EVOLVE Design

EVOLVE Suite  Model-Based Family of Software
EVOLVE Design

Part of the EVOLVE Software Suite

GD&T Proofing in four easy steps

1. **Import CAD and PMI**
   EVOLVE Design can import various CAD file formats such as STEP, IGES, DXF, or QIF. CAD models with PMI information such as GD&T (datums and tolerances) can be imported from QIF (Quality Information Framework) and STEP 242 files.

2. **Define Tolerances**
   EVOLVE Design allows you to define GD&T (GPS) tolerances according to the chosen standard (ASME Y14.5M – 1994, ASME Y14.5 – 2009, or ISO 1101). EVOLVE Design’s Explanatory system reacts to the state changes in the application and always shows relevant information about the current context.

3. **Proof GD&T (GPS)**
   A powerful GD&T (GPS) engine checks the whole model and provides visual notification of tolerance errors and warnings. The issues found are clearly explained and supported by links to the sections of the relevant standards. Additional tools: Tolerance Stackup and Point Generator help with better understanding of the impact of chosen tolerances.

4. **Save Results**
   After proofing issues are corrected, the changes to GD&T (GPS) can be saved as a report or a project for future reference and can be imported into other EVOLVE products.

**EVOLVE Suite**

EVOLVE is a model-based family of software that seamlessly connects Design, Production and Inspection teams across a manufacturing enterprise. EVOLVE optimizes the design process, provides fully automatic GD&T evaluation for part acceptance, unparalleled manufacturing setup, specific feedback and correction simulations enabling manufacturers to shorten product design/development time, normalise inspection and measurement techniques, improve process control, and manage product tolerances throughout the manufacturing process.

**EVOLVE Design**

EVOLVE Design is a Computer-Aided Engineering (CAE) tolerancing software which helps engineers apply correct GD&T (GPS) tolerances to their CAD models. EVOLVE Design proofs your GD&T (GPS) tolerances on the model. Highlights potential tolerancing problems and provides recommendations through its explanatory systems that show relevant guidance based on the GD&T standard chosen. EVOLVE Design has Tolerance Stackup and Point Generator tools to provide better understanding of the impact of chosen tolerances.

**EVOLVE Manufacturing**

EVOLVE Manufacturing helps identify systematic problems with manufactured parts and recommends solutions to minimize manufacturing errors.

**EVOLVE SmartProfile**

EVOLVE SmartProfile merges point data from any measurement system with a part’s nominal CAD model and automatically performs a comprehensive GD&T evaluation.

**EVOLVE SPC**

EVOLVE SPC is a full statistical process control software that can be used as either a standalone product with existing measuring systems or integrated into the EVOLVE Suite.
KOTEM is the worldwide leader in dimensional analysis software. Our family of advanced GD&T and fitting software helps manufacturers integrate quality inspection data with their manufacturing and design work flows. KOTEM is a Quality Vision International company.

QVI® (Quality Vision International) is the world’s largest vision metrology company. Founded in 1945, QVI is the world leader in optical, electronic and software technologies for vision and multisensor measuring systems.

To learn more about the EVOLVE family go to [www.kotem.com/evolve-suite](http://www.kotem.com/evolve-suite)

EVOLVE is fully compliant with all internationally accepted GD&T Standards:

- ISO 1101
- ASME Y14.5M-1994
- ASME Y14.5-2009

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