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Renishaw CMM Products Division
PRODUCT BULLETIN – PBC1760

Product:	MRS2	**Status:**	Open
Title:	MRS2 launch	**Date:**	01/05/2015

Distribution:	Internal	Subsidiaries	OEMs	Distributors	Retrofitters

Originator: Gareth Puntis	
Reviewer: Andy Holding	

Summary:

Renishaw is pleased to announce the release of the MRS2 modular rack system.

The MRS2 is a highly versatile storage solution for Renishaw probe and stylus configurations. It has been designed for users who are increasingly using their CMMs for multi sensor measurement, and therefore need to store greater varieties of probes and styli on racks within a limited machine working volume.

MRS2 is built entirely from extruded aluminium and is available in a variety of interchangeable rail and leg kits that can be configured according to the need of the individual. Leg and rail kits are sold separately to allow maximum flexibility. Rails can be tiered, using the front and back spaced rail kits, to offer up to three meters of rail space.

Orders for MRS2 can now be taken for delivery from June 2015.

Please note: MRS1 will continue to be made available for 12-18 months after the launch of MRS2.

If you have any questions or comments on this bulletin please visit www.renishaw.com/cmmsupport and use the "Contact" facility. This will ensure that your call is logged and processed efficiently.
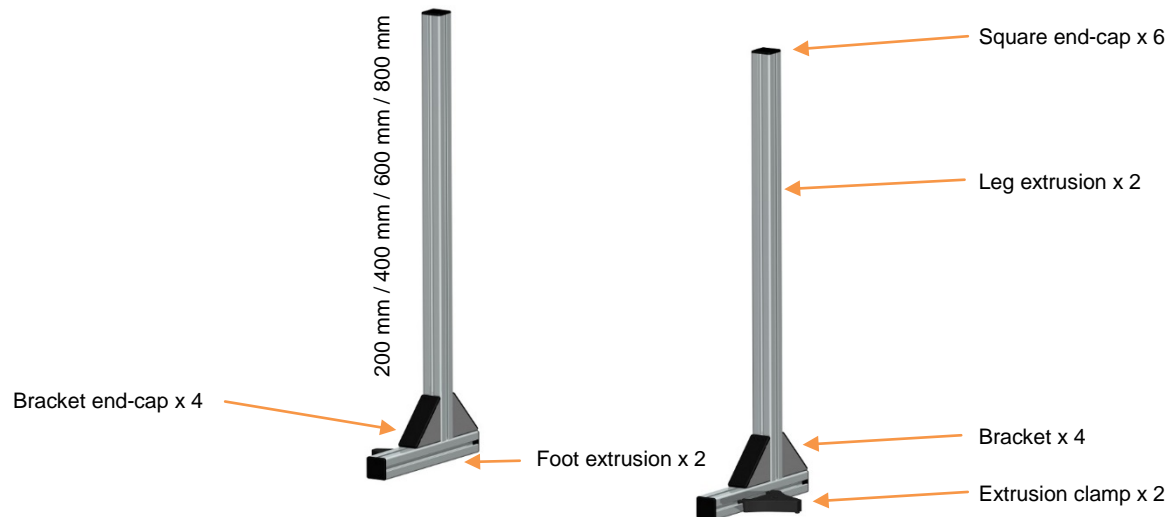
Further details:

Leg kits

Four different leg length options are available to allow clearance for long styli and extension bars. These are 200 mm, 400 mm, 600 mm and 800 mm.

As seen in the image below, the MRS2 legs are mounted on the CMM table with two extruded aluminium feet. These feet are attached to the CMM bed via two clamps.
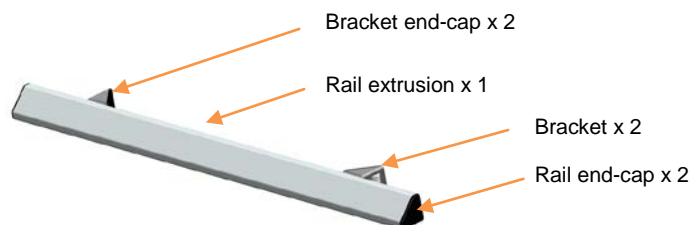
Standard leg kit contents:

Square end-cap x 6

Leg extrusion x 2

200 mm / 400 mm / 600 mm / 800 mm

Bracket end-cap x 4

Foot extrusion x 2

Bracket x 4

Extrusion clamp x 2

Rail kits

MRS2 is available with rail lengths of 400 mm, 600 mm and 1000 mm to suit a variety of port and rack changing requirements. Rails can be tiered, using the front and back spaced rail kits, to offer up to three meters of rail space. Moreover, rails of different lengths can be tiered, or rails of the same length can be cantilevered, to give extra height for long styli.
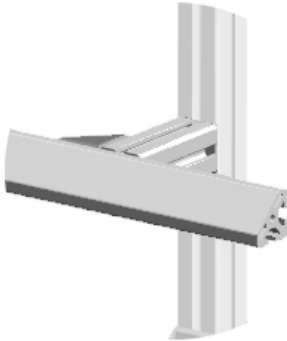
Standard rail kit contents:

Bracket end-cap x 2

Rail extrusion x 1

Bracket x 2

Rail end-cap x 2

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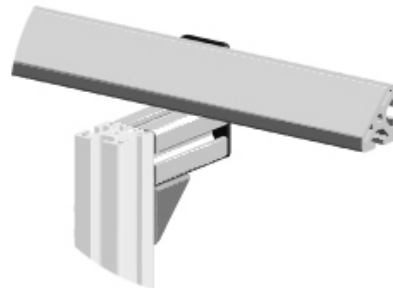
Front and back spaced kits

The MRS2 front and/or back spaced rail kits must be used whenever a second and third tier is added. The MRS2 front spaced kits offset the rail 100 mm forward, while the back spaced kits offset the rail 80 mm backward.
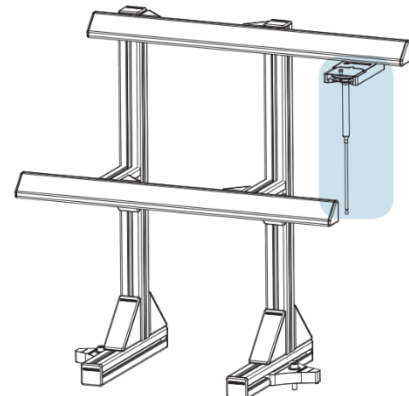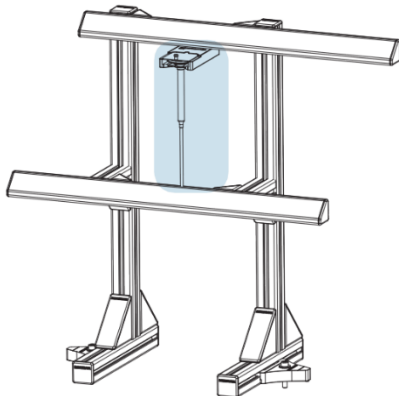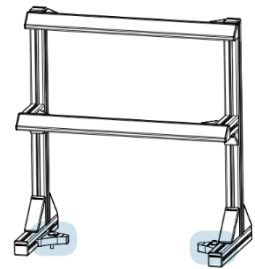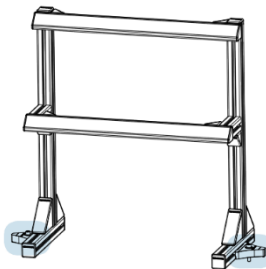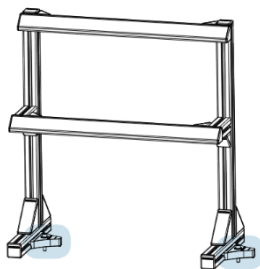
MRS2 front spaced kit

MRS2 back spaced kit

Long probes and styli

Overhanging probes/styli should not hang behind the rail below. To avoid collision, long styli should be placed on cantilevered rails, to one side of the rail below.

Foot clamps

Foot clamps should always face in opposing directions. Facing the foot clamps in the same direction will reduce the structural integrity of the rack. Moreover, foot clamps should be seated in the middle of the foot extrusion.

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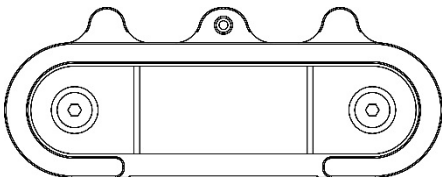
New D-nut system

MRS2's new D-nut system makes it easier to mount new ports without having to remove old ports attached to the rack. These new nuts can be rolled in at any point along the rail's length.

Please note: MRS1 T-nuts can be used on MRS2. However, MRS1 nuts should be inserted into the end of the rail, rather than being rolled in mid-way along the rail. MRS2 D-nuts are not compatible with MRS1.

MRS2 spirit level

The MRS2 spirit level (A-6007-0630) ensures that the MRS2 rails are attached perpendicular to the rack legs. The spirit level attaches to the MRS2 rails via a location boss with a spring loaded plunger. It should be purchased separately to the MRS2 rail and / or leg kits.

Change port compatibility

MRS2 is specifically designed to carry Renishaw's ACR3, FCR25 change racks, its SCP600, SCP80, RCP2, RCP, RCP TC-2 and RCP TC change ports, and the SFA and SFCP surface finish peripherals.

RBE

MRS2 is not repairable. In the event of damage, kits should be replaced with new product. Spare end-caps, D-nuts and extrusion clamps are available.

User documentation

A language neutral installation guide is included in every MRS2 leg kit. This guide is also available from www.renishaw.com/cmmguides

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OPEN

Part numbers:

Product description	Part number
MRS2 leg kits	
MRS2 200 mm leg kit (including 4 x 200 mm leg extrusions, 4 x 40 mm brackets, 6 x square end caps, 2 x extrusion clamps)	A-6007-1020
MRS2 400 mm leg kit (including 2 x 400 mm leg extrusions, 2 x 200 mm leg extrusions, 4 x 40 mm brackets, 6 x square end caps, 2 x extrusion clamps)	A-6007-1040
MRS2 600 mm leg kit (including 2 x 600 mm leg extrusions, 2 x 300 mm leg extrusions, 4 x 80 mm brackets, 6 x square end caps, 2 x extrusion clamps)	A-6007-1060
MRS2 800 mm leg kit (including 2 x 800 mm leg extrusions, 2 x 300 mm leg extrusions, 4 x 80 mm brackets, 6 x square end caps, 2 x extrusion clamps)	A-6007-1080
MRS2 rail kits	
MRS2 400 mm rail kit (including 1 x 400 mm rail, 2 x triangular end caps, 2 x 40 mm brackets)	A-6007-2040
MRS2 600 mm rail kit (including 1 x 600 mm rail, 2 x triangular end cap, 2 x 40 mm brackets)	A-6007-2060
MRS2 1000 mm rail kit (including 1 x 1000 mm rail, 2 x triangular end caps, 2 x 40 mm bracket)	A-6007-2100
MRS2 front spaced rail kits	
MRS2 front spaced 400 mm rail kit (including 1 x 400 mm rail, 2 x 100 mm front spacers, 4 x 40 mm brackets, 4 x 40 mm bracket end caps, 2 x triangular end caps)	A-6007-3040
MRS2 front spaced 600 mm rail kit (including 1 x 600 mm rail, 2 x 100 mm front spacers, 4 x 40 mm brackets, 4 x 40 mm bracket end caps, 2 x triangular end caps)	A-6007-3060
MRS2 front spaced 1000 mm rail kit (including 1 x 1000 mm rail, 2 x 100 mm front spacers, 4 x 40 mm brackets, 4 x 40 mm bracket end caps, 2 x triangular end caps)	A-6007-3100
MRS2 back spaced rail kits	
MRS2 back spaced 400 mm rail kit (including 1 x 400 mm rail, 2 x 80 mm back spacers, 2 x 40 mm flat brackets, 2 x 40 mm brackets, 2 x 40 mm bracket end caps, 2 x triangular end caps)	A-6007-4040
MRS2 back spaced 600 mm rail kit (including 1 x 600 mm rail, 2 x 80 mm back spacers, 2 x 40 mm flat brackets, 2 x 40 mm brackets, 2 x 40 mm bracket end caps, 2 x triangular end caps)	A-6007-4060
MRS2 back spaced 1000 mm rail kit (including 1 x 1000 mm rail, 2 x 80 mm back spacers, 2 x 40 mm flat brackets, 2 x 40 mm brackets, 2 x 40 mm bracket end caps, 2 x triangular end caps)	A-6007-4100
MRS2 accessories	
MRS2 spirit level	A-6007-0630
Extrusion clamp kit (including 1 x extrusion clamp, 1 x M8 bolt, 1 x M10 bolt, 1 x M10 washer, 1 x M8 adapter)	A-6007-0620
10 x M8 D-nuts and bolts	A-6007-0810
Triangular end cap kit (4 x triangular end caps)	A-6007-0710
Square end cap kit (6 x square end caps)	A-6007-0720
40 mm bracket end cap kit (4 x 40 mm bracket end caps)	A-6007-0740
80 mm bracket end cap kit (4 x 80 mm bracket end caps)	A-6007-0780

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