The most flexible, comprehensive, and easy-to-use software solution for part inspection

Inspection

Software Module part of the Creaform Metrology Suite™
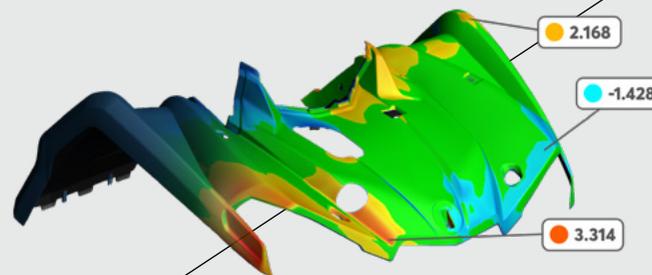
INDUSTRY PROVEN TRUSTED SOLUTIONS

The need for precise adjustment of multiple extraction parameters makes inspection processes particularly challenging. With so many variables to manage, accuracy and confidence in inspection results often depend on the operator's expertise.

To address these challenges, Creaform developed the Inspection software module.

Inspection is a comprehensive and powerful software module that offers the most complete toolset to support every inspection workflow. It enables quality control and quality assurance professionals to perform inspections and generate reports based on meticulous engineering requirements—with the confidence that their results are accurate and reliable.
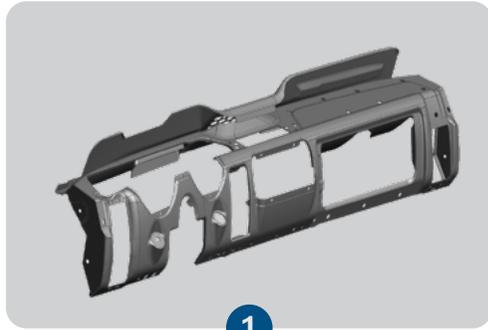
The Inspection software module leverages the system's real-time guidance, visual indicators, and feedback to streamline acquisition and reduce dependence on highly specialized expertise.

By delivering trustworthy inspection results based on reliable quality data, the Inspection software module empowers QC and QA specialists to make more informed decisions that enhance product quality and optimize manufacturing processes.

2.168

-1.428

3.314

Circle 1

Dimension	Nom.	Val.	Dev.	State
Ø ±1.000	12.701	12.181	-0.519	✓
◯ 1.000		1.274		✗

-0.023

-1.061

0.873

LEARN MORE

INNOVATION TAKES FORM

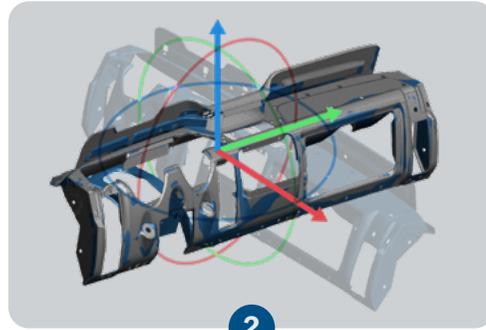# From Scan to Report – Complete Control Over Your Inspection Workflow

The Inspection software module is a versatile assistant that supports you throughout the entire inspection process. Designed for simplicity and efficiency, it helps you validate the conformity of manufactured parts and deliver higher-quality products to your customers—faster.

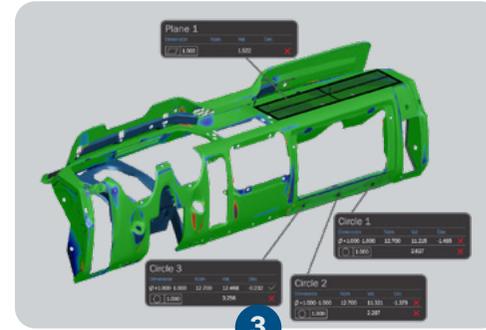
1

Measure and Import

After capturing 3D data via scanning, probing, or photogrammetry, import CAD or mesh files (.IGES, .STEP) to directly compare measurements against reference 3D models.

2

Align

Align 3D data with CAD models using best-fit, datum-based, or feature-based methods (e.g., PLP or points) to ensure accurate positioning for reliable deviation analysis and GD&T validation.

3

Analyze

Compare 3D scans to CAD models, extract dimensions, and perform GD&T evaluations to detect deviations, validate tolerances, and ensure compliance with design requirements.
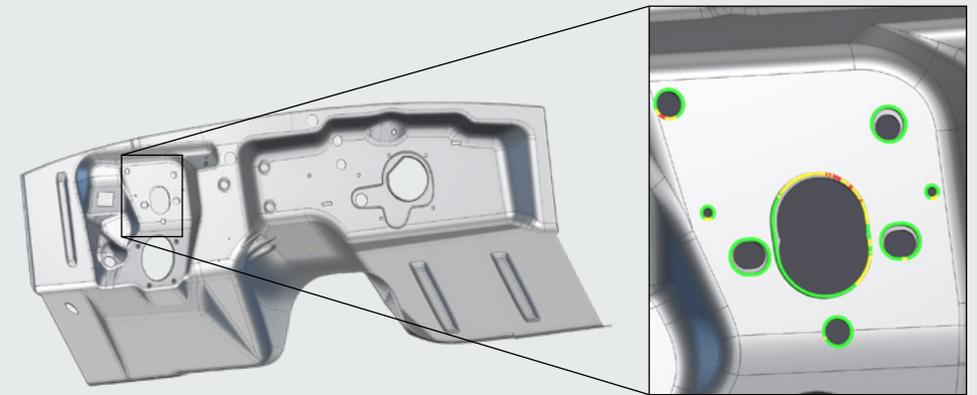
4

Report and Automate

Generate fully customizable inspection reports (PDF, Excel, or CSV), and automate workflows for repeat inspections using automated measurement extraction.

Sheet Metal Add-on

Available through the Inspection software module, the new Sheet Metal Add-on generates the most repeatable and accurate 3D measurements for sheet metal. By guiding users with visual feedback, it ensures consistent results—independent of both the operator and the environment—giving QC and QA professionals a high confidence level in their 3D scan data.

With the Sheet Metal Add-on, the inspection workflow is streamlined: define the holes and trim points to inspect, scan the sheet metal part, and rely on real-time visual feedback to ensure complete data capture—delivering consistent, reliable results every time.

Accuracy
±0.100 mm for high-tolerance requirements

Speed
up to 5X faster than CMM

Simplicity
User guidance with visual indicators

To contact us

HI-TECH METROLOGY

CREAFORM / AMETEK®