

CoCreate® Modeling™: Why Designers Say It's the Best 3D CAD for Repurposing Designs

If your company works with external suppliers and partners, chances are you must deal with product design data from multiple CAD systems. Here's the problem: If you can't quickly repurpose that data as if it were your own native 3D design data, then your designers must completely rebuild these third-party parts from scratch. That's a waste of time and effort.

With explicit modeling, that's not the case. Because explicit modeling lets designers work with data from any CAD system, you'll never encounter incompatible file formats when working with models from third-party vendors, manufacturers, or partners.

Here, in the words of actual users, are five reasons why CoCreate Modeling, with its explicit approach to 3D CAD, is the best 3D CAD system on the market for repurposing imported CAD data created with any other design tool.

1. Import any design and make modifications as if it were built with CoCreate Modeling.

Hard to believe, but every command you normally use when designing with CoCreate Modeling can also be used on imported models. That makes it easy to repurpose third-party designs regardless of what 3D CAD system was used to create them.

van Baal Techniek, Holland

Results of competitive 3D benchmark and evaluation

"CoCreate Modeling is our only CAD tool for exchanging data to a wide range of systems. We would be out of business without it."

— Hans Kirpestein



Manufacturing equipment

Fasti Industriale S.p.a., Italy

Results of competitive 3D benchmark and evaluation

"CoCreate Modeling is the only solution that lets us reuse existing 3D models. The challenge was to integrate the thousands of existing models and to be able to reuse them without having to redesign them with CoCreate Modeling. This capability reduced the time it takes to design a machine of average complexity from eight months to six months. Another result is that, due to the integrity of the designs and the ability to reuse existing models, costs have fallen 40%."

— Gian Mario Nelva



Chain-making machine

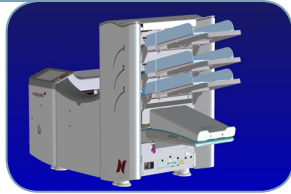
2. Repurpose imported 3D designs irrespective of who designed it and how it was originally created.

Your product development teams often struggle with importing and modifying multi-source CAD data from design and manufacturing partners, preventing your company from working across an extended supply chain for procured components, subcontracted design, or off-site manufacturing. Explicit modeling lets your team work with CAD data from any source, which means you can build highly efficient global design teams that can easily pick up a design—created by any designer, using any tool—and run with it using CoCreate Modeling.

Neopost Technologies, USA Results of competitive 3D benchmark and evaluation

“CoCreate Modeling has proven to be the most flexible CAD system. Not only does it offer us integration working across large teams and external parties, but the explicit approach also turns out to be very intuitive and easy to learn, which means new project members almost instantly can make changes on the 3D model.”

— Jaap Kramer



Mail-handling equipment

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

“Recreating a model for a customer typically takes twice as long as a new design and has an error rate of about 20%. CoCreate Modeling allows us to import models reliably, which brings the error rate down to about 5%. We were able to slash the design time by 50%.”

— Norbert Wais



Packaging machine

3. Handle imported IGES and STEP files as if they were native CoCreate Modeling files.

CoCreate Modeling doesn't care about the format in which your design data arrives, because users work directly with model geometry as if it were created natively. CoCreate Modeling includes interfaces for IGES and STEP, the two industry standards for 3D CAD data exchange. Because design engineers use the explicit modeling approach and work directly with model geometry, they're afforded the freedom to work with any design, without knowing the part's history or design intent—which is typically lost when a model is converted from one format to another.

Heavac B.V., The Netherlands Results of competitive 3D benchmark and re-evaluation

“We've had models of entire buses sent to us as STEP files. We imported their data using the STEP converter and completed the project within a week. No problem.”

— Han Rutten



Air-conditioning equipment

Okuma America, USA Results of competitive 3D benchmark and evaluation

“Okuma America product engineers work in a global design environment and experience the constant pressure of needing to reduce design cycles of custom Okuma products in order to remain competitive. CoCreate Modeling's explicit design software gives Okuma America engineers the flexibility to address that challenge.”

— Marc von Amsberg



CNC machine

4. Import any design in standard or proprietary formats using the powerful CAD interfaces for CoCreate Modeling.

CoCreate Modeling has add-on modules designed specifically for importing particular CAD formats—beyond just STEP and IGES. You can import geometry from any CAD system on the market today, including Autodesk Inventor®, SolidWorks®, Solid Edge®, Unigraphics NX®, and many others. Once they import the data, design engineers can directly work with the model, even without knowing its history and design intent.

Sykattec GmbH & Co. KG, Germany Moving from 2D design to 3D explicit modeling

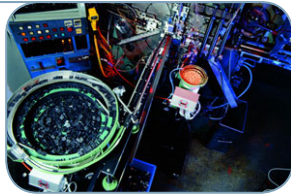


Steel components manufacturing

“With CoCreate Modeling, we can work with and modify 3D customer data that was created in different CAD systems. Using various different CAD systems was never a consideration.”

— Gerd-Friedrich Witthus

Fisher Reinach AG, Switzerland Results of competitive 3D benchmark and evaluation



Sheet metal components

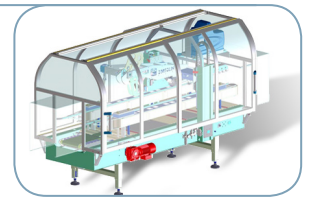
“The fact that CoCreate Modeling can import foreign data and allow us to work on the data as though it were a native CoCreate model was a key buying factor for Fischer Reinach AG. Another key reason for selecting CoCreate Modeling, which was evaluated along with six competitive systems, was ease of use.”

— Beat Honegger

5. Combine parts from multiple sources into a single assembly, and drive changes across multiple models.

Because the format in which your design data arrives is irrelevant to CoCreate Modeling, its parts can all be combined into an assembly, which behaves as if it were created natively. Design engineers can drive simultaneous modifications to models because the explicit modeling approach lets them work directly with model geometry. This unique strength of the explicit approach to product design affords designers the freedom to work across multiple models at the same time, without any restrictions of part history or design intent, which is usually removed when models are converted from one format to another.

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

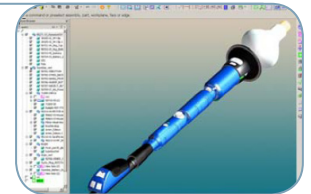


Packaging machine

“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

WAGIC, USA Results of competitive 3D benchmark and evaluation



Home appliance

“CoCreate Modeling is so flexible that it allows an easy process of feedback, change and evolution of a product. Its interoperability tools mean that we can also take input from other 3D CAD systems and immediately make it usable in a design.”

— Ron Johnson

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