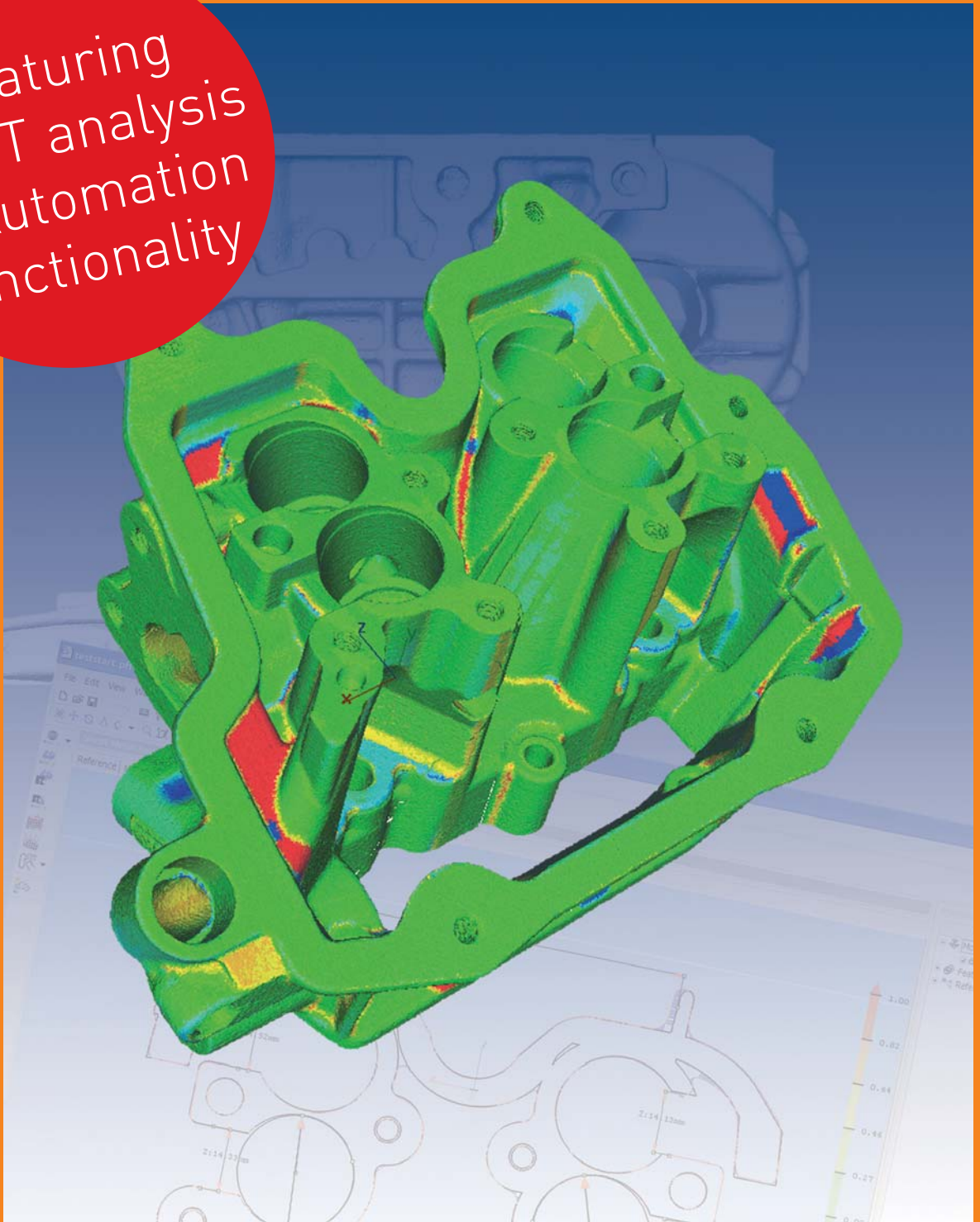




# Focus Inspection

Featuring  
GD&T analysis  
& Automation  
functionality



**The point cloud inspection software**

# Features & Benefits

**FOCUS® INSPECTION PROVIDES FEATURE AND FULL PART-TO-CAD 3D INSPECTION STARTING FROM POINT CLOUD DATA OR MESHES FROM CMM BASED SCANNERS, HANDHELD SCANNERS OR COMPUTER TOMOGRAPHY (CT). FOCUS INSPECTION VISUALIZES INSPECTION RESULTS IN EASY-TO-INTERPRET REPORTS.**

## BENEFITS

- Complete and powerful inspection solution
- Designed for industrial usage and ease-of-use, focusing as well on operators as engineers
- Consistent, operator-independent results with top accurate feature detection algorithms
- Integration of scanning and inspection enables scanning-based inspection available on any CMM
- Productivity boost and consistency with minimum effort thanks to scanning and inspection automation without need for programming skills
- Platform enables building of application specific modules such as Turbine blade analysis

## FEATURES

- Import most important CAD-formats
  - CATIA V4/V5, Pro-E, IGS, STP, VDA, SAT®, Unigraphics®
  - Convert solids to mesh
  - Import GD&T annotation for CAD
- Alignment tools
  - (feature based) RPS
  - 3D and 2D (section) best fit
  - 3-2-1 alignment
- Superior point clouding handling
  - Triangulation/Meshing /Quick shading
  - Automatic and semi-automatic feature detection
    - 2D features: surface point, hole, slot, plane, etc.
    - 3D basic features: cylinder, sphere, etc.
    - 3D advanced features: T-Stud, diamond pin, christmas tree, etc
    - Sectional features: Combi hem, gap & step, etc.
- Full inspection toolbox
  - Full part to CAD inspection
  - Feature/section comparison
  - Wall thickness / Edge comparison
  - Easy 2D dimensioning including gap & step
  - Geometric Dimensioning and Tolerancing (GD&T)
- Automation
  - Record/edit/play of macro's
  - All inspection functions fully automatable
- Flexible reporting
  - Customizable, MS-Excel based reporting
  - Statistical Process Control (SPC): Q-Stat, QC-Calc, DMIS, txt
- Turbine blade inspection module<sup>1</sup>
  - Section, leading & trailing edge measurements
  - Bow, displacement, twist results

## APPLICATIONS

- Sheet metal (e.g. body panel, doors,)
- Castings (e.g. engine blocks, cylinder heads)
- Forgings (e.g. turbine blades)
- Plastics (e.g. dashboards, phones, medical artifacts)
- Ceramics (e.g. turbine cores)
- etc.

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<sup>1</sup> Optional module

