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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

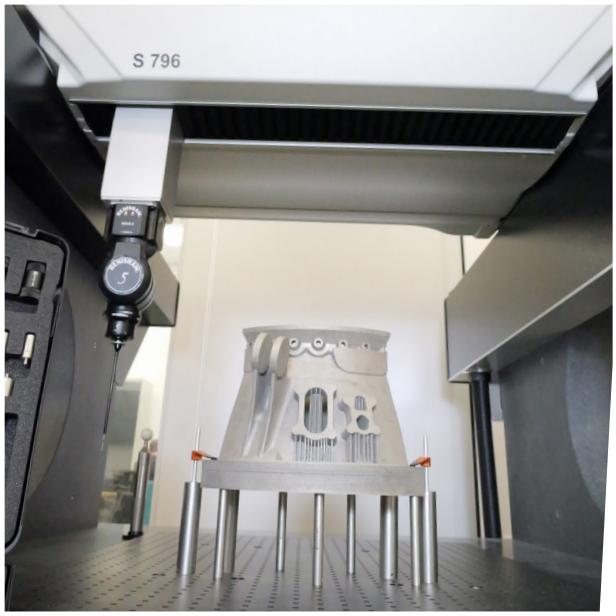
Whether you are inspecting workpieces for aerospace, automotive, electronics, industrial or medical applications, Renishaw's fixturing for CMMs can provide a full solution to your CMM fixturing requirements.

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.

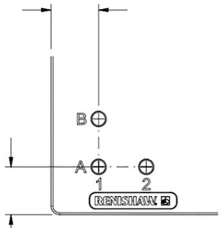


Selecting your base plate

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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Metrology fixture table

Specifications

Applications	Portable CMMs, 3D scanners, portable measuring stations
Table height including plate	900 mm (36 in)
Drawer and shelf sizes	See table set dimensions
Thread sizes	Square grid pattern, M6 - 25 mm, M8 - 30 mm 1/4-20 - 1 in
Safe working load	Table 400 kg (800 lb)
Shipped	Fully assembled
Materials	Frame - aluminium extrusion, plate - hard anodised aluminium
Table feet	Heavy duty levelling feet with castor wheels

Accessories

Compatible with portable CMMs/articulating arms/measuring arms/scanners, using universal adaptor plate R-PAACU

Note: Ask your local sales representative about custom options.

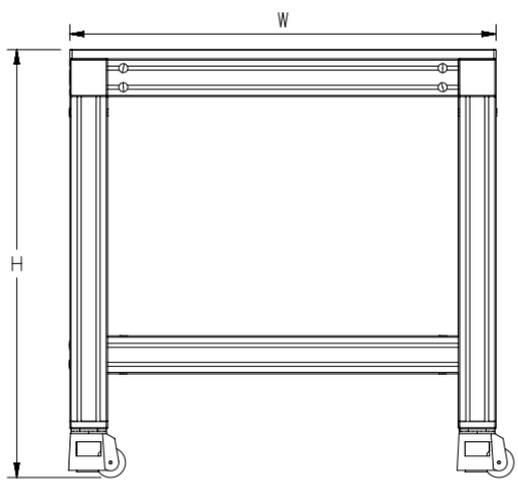


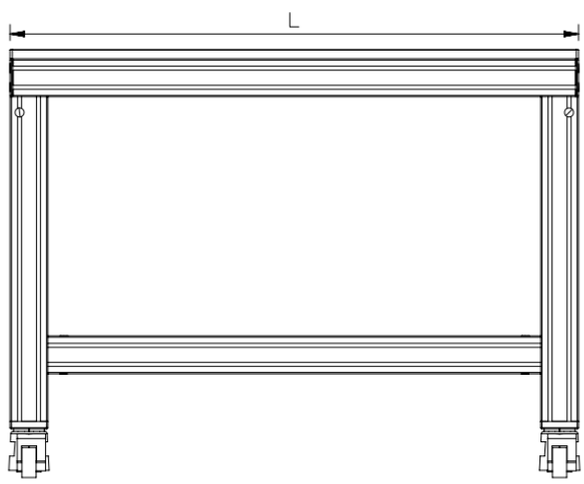
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Tables

Table options				
Part number	**Dimensions (L × W)**	**Hole spacing**	**Thread type**	**Weight***
R-TM-1200900-25-6	1200 mm × 900 mm	25 mm	M6	112 kg
R-TM-1200900-30-8	1200 mm × 900 mm	30 mm	M8	112 kg
R-TM-1500900-25-6	1500 mm × 900 mm	25 mm	M6	131 kg
R-TM-1500900-30-8	1500 mm × 900 mm	30 mm	M8	131 kg
R-TM-18001200-25-6	1800 mm × 1200 mm	25 mm	M6	183 kg
R-TM-18001200-30-8	1800 mm × 1200 mm	30 mm	M8	183 kg
R-TM-4735-1-20	47.24 in × 35.43 in	1 in	1/4–20	246.9 lb
R-TM-5935-1-20	59.06 in × 35.43 in	1 in	1/4–20	288.8 lb
R-TM-7147-1-20	70.81 in × 47.24 in	1 in	1/4–20	403.4 lb

* Weight of table and plate





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