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Metrology fixturing plates for AGILITY® CMM systems

Introduction

Renishaw's fixturing base plates provide a platform to begin construction of fixtures on your AGILITY® CMM. Designed to allow for the use of the full measurement volume they are mounted directly to the bed using the M10 threaded inserts.

It is always recommended that our base plates are purchased and installed when considering Renishaw's AGILITY CMMs.

The base plates are precision machined to tight tolerances ensuring that all modular fixturing set-ups are reliable and repeatable.

Base plates for AGILITY CMMs are available in M6, M8 and 1/4-20 thread sizes.

Cast aluminium base plates are hard coat anodised in a black colour to resist wear and scratching and are available in standard sizes to fit your AGILITY CMMs granite bed.

Modular fixturing

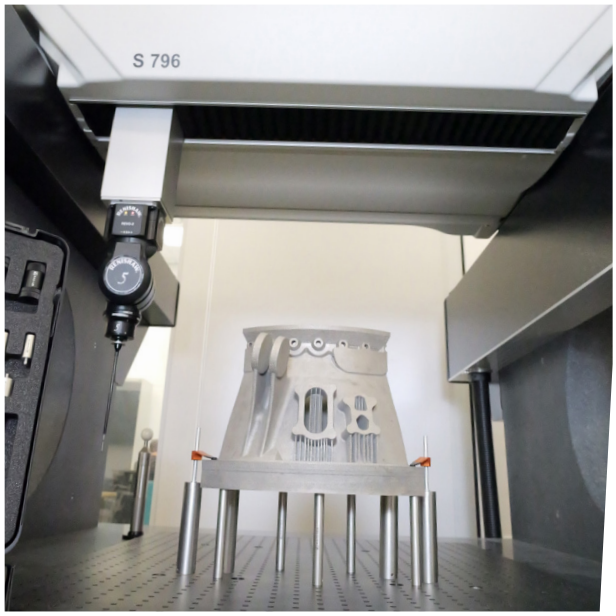
Whether you are inspecting workpieces for aerospace, automotive, electronics, industrial or medical applications, Renishaw's fixturing for CMMs can provide a full solution to your CMM fixturing requirements.

Fixturing solutions can be assembled very quickly to the base plates, which increase throughput and avoid downtime in inspection.

Our modular fixturing solutions are designed to provide a repeatable and reproducible base for metrology inspections. Set-ups can be documented and repeated with accuracy using our alpha-numerically labelled base plates.

Renishaw's fixturing for CMMs are modular and can be expanded with your requirements to provide a fixturing solution for any workpiece regardless of its size, shape or material.

More information on our modular fixturing range can be found in the following document – H-1000-9970.

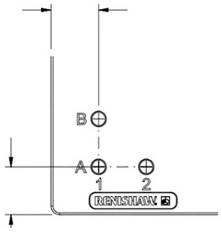


Selecting your base plate

To ensure compatibility with your modular fixturing system, three thread sizes are available.

Based on the thread type selected, the on centre (OC) spacing varies, these are made to match the standard modular fixturing components of same thread type. All plates measure 19.1 mm thickness as standard.

Thread type	OC
M6	25 mm
M8	30 mm
1/4-20	1 in



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The table below outlines the part number required based on your AGILITY CMM model. Depending on the size of the AGILITY CMM a set will contain one, two or three fixture plates.

AGILITY model	Number of plates per set	AGILITY plate part number			Plate size	Single plate weight
		M6	M8	1/4 - 20		
S 796	1	R-PC-796-6	R-PC-796-8	R-PC-796-20	700 × 900 mm 27.55 × 35.43 in	31 kg 70 lbs
S 9158	1	R-PC-9158-6	R-PC-9158-8	R-PC-9158-20	900 x 1500 mm 35.43 x 59.10 in	68 kg 150 lbs
S 12129	1	R-PC-12129-6	R-PC-12129-8	R-PC-12129-20	1200 x 1200 mm 47.24 x 47.24 in	73 kg 159 lbs
S 12209	2	R-PC-12209-6	R-PC-12209-8	R-PC-12209-20	1200 x 996 mm 47.24 x 39.21 in	61 kg 134 lbs
S 162412	2	R-PC-162412-6	R-PC-162412-8	R-PC-162412-20	1600 x 996 mm 62.99 x 39.21 in	81 kg 179 lbs
L 555	1	R-PC-555-6	R-PC-555-8	R-PC-555-20	500 x 500 mm 19.69 x 19.69 in	13 kg 29 lbs
L 796	1	R-PC-796-6	R-PC-796-8	R-PC-796-20	700 x 900 mm 27.56 x 35.43 in	31 kg 70 lbs
L 9158	1	R-PC-9158-6	R-PC-9158-8	R-PC-9158-20	900 x 1500 mm 35.43 x 59.10 in	68 kg 150 lbs
L 122010	2	R-PC-122010-6	R-PC-122010-8	R-PC-122010-20	1200 x 996 mm 47.24 x 40.81 in	73 kg 159 lbs
L 122410	2	R-PC-122410-6	R-PC-122410-8	R-PC-122410-20	1200 x 1196 mm 47.24 x 47.10 in	73 kg 159 lbs
L 123010	3	R-PC-123010-6	R-PC-123010-8	R-PC-123010-20	1200 x 996 mm 47.24 x 39.21 in	61 kg 134 lbs
L 162012	2	R-PC-162012-6	R-PC-162012-8	R-PC-162012-20	1600 x 996 mm 62.99 x 39.21 in	81 kg 179 lbs
L 162412	2	R-PC-162412-6	R-PC-162412-8	R-PC-162412-20	1600 x 996 mm 62.99 x 39.21 in	81 kg 179 lbs
L 163512	3	R-PC-163512-6	R-PC-163512-8	R-PC-163512-20	1600 x 996 mm 62.99 x 39.21 in	81 kg 179 lbs

NOTE: If a replacement plate, from a set, is required as a one off, contact your local representative.

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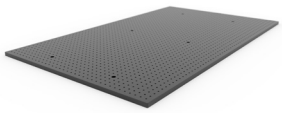


Renishaw metrology fixtures for AGILITY® CMMs

Whether you are inspecting workpieces for aerospace, automotive, electronics or medical applications, Renishaw's metrology fixtures can provide a full solution to your AGILITY co-ordinate measuring machine (CMM) fixturing requirements.

Features and benefits

- Our modular fixturing solutions are designed to provide a repeatable and reproducible base for metrology inspections.
- Fixturing solutions can be assembled quickly to base plates, which increases throughput and avoids downtime in inspection.
- Set-ups can be documented and repeated accurately using our alpha-numerically labelled base plates and FixtureBuilder software.
- Our fixtures are available in modular sets. They can be expanded to create a bespoke solution for your fixturing requirements.







More information on our modular fixturing range can be found in our **technical specification** at **www.renishaw.com/fixtures**.

www.renishaw.com/shop/fixtures

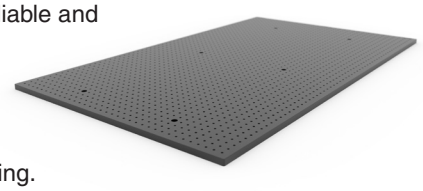
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Base plates for AGILITY® CMM systems

Renishaw's fixturing base plates provide a platform for fixtures on an AGILITY CMM. The base plates mount directly to the machine bed using M10 threaded inserts, so you can use the full measurement volume.

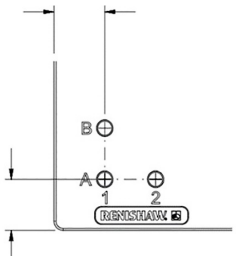
The base plates are precision-machined to tight tolerances, making set-ups reliable and repeatable.



Base plates for AGILITY CMMs are available in M6, M8 and 1/4-20 thread sizes.

Cast aluminium base plates are hard-coat anodised to resist wear and scratching. They are available in standard sizes to fit the AGILITY CMM granite bed.

Thread type	On centre (OC)
M6	25 mm
M8	30 mm
1/4-20	1 in



The part number that you need will depend on the model of your AGILITY CMM, and size of machine will determine whether the set will contain one, two or three fixture plates.

AGILITY CMM model	Number of plates per set	Base plate part number for AGILITY CMM		
		M6	M8	1/4 - 20
S 796	1	R-PC-796-6	R-PC-796-8	R-PC-796-20
S 9158	1	R-PC-9158-6	R-PC-9158-8	R-PC-9158-20
S 12129	1	R-PC-12129-6	R-PC-12129-8	R-PC-12129-20
S 12209	2	R-PC-12209-6	R-PC-12209-8	R-PC-12209-20
S 162412	2	R-PC-162412-6	R-PC-162412-8	R-PC-162412-20
L 796	1	R-PC-796-6	R-PC-796-8	R-PC-796-20
L 9158	1	R-PC-9158-6	R-PC-9158-8	R-PC-9158-20
L 122010	2	R-PC-122010-6	R-PC-122010-8	R-PC-122010-20
L 122410	2	R-PC-122410-6	R-PC-122410-8	R-PC-122410-20
L 123010	3	R-PC-123010-6	R-PC-123010-8	R-PC-123010-20
L 162012	2	R-PC-162012-6	R-PC-162012-8	R-PC-162012-20
L 162412	2	R-PC-162412-6	R-PC-162412-8	R-PC-162412-20
L 163512	3	R-PC-163512-6	R-PC-163512-8	R-PC-163512-20

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QuickLoad™ rail and plates

The QuickLoad rail system is designed to enhance the efficiency and accuracy of your CMM inspections. It provides a secure workpiece position when used with QuickLoad base plates. The base plate fixes accurately to the rail on either side using quick-release magnets and location pins. This ensures precise and repeatable positioning. You can efficiently set up and load parts for inspection on multiple plates to maximise throughput.

With the QuickLoad rail system, you can achieve faster set-up times, higher throughput and improved quality across a range of industrial applications.



QuickLoad™ rails

Part number	Thread	Thickness	Width	Length
R-QLR-1350450	M4/M6/M8	12.5 mm	50.0 mm	450.0 mm
R-QLR-1350600	M4/M6/M8	12.5 mm	50.0 mm	600.0 mm
R-QLR2-1350600 (2 rails)	M4/M6/M8	12.5 mm	50.0 mm	600.0 mm
R-QLR-50218	1/4-20	0.50 in	2.00 in	18.00 in
R-QLR-50224	1/4-20	0.50 in	2.00 in	24.00 in
R-QLR2-50224 (2 rails)	1/4-20	0.50 in	2.00 in	24.00 in

NOTE: All QuickLoad rails come with locating washers and M6, M8, M10, M12 and 1/4-20 cap head screws.

QuickLoad™ plates

Part number	Thread	Height	Width	Depth	Hole spacing on centre (OC)
R-QLPC-13150150-12-6	M6	12.7 mm	150.0 mm	150.0 mm	12.5 mm
R-QLPC-13300300-12-6	M6	12.7 mm	300.0 mm	300.0 mm	12.5 mm
R-QLPC-13450450-12-6	M6	12.7 mm	450.0 mm	450.0 mm	12.5 mm
R-QLPC-13300300-15-8	M8	12.7 mm	300.0 mm	300.0 mm	15.0 mm
R-QLPC-13450450-15-8	M8	12.7 mm	450.0 mm	450.0 mm	15.0 mm
R-QLPC-5066-50-20	1/4-20	0.50 in	6.00 in	6.00 in	0.50 in
R-QLPC-501212-50-20	1/4-20	0.50 in	12.00 in	12.00 in	0.50 in
R-QLPC-501818-50-20	1/4-20	0.50 in	18.00 in	18.00 in	0.50 in

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Fixturing component sets

Renishaw fixturing sets come in a variety of sizes and feature different thread types to meet your application needs.

The components are manufactured using durable 303 stainless steel or anodised 6082 aluminium which ensures longevity.

The sets are housed within a practical storage case and include everything you need to create fixtures to suit your workpiece sizes and shapes.

You can expand the standard sets with our range of compatible add-ons, including magnets and standoffs.





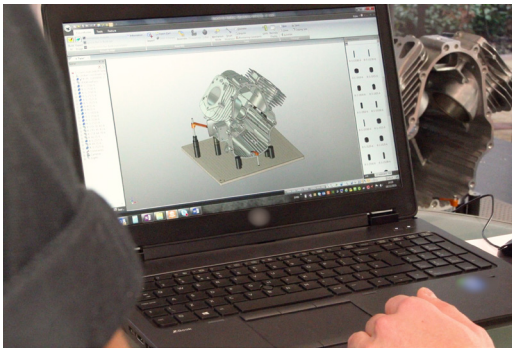
Part number	Size	Number of components	Thread type
R-C-SET-INT-6	Intermediate	111	M6
R-C-SET-INT-8	Intermediate	111	M8
R-C-SET-INT-20	Intermediate	111	1/4-20
R-C-SET-PRO-6	Professional	180	M6
R-C-SET-PRO-8	Professional	180	M8
R-C-SET-PRO-20	Professional	180	1/4-20
Magnet add-on sets			
R-M-SET-BSC-6	Basic	12	M6
R-M-SET-BSC-8	Basic	12	M8
R-M-SET-BSC-20	Basic	12	1/4-20
R-M-SET-INT-6	Intermediate	25	M6
R-M-SET-INT-8	Intermediate	25	M8
R-M-SET-INT-20	Intermediate	25	1/4-20
Standoff add-on sets			
R-S-SET-BSC-6	Basic	34	M6
R-S-SET-BSC-8	Basic	34	M8
R-S-SET-BSC-20	Basic	34	1/4-20

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3D fixture modelling software

FixtureBuilder is 3D fixture modelling software for creating fixturing set-ups. You can drag and drop component models onto the base plate or another component.

The 'Build it' feature generates work instructions and supports offline programming for CMM, Equator™ gauging, and vision inspection.



12-month subscription service

We offer a complimentary 12-month subscription to our FixtureBuilder 3D modelling software with the purchase of qualifying products.

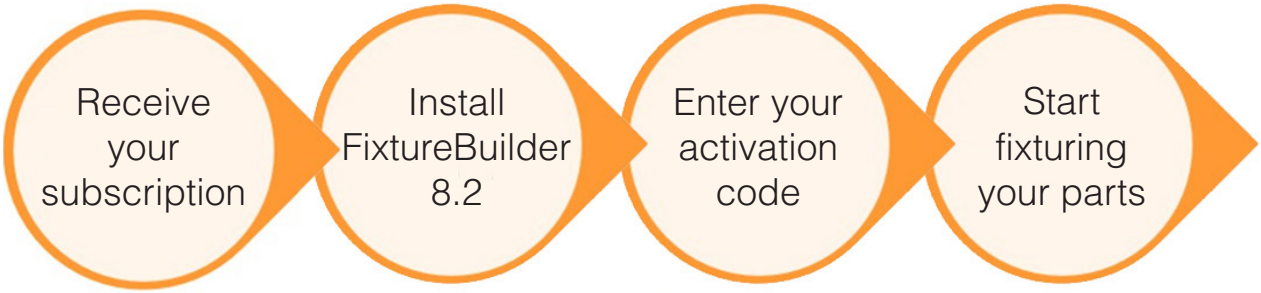
For subscription or perpetual licences, visit our Online store or contact your local Renishaw office.

Part number	Licence description
CS-SOF-SW-17-FBCU	FixtureBuilder licence sold with Renishaw Licence Manager software
CS-SOF-SUBS-17-FBNU	Annual subscription, sent as an activation code for named user
CS-SOF-SW-17-FBNRMS	Renishaw Licence Manager software controlled licence
CS-SOF-SW-17-FBNU	FixtureBuilder licence distributed via a download
CS-SOF-SW-17-FBTRANS	Additional translator module for CATIA, ProE, UGNX, Solidworks and Inventor Distributed via download
A-6490-0052	FixtureBuilder licence for offline users, distributed on a dongle, transferable between work stations
A-6490-0055	Renishaw Licence Manager hardware, dongle controlled

Training and support from Renishaw

To access a free 30 day trial, watch training videos, read our frequently asked questions and learn more about our support services, visit **www.renishaw.com/fixturebuilder**.

Four easy steps to get started



www.renishaw.com/contactus **#renishaw**

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