Improvements
WM | Quartis R2026-2

Update Information

Improvements WM | Quartis R2026-2

At a Glance

WM | Quartis R2026-2 boosts **productivity** in various areas of everyday measurement work – from **preparation** through **measurement** and **evaluation** to the **sharing of measurement results**.

This version introduces new features for **more efficient and standards-compliant evaluation**: **Parallelism** can now be analyzed using an **orientation indicator**, and **line profile** can be evaluated using **linearly varying tolerance zone widths**.

The **accuracy of circle measurements** has also been improved. Circles can be calculated more reliably even when the data is incomplete by specifically holding the **position**, **diameter**, or both. When merging **circle sectors** into a full circle, a new **position alignment** feature compensates for system-related offsets.

In addition, **measurement processes** become more efficient and consistent: The **spline filter** can be applied directly during measurement, **filtering of interrupted measurement sequences** has been improved, and additional response options are available in the event of a **range overflow**.

Reporting and the **sharing of results** have also been enhanced. **Report pages** can be edited directly in **thumbnail view**, and **characteristics data** can be exported to customer-specific **JSON structures**, which simplifies **data integration**.

In addition, **WM | Quartis R2026-2** simplifies the targeted handling of **point clouds**, **extracts**, and **ROIs**. Additional ROI methods, filtering by **normal direction**, and other supported **measurement principles** expand the possibilities for extraction and measurement plan processing.

Other new features include the ability to **insert offset curves** into complex **CAD models** and tactile **curve scanning using a Rotary table**. There are also improvements to **accessories**, **reference spheres**, and **3D graphics** that make orientation easier and support the preparation of measurement tasks.

WM | The Quartis R2026-2 offers numerous useful improvements and enhancements. You can learn more about them on the following pages.

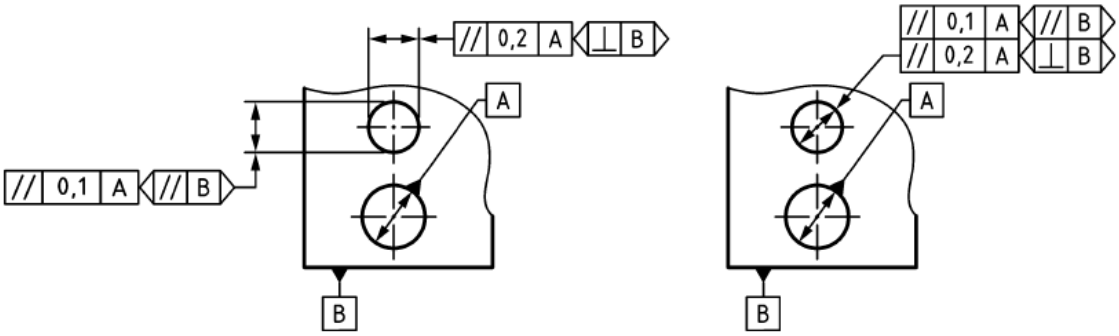
Note:

Some improvements are not included in the standard product WM | Quartis R2026-2 and require additional, chargeable modules. These are described in the document "**Products and Modules WM | Quartis R2026-2**".

Better Measurements and more efficient Evaluation

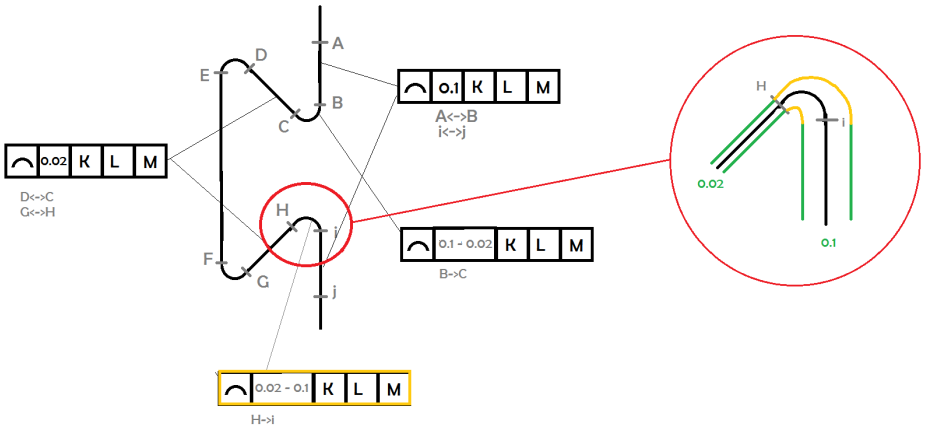
Evaluate Parallelism using an Orientation Indicator (two References)

The **orientation indicator** according to **ISO GPS** is now available for the "**parallelism**" characteristic. This allows for more precise and standards-compliant definitions of evaluations involving **axis elements**. The orientation indicator replaces the second reference previously in use.



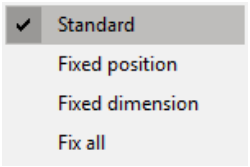
Evaluate Line Profile with a Variable Tolerance Zone

Line profile can now be evaluated using a **linearly varying tolerance zone width**. This makes it easier to model requirements where **different tolerance specifications** apply along the curve.

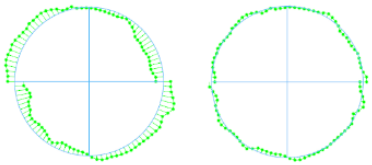


Calculate Circles more Reliably when Data is Incomplete

Circles can now be calculated in a way that specifically holding the **position**, **diameter**, or both. This improves the stability of the evaluation when only a small sector of the circle has been measured and, depending on the application, helps to determine **dimension** or **position values** more reliably.



Merge Semicircles more Precisely into a Circle



If circles are constructed from multiple partial measurements, a new **position alignment** can compensate for system-related offsets.

This is particularly helpful when semicircles have been measured using different **probe systems** or at different **rotary table positions**.

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Manage Measurement Processes More Efficiently

Spline Filtering during Measurement and Improved Filtering of Interrupted Sequences

The **spline filter** can now be applied directly while **measuring** elements. This allows filter effects to be applied earlier in the process and makes measurement sequences more consistent.

Filtering of **interrupted measurement sequences** has been improved. As a result, **Gaussian** and **spline filters** are handled more consistently and are better coordinated when measuring sequences with gaps.

Automatically Save Program Runtimes

The most recently measured **runtime** of a program is now saved. This provides greater **transparency** in day-to-day operations and lays the foundation for future features such as a **remaining runtime display**.

ID	Descr...	Type	Repository	Date created	Date modified	Runtime
1		QUARTIS	<Database>	25.02.2026 13:25:13	25.02.2026 13:31:56	154 (00:02:34)
2		DMIS	<Database>	25.02.2026 13:39:59	25.02.2026 13:43:34	13 (00:00:13)

Show or Hide the Variables Window as Needed

The **variables window** in the measurement program can now be flexibly shown or hidden. This creates more **space** and better adapts the view to different working styles.

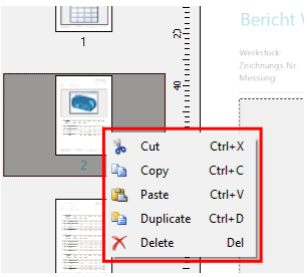
More Options When the Range Is Exceeded

If the **range** is exceeded during program execution, additional response options are now available. These include **repeating an element** and direct access to the **measurement settings**. This simplifies troubleshooting and reduces interruptions in the measurement process.

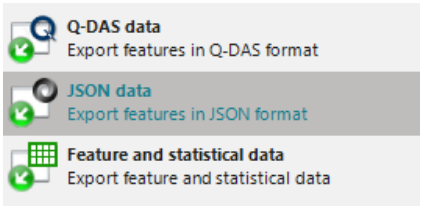
Create Reports more Flexibly and Share Results more Easily

Edit Measurement Report Pages directly in the Thumbnail View

You can now cut, copy, paste, duplicate, and delete report pages directly in the **thumbnail view**. This saves time, makes it easier to reuse **page layouts**, and reduces the manual effort involved in report creation.



Export Attributes Flexibly in JSON Format

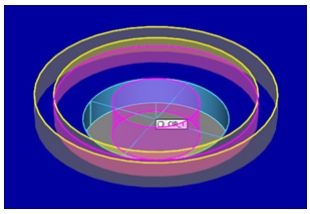


With the new **JSON data** export **feature data** can be exported in customer-specific **JSON structures**.

This simplifies data transfer to other systems and supports individual **data integration** requirements.

Point Clouds, Extracts, and ROIs: Using Them More Effectively

Identify ROIs and Tolerance Zones More Clearly in the Graphics



Extract ROIs and **feature tolerance zones** are now displayed with a visible **border**. This makes it easier to see their spatial extent, which significantly improves navigation within the graphics.

Extract Planes more Precisely around the Desired Area

The ROI methods "**Cylinder: Point**", "**Slot**," and "**Cuboid**" are now available for **plane extraction**. This allows extractions to be better adapted to the actual geometry and performed more precisely around relevant areas.

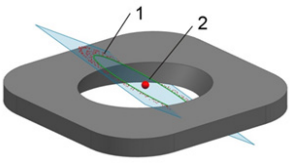
Filter Point Clouds by Normal Direction

Points in a **point cloud** can now be filtered based on their **normal direction**. This allows you to selectively use only the relevant points from scans of both the front and back sides, which improves the quality of **extractions** and **measurement results**.

Axially Shift Element ROIs

For **circles**, **rectangles**, and **slot holes**, the **element ROI** can now be axially shifted relative to the **nominal value**. This is particularly helpful when the target and actual measurement positions are on different planes.

New Measurement Principles Supported

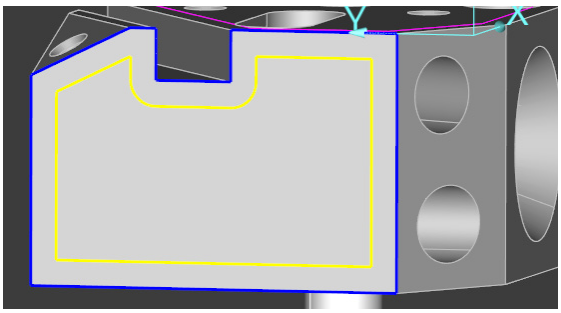


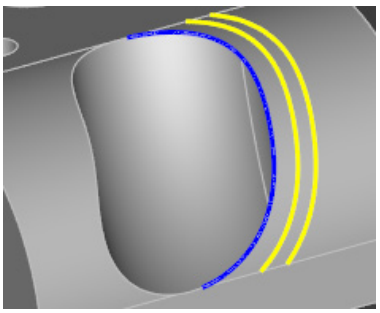
The measurement principles **CB**, **LB**, **EH**, and **DH** are now supported for measurement plans in the **Daimler/Audi Inspection Feature ASCII format**. This allows additional geometries to be automatically converted into new **measurement programs** and **measurement macros**.

Prepare CAD, Curves, and Measurement Plans more Flexibly

Create Offset Curves on Complex Surfaces more Reliably

When inserting **offset curves**, the "**Face Edge**" method is now available. This allows you to create curves on complex **CAD models** more quickly, precisely, and reliably in many cases.





Use Selection Functions Directly When Inserting Curves

The most important **selection functions** are now available directly in the **Insert Curve** ribbon. This simplifies working with **CAD surfaces** and reduces unnecessary menu switching.

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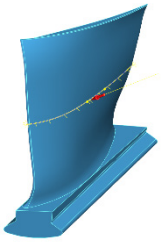
Automatically Add Symmetry Elements to Measurement Plans

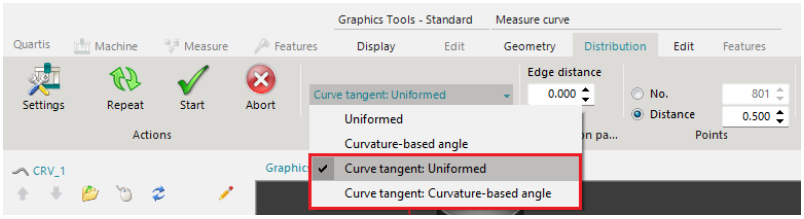
A new application allows you to automatically generate **symmetry elements** for **Daimler/Audi measurement plans**. This simplifies the preparation of symmetrical measurement tasks and reduces the effort required for further **program generation**.

Greater Flexibility with Rotary Tables, Accessories, and Graphics

Tactile Tangential Scanning of Curves Using a Rotary Table

New **curve-tangent** methods are available for tactile **curve scanning with a rotary table**. This ensures that the probe tip remains aligned more favorably with the **part surface**, which makes it easier to scan narrow, elongated, or highly curved profiles and reduces **collisions**.





Capturing Points Using a Rotary Table Measurement Motion

Points can now be specifically located and measured using a **rotary table measurement motion**. This is particularly useful for hard-to-reach areas such as **gaps**, **grooves**, or **cutouts**.

Manage the Mounting Status of Accessories more Quickly and Record it in the Program

The **mounting status** of **accessories** and **reference spheres** can now be changed directly in the **database view** and recorded in the **measurement program**. This reduces the number of clicks, speeds up recurring adjustments, and makes it possible to consistently account for different setups and measurement situations in the measurement program.

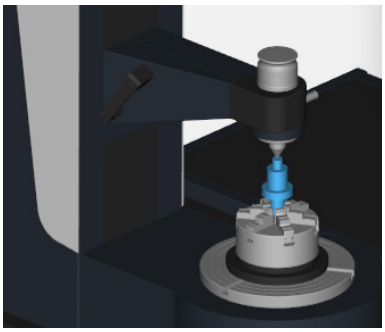
Accessories Mounted on the Rotary Table are Displayed Realistically

Accessories can now be mounted on the **Rotary table**. As a result, accessories and **reference spheres** are displayed in the graphics as rotating along with the table, which improves orientation and aids in **collision detection**.

Effective Counterholder Position Shown in the Graphic

The **position of the counterholder** is now displayed in the **3D graphics**.

In addition, there are expanded options for **offline positioning**, which increases transparency in the measurement process and simplifies preparation.



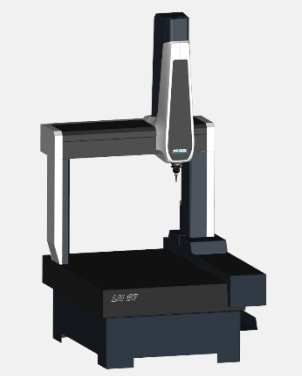
More Highlights for Maximum Productivity

Surface Roughness Measurement with Less Vibration

With the **WM | RS-T**, the **air bearings** can be temporarily deactivated during **surface roughness measurement**. This reduces **vibrations** and improves the quality of the measurement.

Additional Machine Models Available in the Graphics

Further **measuring machine models** are available for display in the **3D graphics**. This enhances the configuration options and the visual representation of different machines.



Updated CAD Interfaces for Greater Compatibility

The supported **CAD interfaces** and **version levels** have been expanded and updated. This improves compatibility with current **CAD systems** and facilitates data exchange.

WM | Quartis R2026-2 supports the following **CAD interface formats**:

- CATIA V4 (4.1.9 to 4.2.4)
- CATIA V5 (R8 to R2026)
- CATIA V6 (up to R2026)
- DXF (2000/2002 and R12)
- IGES (up to 5.3)
- Inventor (V11 to 2026)
- Parasolid (9 to **38.0.x**)
- Creo, ProEngineer (16 to Creo 12)
- Siemens NX (NX1 to **NX2512**)
- Solid Edge (18 to SE **2026**)
- SolidWorks (2003 to 2026)
- STEP (AP203, AP214, AP242)
- VDA (1.0 and 2.0)

The **formats** that have been **changed** compared to WM | Quartis R2026-1 are shown in **bold** in the list above.

In addition, the CAD interfaces have been further enhanced through **general improvements**, **optimizations**, and **bug fixes**.

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Subject to technical modification and to changes in scope and design.