Pro/CONCEPT®

Explore Dramatic Product Ideas Rapidly

Pro/CONCEPT® is the first all-inclusive digital sketching and modeling tool that lets you explore design ideas, brainstorm, and develop new product concepts with unprecedented speed and ease. Now, instead of using a variety of disparate applications during the conceptual design phase, you have a single, intuitive environment that seamlessly bridges the 2D and 3D design worlds.

Toy remote controlled car concept courtesy of Niall Hamilton, UK.

From Idea to Design—at Breakneck Speed

Now you can quickly sketch designs, create curve layouts, model, and sketch directly on models and then render them, all within a single, easy-to-use application.

One Application, Many Powerful Tools

Up to now, designers have had to use a variety of disparate tools in the concept phase: one for initial sketches; another for layouts; a third for 3D models; and another for fine-tuning and making electronic surfaces. Working between multiple applications—and keeping them all current—required significant time, effort, and money.

Pro/CONCEPT is a single, comprehensive tool that lets you breeze through the concept phase and quickly turn 2D sketches into 3D models.
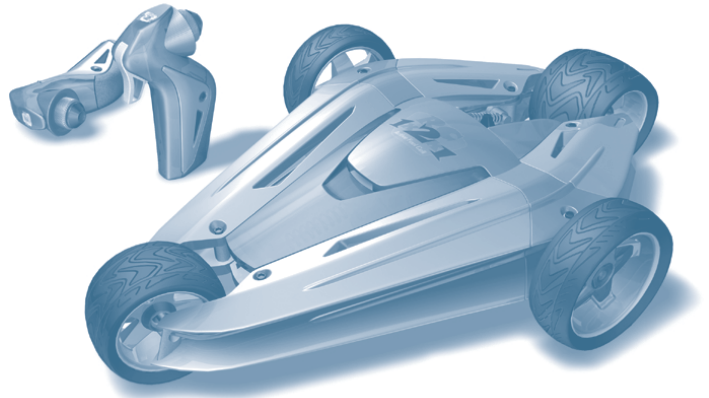
Key Benefits

- Develop concepts faster using a familiar, intuitive, easy-to-use toolset

- Refine concepts with CAD tools like Pro/ENGINEER® and others

- Reduce physical prototyping expense

- Collaborate on projects with colleagues, customers, and partners via the Web

- Evaluate designs earlier for improved product quality and manufacturability

Pro/CONCEPT Capabilities

Integrated Sketching and Modeling
Sketching

- Sketch onto any media (3D models, work planes, 2D canvas)

- Design using interactive, pressure-sensitive pencils, markers, and airbrushes

"Pro/CONCEPT allows me as a designer to quickly workup and visualize broad ideas. It removes the hassle of learning and maintaining multiple tools to accomplish concept design. Plus, it's just fun to use!"

–Niall Hamilton,
 Freelance Designer,
 London, UK

• Use interactive brushes for effects (Clone, Smudge, Lighten)

• Layer effects to explore ideas (Warp, HSB Color Replacement)

Curve Layout
• Use work planes for both sketching and curve creation

• Align sketches, and curve both on and between work planes with interactive guides

Facet Modeling
• Use lofting and primitive creation techniques

• Explore ideas with marquee editing tools (Warp, Mesh, Bend)

• Refine local details with direct editing tools (Sculpt, Displace, Smooth, Router)

Intuitive—Get Up to Speed Fast
• Self-paced tutorials—gets the novice up to speed quickly

• Quick reference cards—keeps users on track

• A familiar user interface—look and feel similar to common tools

• Simple, obvious layout of tools and menus—easy to learn and recall

    -Single, easily viewable tool bar

    -Similar control for 2D and 3D tools

    -Many shortcuts to streamline workflow

Photo-Realistic Visualization
Real-time Rendering
• Real-time display of highlights, shadows, and floor reflections

Photorendering
• Interactive setup of materials, room, and lighting

• Fast and accurate creation of ray traced images

• Accurate representation of reflections

Advanced Photorendering
• Advanced material effects (glass, metal, multi-layer paint)

• Large library with hundreds of predefined materials and textures

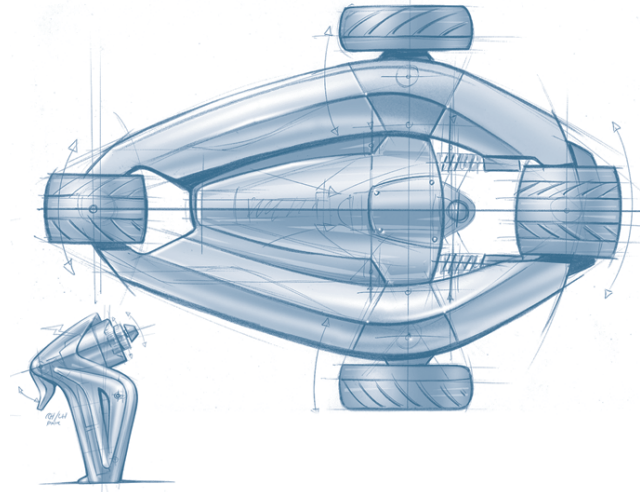• Environment effects (fog, light scatter, lens flare)

Integration
Images
• Exchange images in standard file formats like TIFF and JPEG

Curves
• 1Import curves from Adobe Illustrator and Pro/ENGINEER in IGES, .ai, and .neu formats

• Export curves to Pro/ENGINEER or IGES

Models
• Import facet data from digital scanning machines

Toy remote controlled car concept courtesy of Niall Hamilton, UK.

• Import model data from Pro/ENGINEER and other CAD systems (formats: IGES, STL, VRML, OBJ, ol, ed)

• Export model data directly to 3D print and stereolithography systems

• Export model data to Pro/ENGINEER and other CAD systems

Collaboration
• Embed model data in Web pages for online reviews

• Export model data to PTC's ProductView™ solution for team collaboration and markup

Economical—Multiple Solutions in One
Since Pro/CONCEPT does the work of three, sometimes four applications, you enjoy unmatched value by avoiding the costs of purchasing, supporting, upgrading, and integrating multiple software applications. Learn more about Pro/CONCEPT and other PTC product lifecycle management solutions at www.ptc.com or call us at 888-782-3776 (toll free in North America) or 781-370-5000.

System Requirements
• Available for Windows® XP and 2000, NT, Apple Mac® OS X v10.2 (Jaguar) and 10.3 (Panther)

• For specific platform support details, visit: www.ptc.com/partners/hardware/curent/support.htm

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