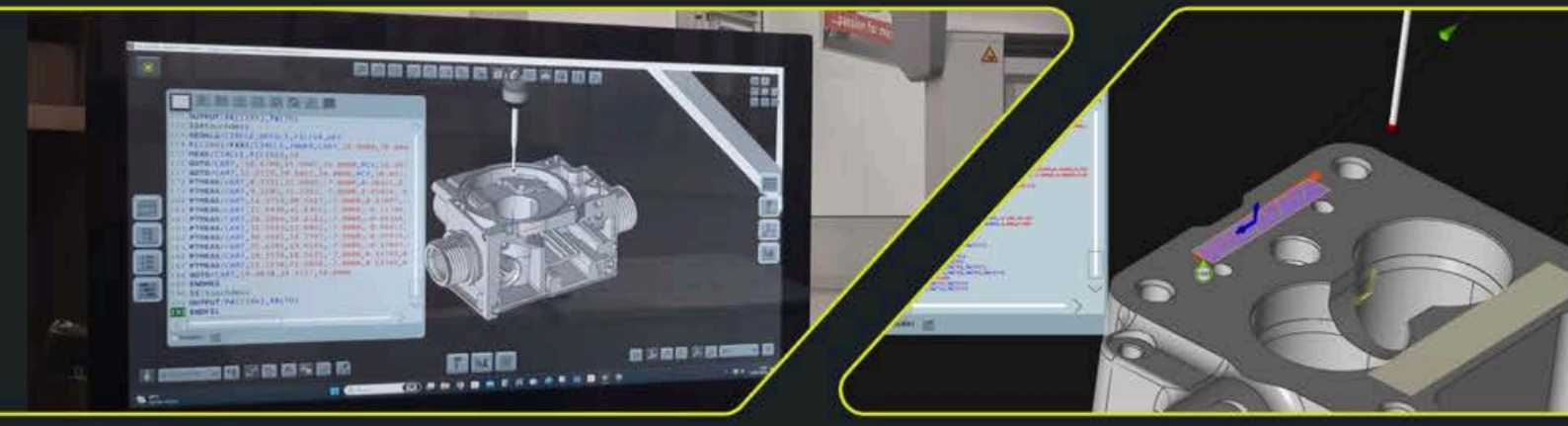
TouchDMIS

THE MEASURING TOUCH



TouchDMIS 10

10.0.0.230

Date of release:

November 13th, 2025

what's new release notes

s·o·l·u·t·i·o·n·s

Information about this release

Dear users, operators, clients, and distributors,

This document introduces and highlights the latest innovations and improvements of TouchDMIS.

This release marks our commitment to provide **a state-of-the-art CMM software**, led by the latest innovation in the market and **Industry 5.0**.

One of the most notable is our new **Environment-Friendly Mode**, which allows the CMM to automatically switch off the air supply when the software is in standby, contributing to a more sustainable workflow.

We're also proud to announce a **new technical collaboration with PATLITE**, the **world's leading manufacturer of signal and machine lighting devices**. This partnership is aimed at enhancing the operator's daily experience through better visual communication and workflow support.

TouchDMIS 10 now supports **Renishaw REVO®** and **SFP2**, allowing operators to take full advantage of the REVO system's exceptional performance and precision.

To improve compatibility and performance, **we have modified some behavior of 5-axis systems in TouchDMIS (Renishaw® PH20 and REVO will be affected)**. In case you use this probe heads, please read the Additional Information of this document and the User manual.

And there's even more to discover.
Browse the following pages to explore all the new features and improvements in TouchDMIS 10.

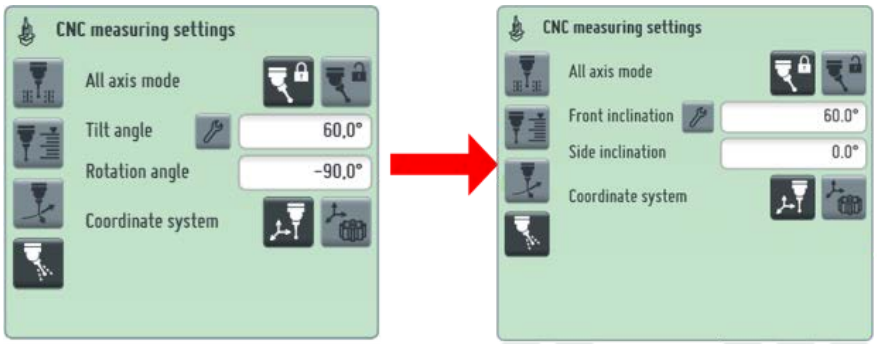
Finally, we want to express our sincere thanks to our customers and distributors.
Your ongoing feedback is invaluable to our product development and continuous innovation.

The TouchDMIS team

Additional information - FYI

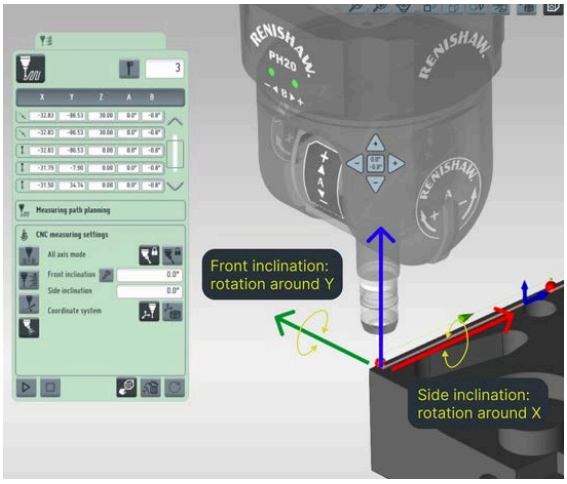
Important updates for 5-axis users (Renishaw® PH20 and REVO)

Release 10 introduces relevant changes to 5-axis system in TouchDMIS.
Now, when **All-axis mode** is active, in the CNC measuring settings you will find the **Front inclination** and **Side inclination** options, which replace the the **Tilt angle** and **Rotation angle.**



These changes affect the 5-axis probe head behavior. New parameter will define the orientation of the probe head during measurement.

Front inclination: sets the inclination of the probe head **relative to the first and second point to be measured** (rotation around Y)
Side inclination: sets the rotation of the probe head **relative to the first direction of the point** (rotation around X)
If Front inclination differs from 0°, Side inclination will be affected accordingly.



⚠ **Front inclination** and **Side inclination** don't represent the A (Tilt) and B (Rot) angles of the probe head. However, the position of the probe head will be determined by the Front and Side inclination.

We invite you to check all details and additional information in the WebHelp of the Release 10

Additional information - FYI

New language available

TouchDMIS now supports the following languages:

 Czech

 German

 English

 Spanish

 Spanish (Mexican)

 French

 Hungarian

 Italian

 Japanese

 Portuguese (Brazilian)

 Romanian

 Russian

 Slovak

 Serbian

 Turkish

 Simplified Chinese

 Traditional Chinese

what's new showcase

TouchDMIS
THE MEASURING TOUCH

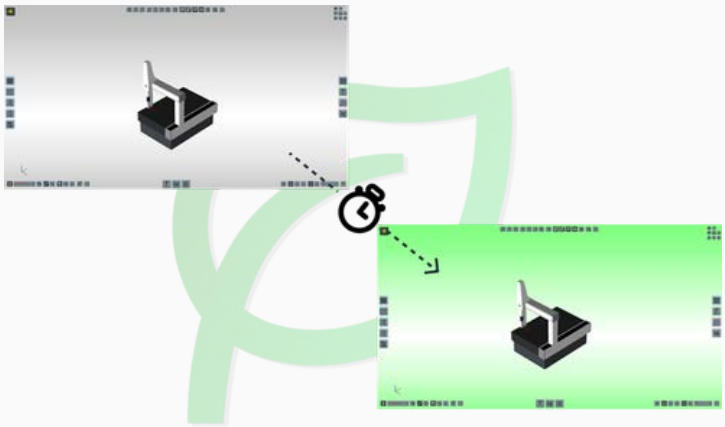
Environment-Friendly Mode

Welcome to the 5.0 transition in TouchDMIS!

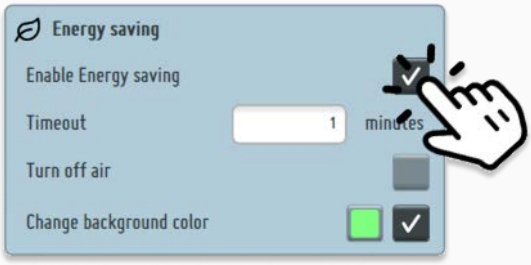
With this release, we introduce the **Environment-Friendly Mode**, a sustainability solution for the metrology daily workflow

Now, TouchDMIS and CMM can be set **in stand-by** after a period of inactivity.

In addition, TouchDMIS switches off the air, allowing considerable energy saving (*See TouchDMIS Automation Control Box)*



To enable the Environment-Friendly Mode, go to Settings > Automation > Energy Saving and Flag the option.



You can also set after how much TouchDMIS will go into EFM mode and screen--saver background color.

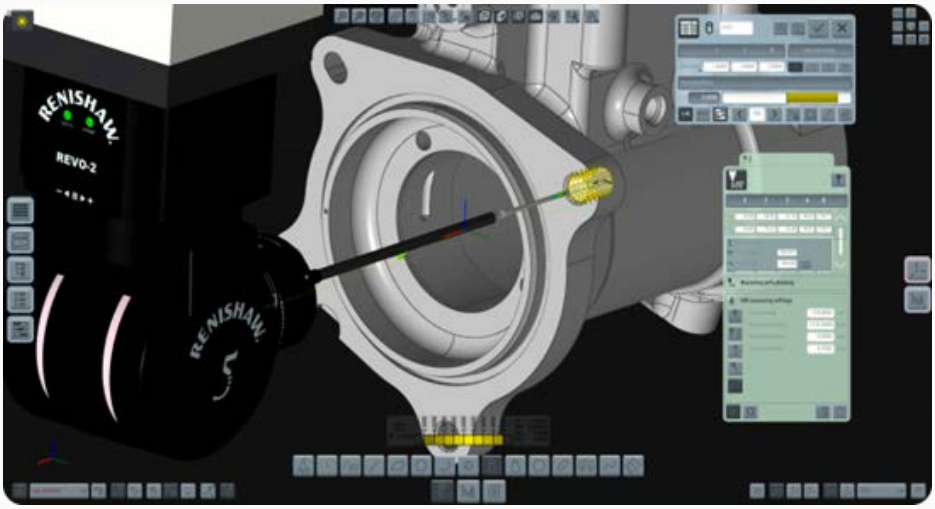
See TD-I1535

Renishaw® REVO integration

Continues our work of integrating different sensors and tools.

Renishaw® REVO is now integrated into TouchDMIS using UCCserver.

Now you can benefit from the high-performance scanning of the REVO head.

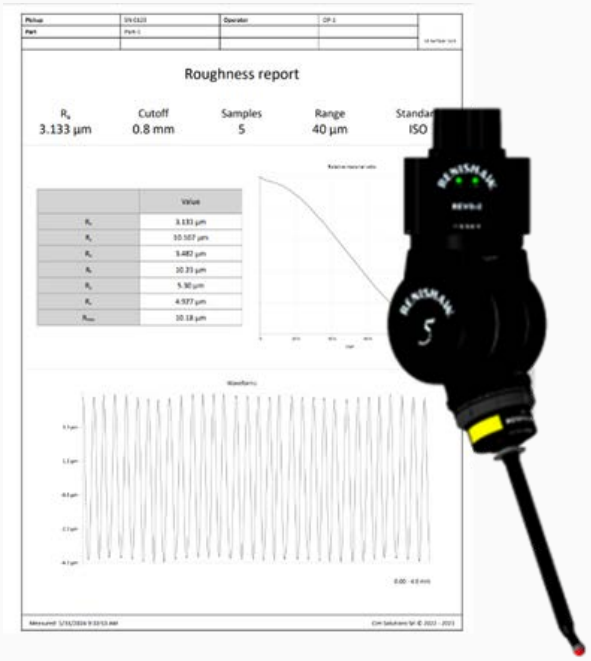


3-axis, 5-axis, helical and sweep scan are now available for all the features, surfaces, and curves included.

See TD-I1518 - TD-I1519 - TD-I1520 - TD-I1251 - TD-I1522 - TD-I1536 - TD-I1539 - TD-I1549 - TD-I1550 - TD-I1551 - TD-I1574 - TD-I1586

Renishaw® Surface Finish Probe SFP2 integration

Renishaw® Surface Finish Probe SFP2 allows TouchDMIS to inspect roughness on components and to produce graphical reports.



TD-I1572 - TD-I1573 - TD-I1576

PATLITE's signal tower integration

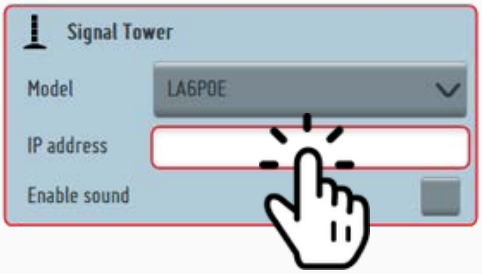
Introducing the technical collaboration with PATLITE, the world's leading manufacturer of signaling and machine lighting devices.

PATLITE LA6-POE series is integrated into the TouchDMIS-CMM infrastructure system, offering **innovative visual** and **audible CMM status feedback**.

The signal towers show the visual status of:

- Program execution
- Output evaluation
- CMM idle status
- CMM machine errors
- TouchDMIS messages (TEXT/OPER and prompts)
- CMM in Environment-Friendly Mode

To configurate PATLITE go to Settings > Automation > Signal Tower, select the model and add the IP address.



See TD-I1545

Automation devices

Starting with TouchDMIS 9.0, we began integrating a series of automation devices.

These devices enable **improved** and **more efficient** communication between TouchDMIS and external devices, such as **robots**, **PLCs**, and automation, facilitating the daily workflow.

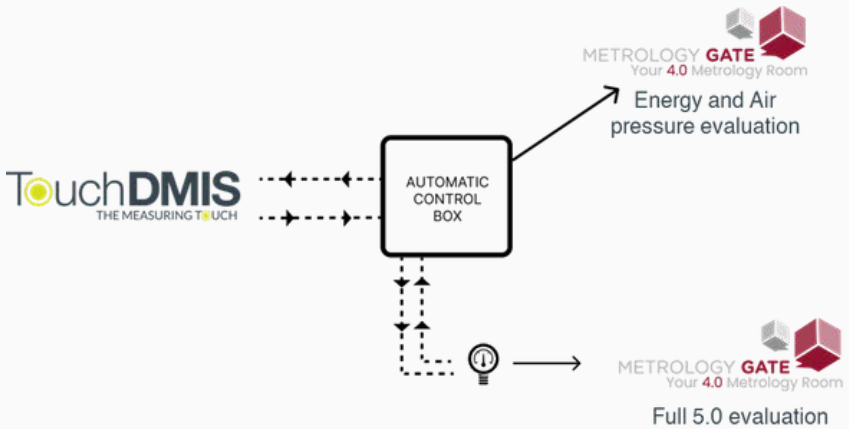
TouchDMIS Automation Control Box

The TouchDMIS Automatic Control Box integrated into TouchDMIS and Metrology Gate **collects precious CMM information**.

Here is a list of the information provided by the device:

- Air consumption
- Air pressure
- Instant power consumption
- Overall energy usage
- Room temperature and humidity

When TouchDMIS is in **Environment-Friendly Mode**, it **turns off the air when the system is not used**, and **delivers it back when TouchDMIS goes back to work.**



The automation box is **CMM controller independent**, and is it installed as a **stand-alone external device**.

See TD-I1552

What’s new

TesaStar and Hexagon heads integration

We added TesaStar and Hexagon heads in TouchDMIS using TTP mode (I++ server)

See TD-I1524 - TD-I1531

EasyRunner

EasyRunner 3.5 includes fixes and **performance improvements**.

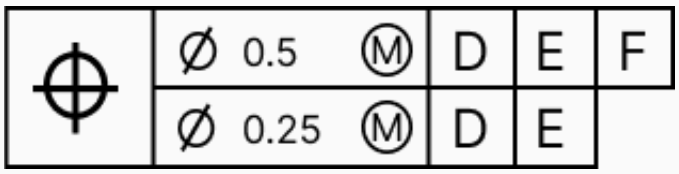
The measuring process can be now **fully automized with a stand-alone bar code reader** that runs the program by **simply placing the fixture on the machine**.

In addition, a button that **enables seamless execution of the program** has been added.

See-TD-I1596

Composite tolerance

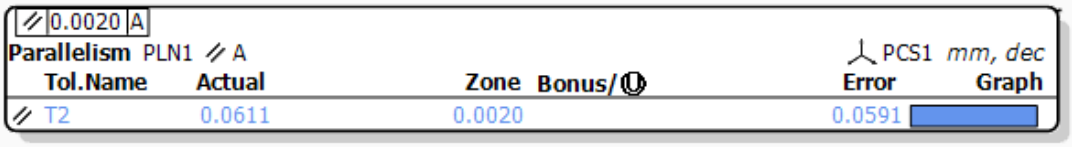
Now you can define multiple levels of positional control for patterns of features in TouchDMIS.



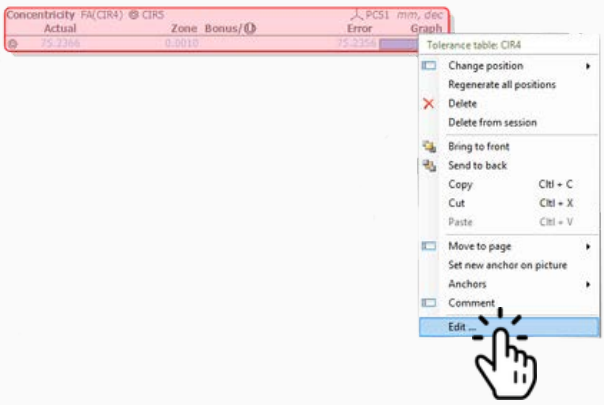
See: TD-I1661 - TD-I1883 - TD-I1887

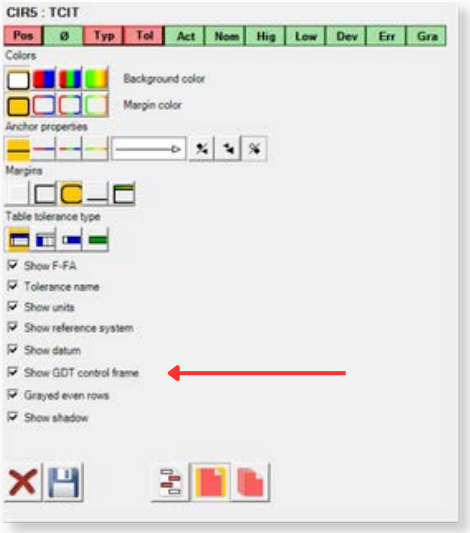
Show GD&T feature control frame in report labels

We added the possibility to show the GD&T feature control frame into the report labels.



You can add the GD&T feature control frame simply by editing the label through the editor.





See: TD-I1649

Prompt improvements

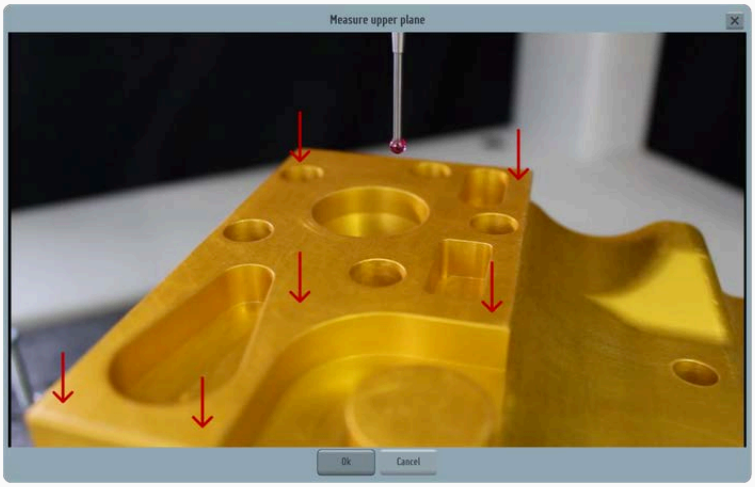
Quick prompt editor for DMIS HLL

We have sped up the inspection workflow by adding a new quick prompt editor in the DMIS editor.

To open the Quick prompt editor go to:
DMIS editor > right-click or press and hold > HLL > Prompt > Single editor

Prompt image size

Now pictures in prompt have its original size and can be easily edited from Prompt editor or code (Title and image size)



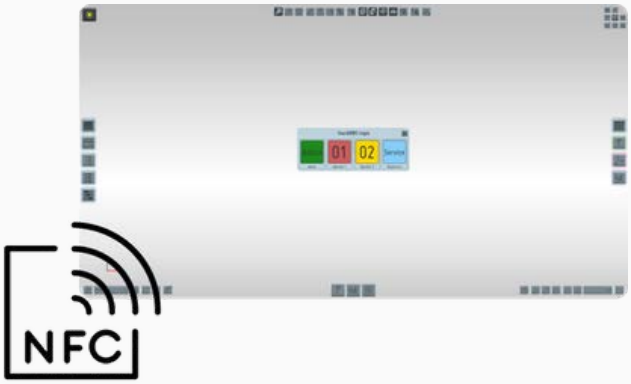
PROMPT/0,0,1920,1080,TITLE,'Measure Upper plane',PICTURE,0,0,1920,1080,'C:\NMS\TouchDMIS\UpperPlane.PNG'

X position
Y position
Width
Height

See: TD-I1649 - TD-I2026

Login authentication through NFC

User profiles functionality is improved and enhanced with NFC functionality.



TouchDMIS can force user authentication with an NFC device making the inspection workflow safer and fully digital.

See TD-I1580 - TD-I1581

New datum icon

We improved the Measuring portal UI by adding the Datum button.

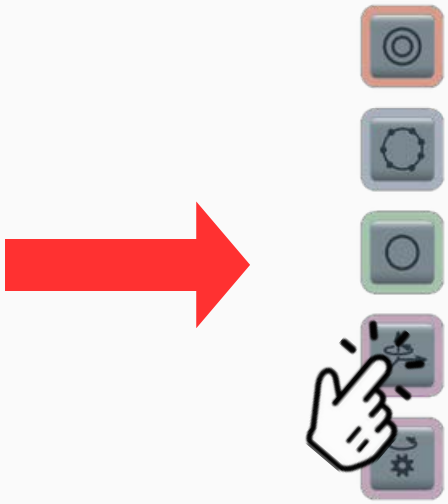
Now you can make alignment, define datum, save and recall coordinate systems in a one-button operation!

See TD-I1658

Last actions toolbar

TouchDMIS workflow is now faster with a new right toolbar that shows the last 5 actions made during the session.

In this way, users can also follow the single steps that were previously taken.



See TD-I1673

Pattern construction implementation

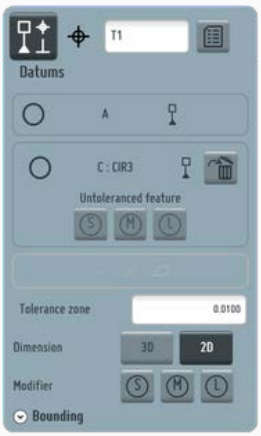
Pattern constructions are now implemented in TouchDMIS!

Now you can build patterns from the Construction toolbar and use them for composite tolerance.

See TD-I1654 - TD-I1672

GD&T feature control frame UI

We have improved the TouchDMIS UI by adding the feature control frame in the Tolerance windows, with the aim of helping operators with GD&T applications.



Before

Now

See TD-I1668

Installation

Check system and hardware requirements

Before installing TouchDMIS, check System and hardware requirements. They can differ from TouchDMIS versions.

To check your PC's properties, go to **This PC** icon, right-click and select **Properties**.

To check the display properties for the GPU, go to **Control Panel** of your PC, and select **Display and Settings.**

TouchDMIS License

You need a valide license through the dongle USB.
In case you dont' have the dongle USB, please contact your distributor.

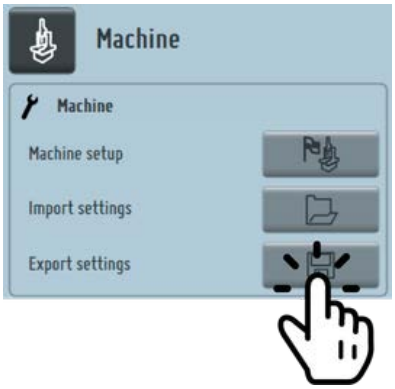
Administrator user

To install and run TouchDMIS for the first time, you must be logged on as user with Administrator privileges.

Installation

Backup of the machine configuration

In case of re-installation or update of the TouchDMIS version, we suggest to make a backup copy of the machine configuration (*.mcz).
You can save a backup copy of the existing machine configuration in **Settings -> Machine -> Export settings**



First installation

In Administrator mode, run TouchDMIS exe file.

TouchDMIS installation window will appear.

Installation

Install drivers

To install additional drivers, select **Install Drivers**.

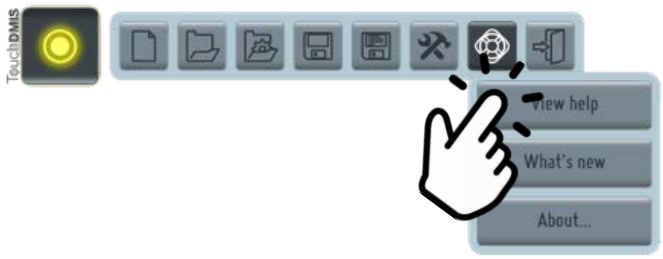
Select the drivers from the list and click **Back**.

Update TouchDMIS current version

Run the TouchDMIS exe file. If a another version of TouchDMIS is installed, the setup will uninstall it first, and then proceed with the current installation. We suggest to save a copy of the previous TouchDMIS sessions to a backup folder.

TouchDMIS User manual

Once TouchDMIS is installed, to see the user manual go to
Home -> Help -> View help



what we have integrated, improved, and refactored

TouchDMIS
THE MEASURING TOUCH

What we have integrated, improved, and refactored

Integrations: sensors and tools

TD-I1518 – TD-I1519 – TD-I1520 – TD-I1521 – TD-I1522 – TD-I1536 - TD-I1539 – TD-1549 - TD-I1550 – TD-I1551 – TD-I1574 – TD-I1575 - TD-I1586 - Renishaw® REVO integration

TD-I1524 - TD-I1531 - Added TesaStar and Hexagon heads in TouchDMIS using TTP (I++ Server)

TD-I1535 - TD-I1579 - Energy saving mode (“Environment-Friendly Mode”)

TD-I1545 - TD-I1624 - TD-I1647 - PATLITE signal tower integration in TouchDMIS

TD-I1572 - TD-I1573 - TD-I1576 - Renishaw® SFP2 integration

Integrations: automation

TD-I1552 - “TouchDMIS Automation Control Box” implementation

TD-I1580 - TD-I1581 - Added NFC authentication for user profiles

Improvements

TD-I1003 - Added a setting to enable the safe position during tool changing

TD-I1014 - Implementation of selection of S/SA during localization of calibration objects

TD-I1511 - Improved TouchDMIS startup time

TD-I1523 - TD-I1532 - TD-I1533 - Improved all-axis touch measurement

TD-I1529 - Implementation of PATH/SURFACE statement

TD-I1565 - Changer rack - Improved support design

TD-I1594 - TD-I1595 - TD-I1596 - TD-I1608 - TD-I1610 - Improved EasyRunner performance: added bar code scanner functionality and option to enable seamless execution of the measuring programs

TD-I1600 - Improved scanning retrieving points velocity

TD-I1621 - Improved Machine setup interface

TD-I1627 - Implementation of the Metrology Gate variables through the command DMESW/COMAND,’HEADERMACRODIALOG’

TD-I1631 - Added GD&T feature control frame to tabulated and graphical report

What we have integrated, improved, and refactored

TD-I1633 - Pantec: now the approach distance is calculated from the surface of the sensor

TD-I1649 - TD-I2026 - Prompt improvements: Added the Quick prompt editor for DMIS HLL and the possibility to edit the picture size

TD-I1654 - TD-I1672 - Pattern construction implementation

TD-I1653 - Improved slot measurement angles using arc

TD-I1658 - Moved Datum/Alignment icon in the Measuring portal

TD-I1661 - TD-I1867 - TD-I1883 - TD-I1887 - Integration of composite tolerance

TD-I1662 - RDS Arm measure confirmation buttons

TD-I1667 - Improved GD&T windows in main interface

TD-I1668 - Added GD&T Feature control frame in Datum window

TD-I1670 - TD-I1671 - Improvements in datum application

TD-I1673 - “Last actions” functionality improved

TD-I1686 - Improved translations in graphical reporting

TD-I1695 - Gear plugin: improved gear model visualization

TD-I1708 - TD-I1724 - **TD-I1730 -** Improved changer rack procedure: adding coupling and sweep speed, changing the port status, and improving the dialog box

TD-I1776 - CC3/2: Restored axes block buttons (F11 - F12 - F13)

TD-I1818 - Added a confirmation prompt before the changer rack alignment process starts

TD-I1859 - Added a confirmation prompt before executing FROM-HOME

TD-I1884 - Improved RDS arm visualization

TD-I1893 - Added the possibility to use the auto calculation of elevation angle from IPP

TD-I1908 - Fixed error in scanning acceleration not working on path line

TD-I1927 - Pantec: fixed circle scanning and approach move to scan

TD-I1952 - GEAR plugin: added DELETE/F ( ) command

TD-I1993 - Refactoring of the error messages on critical hardware errors

TD-I2004 - Implementation of the DMIS command SMODE( )

TD-I2074 - Improved point cloud construction calculation

fixed bugs

TouchDMIS
THE MEASURING TOUCH

Fixed bugs

This release addressed the following bugs:

TD-I83 - PH20 - Fixed error in measurement path generation when angle is edited

TD-I1215 - Fixed the wrong best-fit plane

TD-I1242 - Error during the re-execution of an edited measurement block

TD-I1357 - Fixed error during the manual head implementation in TTP

TD-I1387 - TD-I1647 - Fixed fail to import some CAD models, now restored

TD-I1388 - Fixed error when using the MH20 that prevents the creation of new tools

TD-I1390 - Fixed error when selecting plane edge planning method using continuous scanning

TD-I1451 - Fixed error during changer rack procedure: TouchDMIS goes down after “Controller refused to execute requested command” message

TD-I1508 - Fixed the wrong form error and deviation of cone measurement

TD-I1517 - PH20 - GoTo’s error during the measurement of the outer circle

TD-I1534 - TouchDMIS goes down after setting a star probe and selecting another tool

TD-I1537 - Changer rack - Wrong TSR-10 offset from port 6 to 10

TD-I1538 - PH20: fixed wrong angles using mirror part program

TD-I1540 - PH20 - standard 3-axis GoTo after SNSLCT with probe orientation rotate it back to 0,0

TD-I1542 - Graphical report - Fixed missing callout and lines in output

TD-I1541 - Fixed errors in actual probe compensation using UCCServer

TD-I1543 - Fixed the error that if setting a small diameter of an outer circle in HEADCS, TouchDMIS shows “Feature too small” error message

TD-I1544 - Fixed the shutdown with no message in case TouchDMIS with no license

TD-I1546 - Fixed the wrong graphical representation of horizontal CMMs

TD-I1547 - Changer rack - TouchDMIS shows a message to load the subassembly in the rack even if it is already loaded

TD-I1558 - Fixed error of saving uncompleted probes

TD-I1565 - Fixed design error in FCR25 rack representation

TD-I1571 - Changer rack - Fixed wrong subassembly suggestion

TD-I1583 - Mixing single point and scan with ARM gives wrong results to probe compensation

TD-I1591 - Error in feature name during the construction of a line

TD-I1600 - CC3 - Fixed error in calibration routine using MH20i head

Fixed bugs

TD-I1602 - Fixed error in report template: wrong text button and behavior

TD-I1618 - The OBTAIN applied to the surface points asking for i,j,k always retuns 0

TD-I1623 - PH10 - Fixed error after calibration using NMC300: Probe moves without sensor confirmation even in MAN mode

TD-I1628 - Fixed error in GoTo PCS: first PTMEAS is executed with wrong head orientation

TD-I1630 - Changer rack: fixed error during calibration routine

TD-I1632 - Fixed error in importing old version of the STEP file

TD-I1637 - Graphical Report: fixed the error in the position of the anchors

TD-I1644 - PH20 - Wrong probe head orientation after 5-axis GoTo

TD-I1650 - Fixed error in scanning path using only 2 points

TD-I1659 - Fixed error in measuring after a dry run execution

TD-I1663 - RDS Arm - Fixed error while selecting the laser on RDS App

TD-I1665 - UCCserver: fixed error in TouchDMIS with some PH20 calibrated position

TD-I1666 - Lost depth settings after changing speed value on the measuring window

TD-I1669 - Fixed error in the application of position tolerance (after the definition of the position tolerance, the dialog does not include the tolerance value)

TD-I1676 - Fixed error in Line as center line construction: the result is wrong in the execution

TD-I1681 - Fixed error in Line as copy construction: the result is wrong in the execution

TD-I1682 - Fixed error in Plane as copy construction (the construction of the plane has wrong values)

TD-I1687 - Fixed error in Plane as sphere offset construction (impossible to confirm the construction of a plane as sphere offset)

TD-I1689 - Fixed error in Sphere as copy construction: the result is wrong in the execution

TD-I1691 - Fixed error in measurement of circles using HEADCS

TD-I1692 - TD-I1693 GEAR plugin: fixed errors in pitch, thickness, and runout evaluation

TD-I1696 - GEAR plugin: fixed error in saving nominal gear file

TD-I1688 - Fixed error in Plane as plane translation construction (the construction of a plane as plane translation has a wrong nominal value, and the value is only positive)

TD-I1712 - Fixed error in the application of the position tolerance using planes: values were not displayed in the results window

Fixed bugs

TD-I1772 - Chager rack - Fixed SSR rack configuration (SP25 allowed to rack SSR20)

TD-I1780 - Fixed connection errors using PMT

TD-I1800 - Fixed the error in the renaming of the feature construction

TD-I1802 - Fixed errors in 2D and 3D labels

TD-I1813 - Fixed error while applying ISO Ø tolerance on multiple objects (it applies tolerance only for the first object)

TD-I1830 - Fixed errors in distance between lines

TD-I1831 - Fixed error while measuring using a manual machine with swap axes: TouchDMIS gives an error

TD-I1841 - Fixed measure out of volume error while scanning arcs

TD-I1854 - Fixed error while selecting line limits

TD-I1859 - Fixed error in editing measuring path with cylinder (cannot drag the beginning and end of sections)

TD-I1879 - Fixed component rack configuration (impossible to assign a component to a rack)

TD-I1890 - GEAR plugin - Fixed ± selection bug in the Gear parameters dialog box

TD-I1911 - Fixed error on play button disabled during measurement interruption

TD-I1925 - Fixed errors after connect/disconnect button pressed: the probe and controller has different probes

TD-I1945 - Fixed cone measurement error form

TD-I1950 - Fixed errors on scan on curve: TouchDMIS allows the creation of scan on curve with only 2 points (3 needed)

TD-I1951 - GEAR plugin: fixed errors when measuring single points, but scan mode is still active

TD-I1953 - GEAR plugin - Fixed error in selecting tool for alignment

TD-I2077 - Fixed error when selecting cylinder feature: the direction is inverted

TD-I2080 - Fixed error when applying negative tolerance on surface using EN ISO (UZ)

TD-I2082 - Fixed error on inverted measuring path when selecting a surface

TD-I2083 - ASME and EN ISO [UZ] tolerances: fixed wrong results

TD-I2091 - Fixed error in construction: Impossible to make a line through two lines

TD-I2094 - Fixed alignment error that gives synthax error after creating an alignment between a plane and two slots (or a circle and a slot)

supported hardware, drivers and changer racks

TouchDMIS
THE MEASURING TOUCH

Supported Hardware & Drivers

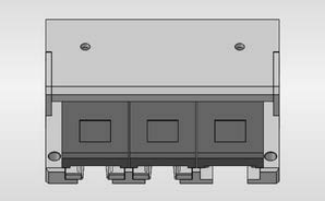
Here is the complete list of TouchDMIS-Controller compatibility and its latest driver version.

System	Firmware/driver/software version
UCC 2-2, T3, T5, S3, S5	UCCserver 5.10.x
Pantec	Available
CC3	V.3.87
DEVA 004	Devacmmctrl61
DEVA Manual (DEVA 001 + DEVA 0037)	Devacmmctrl61
HEXAGON ARMS	Infinite arm RDS 4.x, Absolute arm RDS 5.x
FARO arms: Platinum, Edge	Faro arm Driver Bundle 6.6.0.15
AX3 (unit for man, CMMs)	AX3_V4ND_4.10
LK MCC NMC	Firmware nmc300_36
GRAPHICAL SIMULATOR	Available
API laser tracker: Radian, OTII	SDK RadianPlus-OmniTrackII 5.17.6 (Radian Pro 4.24.16.1)
RD77	Available
IMUSB-100 MH	Release January 2018
PMT arms	3.0.5.1E

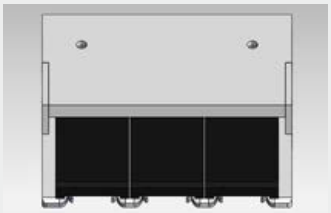
Supported changer racks

LK series

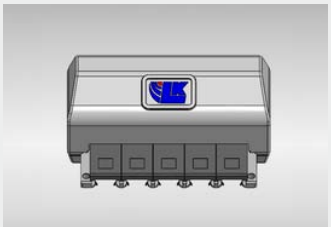
MSR20-3



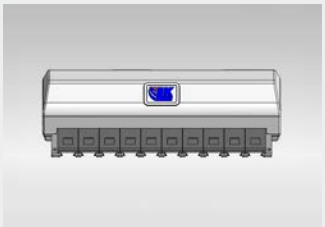
MSR25



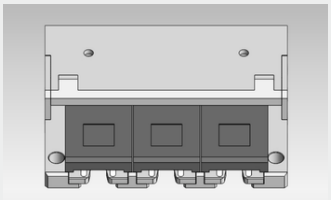
TSR-5



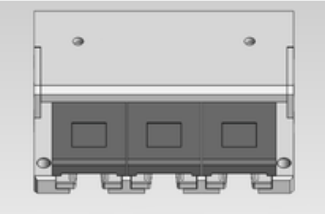
TSR-10



SSR25-3



MSR200-3

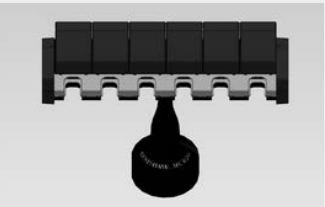


Renishaw series

FCR25
- FCR-25L3
- FCR-25L6
- FCR-25TC

SCR200

MCR20



ACR3

PC specifications

TouchDMIS
THE MEASURING TOUCH

PC Specifications

Minumum (manual CMM, small CAD models)

OS	64-bit Windows 10
CPU	Intel Core i5
RAM	8 GB
HARD DRIVE	256 GB SSD
GRAPHICS	2 GB NVIDIA chipset supporting DirectX 11 or higher, feature level 11
USB	2, USB 2.0 - 3.0 (TouchDMIS license key and CMM communication
MICROSOFT .NET	4.7.2
ETHERNET	1, 100 Base-T Ethernet port (CMM controller)

Reccomended (CNC, CMM using CAD or a laser scanner)

OS	64-bit Windows 10, Professional
CPU	Intel Core i7
RAM	16 GB
HARD DRIVE	1 TB SSD
GRAPHICS	4 GB NVIDIA chipset supporting DirectX 11 or Higher, feature level 12
USB	1, USB 2.0 (TouchDMIS license key) or 1 USB (or serial RS232) for systems with PH10 controller
MICROSOFT .NET	4.7.2
ETHERNET	1, 100 Base-T Ethernet port (CMM controller)

contacts and official channels

TouchDMIS
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TouchDMIS contacts and official channels

We take care of our customers and users and try to solve all client problems promptly. Here is a list of contacts and channels based on your TouchDMIS needs.

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