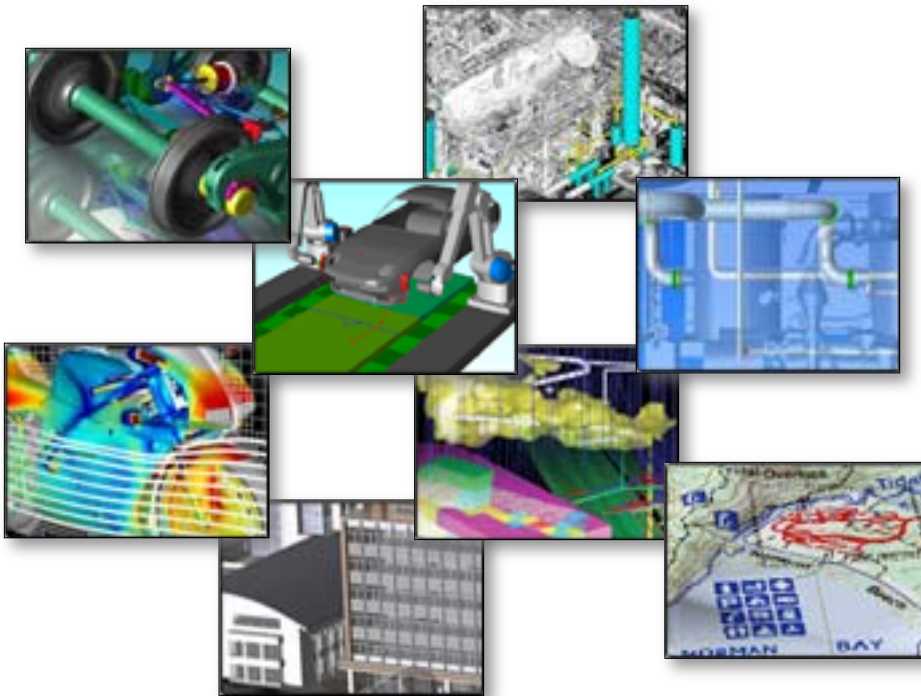


HOOPS

A Robust Platform for the Rapid Development of High-Performance Applications.



HOOPS is a 2D/3D development platform for creating or enhancing professional-grade applications. HOOPS' rich set of API's enable developers to work from a very high level – jumpstarting development and leveraging the expertise of a dedicated team of visualization experts. Development teams using HOOPS are able to produce more competitive applications, and focus on their core competencies, while also reducing R&D costs and project delivery time.

HOOPS WILL HELP YOU:

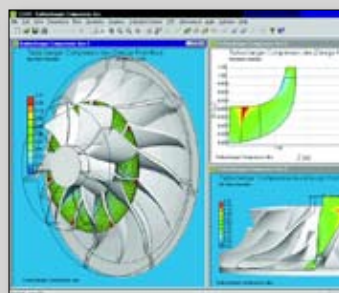
- **Develop High-Performance Applications**
- **Reduce R&D Costs**
- **Compress Time-to-Market**

HOOPS serves as the core graphics engine in over 175 shipping products in broad range of technical markets, including:

- **MCAD & CAM**
- **CAE**
- **Building & Infrastructure**
- **Plant & Process**
- **Metrology & Scanning**
- **Factory Automation & Robotics**
- **Mining & Earth Sciences**
- **And More...**



MCAD & CAM



CAE



Building & Infrastructure



Plant & Process

HOOPS Customers

HOOPS has been successfully deployed within over 175 engineering applications from leading firms such as Autodesk, SolidWorks, MSC.Software, Bentley, Fluent, Trimble Navigation, PTC, Mitutoyo and COADE.

Tech Soft 3D Services

To help HOOPS developers get maximum return from their investment in HOOPS, Tech Soft 3D offers dedicated support, consulting and training; as well as extensive documentation, tutorials and sample code. These services are designed to assist developers make optimal use of the rich HOOPS API's and further speed the development of high-performance applications. In addition to gaining access to all of the power contained within the HOOPS libraries, you're also partnering with Tech Soft's dedicated team of graphics professionals – leveraging our extensive experience helping companies deliver industrial-grade 2D/3D applications.

HOOPS consists of two fundamental layers; the base HOOPS Foundation as well as a series of Advanced Packages geared specifically to the needs of particular markets.

HOOPS Foundation

HOOPS Foundation includes the complete set of base functionality a developer would need to create or enhance any type of high-performance 2D/3D technical application.

HOOPS' Foundation Capabilities Include:

- Rich 2D & 3D integrated scene-graph creation and management
- Fast interactive on-screen viewing, manipulation and interaction
- Full support for optimal rendering on both OpenGL and Direct3D
- High quality text rendering and management
- Crisp print and plot output
- Support for all major 32 and 64 bit platforms, including Windows Vista
- Comprehensive & intelligent handling on over 80 popular graphics-cards
- Pre-integrated with all major UI systems
- Highly compressed streaming format for lightweight visual communication
- Source-code level sample applications for desktop, web, Java and .NET

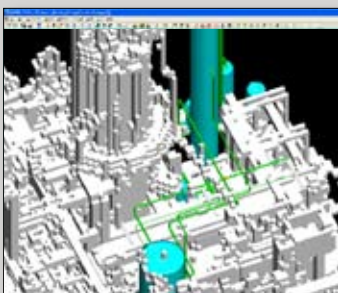
HOOPS Advanced Packages

The Advanced Packages contain the complete HOOPS Foundation toolkit as well as a host of advanced capabilities which make HOOPS the perfect choice for a variety of market-specific solutions.

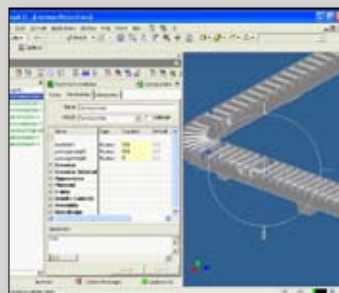
HOOPS' Advanced Capabilities Include:

- Large Model Visualization (LMV) for real-time viewing of even extremely large datasets
- Animation Engine including record, playback and serialization
- Advanced point-cloud visualization
- Fast clash-detection for both static and dynamic scenes
- Advanced sectioning on multiple planes for creating cut-away views
- Professional annotation options including 3D bill-boarding and occlusion
- Advanced shader-based material rendering
- Boolean operators for geometry construction and modification
- Walk-through operators including gravity and collision avoidance
- Highly-optimized polycylinder-primitives for pipework rendering
- Advanced multi-layer transparency for displaying hidden objects
- TCP/IP and HTTP Graphics server for collaborative design review
- Direct import of DWF*, DWG*, DGN, VRML, OBJ and STL formats
- Microstation and 3D Studio Plug-ins for direct export of HOOPS' native HSF format
- Export to DWF*, PDF, 3D PDF, VRML and HSF formats for model publishing
- Integration with 3D InterOp, to access all major MCAD formats
- Support for stereo and immersive viewing

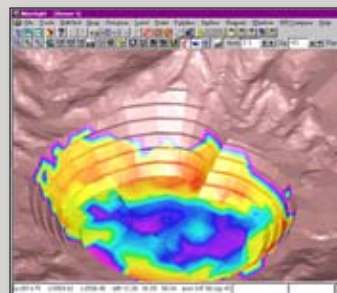
** Requires additional 3rd party toolkits.*



Metrology & Scanning



Factory Automation & Robotics



Mining & Earth Sciences

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