creo® creoTek

TOP ENHANCEMENTS CREO 13

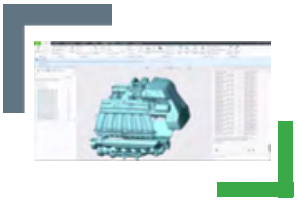
DELIVERYOURBESTDESIGNS IN LESS TIME

Creo 13 is designed to keep engineers moving - faster, smarter, and with greater confidence. Industry-leading capabilities across usability, Model-Based Definition, integrated simulation, composites, manufacturing, and more help manufacturers get the most value from their CAD system, so you can deliver your best designs faster.

GET THE TRIAL >>

ARTIFICIAL INTELLIGENCE

Creo 13 introduces the Creo AI Assistant designed to advise, assist, and automate your design process. Guided workflows ensure new users are onboarded faster and experienced users can be more efficient.



- Embedded LLM Chat Interface.
- Intelligence derived from the Creo knowledge base and help documentation.
- *Advise:* model-agnostic design guidance based on general best practices.
- *Assist:* model-aware capabilities to extract information and provide specific model data or design assistance.
- *Automate:* complex engineering and analysis with recommended workflows and actions for human review and approval.
- Sandbox environment for the Creo AI Assistant to make changes to the model before human approval.
- Icons to indicate which features were edited by AI.

PRODUCTIVITY & USABILITY

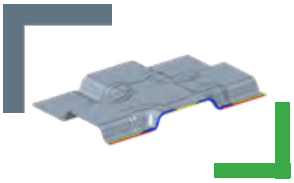
Creo 13 brings productivity enhancements to capabilities that are essential to 3D CAD: an intuitive user interface, sheet metal design, advanced surfacing, assembly performance, multibody workflows, and more!

- 5x faster large assembly retrieval over WAN.
- Improved control by stopping assembly regeneration.
- Expanded feature presets.
- Open models in tabs and quickly filter and identify top-level assemblies.
- Sheet metal flat-pattern export direct to DXF/DWG.
- Improved design reuse with copy and paste for advanced surfaces.
- Corner blend, 3D curve patterns, & creation of parts from multibodies into existing assemblies.

ptc®

DESIGN FOR COMPOSITES

Creo 13 expands on the market-leading fidelity and accuracy of advanced composite design, so engineers can confidently design, simulate, and manufacture innovative ideas.



- Direction-based ply transitions provide up to 60x faster calculation of transitions for complex models.
- Copy and paste of composite designs reduces repetitive work for similar designs.
- Curve-based draping support improves model accuracy for channel-based geometry.

MODEL-BASED DEFINITION

Creo was natively built as a model-based system to establish the 3D model as the source of truth for all product information - providing the right data to the right person at the right time.

- Enhanced 3D PDF Export options - users can create customized templates to meet their needs.
- GD&T Advisor & EZ Tolerance enhancements make compliance with standards faster and easier.
- Assembly datum reference features enable better consistency in 3D modeling.

SIMULATION-DRIVEN DESIGN AND GENERATIVE DESIGN

Creo puts the power of real-time Ansys simulation into the hands of every engineer. Simulation-driven design leads to iteration and optimization earlier in the design process for improved quality and speed.

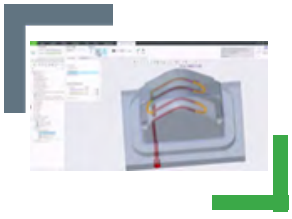
- Optimize parts with generative design in the context of an entire assembly.
- Real-time simulation support for ECAD assemblies.
- Patterning for bolts and preloads in CSL and CAS.
- Apply preloads to solid bolt geometry in CAS.
- Generative design supports multiphysics simulations

MANFACTURING (ADDITIVE AND SUBTRACTIVE)

Creo is the ideal choice to move from early-stage engineering through validated manufacturing, providing the tools for additive and subtractive manufacturing and mold design.

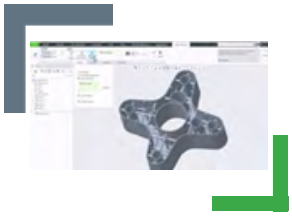
Subtractive Manufacturing

- 5-axis swarf milling capabilities.
- NC parameters now have visual icons to demonstrate what the parameter controls.



Mold Design

- Connect multiple conformal cooling channel flow paths into a single inlet/outlet flow path.

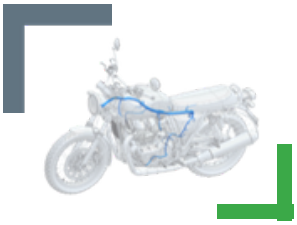


Additive Manufacturing:

- Expanded pore size control.
- Automatically select all intersecting edges in an intent chain and apply operations to all intended features.

DESIGN FOR ELECTRIFICATION

Creo is an excellent choice for circuit design and harness manufacturing,with a comprehensive suite that streamlines the entire design process, from schematic capture to PCB layout and wire harness design.



- Work on harnesses as an independent component.
- Generate bundles from logical data provided by Schematics.
- Support of IEC 81346-2 standard.

Creo 13 offers a wealth of improvements to help you and your team improve productivity, quality, and innovation. From productivity tools that you will use every day, to simulation-driven design tools and innovative composite design tools, Creo provides the capabilities you need to help you deliver your best designs in less time.

As the outright Innovation leader in ABI Research's latest competitive assessment, Creo has been recognized to have robust set of CAE/CAM capabilities, intuitive model-based offerings, and the integration of disruptive technologies like simulation.

Creo is the 3D CAD solution that helps you accelerate product innovation to build better products faster. Easy-to-learn Creo uses a model-based approach to seamlessly take you from the earliest phases of product design to manufacturing and beyond. Combining powerful, proven functionality with new technologies including AI, generative design, real-time simulation, advanced manufacturing, IIoT and augmented reality, Creo helps you iterate faster, reduce costs and improve product quality. Creo is also available as a SaaS product, providing innovative cloud-based tools for real-time collaboration and streamlined license management and deployment. The world of product development moves quickly, and only Creo delivers the transformative tools you need to build competitive advantage and gain market share.

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