COSMOSWorks® provides easy-to-use yet powerful design analysis and optimization tools for designers and engineers alike. More than 12,000 companies currently use COSMOS® to improve design quality, avoid field failures, reduce material costs, and shorten time-to-market.

COSMOSWorks OVERVIEW

COSMOSWorks enables faster, less costly, and more optimized product development, as well as more in-depth examination of product performance than would ever be possible using even the most detailed prototypes.

Fully integrated with SolidWorks® 3D modeling software. COSMOSWorks allows you to test a design and run multiple iterations without ever leaving SolidWorks. COSMOSWorks utilizes the SolidWorks FeatureManager®, PropertyManager dialog boxes, QuickTips, and many of the same mouse and keyboard commands, so anyone who can design a part in SolidWorks can analyze it without having to learn a new interface. It utilizes the power of SolidWorks configurations to test multiple designs. Plus, since COSMOSWorks uses native SolidWorks geometry, design changes made in one program are automatically updated in the other.

Improve product quality. Regardless of industry application, from aerospace to medical, COSMOSWorks provides significant product quality benefits; enabling engineers to go beyond hand calculations and verify proof of concept for their designs. Quick and inexpensive analysis often reveals non intuitive solutions and benefits engineers by providing them with a better understanding of product characteristics.

Avoid field failures. Field failures can lead to costly recalls and liability issues. COSMOSWorks shows how a model will perform under real-world conditions before it is built. This allows engineers to predict the physical behavior of just about any part or assembly under any loading conditions.

Reduce material costs. COSMOSWorks enables designers to meet functional design specifications but not waste materials by overdesigning. Seemingly insignificant amounts of weight cut from dozens of components add up to significant cost reductions in production, shipping, and packaging. You can also test designs with alternate lighter or lower cost materials in COSMOSWorks.

Eliminate the prototyping bottleneck. Nearly 80% of a product’s manufacturing costs are locked into the approved design, which is why the ability to perform quick and inexpensive design iterations prior to releasing the design has become a critical competitive advantage. COSMOSWorks makes it possible to perform design iterations quickly and inexpensively on computer models instead of on costly physical prototypes.
Add-on Applications
• COSMOsFlows - computational fluid dynamics
• COSMOsMotion™ - motion simulation
• COSMOsEMS™ - low-frequency electromagnetics
• Optimization
• Utility Pack
  – FEA translators
  – 30,000-part materials library
  – Metals
  – Plastics
  – MIL-5

Supported Languages
• Chinese
• Czech
• English
• French
• German
• Italian
• Japanese
• Korean
• Polish
• Russian
• Spanish

System Requirements
• SolidWorks 2004 or higher*
• Pentium®- or AMD Athlon™-class processor
• Microsoft® Windows XP Professional or Windows 2000
• 256 MB RAM or greater
• 200 MB disk space or greater
• CD-ROM drive
• Pointing device
• OpenGL hardware graphic support recommended

* COSMOsWorks 2005 requires SolidWorks 2005

Supported Languages
• Italian
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