

# PowerINSPECT

**PowerINSPECT 2.2™ software is a Windows®-based solution for inspection and reverse engineering of parts.**

*Your simply powerful inspection and reverse engineering software*

**PowerINSPECT is a fully integrated package** for inspection and reverse engineering with an easy-to-use Windows®-based interface delivering rapid inspection of parts and tools.

**It works by comparing** your part or tool against a 3D CAD model and highlighting the discrepancies using color-coded graphical displays for immediate validation for each point. The CAD file size is only limited by data storage. Also can be used without a CAD file to inspect parts or tools or conduct reverse-engineering.

**Powerful inspection tools** include features such as “guided measurement” to inspect predefined sites, support of NURBS and trimmed surfaces geometry and easy setup using plane/line/point (PLP) where datums are accessible or free form fit leading to optimized best fit when there are no datum.

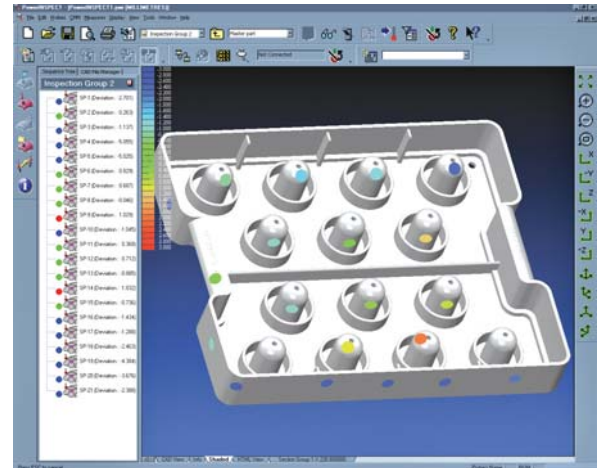
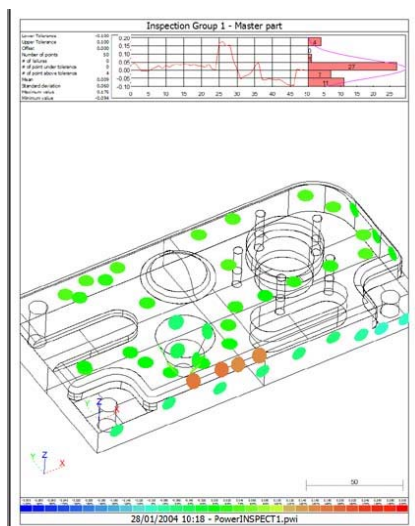
**Reverse engineering** allows creation of section cuts to generate 3D curves. Geometric shapes can be created and exported in IGES format.

**Powerful reporting** capabilities with automatic generation of fully-customizable Microsoft Excel® reports.

**Geometry explorer** allows the user to extract nominal data off a CAD file and turn it into a measurement item, saving time and the tedium of typing in nominals and the features desired.

**GD&T wizard** includes true position, perpendicularity, angularity, parallelism and concentricity.

The user interface easily guides the operator through the inspection process.



**Torus entity measurement** allows operators to measure items such as steering wheels, seals, orings or tube bend radii.

**Shaded geometric features** enables viewing of geometric entities and edge inspection results in a shaded view.

**Confetti on shaded view** makes for easier visualization of complex parts.

**Interactive selection of confetti in CAD view** allows identification of points in the sequence tree or deletion of inspection results.

**Available translators:** VDA, IGES, CATIA, CADDs, SET, UNISURF, VDAFS, PARASOLIDS, PRO ENGINEER, STEP, UNIGRAPHICS, SOLIDWORKS and direct STL. The translators are easily accessible through a drop-down menu.

**CAD manager** allows importing of as many CAD files as desired. In addition, users can change part colors, place parts of CAD files on different viewing layers and mirror image parts for ease of display.

**CAD and CMM toolbars** place CAD Manager functions and arm controls at the operator's fingertips for enhanced ease of use.

**Support for triangle files** such as STL, DMT and DXF, allows surface inspection of rapid prototype models and part-machined items.

**Auto recovery feature** prevents data loss due to unexpected shutdown.