Additive Manufacturing in Creo®
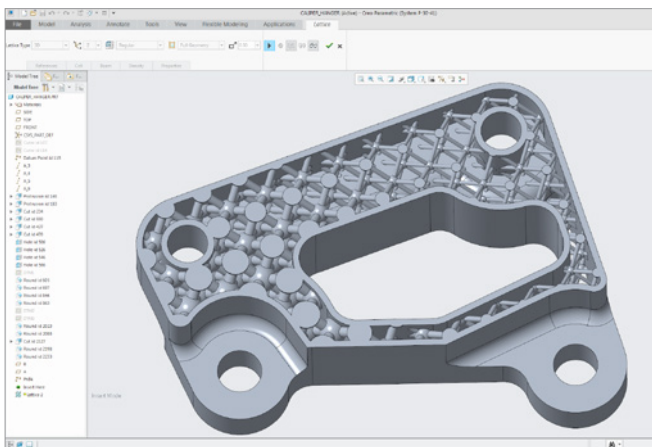
What you see is what you print. Go from initial concept to hitting print all in Creo.

With Creo you can design, optimize, validate, and print-check the highly complex geometry that can only be produced through additive manufacturing.

Key benefits

Lattice Creation

Create parametrically-controlled uniform lattice structures. 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

Whether you're printing with polymers or metal, Creo 5.0 has you covered.

For polymers, directly connect to Stratasys, 3D Systems, and Materialise-enabled printers to understand build time, material usage, and materials/color assignment. Print directly to these printers from Creo.

For metal printing, you can generate and customize the support structures that metal printing requires.

The Creo Advantage

Creo is a 3D CAD solution that helps you build better products faster by accelerating product innovation, reusing the very best of your designs and replacing assumptions with facts. Go from the earliest phases of product design to a smart, connected product with Creo. Add augmented reality to allow everyone to visualize your design. In the fast changing world of the Industrial IoT, no other company can get you to the substantial value as quickly and effectively as PTC.

Description	Creo 4.0	Creo 5.0
Creo Parametric		
• Print Check	✓	✓
• Create Print Trays	✓	✓
• Direct Connect to Stratasys Plastic Printers	✓	✓
• Direct Connect to 3D System Plastic Printers	✓	✓
• Direct Connect to i.materialize Print Bureau	✓	✓
• Direct Connect to Plastic Printers in the Materialise Library		✓
• Direct Connect to 3D Systems ODM Print Bureau		✓
Creo Additive Manufacturing Extension		
• Lattice Modeling	✓	✓
• Modify, Manage and Save Print Tray Assemblies	✓	✓
• Automatic Positioning and Nesting in Print Tray Assemblies	✓	✓
• Global Interference Check	✓	✓
Creo Additive Manufacturing Plus Extension for Materialise		
• Direct Connect to Metal Printers in the Materialise Library		✓
• Generate and Customize Metal Support Structures		✓
Creo Topology Optimization Extension		
• Topology Optimization		✓
• Semi-Auto Geometry Conversion		✓

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

ptc.com