ptc

creo

Get the Trial >

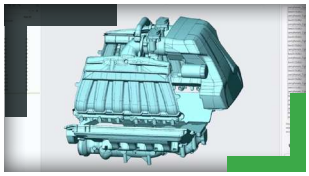
>>> GET UP TO SPEED WITH CREO 10 THROUGH 13

Deliver your best designs in less time. Upgrade to the latest release for core modeling enhancements, productivity improvements, and the breakthrough capabilities you expect from the software you trust. Every year PTC makes it easier and faster to do your job. Think about what's possible, and **GET UP TO SPEED.**

>>> THE CREO ADVANTAGE:

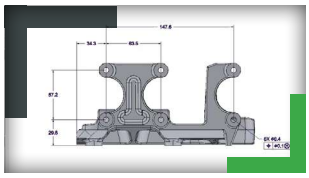
PTC's Creo is the parametric 3D CAD system that helps you deliver your best designs in less time. Manufacturers rely on Creo to get the most value from their CAD system, with fully integrated design, simulation, and manufacturing capabilities. Creo delivers model-based product development, artificial intelligence, real-time simulation, generative design, and streamlined workflows for composites, additive and subtractive manufacturing. Easy-to-use core modeling tools help improve productivity every day. Creo is fully associative, meaning changes are automatically propagated across the value chain. Creo provides an on-premises solution, while Creo+ delivers a SaaS solution, with cloud-enabled collaboration, license management, and deployment tools.

CREO 13 BRINGS YOU...

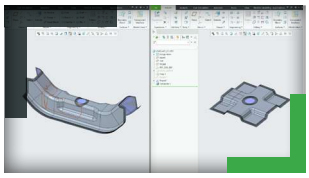


Artificial Intelligence. Creo 13 introduces the Creo AI Assistant to achieve real productivity gains in engineering. For all seats, Creo AI will *Advise* the design process through an LLM-chat interface that provides general guidance based on help documentation. Separate extensions enable the Creo AI Assistant to *Assist* users with model-aware insights or *Automate* complex engineering tasks with user-approval.

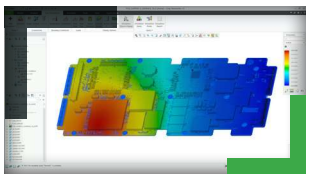
Usability and Productivity Enhancements. Creo 13 introduces new productivity enhancements across the UI, core functionalities, and assembly management for accelerated workflows. Easily find top-level assemblies, open models in tabs, retrieve assemblies faster, copy and paste complex surfaces, create corner blends and feature presets, export sheet metal flat patterns, and more! What's New highlights will show you where to see new features.



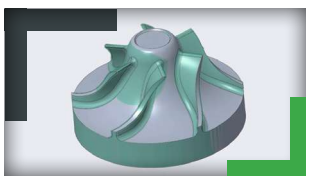
Model-Based Product Development. Creo 13 expands the extensive MBD capabilities that enable teams to achieve compliance and collaboration across the organization. 3D PDF Export capabilities now allow organizations to create customized reports. GD&T Advisor and EZ Tolerance enhancements ensure you comply with the latest standards, and now Creo supports datum references at the assembly level to give greater control in your designs.



Unparalleled Composites. Creo 13 extends Creo's industry-leading composite design and manufacturing capabilities even further. The power of copy and paste is now possible to easily reuse designs. Direction-based ply transitions recalculate up to 60x faster for complex models, and curve-based draping support improves fidelity for channel-based geometry. Engineer lighter, stronger parts in Creo with unmatched composite capabilities.

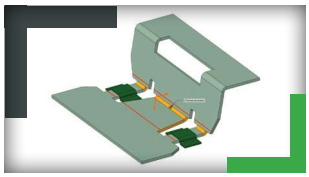


Simulation & Generative Design. Integrated simulation tools in Creo enable engineers to iterate early and often, and deliver higher quality designs faster. Creo Simulation Live can now analyze ECAD assemblies, and Creo Ansys Simulation can explore random vibration and fatigue analysis.. For both, check out expanded patterning for bolts and preloads for easier analysis. In Generative Design, Creo 13 enables part optimization in the context of an assembly, multiphysics analysis, and inertia relief.

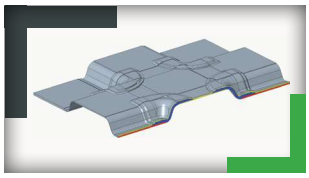


Advanced Manufacturing in the same environment. Connected CAD/CAM workflows link your process from early engineering through manufacturing. With Creo 13, engineers will see a UX redesign of NC parameters and the ability to model 5-axis swarf milling for high-quality finishes. In additive manufacturing, you'll be able to connect multiple conformal cooling channels into one optimized channel for a single inlet/outlet flow path.

CREO 12 BRINGS YOU…

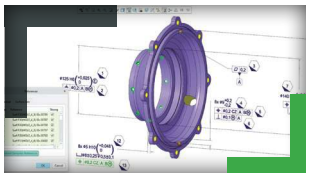


Usability and Productivity Enhancements. Creo 12 delivers an intuitive interface with streamlined workflows. Customer-inspired enhancements in Creo 12 include feature presets and creation of flat assemblies from multibody parts. What's New highlights and enhanced tooltips provide resources needed to maximize the full potential of Creo.

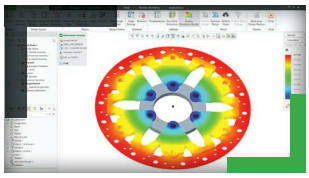


Industry-Leading Composite Capabilities. Creo 12 delivers market-leading fidelity and accuracy in advanced composite structure design, with innovative tools that enable engineers to efficiently design, simulate, and manufacture composite parts. Creo 12 provides faster, more accurate creation of solid geometry from composite layers and can create an associative manufacturing reference model.

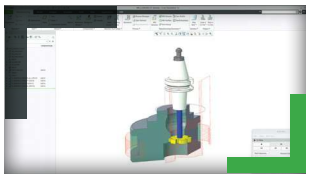
Electrification Design. Creo is an excellent choice for circuit design and harness manufacturing, with tools to streamline the entire design process, from schematic capture to PCB layout and wire harness design. When working with complex harness designs, engineers can build the harness as an assembly, making it easier to collaborate with other engineers.



Model-Based Approach. With a model-centric approach, Creo ensures that all product information is accurately defined within the 3D model, providing the right information to the right person at the right time. Creo 12 offers improved file export capability, including 3D PDF and STEP AP242, edition 3. GD&T Advisor now supports Datum Reference Features and intent surfaces, and annotations are now easier to re-use.

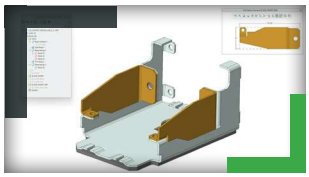


Simulation & Generative Design. Creo simulation-driven design helps engineers iterate and optimize designs early in the design process, with award-winning generative design and real-time Ansys simulation tools. With Creo 12, engineers can leverage AI-powered generative design for thermal optimization studies, in addition to structural and modal analysis. Creo 12 has updated Ansys solvers (25R1) with simplified and improved results for both Creo Simulation Live and Creo Ansys Simulation.

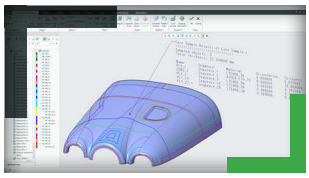


Subtractive & Additive Manufacturing. Creo is the ideal choice for designing for additive and subtractive manufacturing. With Creo 12, engineers can now use additive manufacturing to design conformal cooling channels in injection molded tools, for optimal results. Additive also has enhanced capabilities for connecting and customizing lattices, and subtractive manufacturing is now better than ever with undercut high-speed milling capabilities.

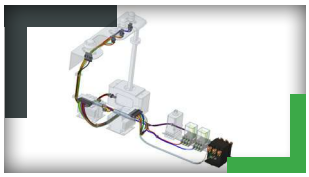
CREO 11 BRINGS YOU…



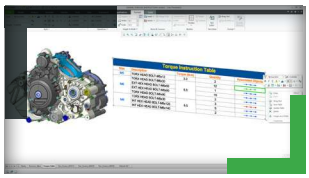
Usability and Productivity Enhancements. Every year, PTC and Creo make it easier and faster to do your job. Creo 11 is no exception with support for the multibody design of sheetmetal parts, improved Spot welding, easier surface selection, and better modeling tools.



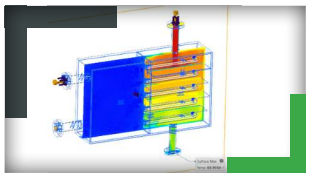
Enhanced Composites Capabilities. Leverage expanded functionalities around transitions, laminate section, and draping simulation. With zone based design, automatically create plies. Increase composite product quality through support of leading laser projection formats.



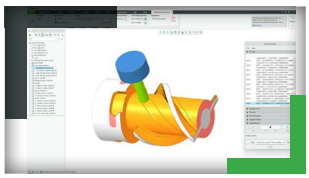
Enhanced Electrification Design. Creo 11 has improved tools for cabling including cabling tree enhancements and remove locations capability. Gain more flexibility to control the presentation of various layers in ECAD with improved context data visibility.



Expanded MBD Capabilities. Creo 11 gives you powerful model-based definition tools to provide greater clarity with less effort. Discover the latest enhancements to tables, semantic query on inheritance models, and GD&T Advisor.

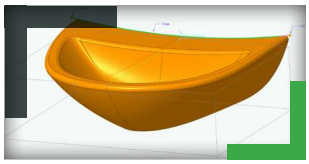


Expansion of Simulation and Optimization. Improve your products with enhanced simulation-driven design tools. Accurately predict heat transfer of combinations of solids and fluid flow. Get support for transient structural simulation (time dependent boundary conditions). And optimize your designs faster with generative design enhancements.

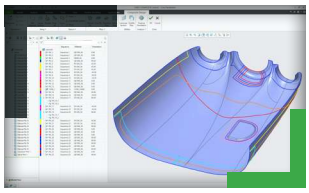


Broader Subtractive and Additive Manufacturing. Make it easier for you to deliver high-quality manufacturable products. The latest additive functionalities make creating complex lattices easy. In subtractive manufacturing, high-speed milling now supports 4-Axis rotary roughing and finishing toolpaths.

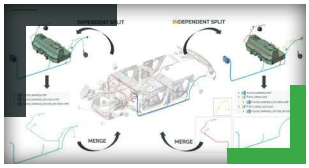
CREO 10 BRINGS YOU…



Usability and Productivity Enhancements. Manage your model trees better, access enhanced modeling tools with Sketcher, holes and patterns, multibody split/trim, and Warp and Freestyle surface enhancements.

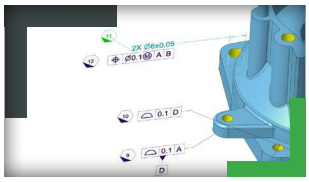


New Composites Capabilities. Introducing a new dedicated composite design and manufacturing environment within Creo. Offering a broad set of functionality to define individual ply layup, ply sections, transitions, ply order and even create resulting solid geometry and Inner Mold Line (IML) quilt. Optimize your structure to ensure strong but lightweight results.

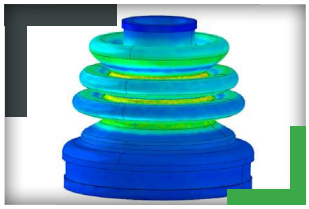


Enhanced Electrification Design. Electrification is becoming a key initiative for many industries. Creo has improved design tools for cable and harness design to help you create and manage wiring harnesses. Explore the Split/Merge Harness Tool for Cabling, the new application-centric management tree and new ECAD capabilities.

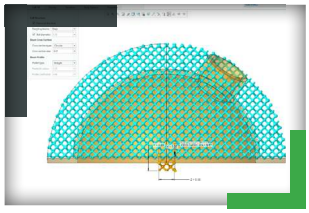
Enhanced Ergonomics Design. The latest enhancements to Creo allow you to account for the range of movement, the field of vision and uniqueness of users in a safe and efficient manner. The Visual Field can now perform reflection analysis and Manikins can now support multiple reach envelopes.



Easier Model-based Definition (MBD) and Digital Thread. Discover the latest enhancements to related symbols, EZ Tolerance and GD&T Advisor.



Expansion of Simulation and Optimization. Introducing Creo Ansys Simulation Advanced, the latest addition to the Creo simulation offerings. Introducing new capabilities for for non-linear materials, non-linear contact and combined thermal and structural analysis. Generative design has been improved with constraints for planar and rotational symmetry.



Broader Subtractive and Additive Manufacturing Capabilities. The latest additive functionalities allow users to create several new beam-based lattice types and support the creation of IWP cell lattices. In subtractive manufacturing, high-speed milling now supports barrel tools for both wall and floor 5-axis finish.

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