



September 2010

### New "Hardware review" section on our Web site

For manufacturing organizations that consider the possibility of integrating 3D digitizing capabilities into their process, it is often not an easy task to evaluate which hardware technology will best meet their 3D metrology needs. Several technologies are available off-the-shelf, each with their specific characteristics and critical advantages and disadvantages. With the collaboration of the *3D Imaging and Modeling Metrology Group of the National Research Council of Canada*, InnovMetric has prepared a new Hardware review section on its Web site to guide end-users in their selection of a 3D digitizing technology for a specific application.

In addition to providing a neutral survey of the principles and characteristics of the mostly used non-contact digitizing technologies, the new section highlights the difference between the digitizing technology itself and the 3D monitoring method used to move the 3D digitizer around a part to fully capture its geometry (also called External Frame of Reference or EFR). Both digitizing technology and EFR method should be considered when benchmarking digitizing hardware, especially if the digitizing hardware is planned for large object measurement.



Useful graphs are also provided to illustrate the performance of 3D digitizing technologies and EFR methods in terms of accuracy, volume, flexibility, dynamic range, resolution, and portability.

The Hardware review section is offered as a slide show on our Web site. Visitors may also download a PDF presentation after having entered their contact information. We hope that the presentation will be useful for the metrology community. We are looking forward to getting your feedback.

### PolyWorks GD&T engine earns top position at CMSC GD&T benchmark

The Coordinate Metrology Systems Conference (CMSC) is an annual American conference that focuses on technical metrology-related education via practical and academic presentations, workshops, and seminars. At this year's conference in July, Multi Metric's Bill Tandler prepared a GD&T metrology software tests workshop to test the reliability of the GD&T processing algorithms offered by commercial off-the-shelf software. Tens of challenging GD&T tests based on the ASME Y14.5M 1994 standard were prepared, with a special emphasis on testing:

- The proper simulation of physical Datum Feature Simulators;
- The ability to deal properly with fully constrained, partially constrained, or fully unconstrained Datum Reference Frames;
- The ability to use the properly bounded axes of bores and shafts.

Five metrology software companies participated in the benchmark. InnovMetric is pleased to announce that PolyWorks was rated #1 among the group of five tested products. This benchmark result demonstrates our ongoing commitment to deliver top-of-the-class metrology algorithms to our customers.

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○	Position	0.096			Pass	
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### We are now on Twitter!

Follow us on Twitter to get the latest information on PolyWorks releases (patches), new features, upcoming tradeshows and seminars, press releases, new Web site sections, tips & tricks, and more. Our Twitter feed will be updated regularly with fresh information, so make sure to join us.

If you do not already have a Twitter account, here are the instructions on how to create one:

- Log on [www.twitter.com/signup](http://www.twitter.com/signup)
- Once your profile is created, click "Find People":
- Search for "PolyWorks"
- Click on "Follow PolyWorks".



### Upcoming Events

September 22-25, 2010  
[Expomac 2010](#)  
Curitiba, Brazil

September 28-30, 2010  
[Control-Tech 2010](#)  
Kielce, Poland

October 5-9, 2010  
[BIMU Italy](#)  
Milano, Italy

October 6-8, 2010  
[DMS Osaka](#)  
Osaka, Japan

October 12-17, 2010  
[TATEF 2010](#)  
Istanbul, Turkey

September 28-30, 2010  
[SolidWorks 2011 rollout in collaboration with SolidXperts](#)  
Saguenay, Quebec, Montreal, Sherbrooke, QC, Canada

For more information on these events, click [here](#).

### New PolyWorks Distributor

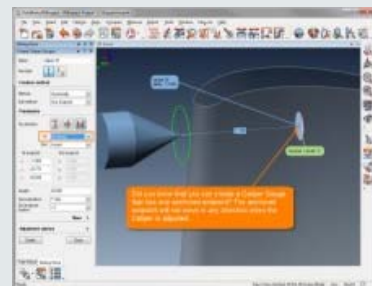
OOO 3D Soft RUS  
Territory: Russia  
Contact: [Boris Lomakov](mailto:Boris.Lomakov)

### Subscribe to the Tips & Tricks Newsletters

The InnovMetric Technical Support Team distributes a weekly "Tips and Tricks" newsletter that provides a short description of specific tools and features of PolyWorks.

To subscribe to the Tips & Tricks and IMFlash newsletters, visit the [Newsletters section](#) of our Web site.

You can also download the previous "Tips and Tricks" newsletters from the Tutorial section of our [Technical Support Zone](#).



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HEAD OFFICE  
InnovMetric Software Inc.  
2014, Cyrille-Duquet, Suite 310  
Québec QC Canada G1N 4N6

Tel. [418] 688-2061  
Fax [418] 688-3001  
info@innovmetric.com  
[www.innovmetric.com](http://www.innovmetric.com)

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