.9 mm × 25.0 mm tower block	1	1
–	Storage and carry case	1	1
Total number of components in each set		46	84

NOTE: *Component does not have a threaded top.

M6 vision fixturing component sets

NOTE: Make sure that the acrylic plate and QuickLoad corner you select will fit your specific machine. Contact your local sales representative to discuss your requirements.

Basic component set
R-V-SET-BSC-6

Intermediate component set
R-V-SET-INT-6

Part number	Description	Basic R-V-SET-BSC-6	Intermediate R-V-SET-INT-6
R-S-610-6*	6.0 mm diameter × 10.0 mm standoff	3	6
R-S-625-6*	6.0 mm diameter × 25.0 mm standoff	3	6
R-S-95-6*	9.5 mm diameter × 5.0 mm standoff	3	6
R-S-910-6	9.5 mm diameter × 10.0 mm standoff	3	6
R-S-920-6	9.5 mm diameter × 20.0 mm standoff	3	6
R-S-925-6	9.5 mm diameter × 25.0 mm standoff	3	6
R-S-1310-6	12.7 mm diameter × 10.0 mm standoff	3	6
R-S-1325-6	12.7 mm diameter × 25.0 mm standoff	3	6
R-SP-610-6	6.4 mm diameter × 10.0 mm pin standoff	2	4
R-SP-910-6	9.5 mm diameter × 10.0 mm pin standoff	2	4
R-CTT-40-30-6	36.2 mm tension clamp with coated soft tip and 30.0 mm post	2	4
R-CWT-25-25-6	31.3 mm wire clamp with coated soft tip and 23.9 mm post	2	4
R-CWT-50-50-6	49.7 mm wire clamp with coated soft tip and 50.0 mm post	2	4
R-CP-6	Pusher clamp	1	1
R-NTM-1	Magnetic V block	–	1
R-CSPS-1925-6	19.0 mm diameter × 25.0 mm spring pusher standoff clamp	1	1
R-RPS-6	Steel resting pin	4	4
R-VC-7575-6	82.6 mm × 82.6 mm corner viewer	1	1
R-AJ-19-6	19.1 mm diameter adjustable jack stand	1	2
R-AS-45-6	44.5 mm long adjustable slide	1	2
R-ASA-45-6	50.8 mm long adjustable acrylic slide base	1	2
R-TB-2025-6	70 mm × 20 mm × 35 mm tower block	1	1
–	Storage and carry case	1	1
Total number of components in each set		46	84

NOTE: *Component does not have a threaded top.

1/4-20 vision fixturing component sets

NOTE: Make sure that the acrylic plate and QuickLoad corner you select will fit your specific machine. Contact your local sales representative to discuss your requirements.

Basic component set
R-V-SET-BSC-20

Intermediate component set
R-V-SET-INT-20

Part number	Description	Basic R-V-SET-BSC-20	Intermediate R-V-SET-INT-20
R-S-2550-20*	0.25 in diameter × 0.50 in standoff	3	6
R-S-251-20*	0.25 in diameter × 1.00 in standoff	3	6
R-S-37525-20*	0.375 in diameter × 0.25 in standoff	3	6
R-S-37550-20	0.375 in diameter × 0.50 in standoff	3	6
R-S-37575-20	0.375 in diameter × 0.75 in standoff	3	6
R-S-3751-20	0.375 in diameter × 1.00 in standoff	3	6
R-S-5050-20	0.50 in diameter × 0.50 in standoff	3	6
R-S-501-20	0.50 in diameter × 1.00 in standoff	3	6
R-SP-2550-20	0.25 in diameter × 0.50 in pin standoff	2	4
R-SP-37550-20	0.375 in diameter × 0.50 in pin standoff	2	4
R-CTT-160-125-20	1.42 in tension clamp with rubber-coated tip with 1.26 in post	2	4
R-CWT-1-1-20	1.23 in wire clamp with rubber-coated tip with 0.94 in post	2	4
R-CWT-2-2-20	1.96 in wire clamp with rubber-coated tip with 1.76 in post	2	4
R-NTM-1	Magnetic V block	–	1
R-RPS-20	Steel resting pin	4	4
R-VC-33-20	3.25 in × 3.25 in corner viewer	1	1
R-AJ-75-20	0.75 in diameter adjustable jack stand	1	2
R-CP-20	Pusher clamp	1	1
R-CSPS-751-20	0.75 in diameter × 1.00 in spring pusher standoff clamp	1	1
R-AS-1-20	1.37 in long adjustable slide	1	2
R-ASA-2-20	2.00 in long adjustable acrylic slide	1	2
R-TB-751-20	0.75 in × 0.75 in × 1.25 in tower block	1	1
–	Storage and carry case	1	1
Total number of components in each set		46	84

NOTE: *Component does not have a threaded top.

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