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Renishaw CMM Products Division

PRODUCT BULLETIN – PBC1745

Product:	REVO RSP3-2	Status:	Open
Title:	RSP3-2 probe now available	Date:	15th August 2014

Originator: Gareth Puntis		Distribution:
Reviewer: Andy Holding		**Internal** ✔ **Subsidiaries** ✔ **OEMs** ✔ **Distributors** ✔ **Retrofitters** ✔

Summary:

As part of ongoing plans to enhance the REVO RSP3 range, Renishaw has released the RSP3-2 3D scanning probe, which complements the existing RSP3-1, 3-3 and 3-4 3D probes. The RSP3-2 is designed for applications requiring an effective working length of 44 mm – 99 mm (using a 20 mm – 75 mm stylus attached to the RSH3-2 stylus holder). In addition to other uses, the probe is expected to be used to produce cal reference files on REVO for Equator installations.

Like other probes in the RSP3 range, RSP3-2 complements the RSP2 by offering Z axis scanning and crank carrying capability. RSP3-2 uses the RCP TC-2 for automated probe changing and the FCR25 for automated stylus holder changing. The RSP3 range can only be used with fixed head positions for machine scanning (i.e. 5-axis measurement is not available).

Please refer to PBC1743 for further information on the new RSH3 stylus holders.

Further details:

Typical crank and styli configurations

The RSP3 range of probes have been optimised to give the best possible performance over a broad range of stylus and crank lengths. Each probe within the range has a recommended effective working length over which it is able maintain a low contact force and give exceptional scanning performance. It is therefore important to adhere to the stylus carrying recommendations given. The table below provides user information for building typical RSP3-2 stylus and crank combinations.

Module / Stylus Holder	Crank down distance using an extension between the stylus holder and the crank centre	3D scanning maximum crank out distance when measured to tip of crank (star) stylus	2D scanning and point taking maximum crank out distance when measured to tip of crank (star) stylus	Maximum down stylus (same as effective stylus reach)	Maximum permissible mass of crank (star) centre plus all styli	Max operating stylus tip deflection in any orientation
RSP3-2 / RSH3-2	49 mm	28 mm	83 mm	99 mm	6 g	0.4 mm
RSP3-2 / RSH3-2	76 mm	28 mm	83 mm	99 mm	7 g	0.4 mm

Part numbers:

Product description	Part number
RSP3-2 probe kit (includes RSP3-2 probe, 1 off RSH3-2 stylus holder, 20mm extension and styli)	A-3060-0332
RSP3-2 RBE probe kit (includes RSP3-2 probe, 1 off RSH3-2 stylus holder, 20mm extension and styli)	A-3060-0332-RBE

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