

## GrafiCalc FAQ

### **Question: What is GrafiCalc exactly?**

GrafiCalc is field-proven design decision-support software that enables users to simulate, analyze, optimize, and validate all critical product performance and producibility parameters *before* committing to final design and manufacturing resources. GrafiCalc is successful in the early stages of design when users have maximum questions and minimum information while conflicts are easiest to detect and least expensive to fix. As a self-contained Windows standard software, GrafiCalc can be used completely standalone as well as in conjunction with Microsoft Office and all popular CAD applications.

### **Question: What are the benefits of GrafiCalc?**

GrafiCalc enables users to design better products that can be manufactured cost-effectively to perform as expected the very first time. With GrafiCalc users can accelerate time-to-market, cut development and testing costs, improve product quality, and collaborate with supply chain with unprecedented ease, speed, and accuracy.

### **Question: How does GrafiCalc work?**

GrafiCalc combines the disciplines of parametric sketching, automated graphical calculations, geometry optimization, motion simulation and analysis, transient data acquisition, and statistical tolerance analysis in a single application. With GrafiCalc users can capture the functional intents of a design challenge in a single flexible model that represents the functional intents of the product. Then users can substitute geometry or numerical variables in the intent model to ask and receive instantaneous design decision-support information and optimal solutions. An industry-first geometric Goal seek facility is included that enables users to backsolve geometry to satisfy stipulated shape, position, and fit related design goals - using just four mouse clicks.

### **Question: What are GrafiCalc proven applications?**

GRAFICALC technology is being used by thousands of engineers worldwide - following is partial list of proven application areas:

- Alternate internal combustion engine design
- Automotive components design
- Belt and Conveyor systems design
- Boat and Ship Structure Design
- Calculation library development
- Car seat mechanism design
- Composites
- Earth moving machinery design
- Fluid container design
- Force vector diagrams
- Forging process calculations and validation
- Forward and inverse kinematics
- Four wheel steering mechanism design
- Hydraulics driven machinery design
- Layout analysis
- Linkage and mechanism designs
- Logic driven machinery design
- Masonry Bridge Evaluation
- Mechanism space claim analysis
- Mechatronic design
- Motion control design
- Opto-mechanical tolerance analysis
- Packaging machinery design
- Paper machinery Design
- Pre-manufacturing tolerance validation
- Pre-modeling tolerance analysis and allocation

- Pressure vessel Design
- Pump Design
- Servo driven machinery design
- Strength of materials
- Structural Engineering

**Question: What do I need to run GrafiCalc?**

System requirement: Any personal computer running Vista, Windows 95, 98, NT, XP. The compact program size of less than 1 MB insures ultra-fast responses, even from a minimal system.

Disk requirement: < 2 MB!

**Question: How long does it take to learn GrafiCalc?**

Engineers familiar with CAD and conventional spreadsheets can understand GRAFICALC principle of operations in less than an hour. Video training is available for online viewing as well as download.

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