

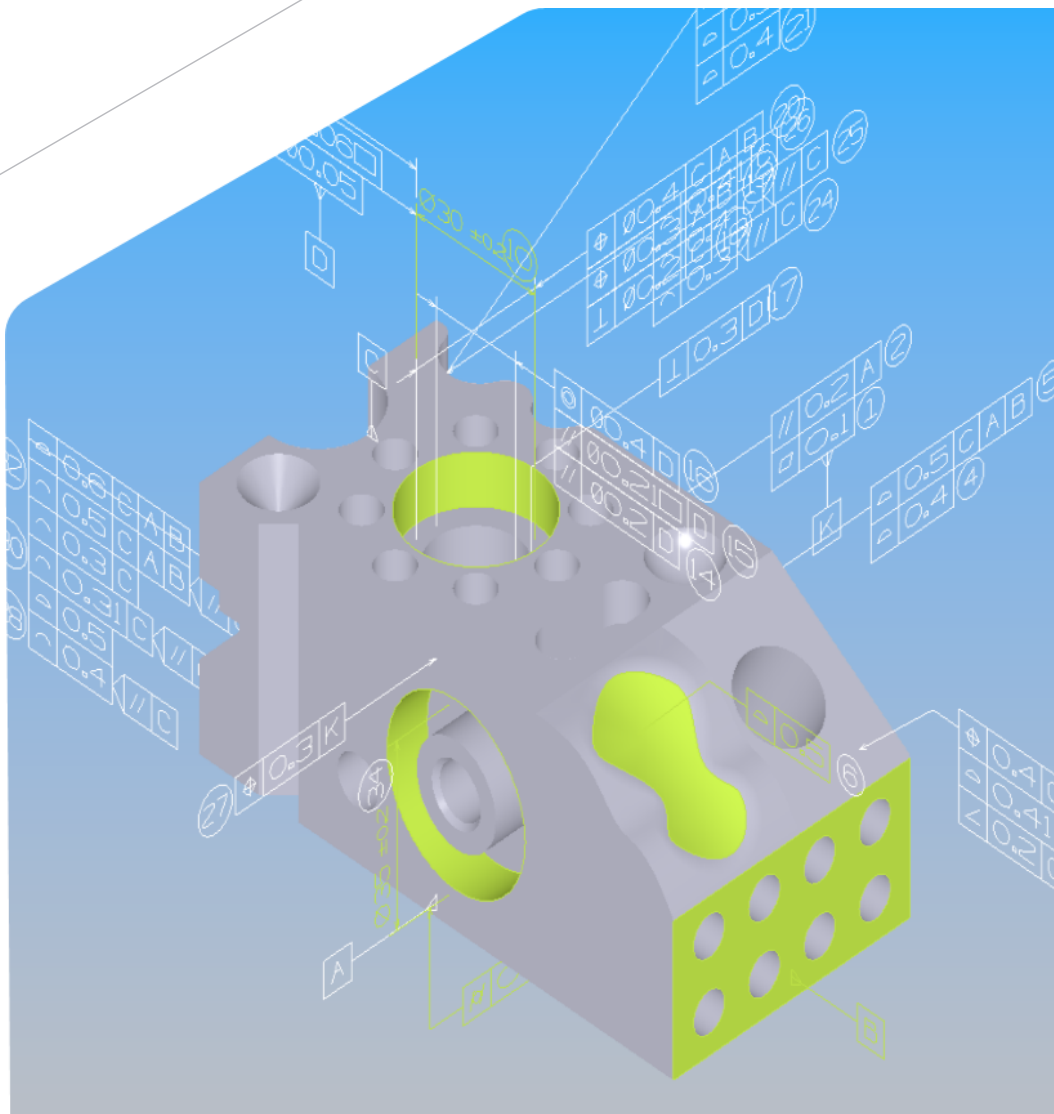


HEXAGON

QUINDOS®

Release Notes

2025.2



User Information

QUINDOS software is software for a specific technical area of application which requires special user knowledge. Accordingly, QUINDOS software should only be used by users with appropriate expertise in the field of measurement technology and in operating the software. This documentation is not a substitute for user training for the software or in the field of measurement technology.

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1 Prerequisites – before installing QUINDOS

This version of QUINDOS is supported on the following operating system

- Windows® 11 Pro, at least Version 23H2, recommended version is 24H2
- Windows® 10 Pro (64 Bit), at least Version 22H2, recommended version is 22H2
Please note that Microsoft support for Windows 10 ends in October 2025.

Important notes: QUINDOS Versions



Please note, a valid software license agreement (SMA) is required to use this version.

2025.2 can be used with a valid SMA contract which contains the date 31.12.2024 (calendar day 365).

The SMA end date is checked during the installation process.

Technical support and software bug-fixes are only provided for the current major release version. An existing maintenance agreement for QUINDOS software is a prerequisite for the receipt of these services.

1.1 Software components and versions

The following operating system components are installed by this QUINDOS version or by an option:

Table 1: Software components and versions

Software component	Version/revision number
Open Cascade	7.6.0
DATAKIT	V2025.1
QUINDOS HostInfo	7.25.24031
Microsoft .NET Framework 4.8	4.8
Microsoft Visual C++ Redistributable	• C-RunTime Libraries for Visual Studio 2012 (11.0.61030) • C-RunTime Libraries for Visual Studio 2013 (12.0.30501) • C-RunTime Libraries for Visual Studio 2022 (14.42.34433)
Sentinel® LDK and Sentinel HASP® Run-time Environment Installer 2017 (HASPUUserSetup)	8.13.45217.60000
IppServer Application	7.27.24365
PloServer	7.27.24365
VimDrvApp	7.27.24365
QUINDOS PPS LogService	7.27.24365
QUINDOS ReportViewer	7.27.24365
QUINDOS PageDesigner	7.27.24365
QUINDOS PageViewer	7.27.24365
HxWCmmMonitor	7.27.24365
HxWDDispatcherTool	7.27.24365
QNXUploader	7.27.24365

1.2 Hardware

PC Minimum Requirements

Hardware

- CPU: Intel® Xeon® W3-2425 Processor (15 MB Cache, 3.0 GHz to 4.4 GHz Turbo)**
- Graphics card: NVIDIA® RTX™ 2000 Ada
- RAM: 16 GB (1 x 16 GB) incl. ECC memory */**
64 GB are required for the QUINDOS Mesh & Point Cloud Inspection option. Performance when working with large CAD models is also improved with more memory.

* No RAM as single modules. Mainboard has to support at least dual channel to support read/write simultaneously on 2 or more RAM modules.

** ECC: Error Correction Code

ECC memory is required for CPU and RAM to guarantee detection and correction of single-bit errors for permanent data integrity and to prevent data corruption, system crashes, and failures.

Further hardware requirements

- Standard European power cable, otherwise according to country of delivery
- Minimum 4 USB ports
- Serial port (COM) if the PC is used to operate the CMM and not only as an offline workstation.
 - It should be noted that, depending on the configuration of the machine, more than 1 serial port is needed. The required number has to be determined depending on the machine if the customers want to purchase the PC themselves. The standard configuration provides only one port.
 - If the serial port is not included in the PC providers' equipment, a USB-to-serial adapter can be used or another converter solution can be considered.
- A network card with 2 RJ45 Gigabit Ethernet ports
 - First network interface for communication with the company network (save/retrieve files/programs) – if wireless access is not possible
 - Second network interface for machine communication (if the PC is used to operate the CMM and not only as a pure offline workstation)
- First hard disk: min. 512 GB SSD; second hard disk: min. 1 TB SATA
- Intel Dual Band Wireless
- Internal system speakers
- Required interfaces to connect the 2 mentioned monitors

The hardware has to guarantee **24-7 continuous operation**.

Please note that only the 3Dconnexion SpaceNavigator® (wired/wireless) is supported. Other devices from the manufacturer are currently not supported.

Monitors

- 2 x 24-inch HD monitors (resolution 1920*1080)



The latest I++Simulator Release Version 2024.2 is recommended.

Laptop Requirements

Hardware

- CPU: Intel® Core i7® -13850HX Processor (20 Cores, 30 MB Cache, up to 5.3 GHz)
- Graphics card: NVIDIA® RTX™ 4000
- RAM: 32 GB (1 x 32 GB)*
Note that 32 GB are sufficient for standard QUINDOS applications. 64 GB are required for the QUINDOS Mesh & Point Cloud Inspection option. Performance when working with large CAD models is also improved with more memory.

* No RAM as single modules. Mainboard has to support at least dual channel to support read/write simultaneously on 2 or more RAM modules.

The minimum graphics card requirement is an **NVIDIA Quadro® RTX 4000** which is the more cost-effective option.

The following NVIDIA graphics cards can be used for the mentioned software if the minimum requirement is not available. The cards are ranked according to their technical specifications (highest first).

Rank	NVIDIA Graphics Card	Link	
1	NVIDIA RTX 6000	NVIDIA RTX 6000	Highest technical level  Minimum requirement
2	NVIDIA RTX 5000	NVIDIA RTX 5000	
3	NVIDIA Quadro RTX 4000	NVIDIA Quadro RTX 4000	

Further hardware requirements

- Standard European power cable, otherwise according to country of delivery
- Minimum 4 USB ports
- Serial port (COM) if the laptop is used to operate the CMM and not only as an offline workstation.
 - Generally, laptops with a serial interface are no longer common. Therefore, a USB-to-serial adapter can be used or another converter solution can be considered.

Prerequisites – before installing QUINDOS

Hardware



- A network card with 2 RJ45 Gigabit Ethernet ports
 - First network interface for communication with the company network (save/retrieve files/programs) – if wireless access is not possible
 - Second network interface for machine communication (if the laptop is used to operate the CMM and not only as a pure offline workstation)
- Hard disk: at least 512 GB
- Intel Dual Band Wireless
- 17.3" display
- Internal system speakers
- Required interfaces to connect the monitor(s)

The hardware has to guarantee 24-7 continuous operation if the laptop is used to operate the CMM.

An additional docking station is recommended to simplify using the laptop as a remote & mobile workstation.

Please note that only the 3Dconnexion SpaceNavigator® (wired/wireless) is supported. Other devices from the manufacturer are currently not supported.

Monitor

- At least 1 monitor (24-inch HD monitor (resolution 1920*1080))
- For greater comfort: Additional 24-inch HD monitor (resolution 1920*1080)

2 QUINDOS licensing

2.1 QUINDOS License Server

The FlexNet licensing software was updated in QUINDOS 2023.2.

From this version of QUINDOS on, a new QUINDOS License Server software is required.

Older versions of QUINDOS can receive licenses from both versions of the License Server.



For those customers who use the FlexNet license server, please make sure to install the latest version of the QUINDOS License Server before you upgrade to QUINDOS 2023.2 or later.

Further information can be found in the Install Manual.

2.2 Licensing changes for selected licensed procedures

The licensing mechanism has been changed for the licensed procedures (LPc) with the names: MeGearRack, EvaVarGearRack, Sprocket, CaptoPSC, TangentialHob, GEAR_OFFSET, and CENTBALL.

As of QUINDOS 2023.1 and higher, the following new products (PDC) apply: RACKHX, RACKVR, SPROCK, CAPPSC, TANHOB, GHXOFF, and CENT3D respectively.



You will require an updated license when migrating to QUINDOS 2023.1 and higher if you use one of these licensed procedures.

Please send an e-mail to your local Hexagon representative with "QUINDOS Licensed Products Update" as the subject and the old licenses attached.

You will find them (*.lic) in C:\ProgramData\Hexagon\Quindos7\Licenses (< QUINDOS 2021.2 C:\Program Files (x86)\Quindos7\Licenses).

2.3 Licensing via HASP dongle

Installation of the Sentinel® License Manager software is optional since QUINDOS 2022.1.1.

Please note that the software is required on systems which use the HASP dongle for licensing. It can be installed when installing QUINDOS using the QUINDOS installer – in the *Installation package* dialogue, select *Sentinel License Manager*.

2.4 Flexera licensing

QUINDOS switched to Flexera licensing (FlexLM) with the release version Q7.10.14363.



Existing licenses (**lic*, **sma*) retain their validity if the listed cases do not apply.

Existing licenses stay valid except for the following cases:

- You use licensed procedures (LPc) like CMMCheck, GDE_IFC, LBROACH, MeAPIThread, SesamePrc.
- You use licensed procedures (LPc) like MeGearRack, EvaVarGearRack, Sprocket, CaptoPSC, TangentialHob, GEAR_OFFSET, CENTBALL (see [Licensing changes for selected licensed procedures](#) as of QUINDOS daily build 22122).
- You install QUINDOS for the first time (new installation, new Operating System, ...).
- You renew your Software Maintenance Agreement.
- There is a hardware replacement.

A single license file with the ending **_FLEX.lic* replaces your old ethernet-based license with the ending **.lic* and the separate file for your Software Maintenance Agreement with the ending **.sma*.

The header section in the **_FLEX.lic* file now contains the information relevant to your Software Maintenance Agreement (SMA).

The contract number and contract duration (*StartDate* and *EndDate*) followed by the machine types which have been activated are listed.

If a change of license file is necessary, host information has to be created using the *QuindosHostInfo* utility. Please follow the steps described in the *QUINDOS Basic Install Manual*.



If you use a Flexera network license, please install the latest Flexera License server.
You can download the latest *HMPTS_FlexNet_License_Server.exe* from our download server (category: *Utilities*).

3 Converter licenses

3.1 DATAKIT converter licenses

DATAKIT licenses are now handled within QUINDOS. New licenses work in combination with the Flexera licenses.

Using ethernet licenses (*.lic and *.sma) requires previous DATAKIT licensing.



If you switch from the old method of licensing (*.lic and *.sma based on the MAC address) to Flexera, all references to network license servers (DATAKIT_LICENSE_FILE) have to be removed from the registry. Otherwise there is a long delay when loading CAD models.

They may be referenced in

```
HKEY_CURRENT_USER\Software\FLEXlm License Manager\
DATAKIT_LICENSE_FILE
HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\FLEXlm License Manager\
DATAKIT_LICENSE_FILE
HKEY_LOCAL_MACHINE\SOFTWARE\FLEXlm License Manager\
DATAKIT_LICENSE_FILE
```

DATAKIT version 2025.1

QUINDOS Release version 2025.2 supports the following CAD formats and versions:

- JT(BREP+PMI): up to 10.7
- CatiaV4: 4.15 to 4.24
- CatiaV5: R10 to R34 = V5-6R2024
- CatiaV6/3DEXperience: up to R2024x
- Parasolid: up to 37.0
- ProEngineer/Creo: 2000i to WF5, Creo up to 11
- Unigraphics/Siemens NX: 15 to NX 12.0.2.9, NX series up to 2406.7000
- SolidEdge: 10 to ST10, 2025
- SolidWorks: 1999 to 2025
- STEP AP203, AP203E2, AP214, AP242 (E1,E2,E3)
- QIF 3

A separate DATAKIT option license is required.

Please refer to [QUINDOS CAD – important information](#) about changed bindings and the recommended approach in [Version 2](#) in particular.

3.2 PMI converter licenses

QUINDOS Release version 2025.2 supports the following PMI formats and versions for the module *Inspection Planning with PMIs*:

- SIEMENS NX™ 2406 Series (until 2406.7000)
- CATIA V5 3D Read: V5-6R2024
- JT: Version 10.7
- Creo: Version 11
- STEP: AP242

A valid DATAKIT converter license and a PMI converter license are required for the Inspection Planning with PMIs option.

4 Important notes

4.1 Support for QUINDOS Reshaper option discontinued



Support for the *QUINDOS Reshaper* bundle and associated commands has been completely removed. Please ensure that you have updated any part programs.

The QUINDOS Reshaper option has been replaced by the *QUINDOS Mesh and Point Cloud Inspection* option since Version 2023.2.

4.2 Support for PDFCreator discontinued



The *PDFCreator* support and associated commands have been completely removed. Please ensure that you have updated any part programs.

Programs which have not been updated will no longer run. Please note the following changes when adjusting your programs.

QUINDOS installer without PDFCreator



Please note that from version 7.11.15351-4 the installer no longer contains the PDFCreator. QUINDOS programs should run without requiring the PDFCreator.

The *Microsoft Print to PDF* functionality is used by default.

The PDFCreator will no longer be installed in future.

Please note that as of now, we recommend that you use the replacement commands described below when writing new programs.

You should plan capacity to adjust your existing programs.

The obsolete commands listed below are no longer maintained.

The following commands to save reports and plots are obsolete.

- PRS_SavePDF
- PLS_SavePDF
- PRS_ConfigPDF
- PLS_ConfigPDF

Replace the old commands to output reports and plots as PDFs in your existing programs with the following commands. Please note that export to an image file (JPG, PNG, TIF) is not supported.

- PRS_SaveDoc replaces PRS_SavePDF
- PLS_SaveDoc replaces PLS_SavePDF

The new SDB commands should be used in the same manner as the old ones.

You can now use the commands PLS_EXPPAGE and PLS_EXPPAGES to save plots as images in the formats PNG, TIF, JPG, GIF, BMP.

4.3 QUINDOS CAD – important information

The CAD kernel was updated from Open Cascade version 6.7.0 to Open Cascade version 6.9.0 with version 7.11.15351. This sometimes leads to missing group assignments.

Please read the following information when updating from a previous version to 2025.2.

We recommend using the following procedure for loading CAD models:

- Use [CadLoadPart](#) to load and convert the original file to the xbf file format.
- Use [CadExportModel](#) to save the converted model in xbf format in a separate directory.



When using CAD, note that some model preparations have to be introduced in existing programs. This sometimes leads to missing group assignments. The reason for this is a change in calculation of the group hash code.

If groups cannot be assigned, please pay attention to [Handling missing group assignments when updating](#).

The changed model structure is signified by the warning messages with *ProgramId* 'Parse Model' which are displayed on the tab page *ErrorLog* in the left QUINDOS window.

4.3.1 Handling missing group assignments when updating

If your programs include CAD models, we would like to point out that separate handling is needed as of version 7.11.15351 if no xbf file was generated and is available for each program.

There are 2 alternatives available:



Version 1 before installing the new version.

This procedure must be done for each program with CAD use.



Version 2 for direct update to the new QUINDOS Version.

Please note that this method can be time-consuming. This procedure must be done for each program with CAD use before using this program for the measurement.

Version 1: Before installing the new version

- Use the PDB command **CadConvertFile** to convert the original file to the new xbf file format.
- Change the CAD file in the existing command **CadLoadModel** to the new xbf file.
- Save your part program.

Version 2: Direct update to the new QUINDOS Version

- Load your part program.
- Load your CAD Model with the command **CadLoadPart** from your part program using the same XML name as before.
- Open the *ErrorLog* and check for warnings *ParseModel*. Check the TXT:Missing\$Groups.
- If there are no warnings, the program is usable without adjustments.
- If not, a new preparation as during the first preparation (automatic grouping, manual grouping, verification of surface direction etc.) is needed. After that, update all bindings manually. Please save the CAD model and your part program at the end.
- Instead of the stepwise preparation (see above):
Use the command **CadVfyBindings** and **CadCreBindings** if you are already familiar with this workflow and trained.
The commands can be inserted after the initial alignment has been carried out.



The recommended workflow for CAD is to use **CadLoadPart** to automatically generate an xbf file after loading the model the first time and use this for your part programming.

4.4 Measure commands when updating from 2019.2 to 2020.2 and higher

Some arguments available for the old MEASURE commands (MEPLA, ...) were missing from the NewMeasure commands (MeasPla, ...). To optimize compatibility, all arguments from the old commands are now also available for the new commands.

The sequence of the arguments in the new commands has been changed to the old sequence. Hence, command lines written in Q6 notation must be converted to Q7 notation **before** the update, e.g.:

MeasPla ele, , csy
must be changed to:

MeasPla (NAM=ele, CSY=csy)

To switch from Q6 notation to Q7 notation, open the part program in the old QUINDOS version, place the cursor in the relevant command line and press **Ctrl + E** or use the *Switch between dialogs and masks icon* in the special toolbar.

Make sure to check that the arguments have been assigned correctly.



4.5 Revert to the Command Tree

Please note that Command Tree-based options and customer-specific Command Trees may not be available via the QUINDOS Ribbon. To facilitate a smooth workflow, we recommend creating a second work environment with the necessary configuration and activating the Command Tree therein in such cases. By default, new environments are created with the ribbon layout enabled.

To create an environment with command tree

- Step 1:** Start QUINDOS and create the new environment.
- Step 2:** Unmark *Use ribbon strip* in the Startup dialogue.
- Step 3:** Click *OK* to launch the new environment.

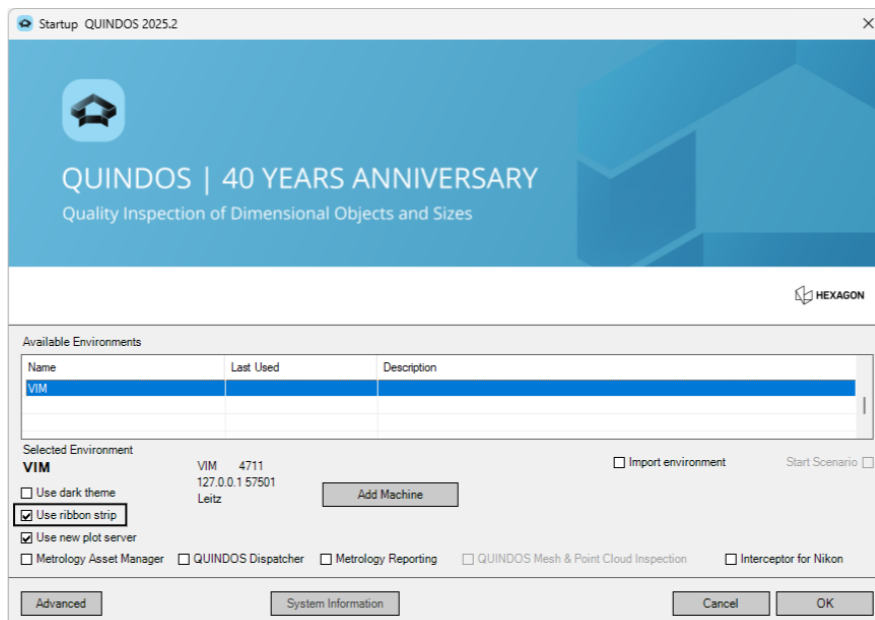


Figure 1: Startup – UseRibbonStrip

To switch to the command tree with an existing environment

- Step 1:** Start QUINDOS and select the existing environment.
- Step 2:** Unmark *Use ribbon strip* in the Startup dialogue.
- Step 3:** Click *OK* to launch the environment.
- Step 4:** Choose *Windows > Window Layout > Add/Remove* and double-click on *PPXplorer*.



Please note that the QUINDOS Ribbon is the currently supported standard. The QUINDOS Command Tree is no longer maintained.

5 Third party hardware

Renishaw probe heads



Please note that probe calibration of the scanning probe heads from Renishaw will be supported only by the QUINDOS 64-bit version with Versions $\geq$ Q7.13.17317.

The driver for systems including Renishaw SPxx scanning sensors can be installed manually when installing QUINDOS using the QUINDOS installer – in the *Installation package* dialog, select *Renishaw Driver*.

5.1 Nikon LC15Dx

A separate installer bundle for the Nikon LC15Dx laser scanner is no longer provided as of QUINDOS 2025.1. The QUINDOS installer now includes the Interceptor application.

The Nikon API has to be downloaded and installed separately for UHA coordinate measuring machines with Nikon LC15Dx laser scanner.

5.1.1 Interceptor version history and bug-fixes

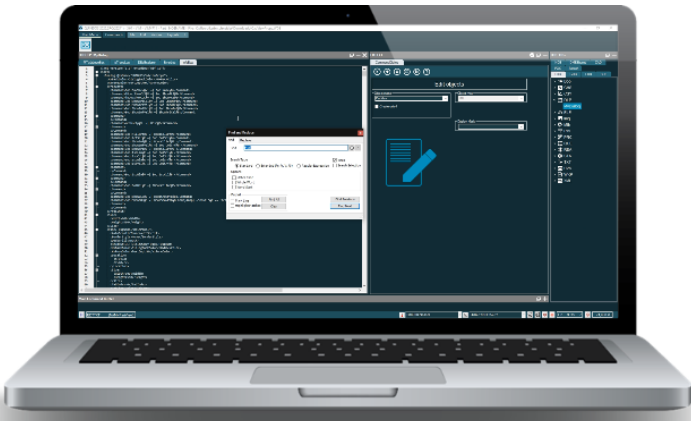
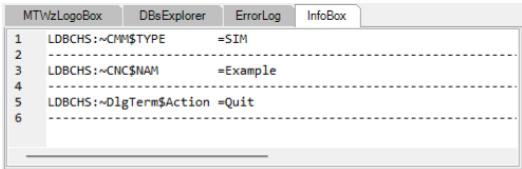
Version	Description	ID
1.2.1	Update to Nikon NMApi SDK 4.9 R1	QDS-11075
1.2.0	- Added support for deactivation of sensor using PRBPIN command - Fixed initialisation issue during parsing of double values	QDS-11075
1.1.0	- Fixed a race condition during start-up which resulted in issues with protocol syntax - Fixed initialisation for old controllers (not supporting SYNTAX requests) - Fixed protocol parser initialisation order during start-up - Removed obsolete support for HP-L 10.6 - Code clean-up: Removed unused/obsolete code	QDS-9896
1.0.12.0	A patch file, "interceptor.db.patch" is required to solve a current argument issue during a position query since this version. The Interceptor application will look for this patch file in either the <i>Bin</i> folder or in the CMM's folder contained in the <i>Quindos7Machines</i> folder. The patch works for firmware versions 9.45a to 9.45g. This is a temporary solution until a new firmware is ready.	8959
1.0.10.0	Bug-fix: Fixed warning Important Note (until new FW version available): Patch file interceptor.db.patch required (Bug-fix: GETPOS at QUINDOS Start) Bug-fix: Fixed parsing of CLP key response: Patch file interceptor.db.patch required	
1.0.9.8	Important Note (until new FW version available): Patch file interceptor.db.patch required (Bug-fix: GETPOS at QUINDOS Start) Bug-fix: Fixed parsing of CLP key response: Patch file interceptor.db.patch required	8959
1.0.9.7	Important Note (until new FW version available): Patch file interceptor.db.patch required (Bug-fix: GETPOS at QUINDOS Start) Known bug: No CLP response	8959
1.0.7.0	New feature: Edit and Create Nikon Presets	
1.0.5.0	Bug-fix: Response of "SHOW PRBHTY" when HP-OW has been selected	
1.0.4.0	Bug-fix: Fixed "next_symbol" function in Leitz parsers to make it work with special symbols (umlauts) Known issue: Response error of "SHOW PRBHTY" when HP-OW has been selected	
1.0.3.0	Known issue: Response error of "SHOW PRBHTY" when HP-OW has been selected	
1.0.2.0	Known issue: Response error of "SHOW PRBHTY" when HP-OW has been selected	

6 Third party software

The acknowledgements for third party software used in QUINDOS can be found under *C:\Program Files\Hexagon\Quindos7\Quindos7\Documentation*.

7 QUINDOS Version 2025.2

7.1 New text editor

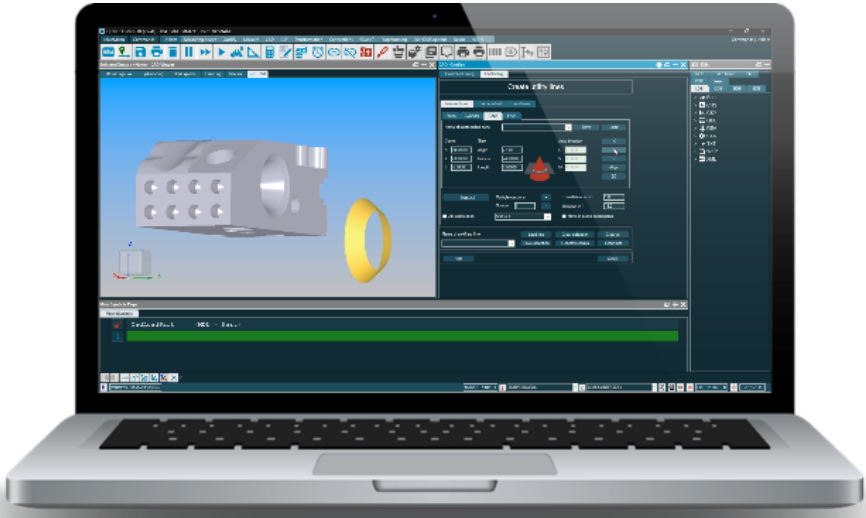
Function description	ID
The default text editor when editing text-based objects in the QUINDOS user interface now uses Scintilla (e.g., via <code>EDTTXT (NAM=TEXT:Example)</code>). It is also used when you switch to the XML view in the QUINDOS Dialogue Designer and similar editors and to display text-based objects in the <i>InfoBox</i>. The new functionality provides an improved user experience with, e.g., line numbering in the interface and syntax highlighting with collapsible/expandable nodes for XML-based text objects. You can use the mouse scroll wheel to zoom in and out in the editor/viewer.  You can switch back to the previous editor using the <code>SET</code> command (<code>SET (NAM=STA:Editor\$ToUse, SVL=Text)</code>).	QDS-12234, QDS-12666, QDS-12829
The display of multiple text-based objects in the <i>InfoBox</i> when selected in the <i>Database Explorer</i> has been improved further. Objects are now clearly differentiated using a dashed horizontal line. Note that you should pay attention when selecting multiple and/or large text-based objects as this can cause a delay while the display is updating. 	QDS-12666

7.2 Report statistics

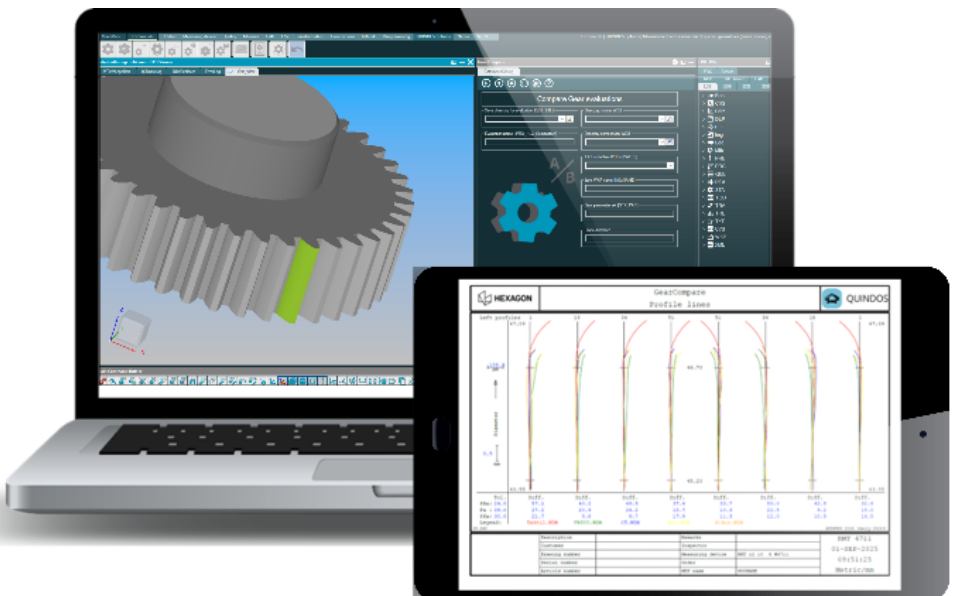
Function description	ID
The functionality to calculate statistics about a part program run has been refactored. The option to include/exclude statistics on the CNC run in the measuring report has been shifted from the report layout definitions (Pri) to the END command. The field (\$P) in the Pri object is no longer used. The <i>CNC Statistics</i> argument in the END command END (\$TC=Y) is used instead. This refactoring represents a <u>breaking change</u>. The arguments <i>DIS</i>, <i>CLS</i>, <i>OST</i> in the END command and the masks <i>MSK : CNC\$MSK</i>, <i>MSK : CNC\$HDR</i> have been removed. Note that just as a START command should be placed near the beginning of the part program to initialise it, the END command should be used near the end of a part program to close the internal statistics and set important internal flags. The statistical data about the part program generated via the END command and formerly stored in the <i>ELE : StcEndReport</i> is now stored in the legend <i>Lgd : StcEndReport</i>. It is used to populate the optional statistics page in the measuring report. The statistics page in the standard report layout has been modified and a new section integrated. The <i>Report Statistics</i> section at the bottom of the page provides details specific to the evaluations displayed on the active report. This includes the total number of evaluations, number of evaluations inside the warning limits (if defined), and the number of evaluations out of tolerance.	QDS-12451, QDS-12450, QDS-12441, QDS-12413



7.3 CAD Basic - Intersect with cone

Function description	ID
The interactive functionality to create auxiliary lines for nominal point generation by intersection with a CAD model now supports using a cone to make the intersection. 	QDS-8031

7.4 New command for comparative analyses of cylindrical gears

Function description	ID
The new QUINDOS GearCompare command supports users in evaluating comparative analyses of cylindrical gears. In day-to-day business, this could be, for example, the analysis of measurements on different measuring devices / sensor technologies or analysis of gear teeth in productive use such as wear analysis. The command creates a comparison of measured profile and helix lines. Different WDBs which contain the gear measurements of the same gearing can be compared. GearCompare copies the contents from the source WDBs and evaluates them again according to the QUINDOS Gear settings of the reference WDB. It creates a comparison of the profile and helix lines and outputs the combined evaluations on two plots. 	QDS-12670

7.5 Bug-fixes

QUINDOS version 2025.2 fixed the following command bugs in the previous release and daily versions.

Command or Area	Description	ID
CadAddGeo-ShapeToDoc	An issue when creating a plane has been resolved.	QDS-12355
CadConvertIgp, CadGenXXX	An issue where the commands changed the layout has been resolved.	QDS-12238

Command or Area	Description	ID
CadGenCylCirs	The distances of the circles to the edge of the cylinder or to the opposite side (<i>BDI/ODI</i>) can be specified in mm or % (<i>PER=Y/N</i>). For exactly 1 circle, the distance to the edge is always calculated in mm and displayed in the dialogue, regardless of the input in the arguments. Only this distance can then be edited in the dialogue. The distance to the opposite side is only displayed and updated. The same applies to the commands CadGenConCirs and CadGenSphCirs for the respective geometries.	QDS-12678
ConvertXmlTo-Tree	An issue where the command created an additional <i>Root</i> node has been resolved.	QDS-12763
ConvertXmlTo-Tree , ConvertTreeTo-Xml	The commands have been improved to work correctly with the <i>FEATURE</i> option.	QDS-12834
CrvGaussFilter	The error handling in the <i>PDB</i> command has been improved. The dialogue and help text have also been revised.	QDS-13029, QDS-5941
DFNTRE	Error handling has been improved.	QDS-12763
Dialogue Designer	An issue where an image in a <i>PictureBox</i> was rendered at a slight offset has been resolved.	QDS-12258
	The properties <i>BlinkColor</i> and <i>BlinkInterval</i> for <i>Checkboxes</i> have been re-enabled in the Dialogue Designer.	QDS-12115
GenPts	An issue where the command dialogue was linked to the wrong help topic has been resolved.	QDS-12208
MeasCyl	An error in the calculation which could lead to wrong results when the diameter was fixed has been resolved.	QDS-12466
PmiExec	An issue where placeholder parameters for pre-processing did not use the correct <i>EleNbr</i> has been resolved.	QDS-12211
PmiOrganize	Tools are saved to PMI when button <i>Save</i> is clicked	QDS-12343
PmiReview	An issue where multiple selected PMI in the table were not highlighted in the view has been resolved.	QDS-11754
PocCompare	The command now updates the coordinate system in the result element if the element already exists.	QDS-12068
PocSeparate-IntAct	An issue with display refreshing when deleting objects has been resolved.	QDS-12209
QUINDOS Basic	An issue where panning in the <i>CAD Viewer</i> (<i>Shift</i> + left mouse button) could also select a group or wire has been resolved.	QDS-12348
	An issue where a long Url could not be displayed in the web browser has been resolved.	QDS-12184
	The error handling and logging for serial communication with an HR-R / TesaStar rack has been improved.	QDS-13058

Command or Area	Description	ID
	Handling of the machine parameter RTSCAN is performed by all scan instructions themselves, thus, setting this parameter serves no purpose. For this reason, all instructions in this regard inside procedures have been removed from the databases.	QDS-12270
	An issue in relation to the CMM axis speed when using PRBs with a controller parameter set has been resolved. The previously selected speed will no longer be overwritten when a PRB is activated.	QDS-13249
QUINDOS IppServer	An issue where the server crashed when the STOP button on the control panel was pressed has been resolved.	QDS-13114
QUINDOS Printer Plotter Server	A performance issue has been resolved. The defaults for all <i>PloServer</i> Logs, except <i>Error</i> , have been set to <i>False</i> .	QDS-12296
QUINDOS UI	An issue where the progress bar was not hidden under certain circumstances has been resolved.	QDS-12982
	An issue where the name <i>CadModel</i> was inserted in the dialogue field instead of the CAD view name if the CAD model name was selected in the POC tree (List view) and inserted in the dialogue via drag & drop has been resolved.	QDS-11693
	An issue where the title border of a tab page control burned in when navigating through multiple tab pages has been resolved.	QDS-13148
ScanOnCircle, ScanOnCurve	Some improvements in relation to the controls in the dialogues have been implemented.	QDS-12547
SlcInnerOuter	An issue where the command could crash if some input information was not specified has been resolved.	QDS-12319
UseLayout	An issue with the dropdown lists in the PDB command has been resolved.	QDS-11859
XmlExec	An issue when processing comment nodes with <i>XPathSelect</i> has been resolved.	QDS-12290

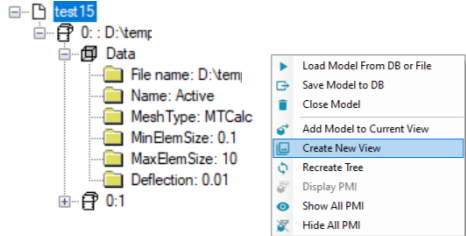
7.6 Known issues

Command or Area	Description	ID
QUINDOS Basic	Insufficient graphics card performance could lead to a crash or QUINDOS may take a long time to respond. The MainWindow thread in QUINDOS could become blocked while processing functions and calculations if they take longer than a minute. The application is not responding to alive-messages from the operating system and is hence marked as “not responding” in the Task Manager. The MainWindow is not refreshed in this state, which causes the black <i>Database Explorer</i> container.	QDS-10143
MergeOverlaps	Please note that the PDB command is deprecated and should not be used. If required, use one of the other commands, e.g., RmvOvIPts (<i>NWA=N</i>), to remove overlaps according to the specific use case.	QDS-9823

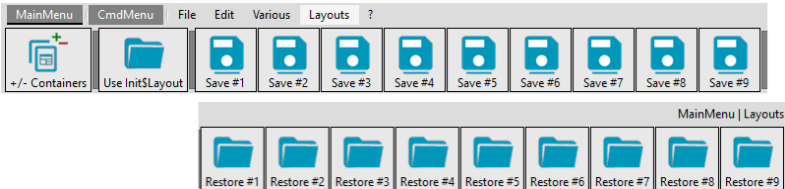
7.7 QUINDOS Basic

7.7.1 New/changed functionality

Command or Area	Description	ID
BladeMeanLine-CenteredCircle	A new argument <i>Smoothing parameter (SMP)</i> has been added to the PDB command to control the smoothing parameter for the input curve.	QDS-12756
CadCreatePts	CAD Surface Points (CSP) on surfaces with CAD can now be created via the options GEARSB and GEARBV, even if there is no license for CADSRF.	QDS-12637
CadDrw*	Legend boxes used to display information on plots are now drawn in a more modern cleaner style.	QDS-12792
CadGenCylXxx, CadGenConXxx, CadGenSphXxx	The default for the argument <i>FLX</i> has been changed to <i>Y</i> in the SDB standard strategies (Mth) for the commands. This means that the border distance is corrected in the axis direction if the distance falls below the minimum distance.	QDS-12765
CadLoadModel, CadLoadPart	The <i>Cancel</i> button displayed in the progress bar when importing/exporting xbf, iges, step, and brep CAD files and when performing meshing operations has been improved.	QDS-12480
	A new parameter <i>Datakit STEP converter (DKS=Y/[N])</i> to use Datakit for step conversion instead of the standard OpenCASCADE converter has been implemented.	QDS-12830
CadGetStep-Version	A new PDB command to determine the step version of a CAD file has been implemented.	QDS-12965, QDS-12830
CadManGrouping	A new argument to specify the layout (<i>WHI</i>) has been implemented for internal purposes.	QDS-12832
	A new argument to specify the dialogue for the interaction (<i>DLP</i>) has been implemented for internal purposes.	QDS-12446
Command-Statistic	A new command to record statistics about the commands executed while QUINDOS is running has been implemented. The data are stored by default in the GDB but can be stored elsewhere using the argument <i>Results text (TXT)</i> . Any lowercase command line inputs at <i>Mode (MOD)</i> are treated as uppercase. The system function <code>ENBSYS/DSBSYS (NAM=CmdStats)</code> has been removed.	QDS-9957, QDS-12419, QDS-12415
DialogDesigner	You can now use the <i>@r</i> import variable (<i>XpoName</i>) to select a row when creating a dialogue which contains a designable table.	QDS-12705
DspaConfig	The procedure has been modified for the Technology Server.	QDS-13229
Excel	The PDB command now supports starting a macro in the Excel® file.	QDS-12286

Command or Area	Description	ID
GETENVINFO	A new function to retrieve a list of existing network and local drives on the system has been implemented. ! Example <pre>GETENVINFO (CHS=~Drives, TYP=Drives) CvStrChs (NAM=~Drive, STR=~Drives, SEP=;, REA=NbrDrives) LISCHS (NAM=(CHS::~Drives, ~Drive())) LISREA (NAM=NbrDrives)</pre>	QDS-12585
HxWCmmMonitor, HxWDDispatcherTool	Balloon tips can now be enabled/disabled via the settings.	QDS-12656
ListOptions	A new command to identify which options are used or necessary for the specified commands has been implemented.	QDS-12706, QDS-12680
PARK	The command now supports the option OFF.	QDS-13121
QUINDOS Basic	Some improvements in relation to handling meshes in xbf files have been implemented. CadLoadPart: Saving Triangulation to xbf (STA:CAD\$StoreTriangulation) is now disabled by default. A new read-only mesh parameter set named <i>Auto</i> has been implemented. The <i>Default</i> mesh parameter set can now be changed and is used instead of the Active parameter set when the model is loaded. If the status variable STA:CAD\$StoreTriangulation=Y, the document mesh is stored in the xbf. The stored mesh is now always used if the file was saved in a QUINDOS version >= 25047. The stored mesh is now preferred over the default mesh parameters applied when loading an xbf with an internal mesh. The stored mesh is now updated if the CAD model is exported using CadExportModel. The parameters of the internal mesh after CadExportModel can be displayed by recreating the CAD tree after loading using the context menu of the <i>CAD Explorer</i> for the <i>Open documents > Recreate Tree</i>.  Please note that previously stored meshes with QUINDOS versions < 25047 will be ignored. CadGetProps: The following properties have been implemented CAD document contains mesh (<i>HasTrianglesInDoc</i>), Number of triangles (<i>NbrOfTriangles</i>), Visibility of triangulation (<i>IsTriangulationVisible</i>).	QDS-12626, QDS-12484

Command or Area	Description	ID
	The interactive dialogues for the <i>CAD Viewer</i> display settings have been redesigned to improve usability and clarity. The functions have been regrouped on the various tab pages and a dialogue panel consistent with command dialogues has been integrated.	QDS-13147
	The CAD-specific dialogue <i>DLP : CadGrpNavigator</i> has been revised and now contains a dialogue panel consistent with command dialogues.	QDS-13208
	Two new nominal point types for performing a VHSS scan have been implemented. <i>Scan Control Points (VCP)</i> are used to define the path. <i>Scan Start Points (VGO)</i> are used to execute the scan with <i>ScanOnCurve</i> .	QDS-12432, QDS-12490
	A new nominal point type to perform a VHSS scan on a circular path has been implemented. <i>Scan Circle Points (VCI)</i> are used to define the circular path parameters and execute the scan with <i>ScanOnCurve</i> .	QDS-12431, QDS-12490
	The maximum permitted number of generated lines on a plane has been increased from 100 to 500.	QDS-12349
	Some improvements in relation to handling units in dialogue controls have been implemented. Please note that the formats <i>Units="an"</i> and <i>Units="In"</i> depend on the system settings for angles (<i>ENBDMS</i> , <i>ENBDM</i> , <i>ENBD</i>) and length (<i>INCH</i> , <i>NOINCH</i>) respectively. They should not be used for input fields and thus removed if they have been used in existing dialogues.	QDS-12045
	A new registry entry at <i>Driver\UseVimTempMonitor [Yes]</i> has been implemented to enable launching multiple VIM environments at the same time. If set to <i>No</i> , the thread for the <i>VimTempMonitor</i> on port 2003 is not started and thus allows more than one <i>VimDriver</i> (if the machine port 2001 is different).	QDS-12625
	Licensing for QIF files has been enabled. The QIF file extension (*.qif) has been added to the known CAD file extensions for file selection.	QDS-12544
	The expression <i>LicenseAvailable</i> can now also be used for CAD and PMI licenses in the form <i>CAD_STEP</i> , <i>PMI_STEP</i> , <i>CAD_UGNX</i> , <i>PMI_UGNX</i> ,	QDS-12830

Command or Area	Description	ID
QUINDOS UI	A new ribbon at <i>MainMenu > Layouts</i> to store and apply saved layouts has been implemented.  In addition, a new basic layout GDBXML : <i>Init\$Layout</i> and an associated button in the ribbon have been implemented. The function <i>MainMenu > Layouts > Use Init\$Layout</i> can be used to reset the QUINDOS user interface. The function to add/remove containers () has been moved to the <i>Layouts</i> ribbon.	QDS-12761
	The FLY command for DEA CMMs has been integrated in the QUINDOS ribbon under <i>Commands > Measuring device</i>.	QDS-12583
RADCON	The command now also supports calculating the total runout on a cone.	QDS-12205
ScanOnCircle	A new argument <i>Rotary table start position (RTP)</i> to pre-position the rotary table in the case of <i>URT=Y</i> has been implemented. In this case the rotary table will be enabled automatically. NCI points work in the same way as ScanOnCircle. When using SDA, STA, DIR, STO points with the rotary table, the rotary table is enabled if STA and DIR angles are different.	QDS-12263
ScanOnCurve	A new argument <i>Maximum expected deviation (DEV)</i> has been implemented. ScanOnCurveHint is only used if both values (minrad and maxdev) are given. The defaults <i>RAD=200</i> and <i>REF=1000</i> have been removed.	QDS-12437
SCK_System-Snapshot	A new argument <i>Windows system information (SYS)</i> to include information collected using the MSInfo32 tool has been implemented. Please note that this process may take several minutes.	QDS-12988, QDS-9217
SetCmPar	The minimum value which can be set via the <i>Approach distance (POF)</i> has been reduced from 0.1 to 0.05.	QDS-11656
START	A warning message is now displayed in the <i>ErrorLog</i> if probes are found in the LDB.	QDS-10504
Straightness_P	The required minimum number of actual points has been reduced to 3.	QDS-12288
Substitute-FromDB	The PDB command now also supports using an underscore (<code>_</code>) instead of a caret (<code>^</code>) in the <i>Source object (SRC)</i>. Note: You should use an underscore instead of a caret when specifying web server URLs. When using the PDB command ShowBrowser, you have to use an underscore instead of a caret.	QDS-12568

Command or Area	Description	ID
SurfProfileUZ	A progress bar including a <i>Cancel</i> button has been added for the NURBS surface computation and the best fit process when using the PDB command. Pressing <i>Cancel</i> aborts further steps. Additionally, the error messages now use the EMs schema. A warning stating the number of the candidates is now given in the case of bad perpendicular point(s).	QDS-12759, QDS-12324
SymmetryPlane	The command is obsolete and has been moved to the ODB. Please use SYMPLA instead.	QDS-12323
SYMPLA	Two new options for the argument <i>Calculation method</i> (<i>REV</i>) have been implemented. <i>REV=A</i> and <i>REV=S</i> can be used to select the symmetry plane if the input planes are perpendicular. Note: You can also input two <i>Result element</i> (<i>NAM</i>) names to create both symmetry planes.	QDS-12059

7.8 QUINDOS Options

7.8.1 QUINDOS ISO 10360

7.8.1.1 Important information

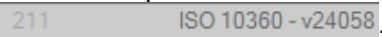
Please note that the installation path for the QUINDOS ISO databases was changed in QUINDOS 2021.2. On a new installation, the QUINDOS ISO databases are installed in the directory `C:\ProgramData\Hexagon\Quindos7\Quindos7\Modules\ISO\DataBases`. (< QUINDOS 2021.2 `C:\Program Files (x86)\Quindos7\ISO\DataBases`).

If the QUINDOS ISO databases on your system are stored under `C:\Program Files (x86)\Quindos7\ISO`, please ensure that the user privileges for read, write, and change exist for the folder `C:\Program Files (x86)\Quindos7\ISO` and its contents.

If this access is not given, execution will fail with the following error message:

'Access denied - C:\Program Files (x86)\Quindos7\ISO\DataBases\Iso.HDB'.

The recommended ISO version is the ISO version 25155.

Please note that an existing ISO version on your QUINDOS system is not overwritten automatically when you update to a new version of QUINDOS. To change the ISO version on an existing QUINDOS system – before running the QUINDOS installer – navigate to the paths listed above and rename the *Iso.SDB* and *Iso.HDB* if present. After running the QUINDOS installer, starting QUINDOS, and launching the ISO option, check that the expected ISO version is running. It is displayed on the bottom right in the ISO dialogues, e.g., .

The previous version of the QUINDOS ISO option is also available as a self-extracting archive in the category *QUINDOS utilities* at <http://download.quindos.de> (ISO version 2002) on our download server.

A QUINDOS ISO license is required.

7.8.1.2 New/changed functionality

Command or Area	Description	ID
Dialogues	Some modifications in the dialogues <i>SelectLogos</i> and <i>Customize</i> have been implemented	25021
Rt-CorrData	Transmit oRT/iRT correction data to CMM. Encoder correction and rotary table correction data handling implemented in the <i>Service</i> section.	25071, QDS-12676
Diverse	Minor improvements in the rotary table test and rotary table correction as well as in the licensing mechanism in the SDB procedure <i>CallIso</i> .	25086

7.8.2 Gear Data Exchange (GDE) Interface

Command or Area	Description	ID
Gear Data Exchange (GDE) Interface	GDE 3.x: Support for importing GDE files with included "section_user" node if no additional XSD is provided has been implemented.	QDS-6534

7.8.3 QUINDOS GEAR

Command or Area	Description	ID
GEAR	The function to find the reference tooth/space ($MOD=F$) for internal gearings has been improved.	QDS-11503
GearCompare	A new PDB command to compare WDBs with different GEAR measurements of the same gear for profiles and helices has been implemented.	QDS-12189

7.8.4 QUINDOS Camshaft

Please note that a new Camshaft version is installed automatically when you update to a new version of QUINDOS.

The current version is v25092.

7.8.5 QUINDOS CMM Check II

The current version is v25094.

7.8.6 QUINDOS Mesh & Point Cloud Inspection

Command or Area	Description	ID
PocOperMesh, PocOperCloud	A new <i>Action</i> (OPR) to <i>Rename</i> a mesh or point cloud has been implemented.	QDS-11985

8 QUINDOS Version 2025.2.1

The following bugs have been fixed in release version 2025.2.1.

Command or Area	Description	ID
DSBRTCSY , DsbRotaryTable	The internal handling of the RfixCsy has been changed for B3 and B4 controllers due to VolComp issues.	QDS-13120
GEAR	An issue with a torus gearing when the Z offset was not 0 has been resolved.	QDS-13263
QUINDOS Basic	An issue in relation to double indices has been resolved.	QDS-12971
ScanOnCircle	The value of the <i>Rotary table start position (RTP)</i> is now also taken into account when using a safety box.	QDS-13393

New/changed functionality in release version 2025.2.1.

Command or Area	Description	ID
QUINDOS Basic	The interactive CAD dialogues for defining measurement strategies have been harmonised in order to provide a better user experience. The layout has been redesigned and the contents now provide improved and consistent handling. This applies to the interactive dialogues of the CadGenXXX (EDT=Y) commands and the interactive CAD dialogues for standard geometries. An additional section which covers the measurement strategies has been integrated into the <i>CadDialogs</i> in synch with the interactive CadGenXXX dialogues. Please note that the <i>CadDialog Generate points on circle</i> has been removed as it was a redundant implementation. Generating points on 1 circle on cylinder, cone, and sphere geometries is available via the <i>Circles</i> tab page of the standard geometries. For the measurement strategies, further scanning strategies have already been pre-integrated into the UI and will be activated with a future main release version. 	QDS-13030

Command or Area	Description	ID
GEAR, BROACH, SPIRBY, CURVIC, HIRTH, WWHEEL, WORM, GLOB, WORMTP, RackTc	The naming of the ball diameter for the pitch measurement/evaluation has been adjusted according to VDI.	QDS-6276
QUINDOS Mesh & Point Cloud Inspection	The 3DR SDK has been updated to 25.07 revision ccec787419.	QDS-13313

Known issues

Command or Area	Description	ID
QUINDOS Basic	Insufficient graphics card performance could lead to a crash or QUINDOS may take a long time to respond. The MainWindow thread in QUINDOS could become blocked while processing functions and calculations if they take longer than a minute. The application is not responding to alive-messages from the operating system and is hence marked as “not responding” in the Task Manager. The MainWindow is not refreshed in this state, which causes the black <i>Database Explorer</i> container.	QDS-10143
MergeOverlaps	Please note that the PDB command is deprecated and should not be used. If required, use one of the other commands, e.g., RmvOvIPts (<i>NWA=N</i>), to remove overlaps according to the specific use case.	QDS-9823

9 ANNEX

9.1 PTB certification of QUINDOS Version 2025

The PTB certification can be viewed online [here](#).

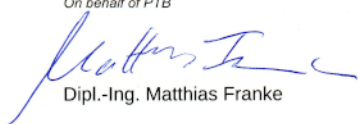


Physikalisch-Technische Bundesanstalt
Nationales Metrologieinstitut



Prüfbericht

Test Report

Gegenstand: <i>Object:</i>	Auswertesoftware nach Gauß für Koordinatenmessgeräte <i>Evaluation software based on least-squares method for coordinate measuring machines</i>
Hersteller: <i>Manufacturer:</i>	Hexagon Metrology GmbH
Typ: <i>Type:</i>	QUINDOS 2025
Auftraggeber: <i>Applicant:</i>	Hexagon Metrology GmbH
Ergebnis: <i>Result:</i>	bestanden Die maximalen Abweichungen sind kleiner als 0,10 µm und 0,10 µrad <i>passed</i> The maximum deviation is less than 0,10 µm and 0,10 µrad
Anzahl der Seiten: <i>Number of pages:</i>	4
Prozess ID: <i>Process ID:</i>	9e5b0a2b482c471e91a142ea935eddfa
Geschäftszeichen: <i>Reference No.:</i>	PTB-5.32-4120205
Datum der Prüfung: <i>Date of test:</i>	2025-02-05
Im Auftrag <i>On behalf of PTB</i>	Braunschweig, 2025-02-05
 Dr. Daniel Heißelmann	Siegel <i>Seal</i>  Im Auftrag <i>On behalf of PTB</i>  Dipl.-Ing. Matthias Franke

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 Physikalisch-Technische Bundesanstalt
 Nationales Metrologieinstitut


Prüfbericht

Test Report

Gegenstand: <i>Object:</i>	Auswertesoftware nach Tschebyscheff für Koordinatenmessgeräte <i>Evaluation software based on minimum-zone method for coordinate measuring machines</i>
Hersteller: <i>Manufacturer:</i>	Hexagon Metrology GmbH
Typ: <i>Type:</i>	QUINDOS 2025
Auftraggeber: <i>Applicant:</i>	Hexagon Metrology GmbH
Ergebnis: <i>Result:</i>	bestanden Die maximalen Abweichungen sind kleiner als 0,10 µm und 0,10 µrad <i>passed</i> <i>The maximum deviation is less than 0,10 µm and 0,10 µrad</i>
Anzahl der Seiten: <i>Number of pages:</i>	4
Prozess ID: <i>Process ID:</i>	7a60bcab51a349d8aa1162cb59b0e2a9
Geschäftszeichen: <i>Reference No.:</i>	PTB-5.32-4120205
Datum der Prüfung: <i>Date of test:</i>	2025-02-05
Im Auftrag <i>On behalf of PTB</i>	Braunschweig, 2025-02-05


 Dr. Daniel Heißeilmann

 Siegel
Seal

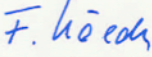
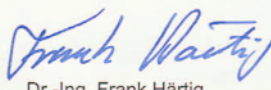
 Im Auftrag
On behalf of PTB

 Dipl.-Ing. Matthias Franke

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9.2 PTB certification for cylindrical gears

Physikalisch-Technische Bundesanstalt Braunschweig und Berlin		
 Bericht <i>Report</i>		
Gegenstand: <i>Object</i>	Testdaten für evolventische Zylinderradauswertungen Testdata for cylindrical involute gear algorithms	
Hersteller: <i>Manufacturer</i>	Leitz Messtechnik GmbH Siegmund-Hiepe-Str. 2-12 35578 Wetzlar	
Typ: <i>Type</i>	QUINDOS 4304	
Gerätenummer: <i>Serial number</i>	---	
Antragsteller: <i>Applicant</i>	Leitz Messtechnik GmbH Siegmund-Hiepe-Str. 2-12 35578 Wetzlar	
Anzahl der Seiten des Berichtes: 4 <i>Number of pages of the report</i>		
Geschäftszeichen: <i>Reference No.</i>	PTB-5.33-04.046	
Prüfzeichen: <i>Test mark</i>	---	
Datum der Prüfung: <i>Date of test</i>	2004-09-02	
Im Auftrag <i>By order</i>	Braunschweig, 2004-09-24	Bearbeiter: <i>Examiner</i>
 Dr.-Ing. Franz Wäldele Direktor und Professor	Siegel <i>Seal</i> 	 Dr.-Ing. Frank Härtig
Berichte ohne Unterschrift und ohne Siegel haben keine Gültigkeit. Dieser Bericht darf nur unverändert weiterverbreitet werden. Auszüge oder Änderungen bedürfen der Genehmigung der Physikalisch-Technischen Bundesanstalt. Reports without signature and seal are not valid. This report may not be reproduced other than in full except with the permission of the Physikalisch-Technische Bundesanstalt.		

9.3 PTB certification for QUINDOS Gear



Physikalisch-Technische Bundesanstalt
Nationales Metrologieinstitut



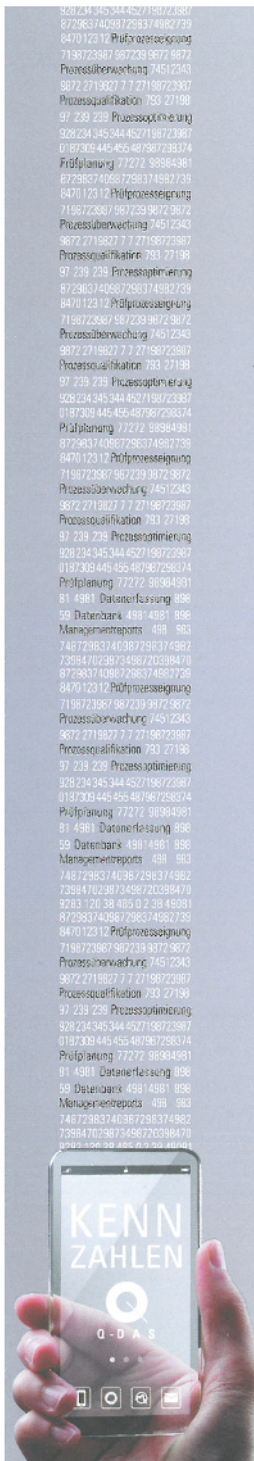
Prüfbericht Test Report

Gegenstand: Object:	Auswertesoftware für Verzahnungsmessungen Evaluation software for gear measurements
Hersteller: Manufacturer:	Hexagon
Typ: Type:	QUINDOS (QUINDOS Gear/QUINDOS Verzahnungen) 2024
Auftraggeber: Applicant:	Hexagon Metrology GmbH
Ergebnis: Result:	bestanden Die maximalen Abweichungen sind kleiner als 0,001 µm für alle Testgrößen. passed The maximum deviations are less than 0.001 µm for all test values.
Anzahl der Seiten: Number of pages:	4
Prozess ID: Process ID:	11fa4146ae514adf8f4a3eb1014077c1
Geschäftszeichen: Reference No.:	PTB-5.32-4120057
Datum der Prüfung: Date of test:	2024-07-17
Im Auftrag On behalf of PTB	Braunschweig, 2024-07-17
 Dr. Anita Przyklenk	Siegel Seal  Im Auftrag On behalf of PTB  Dr. Frank Keller

Prüfberichte ohne Unterschrift und Siegel haben keine Gültigkeit. Dieser Prüfbericht darf nur unverändert weiterverbreitet werden. Auszüge bedürfen der Genehmigung der Physikalisch-Technischen Bundesanstalt.

Test Reports without signature and seal are not valid. This Test Report may not be reproduced other than in full. Extracts may be taken only with the permission of the Physikalisch-Technische Bundesanstalt.

9.4 AQDEF certification



AQDEF - Certificate

Category A

Variable and attribute characteristics
including positional tolerances

for

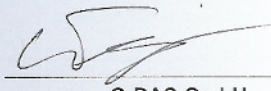
Hexagon Metrology GmbH
Siegmund-Hiepe-Str. 6-12
D-35578 Wetzlar

for conformance of the export interface/software

QUINDOS Q-DAS Interface

This certificate confirms that the export interface
in QUINDOS 2019.1 and newer versions
meets the demands of the following document:
"Advanced Quality Data Exchange Format" (AQDEF) version 5.01.

Weinheim, 2019-10-08



Q-DAS GmbH
Michael Wagner / General Manager

Q-DAS GmbH & Co. KG · Eisleber Str. 2 · 69469 Weinheim
STATISTICS DRIVES SUCCESS

9.5 Release document



Wetzlar, 2025-09-01

RELEASE Approval

QUINDOS

Release Version: 2025.2

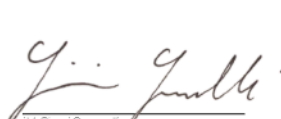
The integrations of the above-mentioned main version of the metrology software QUINDOS were reviewed in an approval meeting to ensure compliance with the release processes.

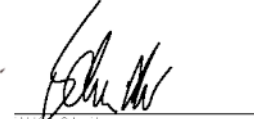
The new integrations and bug fixes were verified in two-stage integration tests in accordance with the release process with regard to their functionality.

QUINDOS has included automatic integration tests that evaluate the results according to the certified contents of the PTB certificates for QUINDOS (s. annex Release Notes 2025.2). The results of internal testing for the main release version of QUINDOS 2025.2 confirm the values determined at the time of PTB certification.

QUINDOS ISO 10360 version 25155 has been released for QUINDOS version 2025.2, for CMM acceptance test.

QUINDOS 2025.2 has been approved for publication.


Iv. Gianni Gencarelli
Product Owner QUINDOS


Iv. Karin Schneider
Product Manager QUINDOS

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