

## Renishaw Co-ordinate Measuring Machines Product Division

### Product bulletin number: PBC-02342

<b>Title:</b>	APEXBlade™ 4.1 release		
<b>Product:</b>	APEXBlade	<b>Issue Date:</b>	12/10/2018
	<b>Name:</b>	<b>Signature:</b>	
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<b>Reviewer:</b>	Tom Lewis	Tom Lewis	
<b>Confidentiality:</b>	Open	<b>Type:</b>	Product Information
<b>Summary:</b>			
<p>This bulletin is to advise that APEXBlade 4.1 has now been released for sale. It contains an overview of the functionality and operational changes since APEXBlade 4.0. 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:

APEXBlade 4.1 contains enhancements to the process of planning and generating DMIS code for blades and patches. It is also now a 64-bit application, able to handle more system memory.

Some of the new functionality provided by APEXBlade 4.1 is only available if the additional licences for APEXBlade Section or APEXBlade Patch are also installed.

- Additional functions for blade “Section” measurement:
  - Curve scan on faces – Section curve scans are created in APEXBlade on the concave and convex faces, and full sweep scans are created on the leading and trailing edges.

APEXBlade generates DMIS to:

- Measure the Airfoil surface
- Perform partial MPCS (MODUS Point Cloud Sectioning)
- Construct a single curve from the data

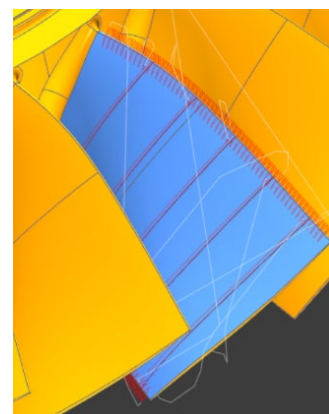


Figure 1 – Curve scan on faces

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

MODUS 1.9 can then execute this DMIS and allow the user to perform airfoil analysis of these constructed sections.

- Joined sweeps – High density sweep scans cover the sections where part data is collected, whilst low density sweep scans occur between the sections where no data is collected.

This method reduces the number of approach and retract moves, reducing cycle time.

APEXBlade generates DMIS to measure the airfoil surface. MODUS 1.9 can then execute this DMIS and allow the user to perform airfoil analysis of sections.

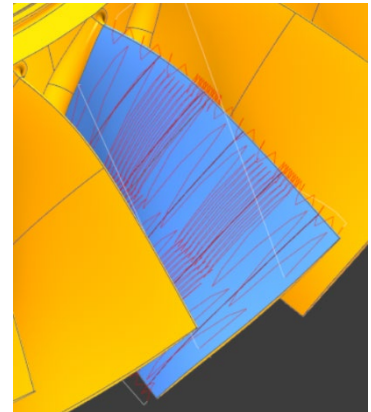


Figure 2 – Joined sweeps

- Additional functions for “Patch” measurement:

- Centre line patch – Defining sweep path by creating a series of points. Quickly and easily edit the scan path and width by adjusting the sweep section nodes.
- Edge patch – Use the CAD edges to determine the sweep path. Select the start point and end point and APEX fills in the gap using its “shortest path” method. Quickly and easily edit scan width by pulling the outer nodes.

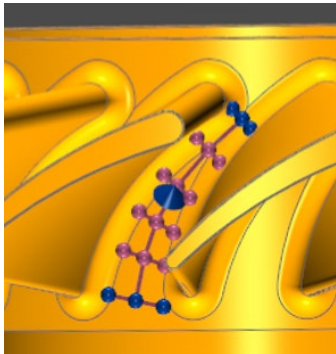


Figure 3 – Centre line patch

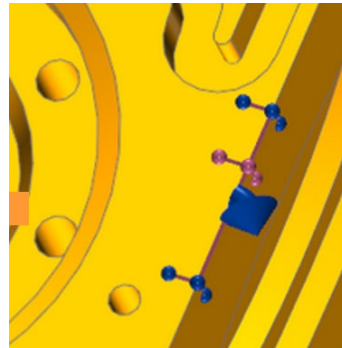


Figure 4 – Edge patch

### Updated processor support:

APEXBlade is now a 64-bit application, able to handle more system memory. This allows the loading of bigger models and the creation of more sweeps and patches.

### Software compatibility:

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

## Upgrades:

Users of APEXBlade 3.2 and later can upgrade to APEXBlade 4.1 using existing licenses and with no additional charge.

## Relevant part numbers:

<b>APEXBlade</b>	<b>Part number</b>
APEXBlade (stand-alone licence)	A-5871-1201
APEXBlade (add-on to existing MODUS licence)	M-5871-1201
APEXBlade additional licence (stand-alone licence)	A-5871-1202
APEXBlade additional licence (add-on to existing MODUS licence)	M-5871-1202
APEXBlade Section	M-5871-1203
APEXBlade Section (additional licence)	M-5871-1204
APEXBlade PATCH	M-5871-1205
APEXBlade PATCH (additional licence)	M-5871-1206
APEXBlade Maintenance	M-5871-1601
APEXBlade Section Maintenance	M-5871-1603

<b>MODUS options</b>	<b>Part number</b>
MODUS Airfoil	M-5639-0008
MODUS Point Cloud Sectioning (MPCS)	M-5639-0225