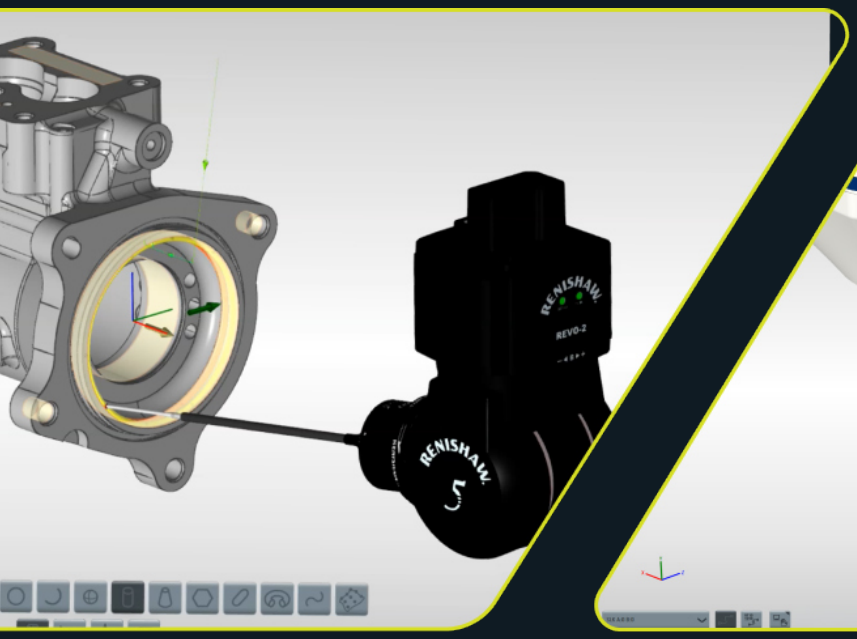
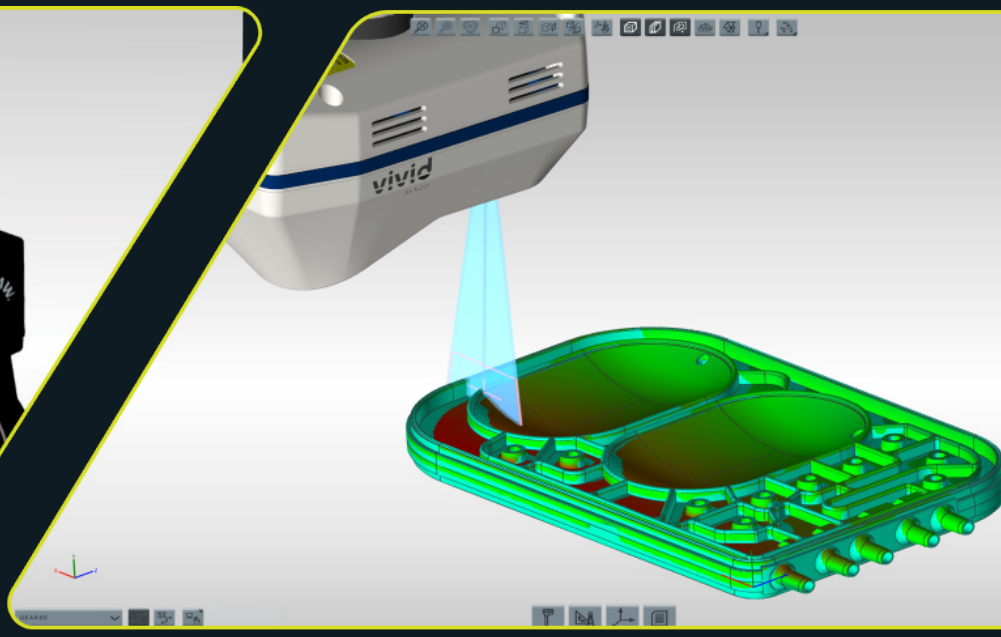
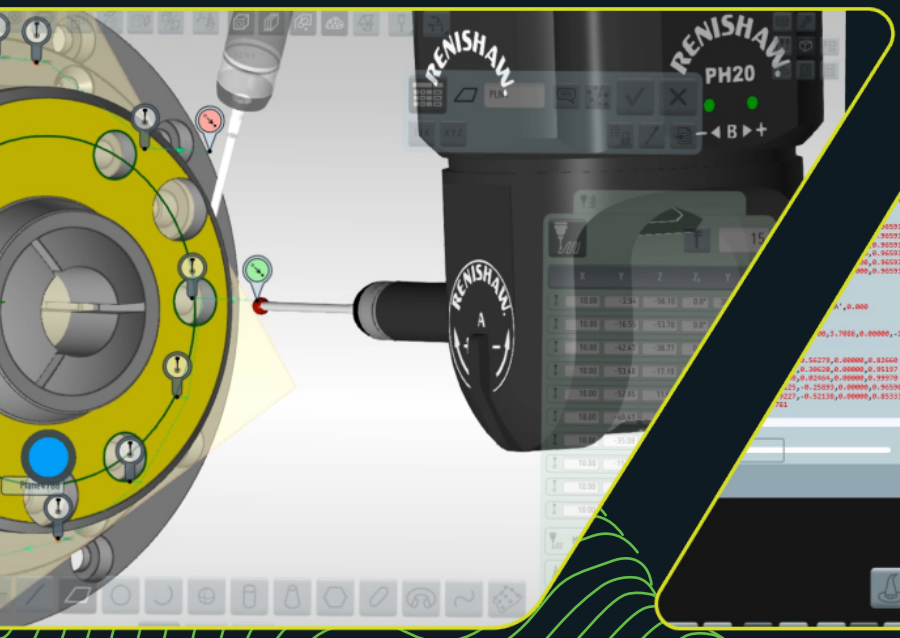
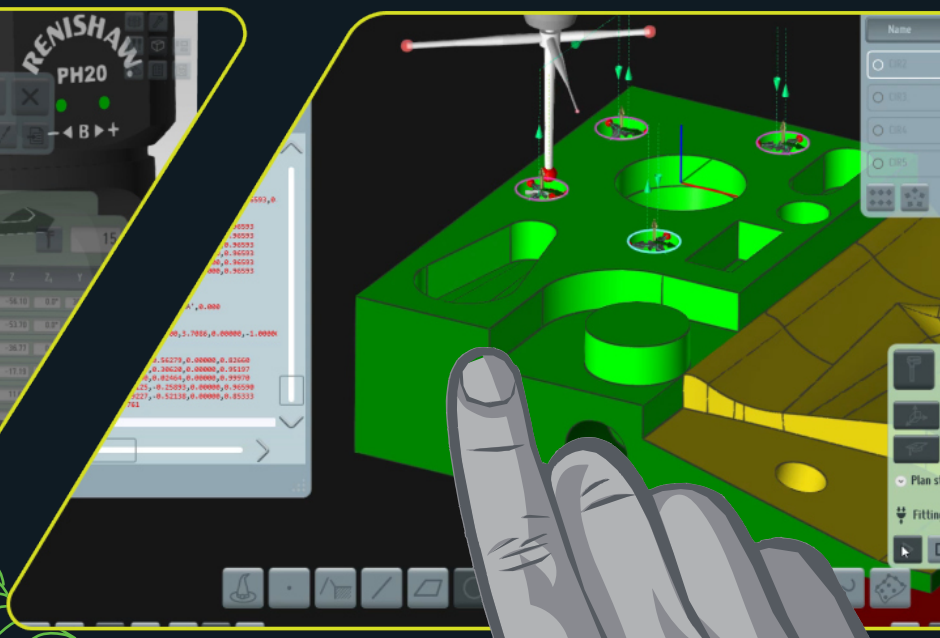
TouchDMIS

THE MEASURING TOUCH









The full-touch experience

TouchDMIS
THE MEASURING TOUCH

Inspection has never been so easy.

POWERFUL METROLOGY. SIMPLE TO OPERATE.

TouchDMIS combines **intuitive operation** with **advanced dimensional inspection capabilities** in a single **software environment.**

Designed for both **new** and **experienced operators**, **TouchDMIS simplifies the complete inspection workflow**, from **CAD import** and **measurement programming** to **evaluation** and **final reporting.**



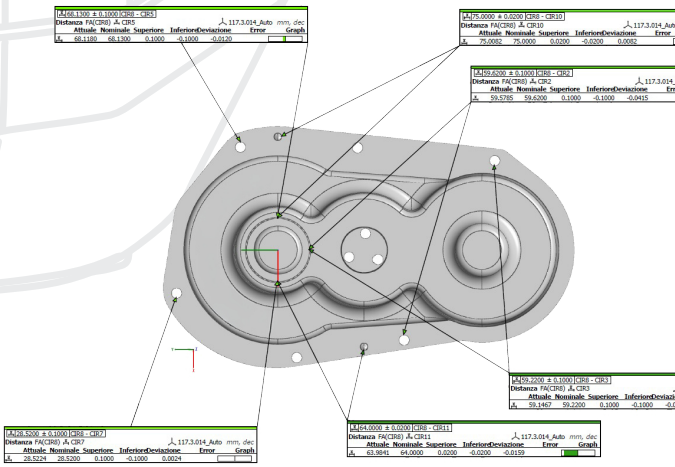
FROM CAD TO REPORT, AT A TOUCH

TouchDMIS brings **full-touch operation** across the **complete inspection workflow**, **simplifying programming measurement**, **evaluation** and **reporting** through a direct and intuitive interface.

FASTER TIME TO REPORT

Complex reporting turned **into simple operations.** From measurement to final report, TouchDMIS generates and shares results in the most suitable format:

- Tabulated report
- 3D CAD-based reporting
- 2D blueprint reporting
- Excel, XML and PDF export
- Texture colour map display
- OPC UA data streaming



FEATURES

Full-touch interface

Touch-screen interface, allowing operators to use the software **seamlessly** in **fully touch mode.**

5-axes support

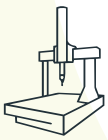
Full 5-axes support for **Renishaw® PH20** and **REVO.**

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ONE SOFTWARE, MULTIPLE INSPECTION TECHNOLOGIES

TouchDMIS brings together different measuring systems, **sensor types** and **technologies in a single software environment**, providing the **versatility** required for a **broad range of inspection applications**.



MANUAL/CNC



ARMS



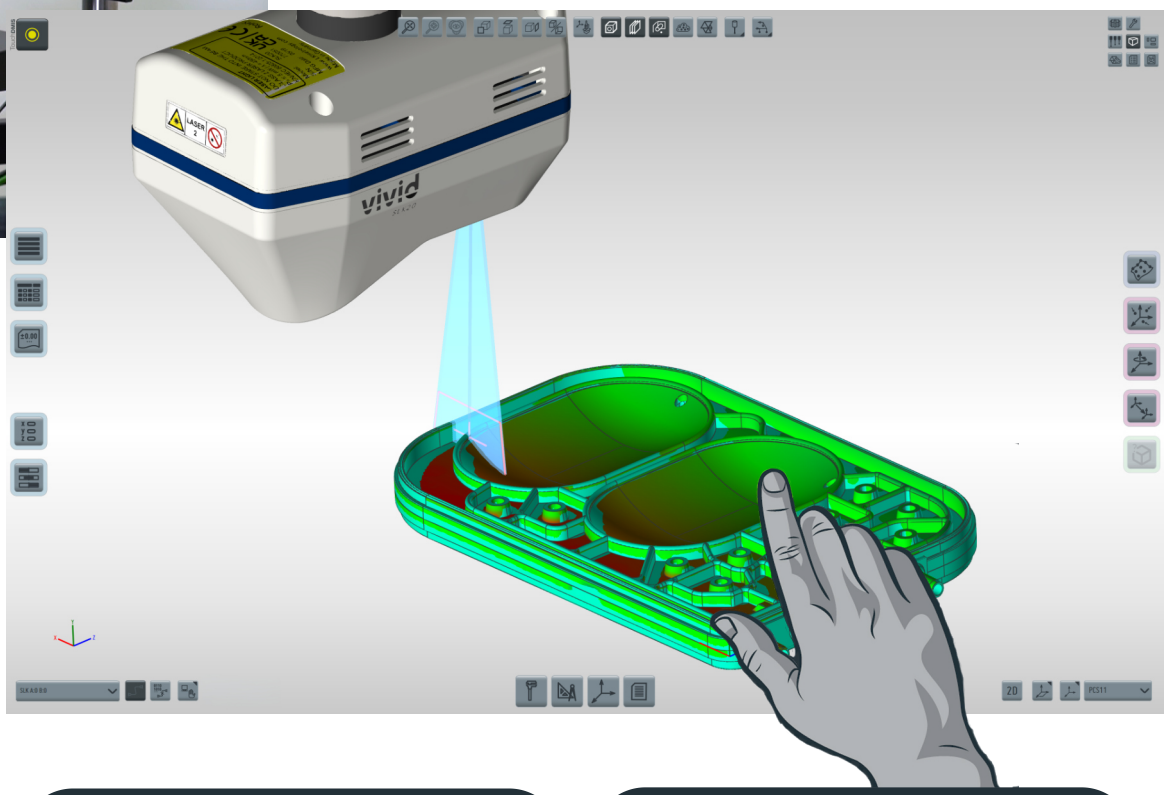
TRACKERS



FAST PROGRAMMING, FAST INSPECTIONS

TouchDMIS combines CAD-based programming, **automatic feature handling** and **program simulation** in a workflow **designed to reduce preparation** and **inspection time.**

Programs can be modified and **simulated before execution**, with **collision detection** supporting **efficient** and **reliable measurement** routines.



scanning

tegration with **laser canners** for non-contact spection on complex rfaces.

Continuous scanning

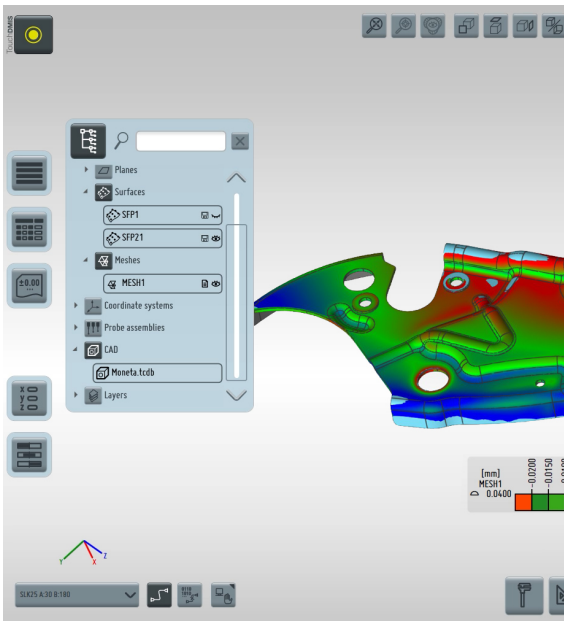
Quick inspections in **continuous scanning** mode with controllers equipped with scanning capability.

Multiple technologies

Support for a wide range of measuring systems, sensor types and technologies.

TouchDMIS
THE MEASURING TOUCH

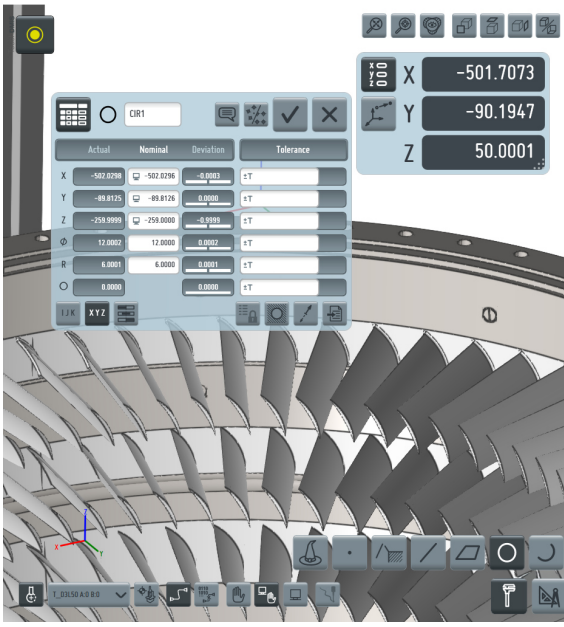
TouchDMIS features



FULL-TOUCH INTERFACE

TouchDMIS provides **complete touch-screen operation** with large, **easily selectable controls** and familiar gestures such as **swipe** and **pinch-to-zoom.**

Programming, **measurement**, **CAD interaction** and **reporting** are **managed directly through the touch interface**.



GD&T STANDARDS

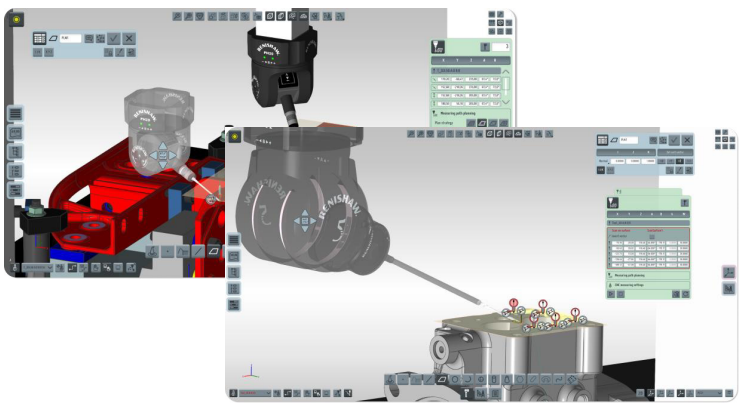
TouchDMIS provides comprehensive support for widely adopted **GD&T standards**, including **ASME Y14.5** and **ISO 1101**.

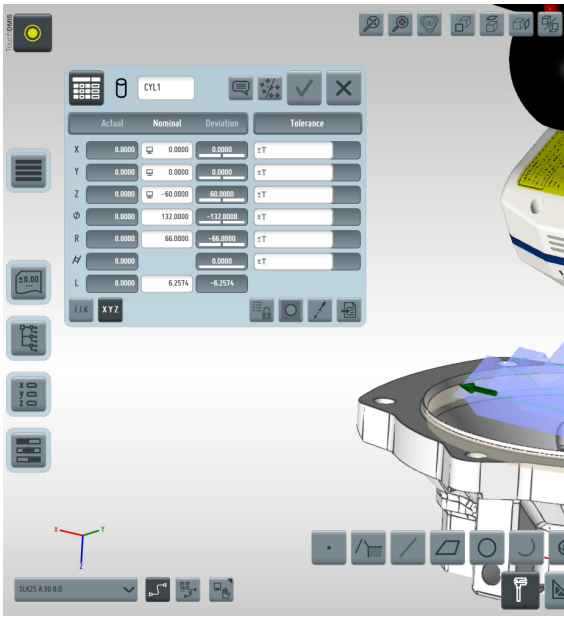
Geometric tolerances, **datum reference systems**, **modifiers** and **tolerance-zone** definitions **are integrated into the inspection workflow**, supporting **consistent evaluation** of **form**, **orientation**, **location**, **profile** and **runout** requirements.

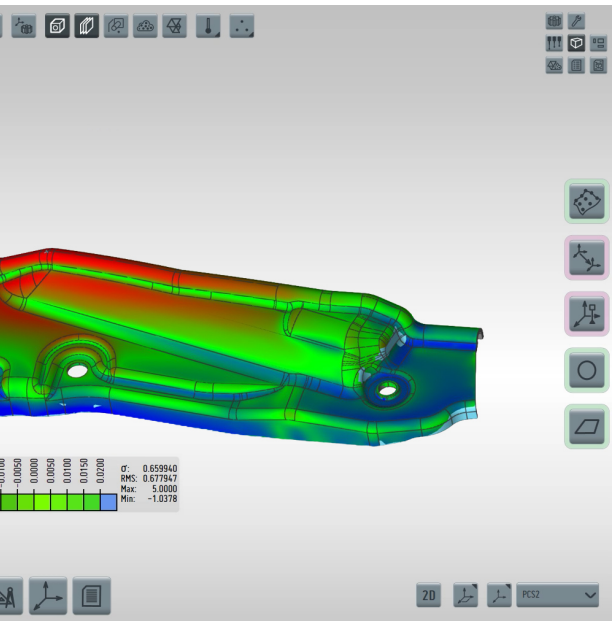
5-AXIS SUPPORT

TouchDMIS supports advanced **5-axis measurement** with **Renishaw® PH20** and **REVO**.

Multi-axis head motion **improves inspection efficiency** while **maintaining accuracy** and **repeatability**, especially on **complex parts** and **difficult-to-reach features**.



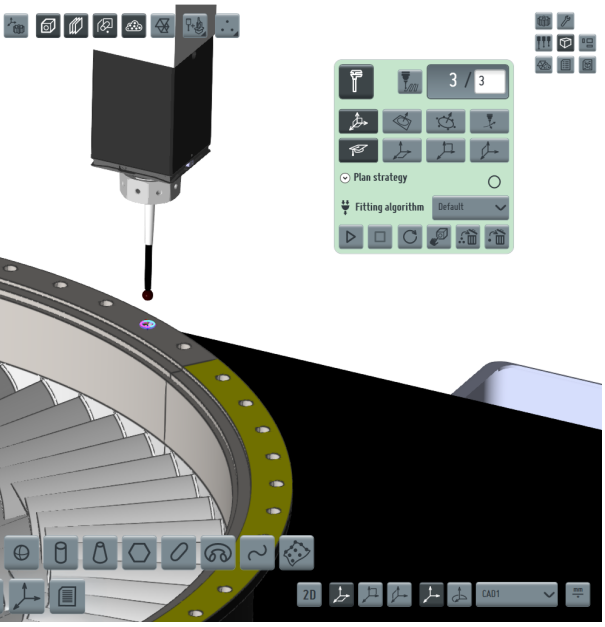




CONTINUOUS SCANNING

TouchDMIS supports **continuous scanning** with controllers equipped with scanning capability.

High speed acquisition of **dense measurement data enables detailed** and **accurate evaluation** of **complex** and **irregular surfaces** while **reducing inspection time**.

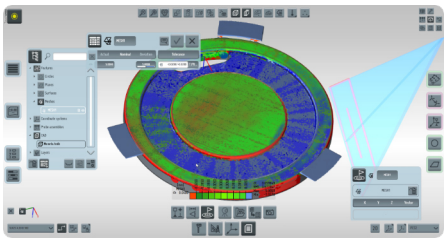


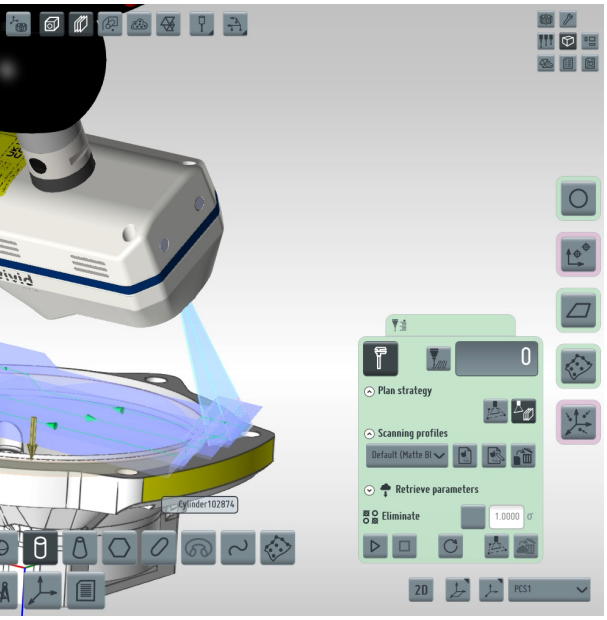
LASER SCANNING

TouchDMIS integrates **laser scanning technology** for **fast**, **non-contact inspection** of **complex parts** and **free-form surfaces**.

High-density point-cloud acquisition improves surface coverage and supports **3D evaluation**, **full-part analysis** and **reverse-engineering applications**.

Deviations from the nominal CAD model are visualized through **colour maps**, providing **immediate identification** of **high** and **low** areas across the inspected surfaces.

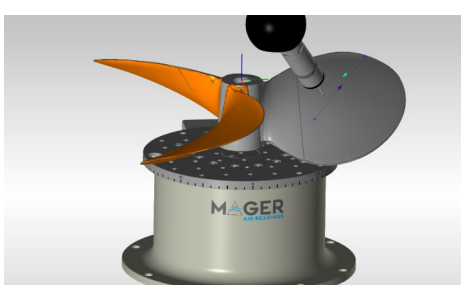




4-AXIS & ROTARY TABLE

TouchDMIS supports **rotary tables** for **flexible inspection** of parts **requiring access from multiple orientations**.

Both continuously driven **rotary tables for full 4-axis measurement** and **indexed rotary tables are supported**, **extending measurement** accessibility, simplifying part handling and improving efficiency within a single setup.



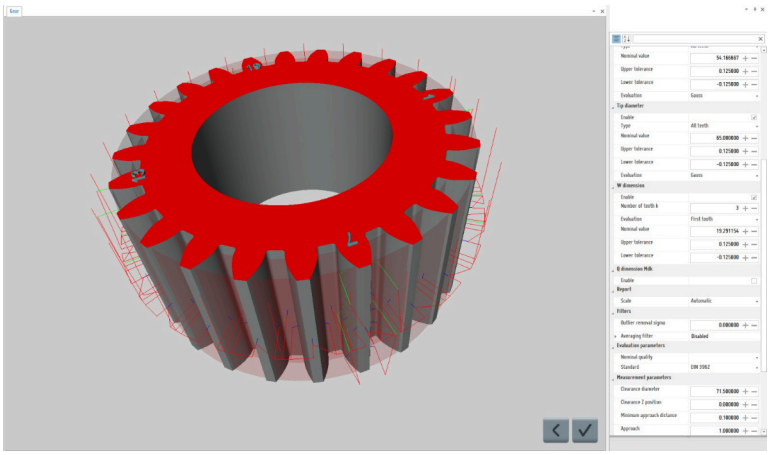
The TouchDMIS ecosystem

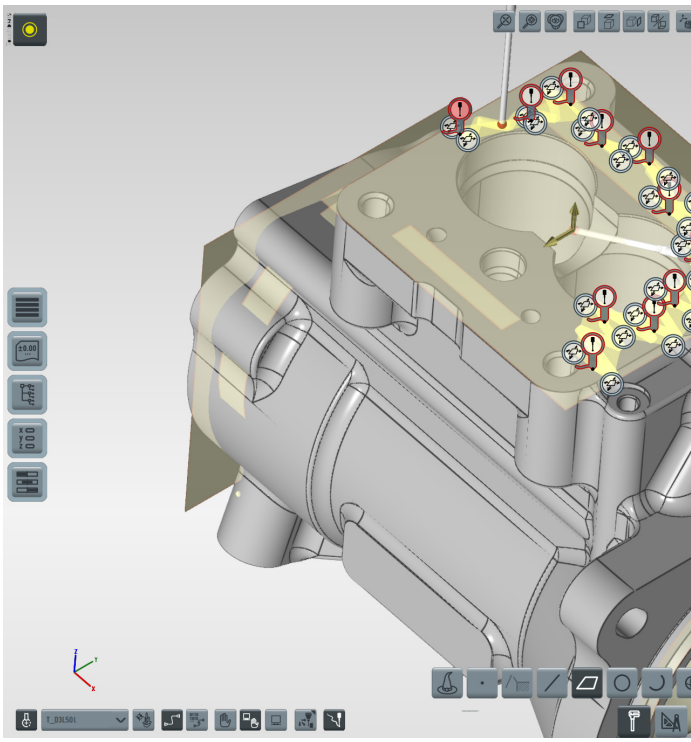
TouchDMIS extends beyond measurement software through a range of integrated modules and solutions that expand inspection capabilities and support the complete metrology workflow

GEAR INSPECTION MODULE

TouchDMIS includes a **dedicated gear inspection module** for **evaluation** of **spur** and **helical gears**.

Specific gear parameters, **evaluation algorithms** and **reporting tools** support detailed inspection of gear geometry, with **clear graphical representation of measurement results** through standard **gear inspection charts**.





AUTOMATION & SHOPFLOOR INTEGRATION

TouchDMIS supports **integration with automated production environments** through **digital I/O**, **Modbus TCP** and **OPC UA connectivity**.

Machine status, **inspection results**, **alarms** and **process signals can be exchanged** with **shopfloor equipment**, **PLCs**, **signal towers** and **manufacturing systems**, enabling coordinated operation within connected production environments.

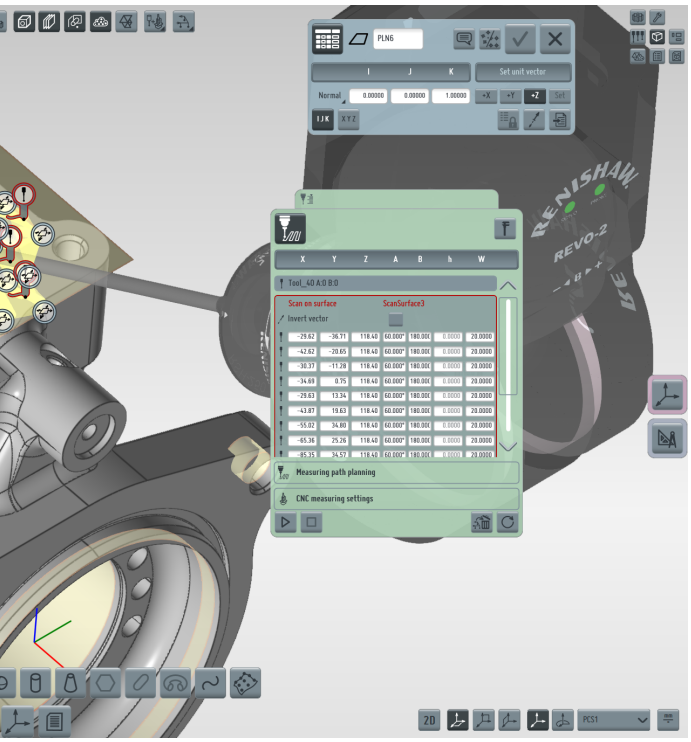
Measuring routines can **be executed** with **Easy Runner,** the TouchDMIS job organizer and program launcher, which requires minimal interaction and no training.

TOUCHDMIS ACADEMY

TouchDMIS Academy **provides a complete training and e-learning environment** designed to build metrology knowledge and **TouchDMIS proficiency at every level.**

Structured **learning paths cover the complete inspection workflow**, **from basic measurement** operations to **advanced metrology techniques** and **DMIS programming**.

The **TouchDMIS Certification Program** validates **professional competence** while **continuous learning**, **practical guidance** and **technical support** provide an ongoing reference for daily inspection activities and advanced metrology challenges.



40+ hours of expert-led training

Intermediate test to challenge yourself

Interactive courses & real world applications

Official TouchDMIS certification

INDUSTRY 5.0 TOOLS

The **Environment-Friendly** mode of TouchDMIS **enables energy saving by reducing air consumption over 50%.**

METROLOGY GATE

Metrology Gate integration extends TouchDMIS with real-time monitoring of CMM status and key measuring-system parameters, including environmental conditions, airflow, air pressure and machine power consumption.



Advanced statistical evaluation and **production control tools** support **inspection-data management, machine monitoring** and **Industry 4.0** applications within a connected metrology environment.

FEATURES FULL LIST

	Manual	Arm	Tracker	CNC
Measurement Capabilities				
Geometric Feature Inspection	●	●	●	●
Free-Form Inspection	●	●	●	●
Automatic Feature Detection	●	●	●	●
Automatic Feature Confirmation	●	●	●	●
Geometric Constructions with Automatic Detection	●	●	●	●
Sheet Metal Functions	●	●	●	●
Geometric, Free-Form, and RPS Alignments	●	●	●	●
Iterative RPS Alignment	-	-	-	●
Clearance Distance, Clearance Plane, and Clearance Box	-	-	-	●
ISO and ASME Tolerancing	●	●	●	●
Program Block View	●	●	●	●
DMIS Code View	●	●	●	●
Advanced and Parametric DMIS Programming and Macros	●	●	●	●
Numerical Filters	●	●	●	●
Blueprint Environment	●	●	●	●
Leapfrog	-	●	●	-
Hole Search	-	-	-	●
Threaded Hole Inspection	-	-	-	●
Collision Detection	-	-	-	●
Point Cloud: Editing, Section Comparison, Feature Extraction, Meshing	-	○	○	○
External Point Cloud Import	-	○	○	○
Plane Levelling	-	-	●	-
Offline Programming	-	-	-	○
Output and Export				
Graphic, Text, Excel and PDF Reporting	●	●	●	●
Feature Export (IGES and STEP)	●	●	●	●
Measured Profile Export (IGES, STEP, and ASCII)	●	●	●	●
XML Export for Industry 4.0 Integration	●	●	●	●
Metrology Gate	○	○	○	○
Mesh and Point Cloud Export (STL)	-	○	○	○
Surface Colour Map Reporting	●	●	●	●
CAD Texture Mapping	-	○	○	○
Point Cloud Colour Map	-	○	○	○
OPC UA Output	●	●	●	●
Q-DAS Output	●	●	●	●
Hardware and Additional Options				
Manual Thermal Compensation	●	●	●	●
Automatic Thermal Compensation	○	●	●	○
Probe Definition and Calibration	●	-	-	●
Probe Changer Racks	-	-	-	●
Laser Scanner Inspection	-	○	-	○
Scanning Inspection with SP25 and SP80	-	-	-	○
5-Axis Measurement with PH20	-	-	-	●
5-Axis Measurement with REVO	-	-	-	○
Indexed Rotary Table	●	-	-	●
Continuous Rotary Table	●	-	-	○
Modules				
Program Launcher and Job Organizer (Easy Runner)	○	○	○	○
Integration with Automation Processes (I/O, Modbus, OPC UA)	●	●	●	●
Surface Roughness Analysis	-	-	-	○
Spur and Helical Gear Inspection	-	-	-	○
Miscellaneous				
IGES/STEP Neutral CAD File Import	●	●	●	●
CAD Transformations (Rotation, Translation, and Mirroring)	●	●	●	●
CAD Layer Import and Management	●	●	●	●
Native CAD File Import	○	○	○	○
Part Program Mirroring	●	●	●	●
Text-to-Speech	●	●	●	●
Custom Functionality via Plug-ins	●	●	●	●
PTB-Certified Algorithms	●	●	●	●
User Profiles and NFC Access	●	●	●	●

● Included ○ Optional - Not Available

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THE MEASURING TOUCH

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