

CoCreate® Modeling™: Why Designers Say It's the “Easiest-to-Use” 3D CAD System

If your company creates one-of-a-kind products, or new-to-market products, or custom design-to-order products – where design solutions must be reached as quickly as possible – then it's crucial to have CAD tools that are easy to use for everyone on your entire team – both internally and externally.

The fact is, your company's success depends on your design team's ability to radically – and quickly – adapt existing product designs to meet new and shifting design requirements. Plus, if you work with multiple teams or offshore teams, where you exchange designs among flexible design groups, or you use temporary designers to accommodate project peaks, then it's even more critical that your CAD tools are very simple to use.

Here, in the words of actual users, are five reasons why CoCreate Modeling, with its explicit approach to 3D CAD, is considered the easiest-to-use 3D CAD system for your entire team.

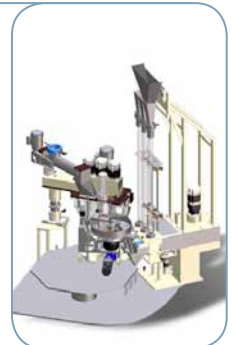
1. Enjoy an easy-to-understand design methodology and, 'on-the-fly', interactions with geometry.

The explicit approach of CoCreate Modeling enables designers to quickly and easily create 3D designs by directly interacting with model geometry on-the-fly, greatly increasing model flexibility and substantially reducing design time. The alternative design approach, called parametric modeling, requires designers to use parameters, dimensions, features and relationships to capture intended product behavior. Although the parametric approach is powerful, it often requires expert knowledge about how best to embed engineering constraints and relationships within a model. Conversely, the explicit modeling approach provides a simplified design methodology for companies that don't need to capture detailed, intended product behavior, so designers can work directly with model geometry instead.

Laudenberg Verpackungsmaschinen GmbH, Germany Moving from 2D design to 3D explicit modeling

“[With CoCreate], a virtual model can be created easily, and with the explicit modeling approach, all changes can be flexibly and intuitively applied. This way of working actually resembles the thinking process of designers, and that's what is so fascinating about this CAD system compared to others.”

– Stefan Bremerich



Packaging machine

DIRTT Environmental Solutions, Canada Results of competitive 3D CAD displacement

“With our previous environment, designs became too precious to change because of the time invested in coming to a particular solution. CoCreate is different. You can start exploring, without a sense of making a mistake that will cause you to lose your previous investment in a model.”

– Geoff Gosling



Movable walls and wiring

2. Design with familiar engineering concepts and capabilities.

With CoCreate Modeling, designers work directly with model geometry by using familiar concepts and capabilities. For example, you can design using 2D profiles, and use common machining commands such as extrude, mill, bore, etc. That means anybody on the design team can quickly grasp the design concepts embraced by CoCreate Modeling. This simplicity saves time and money, and prevents your company from spending valuable resources on creating wasteful duplicate or similar parts.

Sigma Corporation Moving from 2D design to 3D explicit modeling



Digital SLR camera

“Once they use it, they cannot do without it. It’s easy to use and simple to learn, so all of the designers have moved off of 2D CAD, and our products are now designed in 3D.”

— Yosuke Yamazaki

Jupille Design Inc., USA Results of competitive 3D CAD displacement



Orthoscope

“CoCreate Modeling allows us to explore design alternatives using the full range of the tool’s capabilities.

When the only tool you have is a hammer, the only thing you can work on is a nail. The user interface is the best out there, bar none, because it is logical, thoughtful, intuitive and straightforward in its approach.”

— Henry Jupille

3. Use familiar Microsoft Office® paradigms.

Explicit modeling behaves in a fashion that’s similar to the most popular office productivity software on Earth—Microsoft Office, so team members can easily acclimate to the design environment. CoCreate Modeling follows familiar Microsoft copy-and-paste and drag-and-drop methods, so designers can easily manipulate parts and assemblies. Imagine the powerful benefits you can achieve when any designer can pick up a design and run with it—just as easily as sharing a Microsoft Word® document.

Voith Werke, Austria Results of SolidWorks® displacement



Special crane equipment

“Design, alteration, and modification of projects now takes much less time, plus projects now run more smoothly. CoCreate Modeling’s simple design approach gives the company more flexibility than ever before.”

— Gerhard Hörtenhuber

Bortolin Kemo S.p.A., Italy Moving from 2D design to 3D explicit modeling



Packaging machine

“CoCreate Modeling revolutionized our product development process. The new, lean production methodology helps us meet increased demand for technical documentation and speeds up the design of special machinery, since we can now easily reuse and change existing subsystems.”

— Omar Pajer

4. Work in full design clarity, without switching between part and assembly modes.

With explicit modeling, design engineers work in the context of the complete assembly. Unlike other 3D CAD systems, CoCreate Modeling lets you make modifications across parts and assemblies. You don't need to bother switching between part and assembly modes. That's because there is only one mode—design mode. Flexible assembly structures enable designers to make modifications across parts and assemblies, so it's easy to leverage existing assembly structures and repurpose them in other product assemblies.

Process SRL, Italy Moving from 2D design to 3D explicit modeling

"With CoCreate, we can continually adapt new ideas and information in our digital prototype at any stage during development, while achieving incredible speed in design, from concept to production."

— Massimo Mescoli



Woodworking machine

Deuce Snowboards, USA Results of competitive 3D benchmark and evaluation

"I would take a copy of an existing part that was close to what I wanted and change it. CoCreate Modeling makes changes easy for complex parts as the design progresses from variation to variation."

— Todd Belt



Snowboard

5. Accommodate project peaks by allowing any designer to carry existing designs forward.

With the explicit approach to 3D design, designers don't need to understand anything about the previous design steps used to create an existing model. That means anyone on the team can instantly pick up a design where another designer left off. That simplicity also helps engineering managers flexibly allocate team members to different projects to accommodate project peaks and meet deadlines more easily.

Fritsch GmbH, Germany Results of competitive 3D benchmark and evaluation

"Our company is part of a fast-moving market, and often can only manage peak order volumes with the help of temporary workers, and a CAD solution that is simple, quick-to-learn, and simple/intuitive to use—we have to quickly train temporary and new employees."

— Bernhard Haag



Machinery and equipment for bakeries

NEC AccessTechnica, Ltd., Japan Results of competitive 3D benchmark and evaluation

"With CoCreate Modeling, we can safely make revisions without knowing how the design was modeled in the first place. That makes things very easy."

— Tatsuhiro Furuta



Phone system

To learn more about the ease and power of CoCreate Modeling, visit www.ptc.com/products/cocreate/modeling