Creo® Additive Manufacturing Extension

What you see is what you print. Creo 4.0 closes the gap between 3D CAD and 3D printing.

Additive manufacturing (3D printing) is the process of building an object one thin layer of material at a time. The definition is simple but the 3D printing process is not. Designers often must use multiple software packages, a situation which forces them to export, redesign, optimize and reimport their model each time.

Creo 4.0 Additive Manufacturing extension, an extension to Creo Parametric, puts an end to this. And opens up worlds of opportunity.

You now can design, optimize and validate, and print-check your models all within a single design environment. What you see is what you print. With Creo 4.0, you're free to focus on creating, optimizing, and validating the highly complex geometry that can only be produced through additive manufacturing.

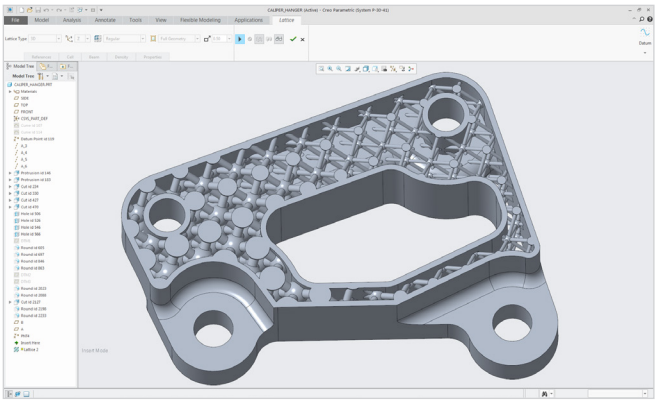
Key benefits

Single Environment

Creo 4.0 takes you from concept development through detailed design and all the way through printing. You'll reduce errors, tedium, and overall process time because you won't be switching between software packages. And because all your work is done in Creo, your downstream deliverables, drawings and technical documents will always reflect what you actually manufactured.

Lattice Creation

Create parametrically controlled uniform lattice structures. You also have variability control, the ability to reinforce a lattice. When you combine this capability with simulation, you can optimize the lattice structure to solve multiple design requirements simultaneously. And because this is true parametric geometry, your lattice structure will be a fully detailed part with accurate mass properties.



Create complex variable lattice structures with ease.

Connected Printer Support

Directly connect to Stratasys and 3D Systems printers to understand build time, material usage, and materials/color assignment. Creo Additive Manufacturing extension recognizes each printer and its capabilities, allowing you to consider manufacturing issues early in the process. Print directly to these printers from Creo.

Create and Manage the Print Tray

Why redo work? Build, track, validate, and manage print jobs, and then store and reuse them. Auto positioning and nesting of multiple components lets you optimize your print tray to save time and money, and reduce material. You can also assign materials and colors to parts in the tray when using connectivity to supported printers.

Direct Connection to Service Bureaus

Directly connect to the *i.materialise* service bureau for access to more than 100 materials (including metals) and finishes. Instantly see the visual and financial impact of your design decisions.

Improved Rapid Prototyping

Print prototypes that more closely match the final designed parts, so that testing is more meaningful.

Compatible Printers

Stratasys

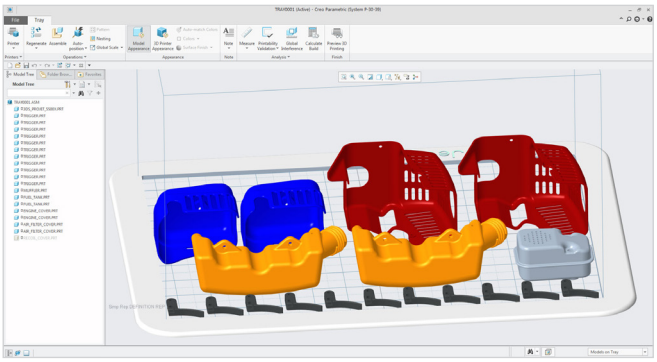
- Polyjet Technology (Connex), using Object Studio
- FDM technology (uPrint, Dimension and Fortus) using GrabCAD Print

3D Systems

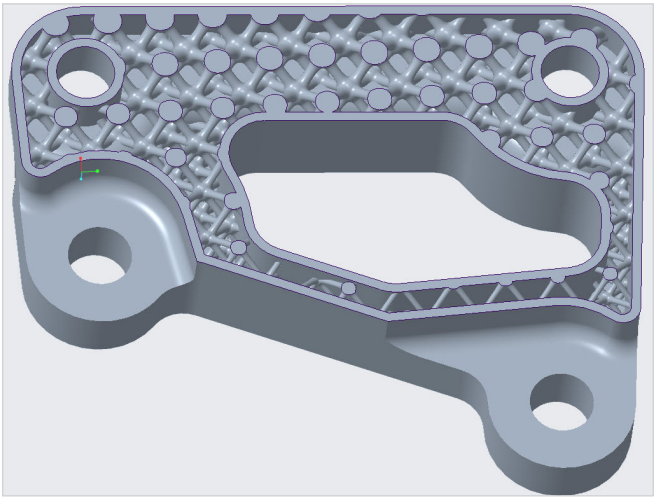
- Projet 1200, 2500, 2500 Plus, 5500x, using 3D Sprint kernel embedded into Creo
- Upcoming: Projet 3600, 3510, 6000 & 7000, 800, 950

As the GrabCAD Print platform and 3D Sprint kernel expand, there will be additional printer support.

Please visit the PTC Support page for the most up-to-date platform support and system requirements.



Optimize your print tray to save time and money.



Create lattices with parabolic beams.

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