



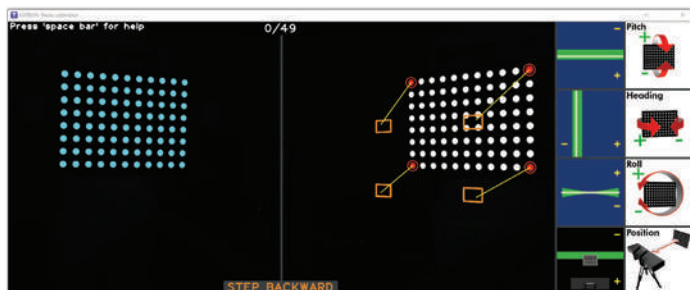
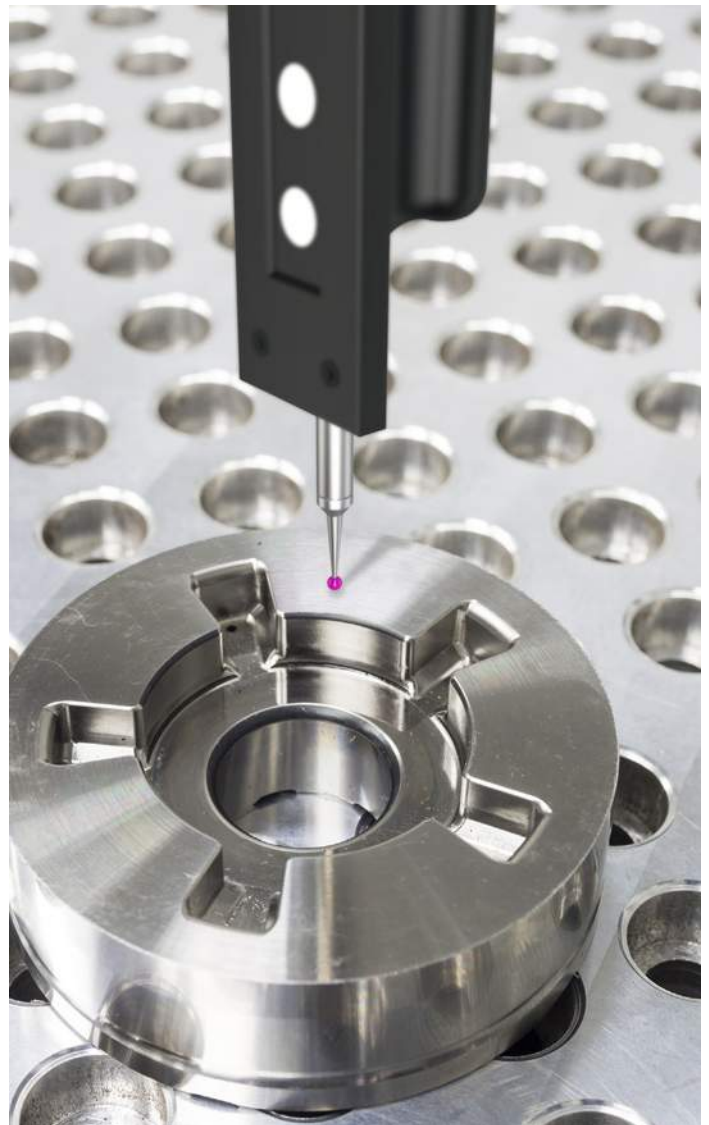
# KARBON

Optical CMM

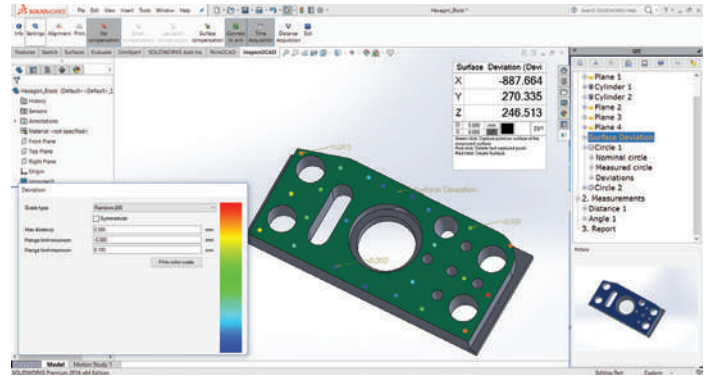
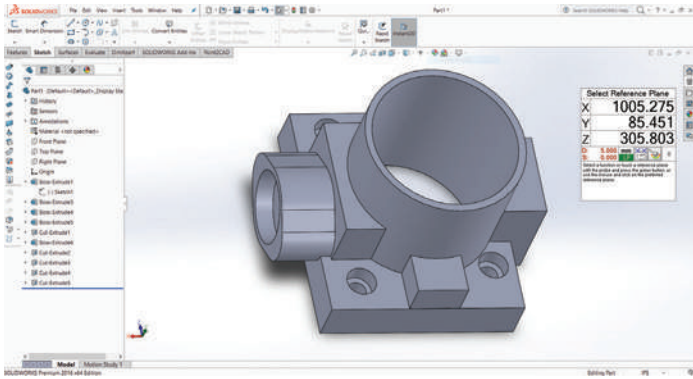
## Portable Measuring System

**KARBON** is an optical CMM for engineers and inspectors in various manufacturing industries. It offers user-friendly, repeatable and accurate measurements using a contact probe. The hardware comes in a lightweight and portable package. It is very easy to take **KARBON** to the work piece whenever necessary. The operator simply sets up the dual camera head on a tripod and starts measuring with an easy to handle stylus.

Compared to other existing CMM technologies, **KARBON** gives you total freedom of movement, increasing your productivity and quality of work. It is light and easy to move around large parts. It can also be moved from one location to another without much setup time. A simple, guided calibration allows users to setup in minutes. The routine uses special augmented reality techniques to improve accuracy and speed.



The measurements are collected in real-time directly into SolidWorks, Rhino3D and PolyWorks.

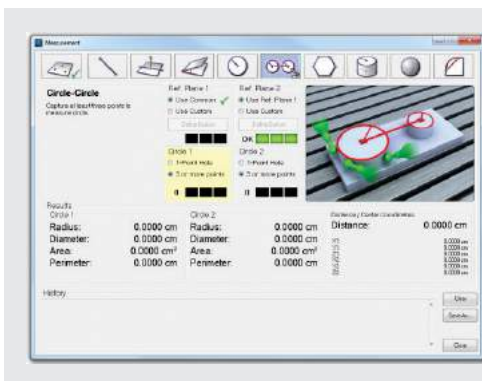


Karbon is bundled with software solutions for reverse engineering and inspection that is fully integrated into the SolidWorks workflow. Point2CAD is the leading reverse engineering add-in with built-in automated features to create parametric 3D solids interactively. Inspect2CAD offers SolidWorks users the ability to check their parts and assemblies real-time using the Karbon

- **Sketch Entities** – Sketch lines, circles, ellipses, splines, slots, planes and other elements with your measuring arm.
- **AutoSketch** – Quickly sketch profile perimeters.
- **Probe Compensation** – Automatically apply offset values to compensate probe tips.
- **Command Plate** – Work faster without a mouse or keyboard.
- **Leapfrog** – Reposition the measuring arm around larger parts.

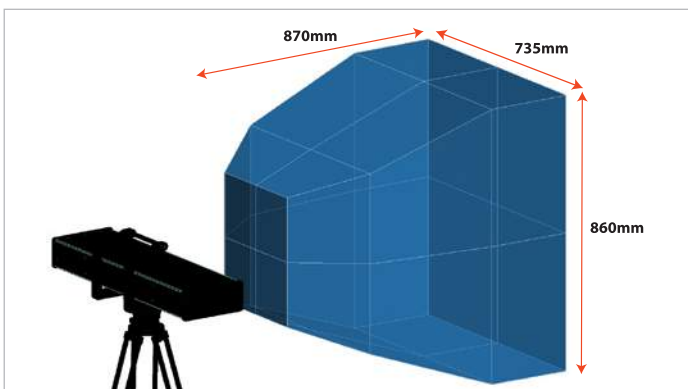
- **Datum Alignment** – Use features in your model to define a coordinate system on the part.
- **Inspection Plan** – Create a list of features to inspect.
- **Deviation Map** – Locate high deviation areas using rainbow style color maps.
- **Playback** - Execute inspection plans on multiple parts.
- **Reporting** – Create professional PDF reports and export CSV files to be used in SolidWorks Inspector.

Advanced alignments and GD&T support available through PolyWorks software.



## Measure2CAD

Every Karbon system comes with a free, easy-to-use software that allows users of any skill level to take simple measurements on their parts. Karbon probe behaves like a 3D caliper providing hole-to-hole distances, plane angles, chamfer dimensions and much more! Measure2CAD is available as a stand-alone software and also in Point2CAD.



## Specifications

- Measurement Volume: 735 mm x 870 mm x 860 mm
- Single Point Accuracy: Up to 30  $\mu$ m
- Volumetric Accuracy: Up to 50  $\mu$ m
- Dimensions: 860 mm x 250 mm x 200 mm
- Operating Temperature: 10°C to 36°C

\*Specifications subject to change without notice.

GoMeasure3D is an authorized distributor of KARBON systems.