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Renishaw CMM Products Division
PRODUCT BULLETIN – PBC1758

Product:	REVO RSP3-6	**Status:**	Open
Title:	RSP3-6 launch	**Date:**	30th March 2013

Distribution:	Internal	Subsidiaries	OEMs	Distributors	Retrofitters

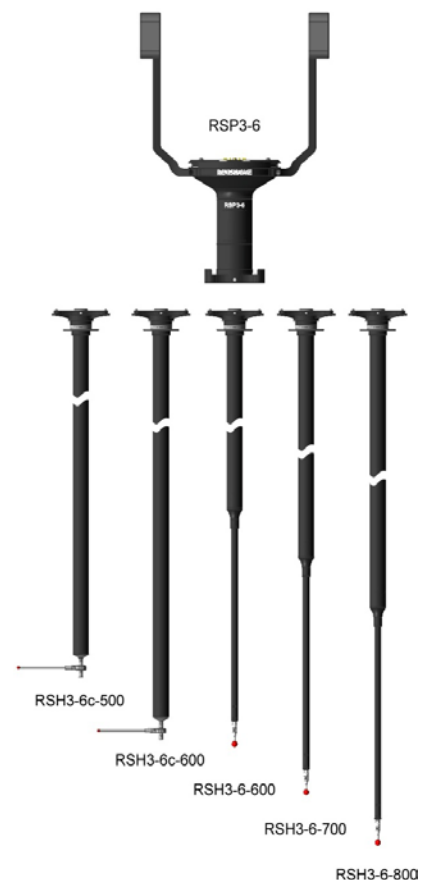| **Originator:** Gareth Puntis	
Reviewer: Andy Holding	

Summary:

Renishaw is pleased to announce the release of RSP3-6, a new addition to the RSP3 range of probes for REVO®.

RSP3-6 has been developed to meet the growing need for flexible inspection in industries manufacturing large parts for heavy machinery. It provides REVO users with enhanced capability for accessing and inspecting features deep within bores.

The probe can be used for both 3D touch-trigger and 2D scanning applications, and it is available with a range of stylus holders for applications requiring either straight or cranked extensions.

RSP3-6 is identifiable by its enlarged stylus holder kinematic and two counterbalance arms which work to counteract the extra mass and torque applied by its long stylus holders.

RSP3-6

RSH3-6c-500
RSH3-6c-600
RSH3-6-600
RSH3-6-700
RSH3-6-800

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:

Stylus holder naming convention

RSP3-6 stylus holder names are derived from the distance of the stylus ball centre from the REVO A-axis centre of rotation.

For example: The 670 mm long RSH3-6-800 stylus holder provides 800 mm extension from REVO's A-axis centre of rotation when used with a 10 mm stylus.

* With M2 x 10mm stylus
** Min bore size ∅50 mm

Effective working length, crank and styli carrying capability

Stylus holder	Stylus holder length	Effective working length (EWL)		Max straight stylus length	Maximum 'crank out' distance when measured to tip of crank	Maximum permissible mass of crank (star) centre plus all styli	Max operating stylus tip deflection in any orientation
		EWL1	EWL2				
RSH3-6c-500	370 mm	348 mm	415 mm	NA	50 mm	4 g	0.5 mm
RSH3-6c-600	470 mm	448 mm	515 mm	NA	50 mm	4 g	0.5 mm
RSH3-6-600	470 mm	456 mm	524 mm	10 mm	NA	3.42 g	0.5 mm
RSH3-6-700	570 mm	556 mm	624 mm	10 mm	NA	3.42 g	0.5 mm
RSH3-6-800	670 mm	656 mm	724 mm	10 mm	NA	3.42 g	0.5 mm

Change port and rack guidelines

Due to the width of the RSP3-6 counterweight arms, users are required to use a RCP TC-2 change port (part number: A-3061-0310), as opposed to the legacy RCP TC, to enable automated probe changing.

Moreover, Renishaw recommends that the RCP TC-2 change port is used with the forthcoming MRS2 rack with 800 mm legs. This is due to the fact that RSH3-6-800 is too long to be stored on the current MRS1 rack, even when the additional heavy duty legs are used.

Please see PBC1739 for further details on RCP TC-2.

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Media

RSP3-6 user information is available in the new RSP3 user guide on the Renishaw website.

http://www.renishaw.com/en/manuals-and-installation-guide-downloads--14271

RSP3-6 port spacer

Every RSP3-6 probe comes with a spacer that should be used to correctly position ports adjacent to the RCP TC-2 storing RSP3-6. Guidelines for using this tool can be found in the new RSP3 user guide.

Please note: Failure to follow these guidelines could result in REVO colliding with the RSP3-6 counterbalance arms.

Part numbers:

Product description	Part number
RSP3-6 probe (includes RSP3-6 probe and RSP3-6 port spacer)	A-6084-0001
RSH3-6c-500 stylus holder (includes stylus holder, 2 x Ø6 by 10 M2 styli and stylus tools)	A-6084-0015
RSH3-6c-600 stylus holder (includes stylus holder, 2 x Ø6 by 10 M2 styli and stylus tools)	A-6084-0016
RSH3-6-600 stylus holder (includes stylus holder, 2 x Ø6 by 10 M2 styli and stylus tools)	A-6084-0006
RSH3-6-700 stylus holder (includes stylus holder, 2 x Ø6 by 10 M2 styli and stylus tools)	A-6084-0007
RSH3-6-800 stylus holder (includes stylus holder, 2 x Ø6 by 10 M2 styli and stylus tools)	A-6084-0008

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