

VXinspect™

DIMENSIONAL INSPECTION SOFTWARE MODULE

VXinspect™ is an intuitive and powerful 3D inspection software designed for manufacturing companies conducting first article inspection (FAI) or quality control. Directly integrated into VXelements™, Creaform's 3D software platform and application suite, VXinspect provides the simplest integration of probing and scanning measurement capabilities.

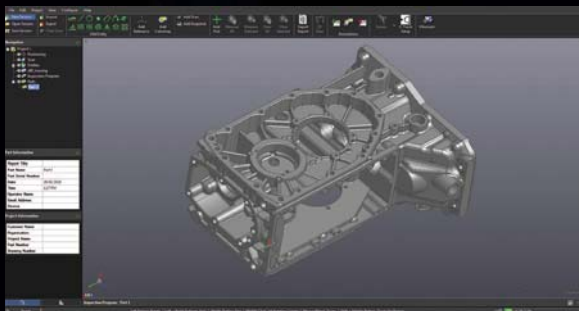
The combination of Creaform technologies with VXinspect offers the ideal solution for quality control in shop floor conditions. The software features all the functionalities required by pre-production control or when setting up a high-efficiency measurement sequence to inspect multiples parts. With its intuitive interface, it is the best solution for all inspection workflow with no compromise on measurement quality and GD&T requirements.



FEATURES AND BENEFITS

To meet customer needs for simplicity and a plug-and-play solution, VXinspect fully integrates with all of Creaform's technologies and centralizes information for optimal use.

CAD IMPORT



VXinspect supports CAD import of IGES, STEP files, allowing direct measurements comparisons with CAD models to better understand the parts' manufacturing defects.

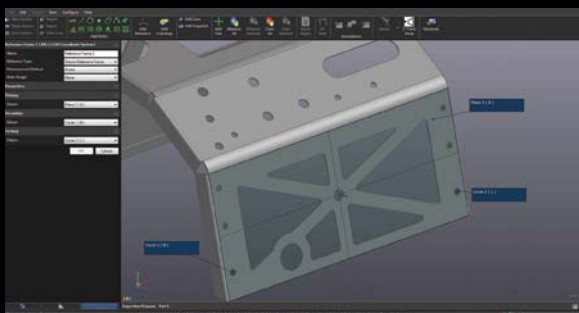
MULTIPLE-MEASUREMENT MODE



VXinspect is the first software to seamlessly integrate both single-point touch probe and non-contact measurements into a unique and intuitive software interface.

Available tools: Probing | Scanning | Import mesh supported

ALIGNMENT



Before starting the dimensional inspection process, the position and orientation of the object in space is of utmost importance. It ensures more accurate results from data acquisition up to the final inspection report.

Available tools: Entity selection | Best fit | Datum targets

GEOMETRIC DIMENSIONING AND TOLERANCING (GD&T)



VXinspect's sophisticated algorithms and calculation methods offer an accessible way to apply GD&T principles and practices to the inspection project, even for users without extensive experience with GD&T notions.

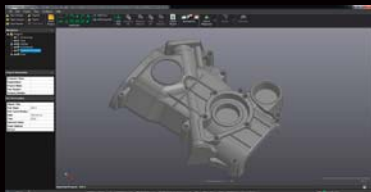
Available tools: Form and orientation tolerance | Profile and localization tolerance | Datum reference frame (DRF) construction using geometric counterpart | And more...

SIMPLIFIED AND POWERFUL SCANNING AND PROBING WORKFLOW WITH VXINSPECT

PRE-PRODUCTION

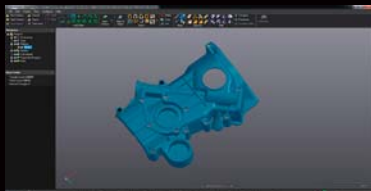
Each production start-up comes with different process issues. In many cases, some prior adjustments have to be made to be fully in control of the manufacturing process. When problem solving, 3D measurement tool users need a quick way to compare a measured geometry with the designed one. VXinspect offers the simplest workflow for quick part-to-CAD inspections.

Import CAD



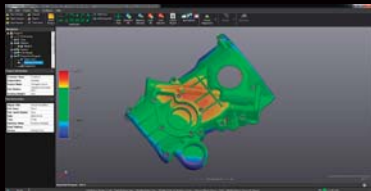
- STEP/IGES files supported

Measurements



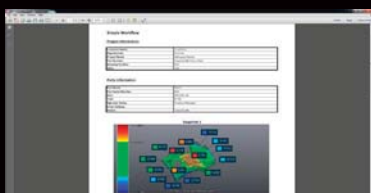
- Scanning and probing measurements methods available

Color Map



- Simplest Part-to-CAD workflow comparison

Report

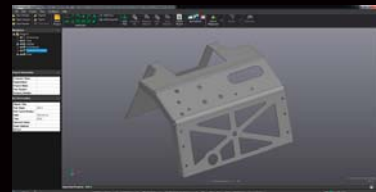


- Wear-and-tear analysis

IN-PRODUCTION

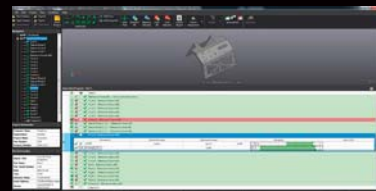
Once the manufacturing process is under control, first article inspection (FAI) or the production part approval process (PPAP) needs to be performed. VXinspect is ideal to simply build the inspection program. It can also be used to control the critical dimensions at various stages of the manufacturing process. Users can repeat the same measurement sequence several times to follow the evolution of specific parts and prevent future problems.

Import CAD



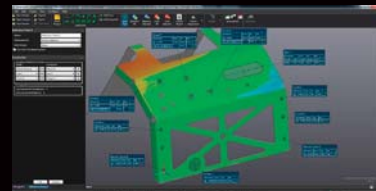
- STEP/IGES files supported

Inspection Sequence



- Easy and intuitive inspection sequence management

Measurement and Alignment



- Strong GD&T module built-in for highly accurate measurements

Report



- First article inspection (FAI)
- Production part approval process (PPAP)
- Excel report

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