

## Renishaw Co-ordinate Measuring Machines Product Division

### Product bulletin number: PBC-02338

<b>Title:</b>	MODUS™ 1.9 Release		
<b>Product:</b>	MODUS 1	<b>Issue Date:</b>	04/10/2018
	<b>Name:</b>	<b>Signature:</b>	
<b>Originator:</b>	Tom Lewis	Tom Lewis	
<b>Reviewer:</b>	Andy Holding	Andy Holding	
<b>Confidentiality:</b>	Open	<b>Type:</b>	Product Information
<b>Summary:</b>			
<p>This bulletin is to advise that MODUS 1.9 has now been released for sale. It contains an overview of the functionality and operational changes since MODUS 1.8 Service Pack 1. Full details can be found in the software release notes.</p>			
<b>Distribution – Select at least one</b>			
<input checked="" type="checkbox"/> Subsidiaries <input checked="" type="checkbox"/> Customers <input checked="" type="checkbox"/> Service centres <input checked="" type="checkbox"/> OEMs, Agents & Distributors			

#### New functionality:

- Scanning enhancements focussing on measurement speed:
  - Scan load method - The method for making contact with the part before starting a scan can now be specified for the REVO® RSP2 probe. A head move option can be set which means a quicker load of the probe tip onto the surface.
  - Blended scans – Blended scans are now supported for inner cylinders (using circles or lines) and cones (using circles) (figures 1 - 4). They are also supported for blade sweep programs created using APEXBlade™. This allows new measurement strategies to be used which can increase the speed of data collection.

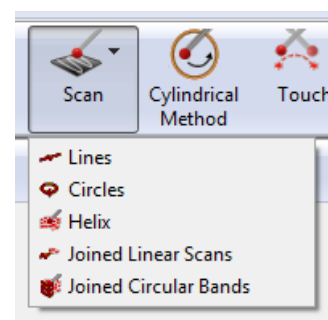


Figure 1 – new scan options

If you have any questions or comments on this bulletin, please contact [cmm.support@renishaw.com](mailto:cmm.support@renishaw.com)

There are now a range of options available for scanning a bore:

- Helix (data is projected into required circular plane)
- **NEW** Joined Circular Bands (in-plane circles; blended helical move between bands; stylus remains on surface) (Figure 2)
- Circles (in plane circles; stylus leaves workpiece between circles)
- **NEW** Joined Line Scans (blended arcs between line scans; stylus remains on surface) (Figure 3)

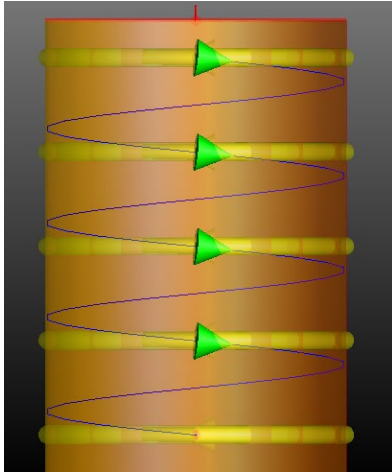


Figure 2 – Cylinder scanning using Joined Circular Bands

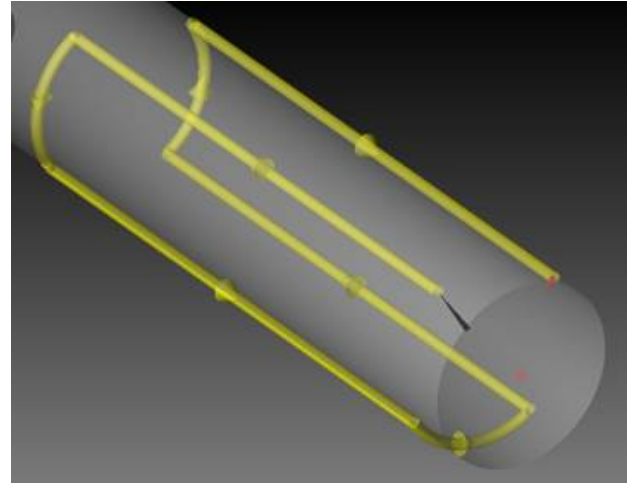


Figure 3 – Cylinder scanning using Joined Linear Scans

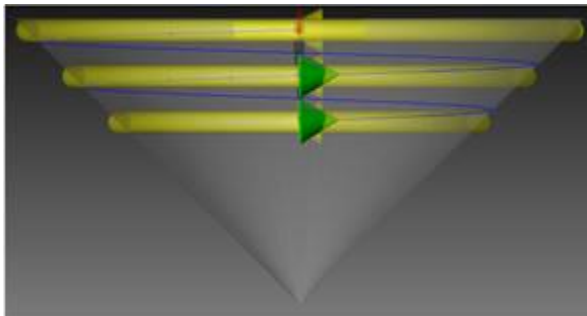


Figure 4 Blended circle scans on cones

- Curve selection enhancements to improve the speed of program creation:
  - Chain picking
  - Closed loop picking
  - Trim plane definition
- Support for arc moves in GOTOs
- PMI Import for SolidWorks and STEP file formats
- PDF printing can now be asynchronous

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## Updated CAD support:

	Modus 1.8 SP1	Modus 1.9
Pro/E	Creo 3.0	Creo 4.0
Catia v5	R25	R28
JT	9.x	10.x
SolidWorks	v2016	v2017/v2018
UG / NX	NX10	NX12
Parasolid	28.0	30.0
STEP	AP214	AP242

## Supported operating systems:

MODUS 1.9 will run with:

- Windows 10 Pro and Enterprise 64-bit
- Windows 7 64-bit Professional, Enterprise and Ultimate (Service Pack 1 minimum)

To prevent possible data corruption occurring with newer hard drive types, we recommend that you install the Windows hotfix available from this link:

<https://support.microsoft.com/en-us/kb/982018>

*Please note: This is the last version of MODUS which will support Windows 7. Future releases of MODUS software will support Windows 10 only.*

## UCCsuite:

To use blended scans, MODUS 1.9 must be used with UCCsuite version 5.3 or later.