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Renishaw Co-ordinate Measuring Machines Product Division Product bulletin number: PBC-02715

Title:	MODUS 1.11 Release			
Product:	MODUS 1	Issue Date:	15/09/2020	
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Confidentiality: Summary:	Open	Type:	Product Information	
Summary: This bulletin is to	advise that MODUS 1 and operational char	.11 has now been released	Product Information d. It contains a brief overview Ill details can be found in the	
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REVO fringe probe (RFP) support – MODUS 1.11 is the first release with full support for RFP inspection.

The three options for measurement are:





- 1. RFP Inspection Planner calls the external application for path planning and generating DMIS programs from CAD. Access and GOTO moves are automatically calculated and can be simulated before creating DMIS.
- 2. Fringe Set for quick capture of a single fringe set. Useful for checking returned data at a specific position or feature during inspection routine planning.
- 3. Image captures 2D images for RVP type vision measurement functions.

If you have any questions or comments on this bulletin, please contact cmm.support@renishaw.com

The point cloud data from RFP is output in xyz or stl formats and can be used to construct surfaces and evaluate profiles.

A separate application provides 2D sectioning functions. These functions are similar to MPCS for data captured with a tactile probe. The existing MPCS licence activates this functionality.

Basic heat mapping of RFP point cloud data is introduced in MODUS CHART (see below and separate bulletin).

Notes:

- To use RFP, MODUS 1.11 must be used with UCCsuite version 5.6 or later.
- RFP digitiser, used for capturing data from parts without a CAD model, is a stand-alone application.

Further details on the RFP system will be issued shortly in a separate bulletin.

ISO and ASME tolerancing Standards

MODUS 1.11 has support for a limited range of ASME 2009 tolerancing and ISO standard tolerancing in addition to the existing ASME 1994 tolerancing. These new standards allow features and datum features to be evaluated simultaneously instead of constraining the datum first. This may result in smaller deviations from the nominal feature definition, which could cause these features to be within tolerance.

Note: The intended drawing standard should always be used.

ASME 1994 will continue to be used as the default tolerancing option.

QIF creation for MODUS CHART reporting

Quality Information Framework (QIF) files are an ISO approved XML standard for storing metrology data. MODUS 1.11 can now create these QIF files which can either be used by 3rd party products or by the new Renishaw reporting software, MODUS CHART.

Further details on MODUS CHART will be issued shortly in a separate bulletin.



Enhancements to surface finish measurement

- New surface finish parameters have been added to both the MODUS surface texture standard, and the MODUS surface texture - advanced** licences:
 - Rdc*, Rvc*, Rp1*, Rv1*, Rvo**, Rpkx** and Rvkx**
- Improved error handling when using surface finish probes
- Independent decimal place control is now available for surface finish outputs

CAD import licence removal

All supported CAD model formats can now be opened in MODUS 1.11 with no CAD licence being required. PMI model import (previously referred to as "....manufacturing option") is still a chargeable add-on.

A complete list of new features can be found in the MODUS 1.11 New Features and Enhancements document available on the Renishaw website from the <u>CMM support and</u> <u>downloads area.</u>

Supported Operating Systems

MODUS 1.11 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 the installation of the Windows hotfix available from this link:

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

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

Licences

MODUS CHART is available free of charge if a customer already has a licence for MODUS 1.11. The CHART licence must still be ordered and then added to the customer dongle (orange dongle only).

Until now, PMI CAD import capability has needed a separate licence for each format. This is now a single licence which allows any PMI CAD model to be imported into MODUS 1.11. The new licence has the part number M-5639-5710.

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The Fringe Inspection Planner and Fringe Digitiser also require separate licences. Details of these will follow in the RFP bulletin.

New part numbers

For details on pricing, please contact your local Renishaw supplier.

MODUS 1.11 new licences	Part number
Customer Licences – Permanent	
MODUS PMI CAD licence	M-5639-5710
Maintenance	
MODUS PMI CAD licence – 1 year maintenance	CS-SOF-MAINT-01- 4044
MODUS PMI CAD licence – 1 month maintenance	CS-SOF-MAINT-01- 4045

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