

Pro/CONCEPT

Capture ideas instantly and quickly turn them into winning products

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.

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

- Capture concepts and explore their capabilities faster and easier
- Enjoy a single, unified sketching and modeling environment—for one low price
- Develop concepts faster using a familiar, intuitive, easy-to-use toolset
- Integrate design concept data with CAD tools like Pro/ENGINEER® and others
- Ramp up quickly with self-paced tutorials and quick reference cards
- Replace physical prototypes with virtual prototypes
- Collaborate on projects with colleagues, customers, and partners via the Web
- Evaluate designs earlier for improved product quality and manufacturability
- Implement as a stand-alone solution or part of a complete CAD system



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
- 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)

Ease of Use—

- 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—

- Import curves from Adobe Illustrator and Pro/ENGINEER in IGES, .ai, and .neu formats
- Export curves to Pro/ENGINEER

Models—

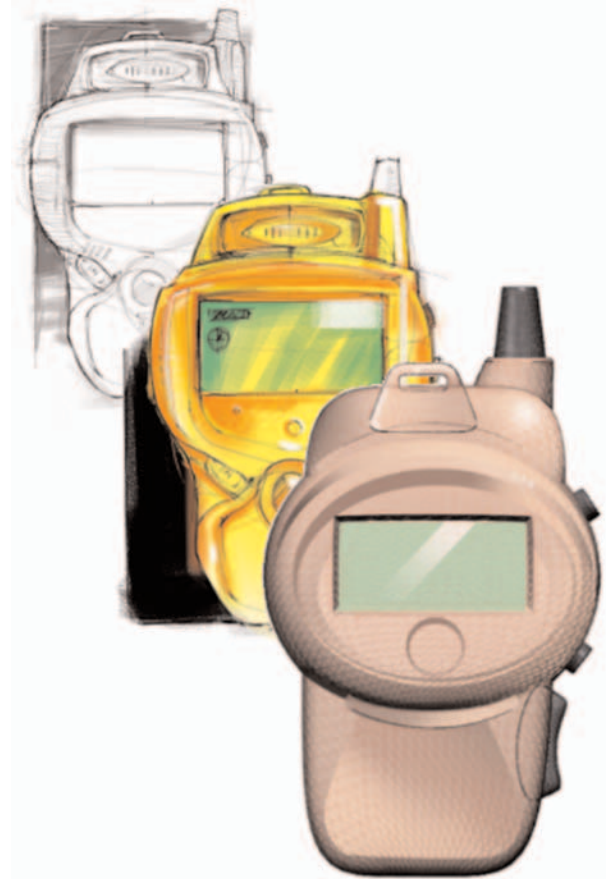
- Import facet data from digital scanning machines
- Import model data from Pro/ENGINEER and other CAD systems (formats: IGES, STL, VRML, OBJ, ol, ed)
- Export model data directly to 3D print and stereolithography systems
- Export model data to Pro/ENGINEER and other CAD systems

Collaboration

- Embed model data in Web pages for online reviews
- Export model data to PTC's ProductView™ tool for team collaboration and markup

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
- Available for Windows® XP and 2000, NT, Apple Mac® OS X v10.2 (Jaguar) or later

**Economical — Multiple Solutions in a Single Package**

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.

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