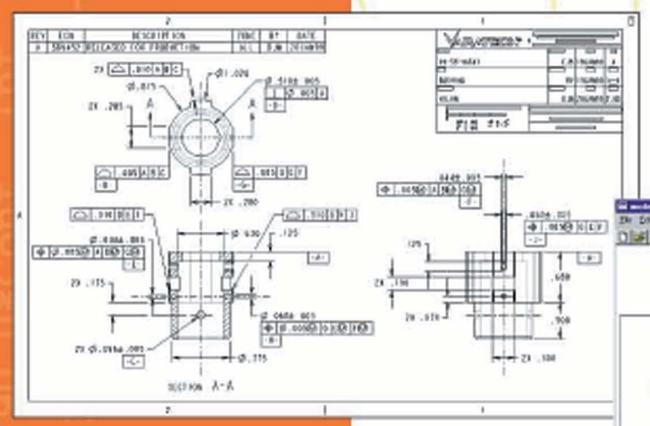
Sigmund's quantitative analysis maximizes performance and optimizes design.

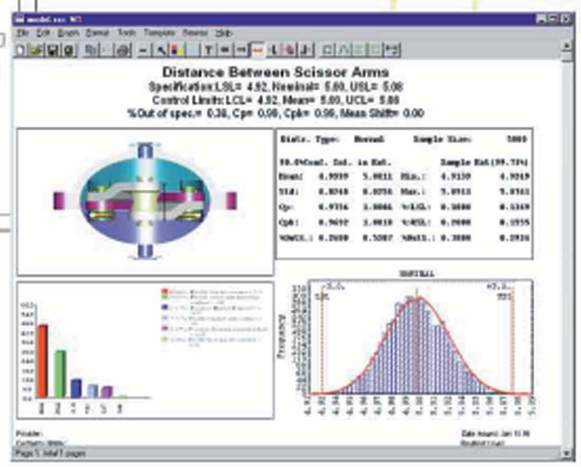
Engineers can build a large number of virtual assemblies for evaluation with respect to pre-defined build objectives.

Sigmund,™ Varatech's new assembly build analysis software, enables companies to evaluate, optimize and validate the capability of their proposed designs and processes up front, on paper or electronically, instead of the traditional and costly trial and error process of tweaking or recutting hard steel at "ramp up." Sigmund enables you to make decisions based on facts rather than guesses.

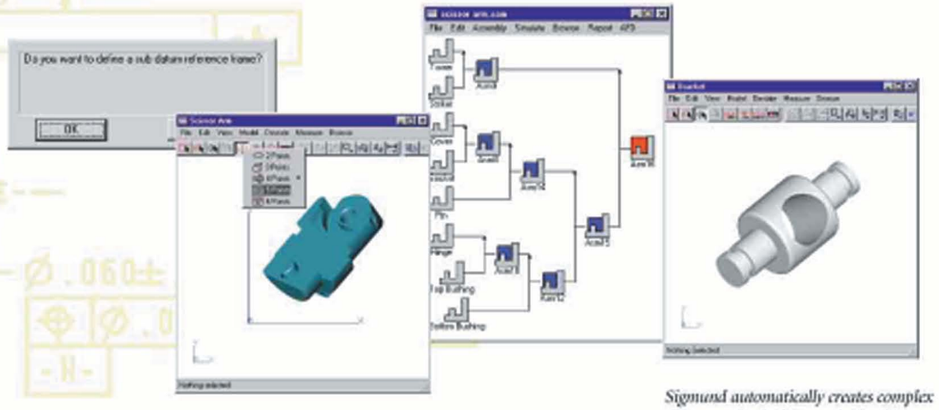
Sigmund is available as a stand-alone Windows-based product, or as an integrated software solution with major CAD systems such as **SolidWorks**, **Solid Edge** and **Pro/Engineer**. Either way, Sigmund provides the means to ensure that assemblies go together 100% of the time, while meeting all the assembly performance criteria. It maximizes performance and optimizes design, ultimately reducing assembly variation and costs.



Sigmund emulates manufacturing process variation following the ASME Y14.5M-1994 standard.



Sigmund provides all relevant information in a single-page graphical format.



Sigmund automatically creates complex datum and sub-datum relationships.

Sigmund allows engineers to build a large number of virtual assemblies for evaluation with respect to pre-defined build objectives. It emulates manufacturing process variation following the ASME Y14.5M-1994 GD&T standard as well as assembly process variation, sag, shift, moment arm and gravity effects. Sigmund's powerful, built-in functionality puts complex modeling tasks just a mouse click away. Its three-dimensional, parametric, real-time geometry representation and animation capabilities can accelerate an engineer's understanding of the combined effects of component tolerances and assembly variation on a final assembly's quality. Sigmund provides a visual feedback on assembly build violations, while providing direct access to a feature's deviated position at the violation.

Sigmund's powerful utilities greatly reduce modeling time and effort. In addition, its succinct, reporting module provides all relevant information in a single-page, easy-to-interpret graphical format. Sigmund's geometric sensitivity studies, histograms, and advanced statistics, along with SPC and cost savings capabilities, provide details critical to the design and manufacturing — and executive level — team.

Sigmund optimizes design and assembly process, adds precision where needed, and eliminates overly conservative designs. In summary, Sigmund enables companies to increase product quality, reduce production costs, and get their best-in-class products to the market sooner.

Sigmund's features also include:

- Easy-to-use menu-driven modeling capabilities which reduce user's need to perform advanced mathematics or programming
- Easy interface to create complex datum and sub-datum relationships
- Definition of component tolerances by filling in GD&T feature control frames per ASME Y14.5M-1994
- Ability to simultaneously and parametrically work on multiple parts and assemblies
- Visual feedback to check the accuracy of assemblies
- Built-in intelligence for flexibility in modifying assembly sequence
- Advanced reporting capabilities that can be customized
- Powerful new utilities which greatly reduce modeling time and effort
- Advanced deviation capabilities
- A comprehensive set of easy to use measurement sub-routines