

# Top 8 Reasons to Design with Creo<sup>®</sup>





**Creo is the industry's leading 3D CAD Software. We've been at the cutting-edge of CAD for over 30 years helping you create great digital prototypes.**

If you're looking for speed and flexibility to meet your tight deadlines or are in the initial stages of your concept design, our products let you create prototypes quickly and easily.

**Creo gives you all the tools you need in one place to help YOU innovate.**

To find out more about Creo, [contact sales here](#).





It's no secret that you're under pressure to develop more and better products in less time. Your 3D CAD solution should enable your best work, allowing you to make the most of innovative ideas quickly and to add advanced capabilities when you need them. The tool you need is Creo.

PTC delivers the most scalable range of 3D CAD product development packages on the market today. Creo packages are easy to use, competitively priced, and always upgradeable so they meet your specific engineering design needs and varied business requirements as you grow. Creo. Never compromise.

# 1 Improve Design Communication and Collaboration with Augmented Reality

Augmented Reality is changing the way companies interact with their product designs. When you're designing a product, two dimensions simply aren't enough. But Creo doesn't stop at 3D. By bringing the digital and physical worlds together, the AR capabilities in Creo Parametric allow you to experience your product in a real-world environment at true scale. For design teams, this makes design review and information sharing more effective and efficient - especially if team members are miles apart.

Creo AR Design Share extends the free AR capabilities available in Creo by adding full control over AR experiences. It allows you to publish, share, and control who can author and access AR experiences, both inside and outside of your company. To top it all, Creo AR Design Share is scalable. Need to add capabilities as your needs change? No problem.





## 2 Work More Efficiently with Parts and Assemblies

No part design is beyond Creo, and loading assemblies shouldn't be like playing a game of chance. With [Creo Parametric](#) you can retrieve your assembly and get started faster. When the assembly loads, you see a simplified representation. The software loads the relevant detail you need when you need it. Search your model tree with a single right click.

Use 'view changes' to quickly and easily find what's been modified in your assembly. It's just as easy to restructure, rename, or reorder components. Finally, the component placement constraints and 3D Dragger offer more intuitive workflows. Just think what you'll create with the extra time you have.

### 3 Easily Transform Your 2D Concepts into 3D Models

Your concept designs deserve better than a napkin. Capture your inspirations with [Creo Sketch](#) (a free download), and when you're done, transfer your ideas to Creo Parametric. Directly open your sketch onto a plane and display it along with other 2D and 3D geometry. You can easily move, rotate, and even scale the sketch. Who knows what you'll design thanks to this accelerated process?





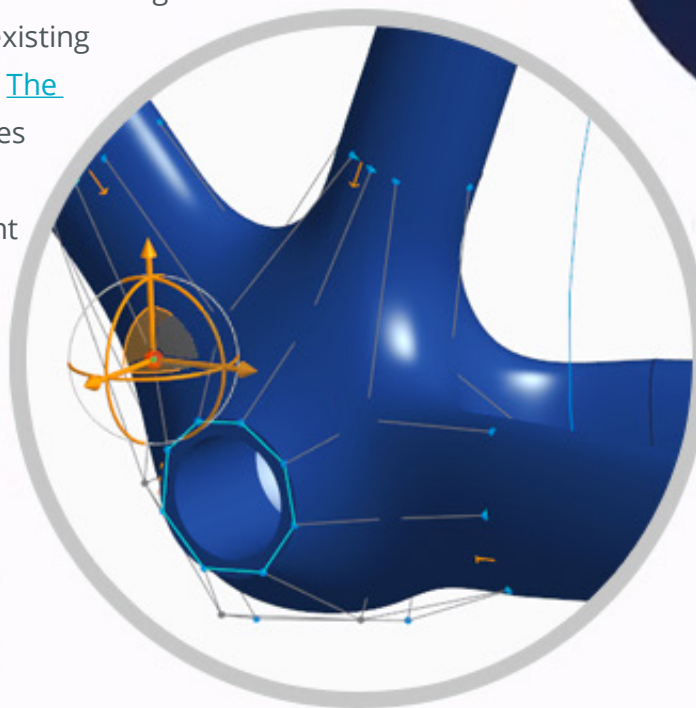
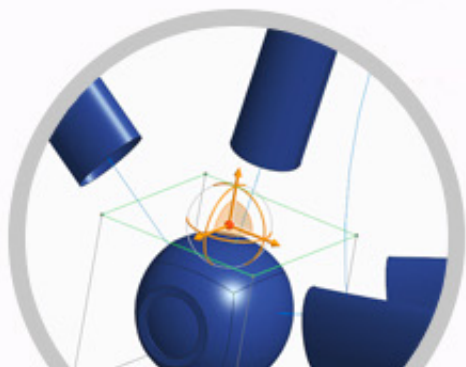
## 4 Conquer Late Stage Design Changes

You still remember the name of the guy from Marketing who needed that design change on a Friday afternoon. Thanks to [flexible modeling capabilities in Creo](#), you can accommodate even the most radical late-stage design changes. Quickly. Never again get stuck rebuilding a model because you couldn't update it without breaking the original constraints. Instead, select and edit geometry and then head off for vacation knowing that the entire design will automatically update. Save time, reduce errors, and send Marketing a post card.



## 5 Quickly Create Freeform Shapes and Surfaces during Concept Design

You don't need to be a ceramic artist to appreciate how fun and easy it is to model forms with clay. You just pick it up and start shaping something. We've designed the Freestyle modeling features inside Creo Parametric to give you much the same experience. Start with a primitive shape, like a cube or a sphere, and use intuitive tools to push and pull until you have the design you want, complete with curvature continuous production ready surfaces. If you're designing something like the pedal location geometry for a bicycle, you'll need to align your freeform geometry directly to existing parametrically controlled geometry. [The Align capability inside Freestyle](#) makes this easy. A few clicks and you're done. You've just added design intent to freestyle geometry and saved significant time as well.





## 6 Overcome the Challenges of Your Multi-CAD Environment with Unite Technology

Do you consider a career change each time a customer or supplier sends you a model on a different CAD system? With [Creo's Unite technology](#), you can open data from common CAD systems directly into Creo. No need to import and convert data you are not changing and no need for the original authoring CAD system. Instead of worrying about lost design intent, you'll be enjoying the benefits of collaboration: product quality, desirability and on-time delivery. The Creo Collaboration Extensions make your job even easier. You can integrate updates to non-Creo data seamlessly as well as exchange Creo models in the most common CAD formats (including CATIA, Siemens NX, and SolidWorks) without the presence of licenses from these software systems.





## 7 Master Creo Functionality with PTC University

We think the letters P, T and C spell CAD. We also want you to get the most from the software, so Creo ensures that, whatever your goals, you are able to learn quickly. For example, when you start the software, you will now see a dedicated window with all the new content in your release. Our Getting Started tutorials and guides have also been included to give new users a jumpstart.

You'll find that Creo Parametric has a revamped help system built on Google® indexing. Help is now fully searchable on the web, offering faster access to information when combined with the PTC Learning Connector, a context-sensitive learning tool embedded in Creo. Learn on the fly without interrupting your workflow.



# 8 Be Confident in Your Ability to Adapt with Creo's Scalable Software

Nobody ever wants less closet space and it's the same with software. You know Creo offers strategic design advantages: a suite of product design tools with a broad range of capabilities ranging from simulation to computer aided manufacturing and product data management.

Just as important, your [Creo package is fully customizable](#). Mix and match to meet your own changing needs or to support your expanding organization. You will never outgrow Creo.

**Creo® Parametric Essentials Packages**  
Design smarter with powerful, easy-to-use 3D CAD solutions

PTC's 3D CAD product design solution, Creo Parametric, gives you the right tools to achieve the highest quality designs in the fastest possible time. After all, that's not just any product - it's yours. And when you subscribe to a Creo Parametric Essentials package, you ensure that you always have the latest capabilities, premium support, and the flexibility to choose exactly what you need. With Creo Parametric Essentials, you'll be more productive than ever thanks to the industry's most robust 3D product design toolset and exciting new functionalities.

**Essentials Packages**

- Augmented Reality**
  - Share your design with anyone
  - Engaging design reviews made simple
  - Author and publish an AR experience right from Creo - then download the free ThingWorx View app to see it
  - Summon a 3D version of your product with a few clicks
- 3D Part & Assembly Design**
  - Create precise geometry, regardless of model complexity
  - Quickly build robust engineering features such as rounds, chamfers, holes, and more
  - Create design variants using family tables
  - Smarter, faster assembly modeling performance
  - Static and dynamic interference detection
- Automated 2D Drawing Creation & Update**
  - Create 2D and 3D drawings according to international standards, including ASME, ISO, and JIS
  - Automate the creation of drawings with templates
  - Automatically create associative bill of materials (BOM) with balloon notes
- Multi-CAD data Exchange (Unite Technology)**
  - Incorporate non-Creo data directly into your designs easily and quickly
  - Work with a number of standard file formats including STEP, IGES, DXF, STL, VRML, AutoCAD DWG, DXF (import of 3D with associated 2D), ACIS import/export, Parasolid import/export
  - Using Unite technology, convert data from other CAD systems including: CATIA, Siemens NX, SolidWorks, Autodesk Inventor, Solid Edge
- Parametric & Freestyle Surfacing**
  - Develop complex surface geometry using sweeps, blends, extends, offsets, and a variety of other specialized features
  - Quickly create freeform shapes and surfaces using sub-divisional modeling capabilities
  - Parametrically control Freestyle geometry by aligning to existing curves or edges with tangency control

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**Essentials Packages**

**Creo Parametric Essentials Packages - At a Glance**

	ESSENTIALS PREMIUM	ESSENTIALS PLUS	ESSENTIALS
3D Part & Assembly Design	•	•	•
Automated 2D Drawing Creation & Update	•	•	•
Multi-CAD data exchange (Unite Technology)	•	•	•
Parametric & Freestyle Surfacing	•	•	•
Assembly Management & Performance Tool	•	•	•
Sheet Metal Design	•	•	•
Mechanism Design	•	•	•
Plastic Part Design	•	•	•
Structural Framework & Weld Design	•	•	•
Realistic Rendering and 3D Animation	•	•	•
Direct Modeling (Flexible Modeling)	•	•	•
Basic Part Analysis	•	•	•
Intelligent Fastener Design	•	•	•
3D Printing	•	•	•
Augmented Reality	•	•	•
<b>SUBSCRIPTION BENEFITS</b>			
Design Exploration	•	•	•
Human Factors Design	•	•	•
Standard eLearning Library	•	•	•
Extended License Borrowing	•	•	•
Home Use	•	•	•
Performance Advisor	•	•	•
Securely vault all product data	•	•	•
Powerful Search tools	•	•	•
Revision Control	•	•	•
Structural Analysis for Parts & Assemblies	•	•	•
Motion Analysis	•	•	•
Piping/Tubing Design	•	•	•
Cabling/Wiring Design	•	•	•

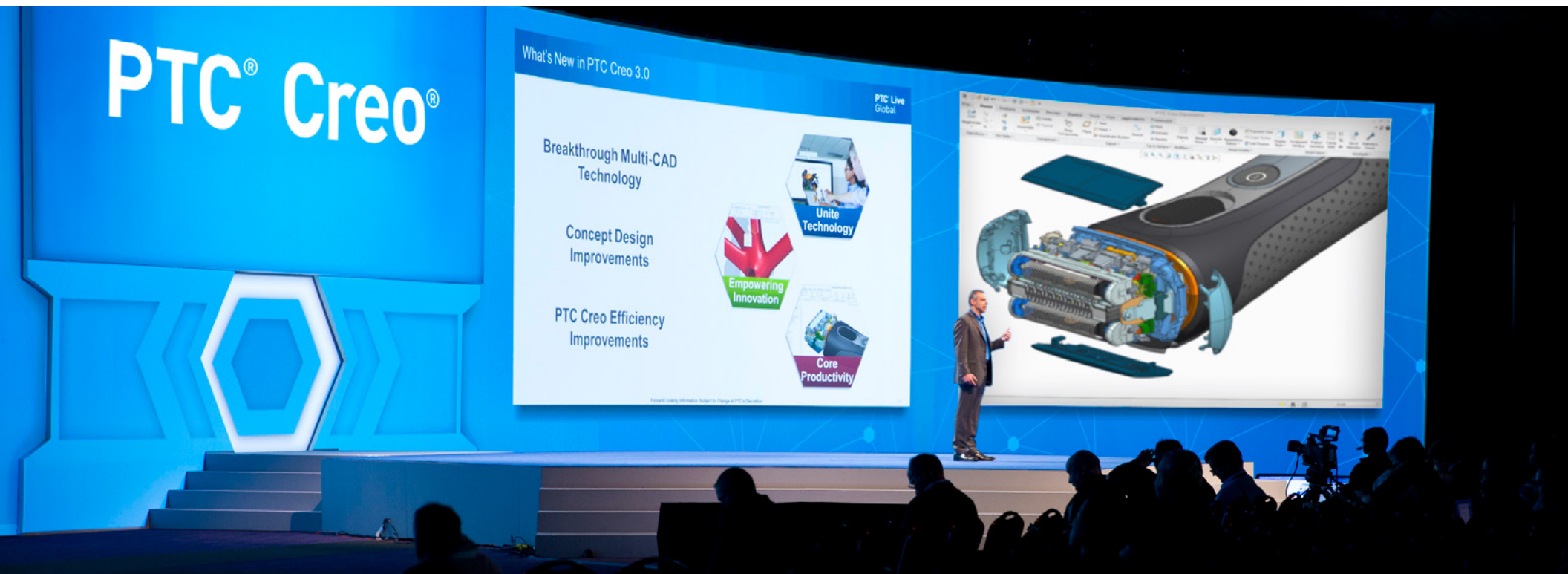
• Additional functionality when you subscribe to Creo

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# Trust the Creators of Innovative 3D CAD Solutions

We invented 3D parametric CAD. We know that design professionals can't risk having tools that jeopardize their product, process, or productivity. With Creo, you never compromise. Tens of thousands of organizations worldwide rely on Creo to give them the newest, most innovative 3D

CAD capabilities for their detailed design process. Whatever the design tasks, the Creo software package can make the job quick and easy, leaving you – and everyone on your team – free to focus on realizing the creative potential that will move your business forward.



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# Try Creo Parametric today with a FREE 30 day trial!

The most robust, scalable 3D product design toolset with more power, flexibility, and speed to help you accelerate your entire product development process.

[Start Your Trial Today](#)