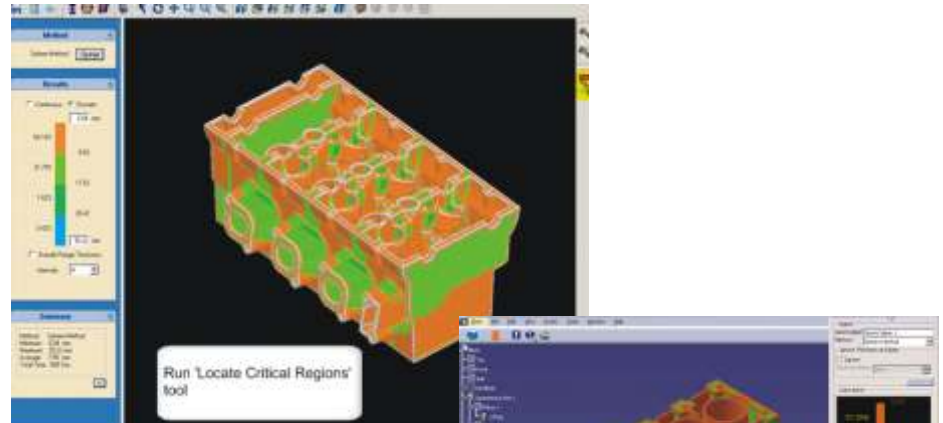


Integrated, automated and easy-to-use thickness checker for 3D CAD models

Measurement of wall thickness is an area that needs close attention, as it forms the basis to identify regions critical from strength, manufacturing, or material flow standpoint. It is often difficult for a design engineer to maintain the desired wall thickness, especially during the changes incurred in the design process.



Measuring the thin and thick wall conditions in a 3D CAD model can be a tedious and time-consuming manual process. However it is crucial to ensure design performance through reduction in material cost and improvement in overall efficiency.

GeomCaliper, an innovative and automated tool facilitates measurement and checking of wall thickness of 3D CAD models precisely, efficiently and effectively. It accelerates the design review process for manufacturability, enabling designs to move to prototyping and production faster. Unlike the traditional measurement tools, GeomCaliper is fast and easy to use and provides savings in downstream costs by improving the part quality at the design stage itself. The tool implements two main methods of thickness measurement viz. Normal Ray and Rolling Sphere. It gives users the flexibility to select the analysis method based on the geometry of the part for improved results.

Benefits

- Quick and easy way of checking design for manufacturing
- Savings in downstream costs by improving part quality at the design stage
- Locates critical regions in 3D CAD models
- Improved design productivity
- Easy to use

Features

- Computes thickness on complete model or at selected regions
- Computes thickness at selected section planes
- Ease in locating critical thickness areas
- Advanced visualization for easy interpretation of results
- Ability to clip model at any section
- Dynamic thickness display at point click
- Integrated with major CAD systems
- Powerful filter mechanism to concentrate on region of interest
- Customizable reports in XML / HTML format

"GeomCaliper has proven to be an effective and valuable tool in the campaign to keep quality up and costs down. We have integrated GeomCaliper into our design process and it has resulted in a 75% reduction in the time taken to check wall thickness of complex models. At the same time, it is allowing us to discover those hidden critical areas that otherwise may have gone undetected."

Scott Lanski
Design Manager, Chrysler Corporation

Contact us

Plant 6 Pirojshanagar Vikhroli (West)
Mumbai 400079 India
T: +91.22.67056880 F: +91.22.67056891

About Geometric

Geometric is a specialist in the domain of engineering solutions, services and technologies. Its Desktop Products and Technologies (DPT) business unit develops cutting-edge point productivity solutions that enhance design and improve manufacturing operations. The unit includes Phoenix AZ based business subsidiary, Geometric Technologies, Inc., formerly TekSoft, Inc., which has over 25 years in progressive product innovation. It develops and markets CAMWorks®, a SolidWorks® certified Gold CAM product, besides marketing and distributing Geometric's products and technologies.

The end-user products from Geometric include CAMWorks®, eDrawings Publisher, DFMPPro and GeomCaliper® and the key technologies are NestLib®, Feature Recognition (FR), GeomDiff and 3DSearchIT®. Geometric licenses these technologies to OEM partners and also designs and implements customized process solutions using these technologies for industrial customers. For further details, please visit <http://geomcaliper.geometricglobal.com>

The copyright/ trademarks of all products referenced herein, are held by their respective companies.

