

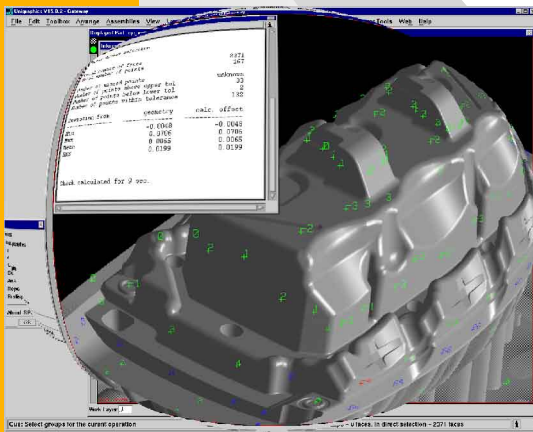
SPV

The Ultimate Inspection and Engineering Tool for Unigraphics® and Catia®

Save time and money. Improve quality and reproducibility.

Highlights

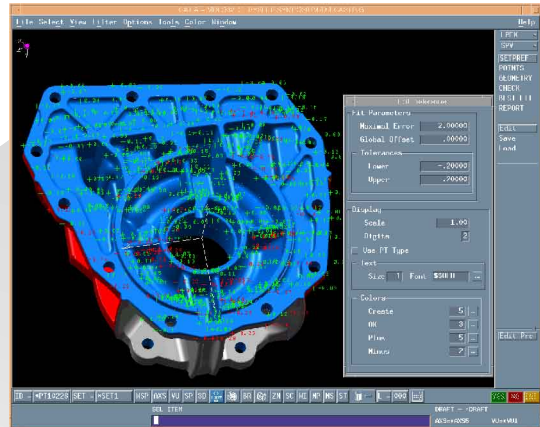
- Inspect completely new job in minutes
- Check parts of any complexity
- Align the part at the CAD system
- Absolutely no programming needed
- Fully integrated in **Unigraphics®** and **Catia®**
- No model translations (no more IGES)
- Always use the latest CAD model
- Direct support for edges, solids, and assemblies
- Automatic probe compensation
- Powerful best-fit, analysis and reporting
- Use the output to create CMM programs



V6 Engine Insert in Unigraphics®

Range

- Manual and DCC CMM's
- Laser Trackers and Scanners
- Optical Measuring Devices
- Articulating Arms
- Theodolites



The casting below checked in Catia®

Applications

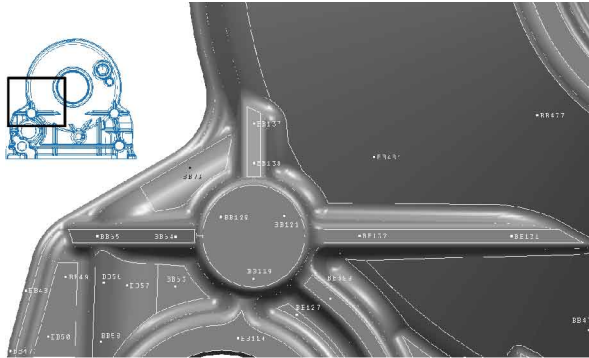
- Automotive Industry
- Aerospace and Shipbuilding
- Consumer Products
- Die Casting and Molding
- Tooling and Fixtures
- EDM Electrodes
- Finished Parts
- Sheet Metal



From the moment you see this part for a first time to the one above in 30 min.

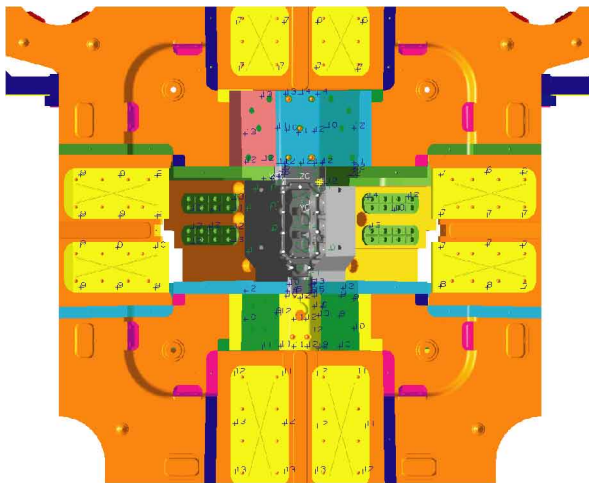
Inspect your part in minutes

Sitius™ Part Verification (SPV) compares an actual detail to its corresponding CAD model in seconds. It reads a set of 3D points from virtually any measuring equipment and analyzes them against a CAD representation of the measured part. The only information needed is the center of the probe stylus and its radius for each point. The software automatically compensates for the probe radius, using the solid information directly. Extensive display and reporting preferences allow for different output, some of which include color coded labels, whiskers and printed reports with generic labels.

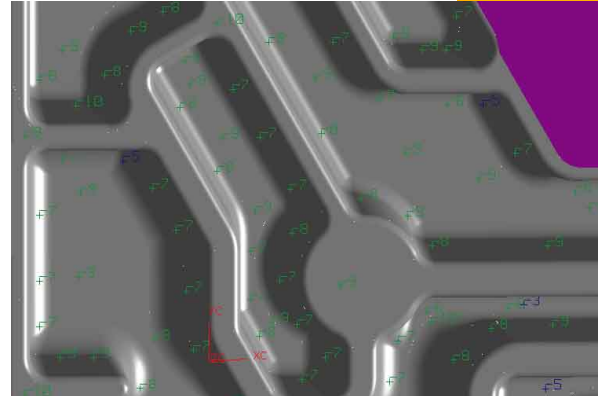


Transmission case with generic labels

Why is being integrated into the CAD system so important? It eliminates translations, improves accuracy and reliability, avoids data duplication and in practice reduces inspection time 3-10 times. Direct access to the CAD database provides information about solids and GD&T. Engineering changes are automatically implemented unlike external packages where complete part translation is normally required.

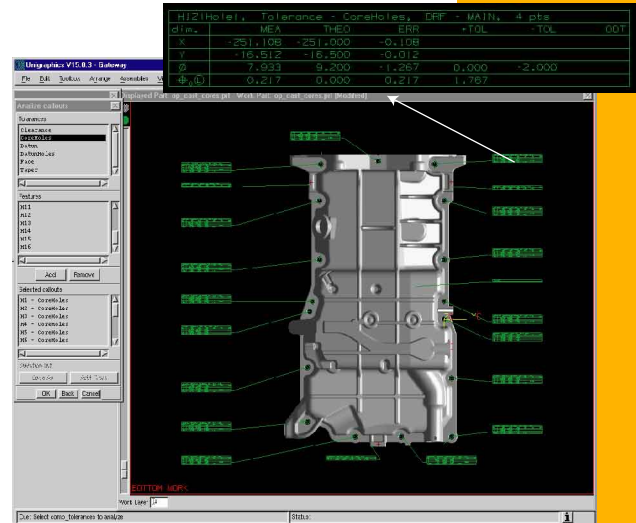


Performance - 600+ points, against 12,000 faces checked in under 10 sec



EDM electrode. SPV recommends optimal position and spark gap

Best-fit gives you the tool to solve problems you never thought possible. It can dramatically improve the quality of an EDM process, prescribe datum locator corrections, help with the assembly of large parts, provide root-cause analysis. We provide six degrees of freedom plus multiple uniform offsets with support for groups, weights and surface profile tolerances.



GD&T results are displayed directly inside the CAD model

New GD&T Capabilities. SPV now provides extensive functionality for inspecting position, form and profile including material condition modifiers for features of size and support for multiple datum reference frames. The results are directly displayed in the CAD model as labels and color-coded graphical elements representing the actual features or optionally output to file as a text report.



Sitius Automation Inc.

141 McPherson St., Markham, Ontario L3R 3L3
 Phone: (905) 305-6611, Fax: (905) 305-8511
www.sitius.com