



CREO CAPABILITIES FOR INCUBATORS AND ACCELERATORS



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CORE CREO CAPABILITY

Parametric Design Power to model any geometry regardless of shape, size or complexity

Real-time Rendering Use real-time rendering to visualize realistic products rendering real world conditions (i.e., materials, lights, reflections, shadows)

2D Detailing (Drawings) Simplified creation and documentation of detailed manufacturing requirements

Assembly Design & Performance Management Easily create and manage complex assemblies using tools to manage and improve system performance

Design Reuse & Automation Rapidly create and reuse standardized components, features and geometry (i.e., sketches)

Freestyle Design Rapidly manipulate primitive shapes to create high quality freeform and stylized geometry

Model Check Automatically evaluate parts, assemblies and drawings to validate modeling best practices and compliance with defined company standards

AR Design Share Easily create, publish and securely share Augmented Reality experiences managing models and viewer access

Design Animation Create detailed animations to visually illustrate product details and procedural product information

Design for Additive Manufacturing OOTB support for Stratasys and 3D Systems printers, supporting tools to enable model preparation, print validation, printer tray positioning, etc.

Import Data Doctor Easily repair imported data using tools to repair, modify and featurize imported geometry

Mechanism Design Define assemblies using true mechanical constraints to visualize and analyze kinematic motion analysis

Parametric Surfacing Create free-form and analytical surfaces using parameters, constraints and calculations to capture design intent

Plastic Part Design Specialized functionality to speed the creation of plastic part design (i.e., rib, draft)

Sheetmetal Design Fast creation of complex sheet metal parts and associated flat patterns (manufacturing)

Unite Technology Directly open and import common CAD formats. Easily integrate, edit and work with multi-CAD data from any CAD source to improve collaboration

Weld Design Rapidly define and document weld fabrication and process requirements

3D Annotations Define a single source of truth using 3D annotations to support model-based definition (MBD)



Fatigue Advisor Analyze cycle fatigue to determine the number of load cycles components can sustain before failure

Flow Analysis Analyze computational fluid dynamics (CFD) to improve the functional performance and quality

Generative Topology Optimization Rapidly generate the optimal design solving for functional objectives, constraints, loads and manufacturing process criteria

Human Factors Analysis Analyze human-workplace interactions to validate conformance with health, safety and workplace standards

Human Factors Design Visualize, simulate and optimize-human product interactions to support human-centric design

Interactive Surface Design Combine the power of parametric modeling and flexibility of freeform surfacing

Layout Maximize productivity using integral 2D layout and 3D detailed design

Legacy Data Migration Support legacy data migration and CAD consolidation efforts

Mechanism Dynamics Analyze and optimize the dynamic performance of mechanism designs

INTEGRAL APPS AND EXTENSIONS

Additive Manufacturing Rapidly create and optimize lattice structures and define printer tray setup

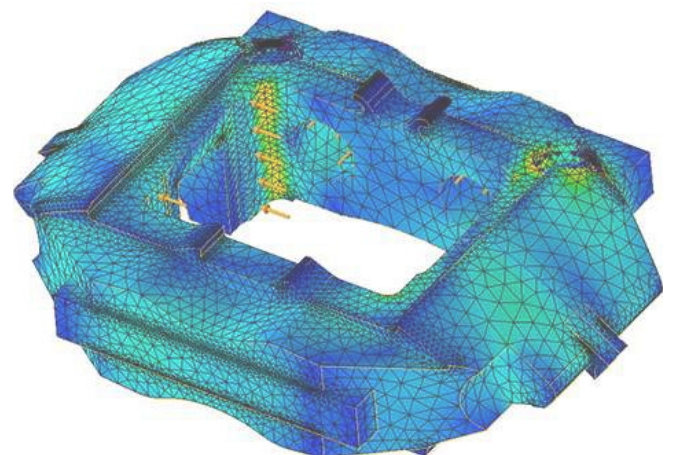
Behavioral Modeling Rapidly optimize geometry solving for design goals and engineering objectives

Composite Design and Manufacturing Create solid geometry representing the composite shape, with accurate mass properties of the resulting geometry.

Computer Aided Verification Digital inspection and verification of machined parts and assemblies using CMM and first article inspection

Design Exploration Rapidly explore, evaluate and review design alternatives using checkpoints to manage files and capture design history

Direct Modeling (Flexible Modeling) Make fast, flexible edits to any 3D geometry in Creo



Multi-CAD Collaboration Easily integrate and work with data from CATIA V4/V5, SolidWorks, Siemens NX and Inventor

Options Modeler Build configurable products, assign option choices to configurable modules, and build product variants

Piping & Cabling Rapidly create and optimize the routing of 3D cable and piping systems

Product Insight Design for connectivity to capture relevant data streams and return real-world data

Render Studio Create photorealistic images for design review, sales and marketing

Schematics Rapidly create 2D schematics and automate the routing of 3D cable and piping systems

Simulation Analyze and optimize part and assembly models using structural and thermal analysis

Creo Simulation Live The integration of the Ansys Discovery simulation engine running in Creo to provide real-time analysis for static structural, thermal and modal (vibration) simulation

Tool Design Accelerate the design of high-quality production mold and cast tooling

Top-Down Design & Concurrent Engineering Facilitate and support concurrent design and development using top-down design and publish geometry. Simplify complex assembly designs, streamline the flow of information from design to manufacturing.



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 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.

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