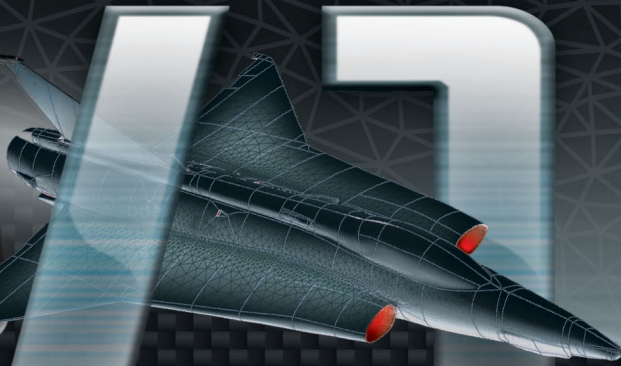




PolyWorks®



The Universal
3D Metrology
Software
Platform for
Manufacturing™

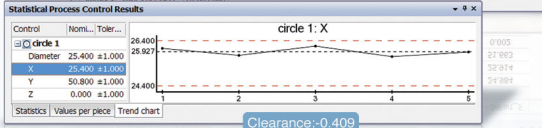


PolyWorks®

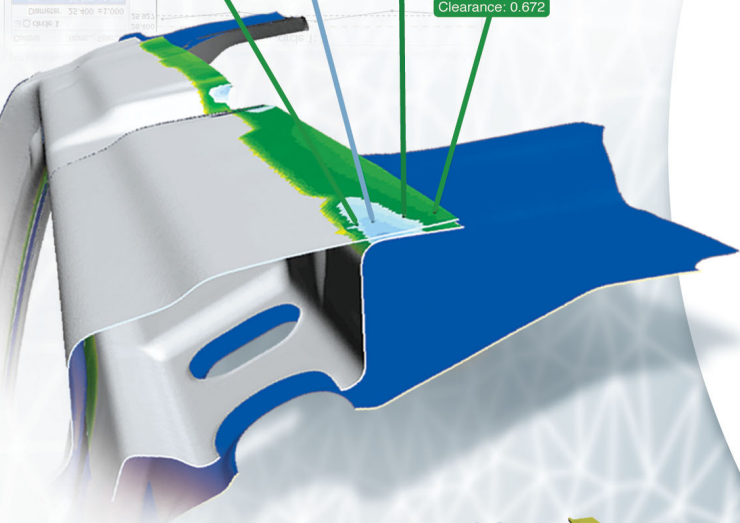
The Standard Point Cloud Engineering Solution

V111

| Control | Nominal | Tolerance | 1 - IMPart_1 | 2 - IMPart_2 | 3 - IMPart_3 | 4 - IMPart_4 | 5 - IMPart_5 |
|-----------------|---------|-----------|--------------|--------------|--------------|--------------|--------------|
| circle 1 | | | | | | | |
| Diameter | 25.400 | ±1.000 | 24.738 | 25.539 | 25.528 | 23.958 | 24.984 |
| X | 25.400 | ±1.000 | 26.075 | 25.765 | 26.174 | 25.708 | 25.914 |
| Y | 50.800 | ±1.000 | 51.590 | 51.176 | 50.759 | 52.124 | 51.663 |
| Z | 0.000 | ±1.000 | 0.201 | 0.092 | -0.002 | 0.076 | 0.002 |

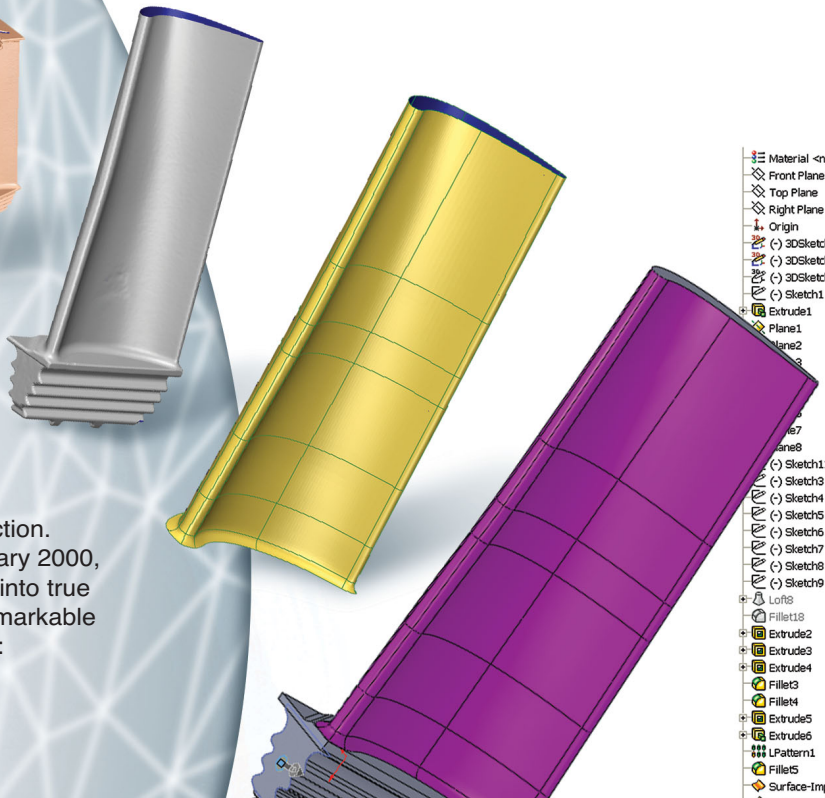


Clearance: -0.409
 Clearance: 0.033
 Clearance: 0.054
 Clearance: 0.672



Founded in 1994 in Québec City, Canada, InnovMetric Software has the largest installed customer base of high-density point cloud software in the manufacturing community worldwide. Leading-edge automotive and aeronautic OEMs such as BMW, Boeing, Daimler, Ford, GM, Honda, Rolls-Royce, Toyota, and Volkswagen, and their suppliers, use PolyWorks in their daily **point cloud digitizing, dimensional analysis, comparison-to-CAD, and reverse-engineering** tasks.

These flagship customers adopted PolyWorks early on because of its unrivaled technological leadership and after-sales support.



- Material <not sp...
- Front Plane
- Top Plane
- Right Plane
- Origin
- (-) 3DSketch8
- (-) 3DSketch9
- (-) 3DSketch1
- Sketch1
- Extrude1
- Plane1
- Plane2
- Plane3
- Plane4
- Plane5
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PolyWorks Defines the Forefront of Technology

InnovMetric is the **inventor** of point-cloud-based inspection. Since the first release of PolyWorks/Inspector™ in January 2000, InnovMetric has transformed high-density 3D digitizers into true metrology instruments by introducing and perfecting remarkable new computing techniques on point cloud data such as:

- Automatic GD&T analysis (2002)
- Programmable flush & gap and profile gauging (2003)
- Clearance measurement on virtual assemblies (2005)
- Meshing distributed over a computer network (2006)

From Point Clouds to Hard Probing

High-density point cloud digitizers are remarkable devices for quickly measuring complex free-form surfaces, while single-point hard probing devices are ideal for accurately measuring holes and prismatic features.

In addition to operating major laser scanner and white-light digitizer brands from its user interface, PolyWorks fully supports a wide range of arm-based and hand-held probing devices, photogrammetry-based devices, laser trackers, and manual CMMs, enabling hybrid metrology applications combining point clouds with hard probing.

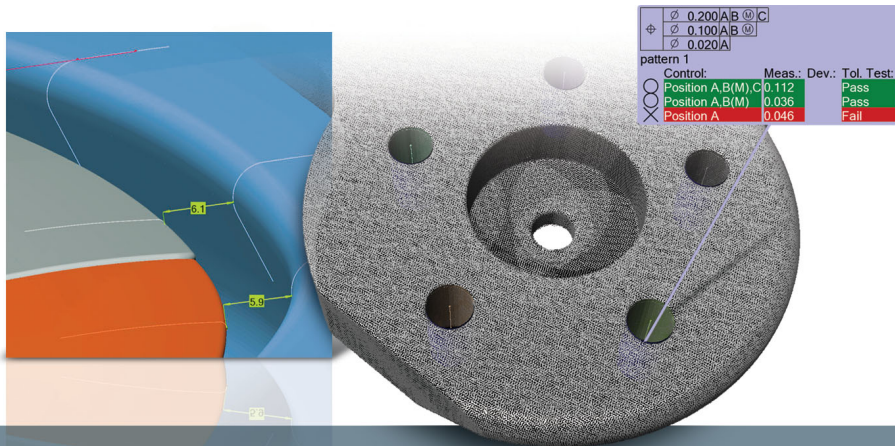
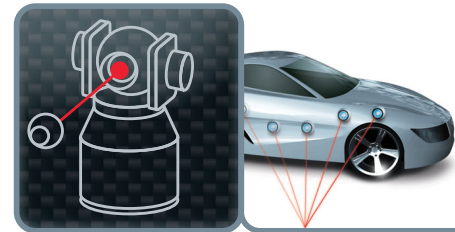
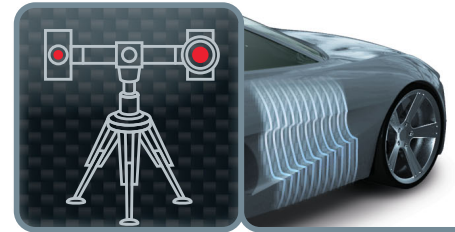
An easy-to-acquire, yet full-fledged PolyWorks/Inspector Probing™ package is also available for customers who are only performing traditional hard-probing metrology. With PolyWorks, migrating from **traditional probing** to **hybrid** or **point cloud metrology** has never been so easy or affordable.

Outstanding Usability

With its user interface entirely designed using the outstanding capabilities of the latest Microsoft interface innovations, PolyWorks represents a milestone in the metrology world. Thanks to the *Xtreme* interface platform, PolyWorks menus, toolbars, and docking windows are completely configurable.

PolyWorks comes with several user interface layouts, including a “Beginner” user interface that displays only basic menus and toolbars, which dramatically reduces the initial learning curve.

Customers can also quickly define their own visual layouts, such as very simplified interfaces for their shop floor users and for corporate deployments.



Corporate Deployment at your Fingertips

Using one solution for processing all 3D measurement data reduces training costs, increases employee mobility, increases productivity, and ensures process coherence by using the same mathematical foundation in all corporate departments.

With its best-in-class point cloud capabilities, full support of traditional hard probing, outstanding usability, and 100% customizable user interface, **PolyWorks is the premiere solution for global manufacturing users who wish to standardize their 3D metrology work across their worldwide operations.**





Succeeding Through Team Work

In addition to delivering technical excellence to its clients, InnovMetric also offers a total customer-driven solution:

- A one-year support/maintenance contract is included with each license
- Thirty application specialists on three continents train customers and support them in their deployment efforts or daily activities
- A comprehensive network of partners offers PolyWorks service work, including macro development and interface customization, to increase customer productivity
- Finally, a free viewer is included with PolyWorks to maximize corporate-wide information sharing among users, managers, and suppliers



One-stop metrology solution

- Standard software in major automotive and aeronautic OEMs worldwide
- Total high-density point cloud engineering solution
- Operation of arm-based & hand-held probing devices, laser trackers, as well as manual CMMs

Xtreme user interface customization

- Fully customizable menus, toolbars, and docking windows
- Shop-floor-ready interfaces in no time
- Optimized visual layouts for corporate deployment

Complete usability

- Beginner visual layouts with adapted menus and toolbars for quick learning
- Best-in-class part inspection workflow
- World-renowned technical support

Advanced computing techniques

- Windows x64-ready for unlimited memory usage
- Polygonal meshing distributed over computer network
- Parallel computing on dual-core and multi-CPU systems



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Contact your local PolyWorks
representative for more information



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