

What's new in

# PolyWorks® 2021

Dimensional Analysis &  
Quality Control Solutions

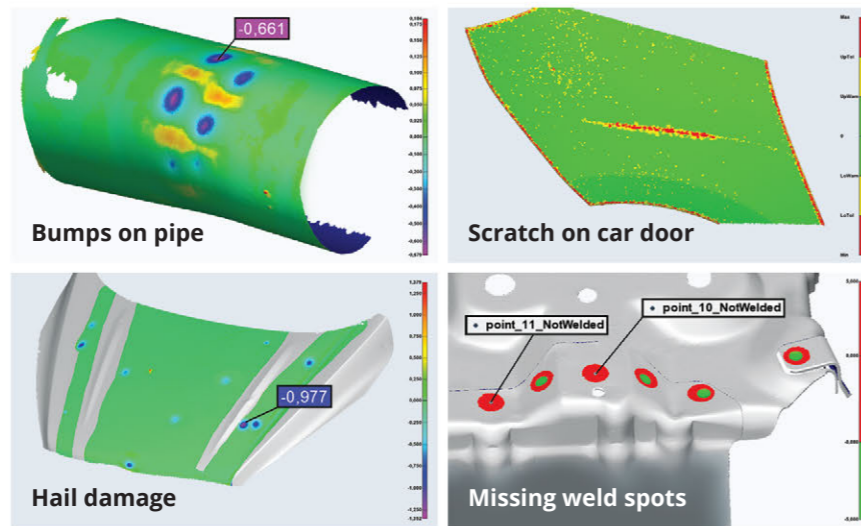
## Innovative Technologies and Processes for Smart 3D Metrology



# PolyWorks | Inspector™ 2021 extends the analysis of curved surfaces

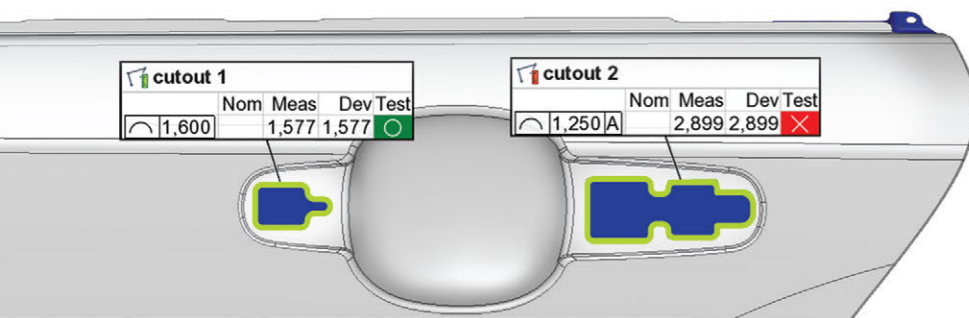
Use the powerful surface defect detection technology to quickly display surface anomalies in 3D scans by way of a color map, without using a CAD model:

- Detect bumps, scratches, dents, and cavities in curved or planar surfaces by highlighting curvature anomalies
- Visualize just the critical defects by setting tolerances
- Click a defect area to display deviations from the theoretical surface for quick and powerful reporting

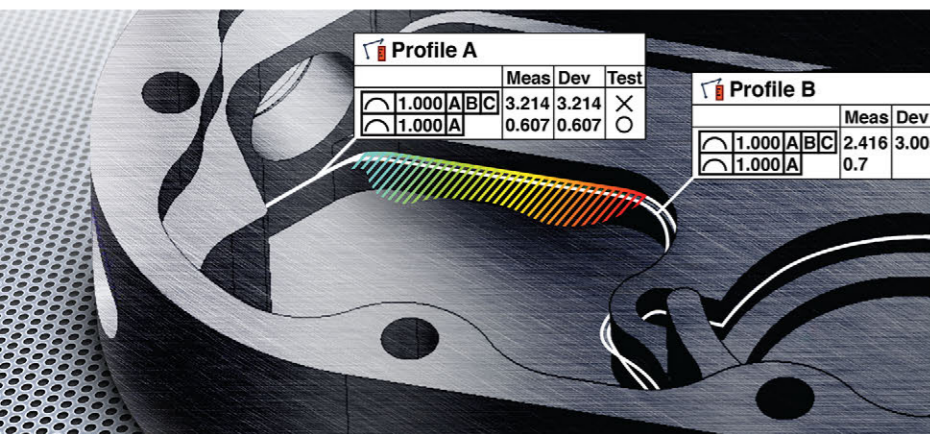


Benefit from the new Line Profile GD&T tool that meets ASME and ISO standards, and offers controls with a full or partial datum reference frame, to:

- Analyze single, partial, and multisegment 2D profiles of freeform sheet metal cutouts

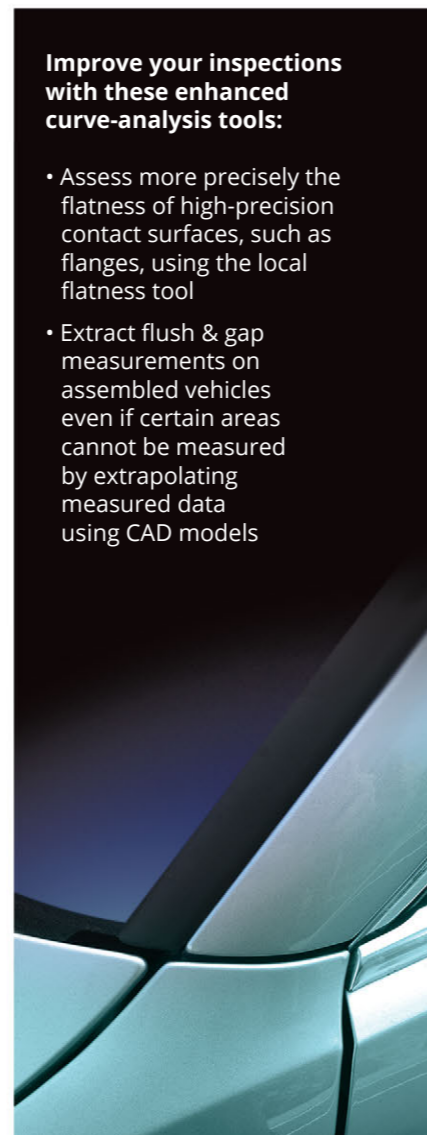


- Inspect entire or partial 2D sections of extruded or lofted parts
- Review form and positional errors of complex sections and cutouts using powerful visual aids to ensure the fit of mating components



Improve your inspections with these enhanced curve-analysis tools:

- Assess more precisely the flatness of high-precision contact surfaces, such as flanges, using the local flatness tool
- Extract flush & gap measurements on assembled vehicles even if certain areas cannot be measured by extrapolating measured data using CAD models

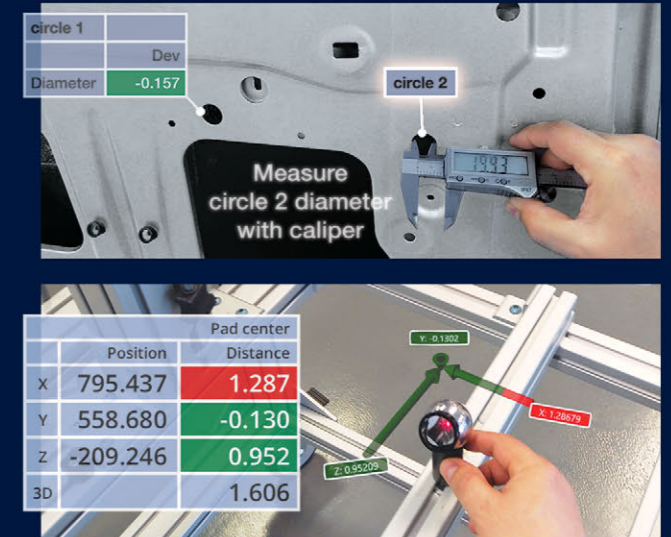


# Transform your measurement operator experience

Increase the efficiency and repeatability of your 3D measurement operations thanks to technological aids added to our measurement toolbox:

- With PolyWorks | AR™:
- Ensure digital gauging traceability by capturing and automatically storing a mixed reality photo when measuring a dimension with a digital gauge
  - Display digital readouts, axial deviations, and guidance arrows as holograms in the operator's view to help precisely position a machine, a tool, or a fixture

Interconnect PolyWorks to other digital enterprise solutions while measuring by creating macro scripts that self-trigger before or after certain operations are executed

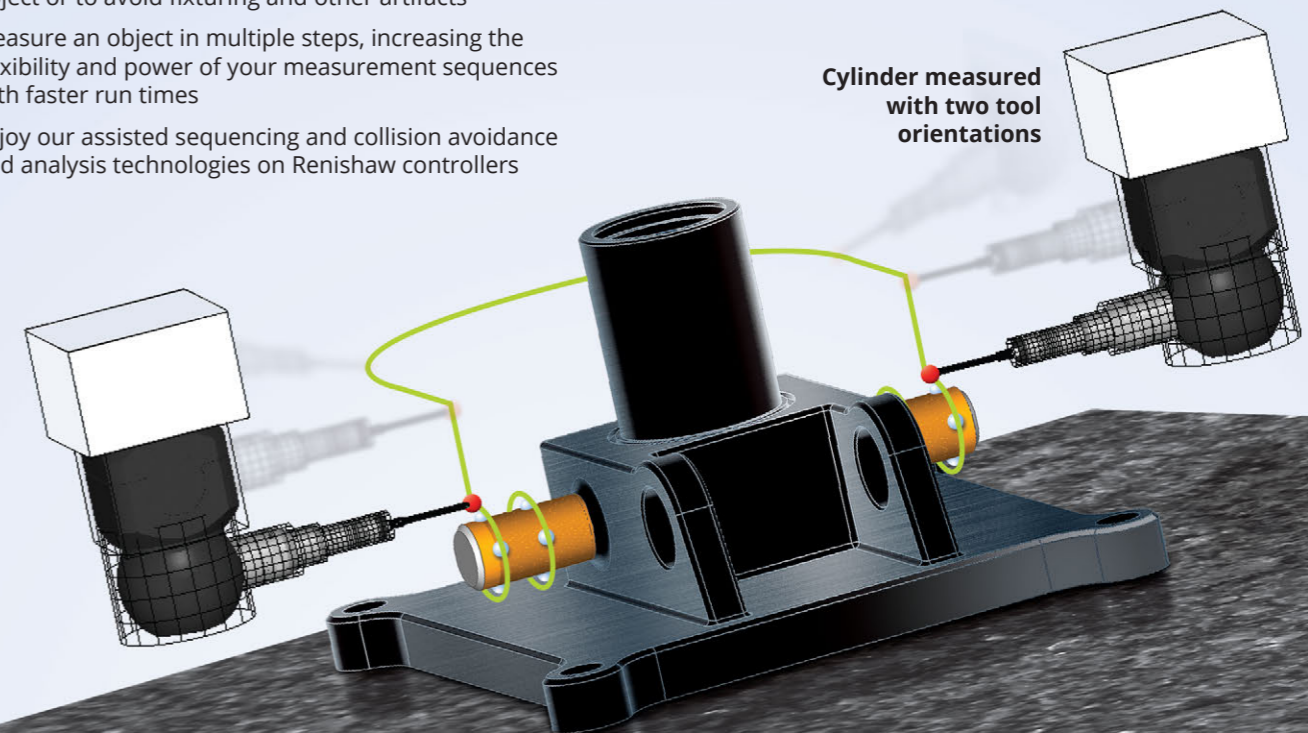


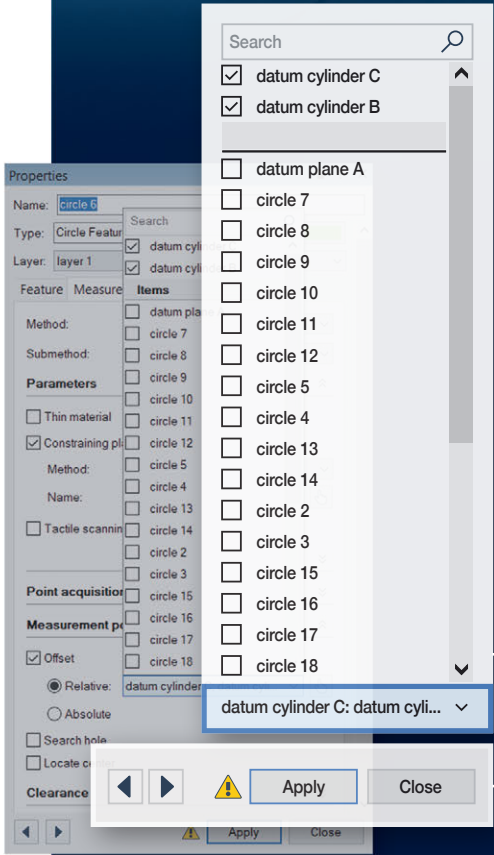
# Deploy PolyWorks as your standard offline CNC CMM sequencing solution

CNC CMM users will save even more time thanks to the revolutionary intelligence added to our innovative assisted sequencing technology and have more possibilities with the extended universality of our offline solution:

- Let the assisted sequencing technology determine if multiple tool orientations are needed to measure an object or to avoid fixturing and other artifacts
- Measure an object in multiple steps, increasing the flexibility and power of your measurement sequences with faster run times
- Enjoy our assisted sequencing and collision avoidance and analysis technologies on Renishaw controllers

- Access Hexagon and Zeiss inferred probe heads and laser scanners in our catalogs when creating a sequence offline
- Export our CNC CMM measurement sequences to a standard DMIS file to accelerate sequence creation in legacy CMM software





# Handle large projects efficiently

Accelerate working with large inspection projects thanks to new tools for finding, selecting, and editing objects:

- Accelerate single or multiobject selection in a dropdown menu by selecting objects in the 3D Scene or Tree View or by typing a few characters of an object's name to filter down the number of objects shown in the menu's list
- Access directly the Apply, Close, Next, and Previous buttons of Properties windows, regardless of the scroll position

**New object selection menu with search tool**

**Commit buttons are now always visible**

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