PolyWorks Inspector™

The all-in-one inspection software, empowering your CMM with effortless efficiency

innovmetric

A comprehensive all-in-one solution that eliminates the need for multiple software tools!

From planning and programming to measurement, analysis, and reporting, **PolyWorks|Inspector™** is a software solution that combines powerful capabilities with full compatibility across all brands and types of CNC CMMs.

Effortless programming

Experience the simplicity of a modern interface and a no-code approach to CMM programming that drastically shortens the learning curve. Your team can create advanced measurement sequences without specialized programming skills, allowing quality control professionals at any level to deliver expert results.

Unmatched productivity

Standardize your processes with a universal workflow that remains consistent across all measurement devices. This unified approach accelerates training, streamlines inspection programming, and maximizes CMM use.

Measure with confidence

PolyWorks|Inspector guarantees **PTB-certified** algorithmic calculations while protecting your CMMs with tools like always-on collision avoidance. With comprehensive support for **ASME Y14.5** and **ISO GD&T** standards, you can confidently ensure that your dimensional inspections meet global manufacturing requirements.

Clear communication

Accurate measurement is only the starting point: it's clear communication that drives smarter decisions. With free value-added apps and scalable tools, you are fully equipped to share measurement results and reports seamlessly across all stakeholders.

Flexible measurement process setup: From 2D drawings to MBD

Easily create ready-to-deploy inspection projects tailored to diverse downstream workflows, minimizing rework and errors.

Streamline CAD inspections

Work with CAD part files, sub-assemblies, and full assemblies from leading CAD software.

Simplify non-CAD workflows

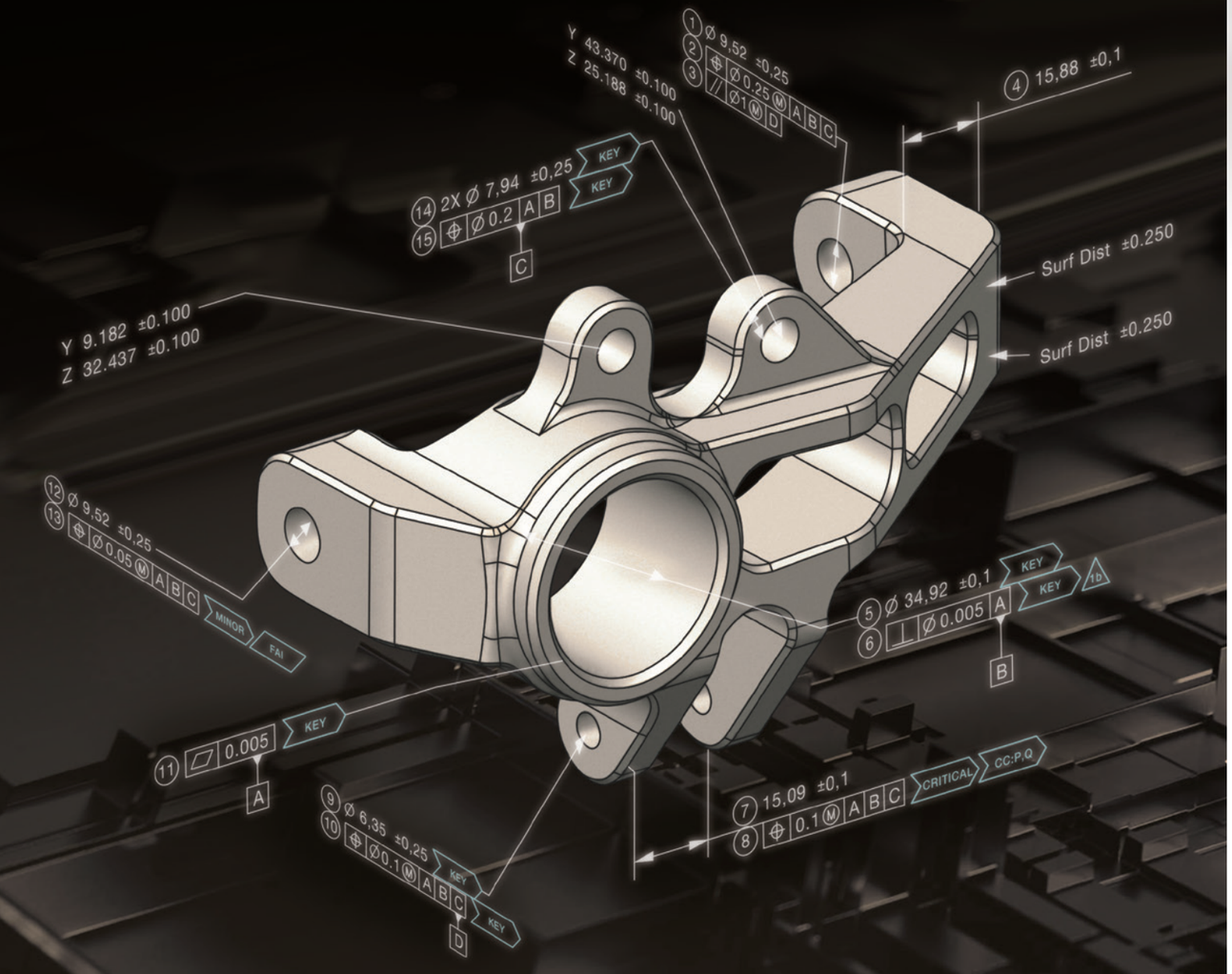
Easily build nominal geometry projects tailored to measurement approaches that don't rely on CAD models.

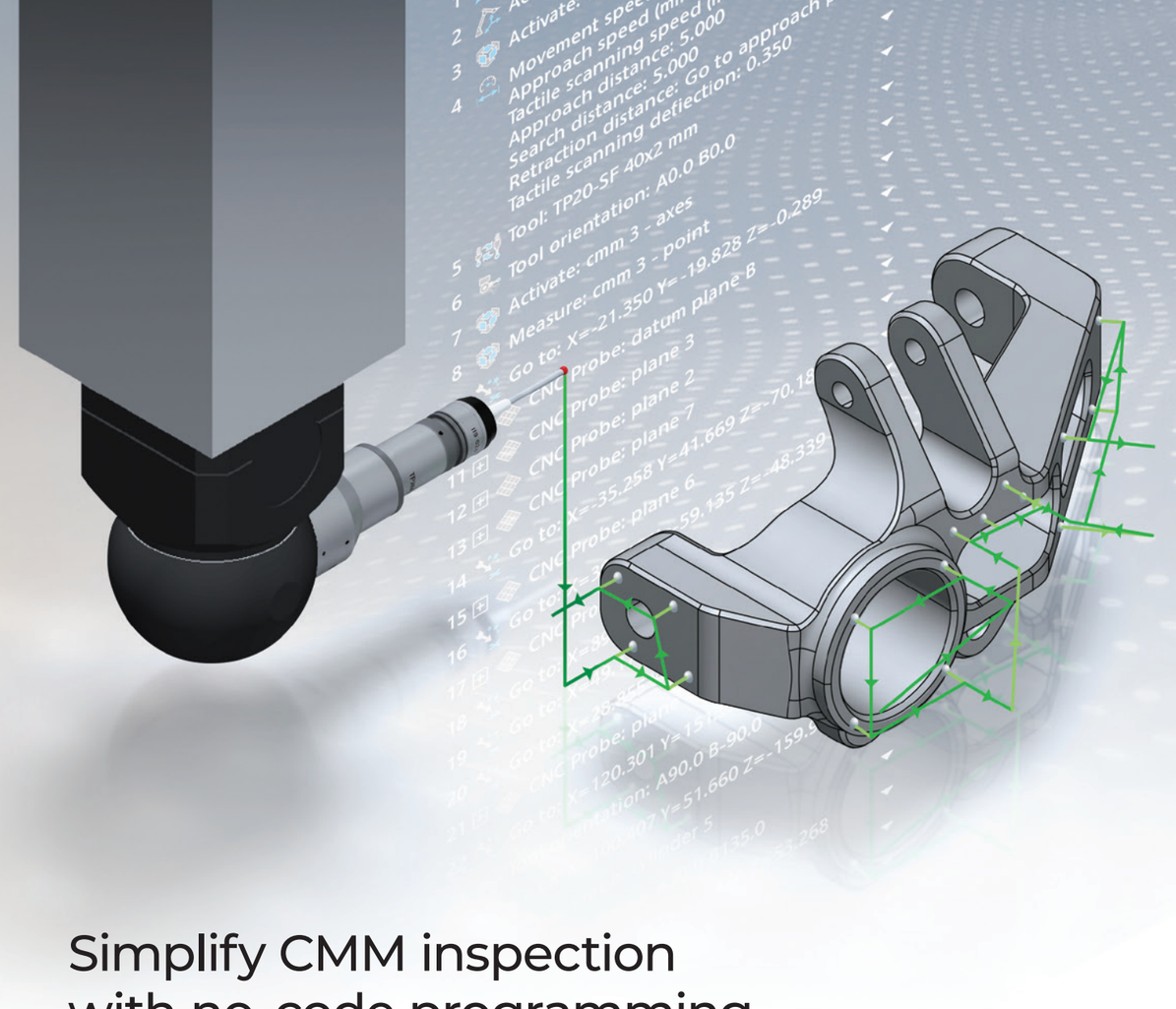
No barriers

Measure all required dimensions, including features, surfaces, points, curves, and constructed geometry.

Accelerated process setup

The **PMI import** functionality enables you to seamlessly integrate annotations, geometric dimensions, and tolerances from CAD models into your measurement plans, ensuring alignment with specific manufacturing requirements.





Simplify CMM inspection with no-code programming

Easy CMM programming empowers your team to focus on what truly matters—achieving efficient inspections. Use intuitive workflows to create optimized toolpaths that reduce cycle time while ensuring collision-free and reliable CMM measurements.

Configure for any CMM in your facility

Achieve full-spectrum compatibility with all your CMMs, including various controller types, single-point probes, tactile probes, 3D scanners, and accessories. Seamlessly adapt inspection programs from one CMM to another—no reprogramming required.

Automatically prevent collisions

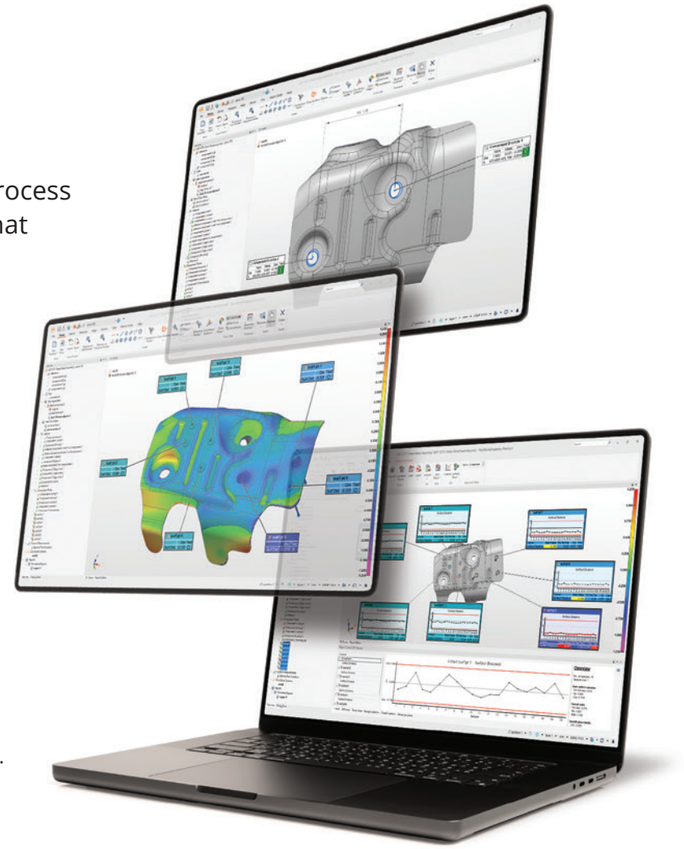
Detect potential collisions with components or fixtures in real time. Use built-in collision analysis and avoidance strategies to optimize toolpaths and prevent damage.

Speed up the CMM programming process

Whether you're measuring parts using probes or 3D scanners, simply select the objects to measure and let the sequence editor automatically determine tool orientations, optimize the measurement order, and generate collision-free paths. Instantly receive feedback to correct sequencing errors efficiently with just one click.

Measure anything and everything

Transform your dimensional inspection process with a comprehensive software toolbox that breaks down measurement barriers.



Access diverse alignments

Use features, datum targets, and surfaces—then refine results with weights and constraints for optimal accuracy.

Extract measured dimensions

Inspect everything you need using point clouds, polygonal models, or probed points.

Leverage parametric functions

Your inspection programs and projects are automatically updated when changes are made to their parameters or calculations.

Create customized workflows

Easily build macro scripts tailored to your inspection needs.

Actionable insights for better decision-making

Effortlessly generate reports to communicate the right information using powerful automation, flexible formatting, and industry standard templates.

Organize complex projects

Group dimensional and GD&T controls into 3D control views and generate **PDF reports** instantly.

Communicate requirements precisely

Edit report formats and layouts effortlessly to meet different specifications.

Ensure automatic report updates

Reports are instantly refreshed whenever linked parameters or calculations are modified, guaranteeing consistent and reliable data.

Build process-focused reports

Go beyond part-specific data with standard templates like **SPC**, **FAI**, **MSA**, and more—ready for immediate use.

PolyWorks|Inspector offers 2 packages for CNC CMMs

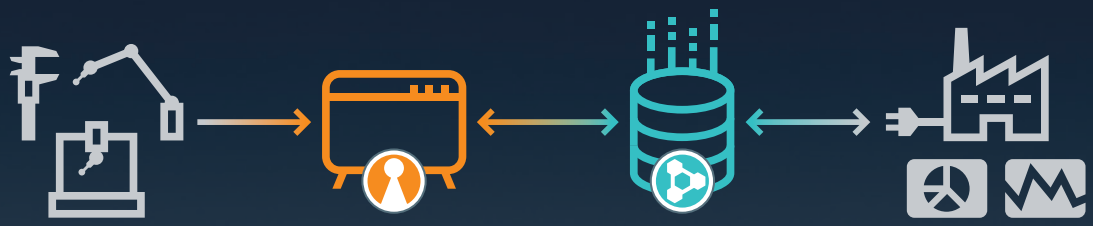
Our universal software platform standardizes your entire measurement process, enabling seamless inspections across different machines thanks to consistent workflows and uniform quality standards that ensure reliable results.

	PROBING++ CNC CMMs with single-point probing and tactile scanning tools	**PREMIUM** CNC CMMs with single-point probing, tactile scanning, and 3D laser scanning tools
Single-point measuring device for portable metrology	•	•
Single-point measuring device for CNC CMMs	•	•
Point cloud digitizer for portable metrology		•
Point cloud digitizer for CNC CMMs		•
CT scanner data		Option
Measurement collection for digital gauges	•	•
Manual measurement data entry and visual checks	•	•
Real-time quality meshing and offline point cloud meshing		•
PolyWorks|Modeler™ Standard		•
PolyWorks|AR™ plug-in		•
IGES/STEP neutral CAD file translator	•	•
Part alignment toolset	•	•
Dimensional control toolset	•	•
Smart GD&T toolset	•	•
Reporting toolset	•	•
Simulation mode for offline project setup	•	•
Repeatable multipiece measurement workflows	•	•
Statistical Process Control (SPC) toolset	•	•
Native CAD file translators	Option	Option
Airfoil gauges	Option	Option
One-year support/maintenance	•	•
Two complimentary seats to attend a Basic classroom training	•	•

Please visit our website for latest package updates.

A single source of truth

Establish a robust digital infrastructure for all your dimensional inspection data by deploying a centralized data management solution, a foundational building block of the digital thread that connects your quality control workflows. With **PolyWorks|DataLoop™**, you can revolutionize the way your organization manages inspection projects, 3D measurements, digital twin instances, and inspection results.



Fixed CMMs, portable CMMs, and gauges

PolyWorks Inspector™

Universal metrology software platform

PolyWorks DataLoop™

Data management on a central server

Interconnection with third-party software platforms

Collaborative communication

Strengthen cross-departmental and global collaboration by transforming raw inspection data into actionable insights. With tools that standardize data interpretation, every stakeholder can accurately analyze results and make informed decisions. Using value-added apps like **PolyWorks|ReportLoop™**, you can seamlessly integrate 3D measurement data into **Excel** and **Power BI**, unlocking advanced charting, custom computations, and dynamic data summaries. Power BI dashboards provide real-time visibility and stay automatically up to date, eliminating manual refreshes.

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