PTC Creo 3.0 Now Available



Upgrade to bring your team to the next level!

- PTC Creo 3.0 Schools edition is now available to all FIRST teams
- To register go to: http://www.ptc.com/go/creoforstudents
- Standalone and Lab (floating) licenses are available

 We plan to start the webinar at 7 PM. In the meantime, we hope you enjoy our silent pre-webinar slideshow as people join!

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PTC Creo 3.0

Design Better Products, Faster



What's new in PTC Creo 3.0?



Concept Design Improvements





Concept Design Improvements



Unite Technology



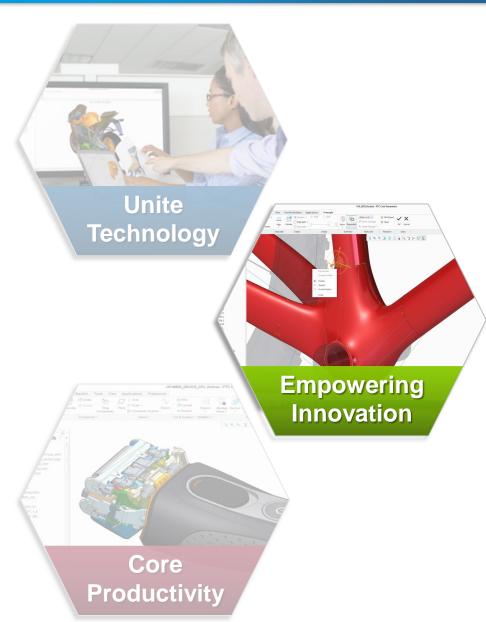
Enabling Optimal Multi-CAD Collaboration and Consolidation

- *Import* all common 3D CAD formats
 - SolidWorks, CATIA, NX, Inventor, SolidEdge
- Open key competitive 3D CAD formats
 - SolidWorks, NX, and CATIA
- Automatically update new versions of non-PTC Creo data within your designs
- Save As key competitive 3D CAD formats
 - SolidWorks, NX, and CATIA formats





Concept Design Improvements

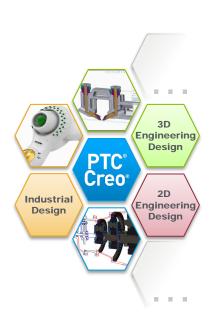




Dedicated tools for concept development that support the seamless flow of design intent into the detail design process.

EMPOWERING INNOVATION

92% OF PEOPLE SAY THEY
WOULD BENEFIT IMMENSELY
BY EXPLORING MORE
CONCEPT DESIGN
ALTERNATIVES¹



Industrial Design with Freestyle

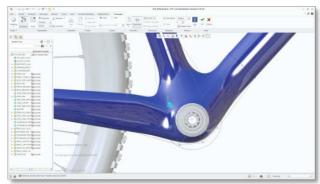
Capabilities

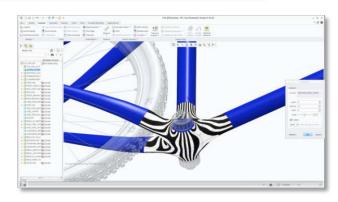
- Rapid freeform surface creation
- Direct manipulation with 3D dragger
- NEW! Parametric control over freeform geometry
- Trim, merge, round, thicken, solidify to make the model solid
- NEW! Join faces and edges
- High quality, curvature continuous, manufacturable surfaces

Benefits

- Quickly create the highest quality and most innovative products
- Accelerate concept design
- Generate more proposed concepts





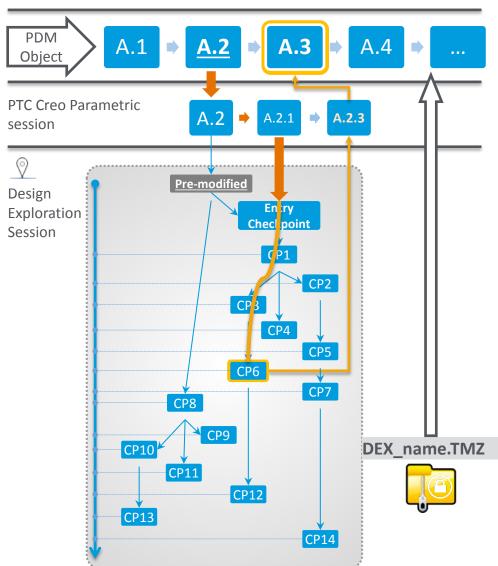




Quickly iterate parametric designs with PTC Creo Design Exploration Extension (DEX)

What is DEX?

- A dedicated environment for enabling the quick and easy investigation of alternative concept designs within the parametric environment
- A significant enhancement to the process of developing design alternatives, investigating modeling approaches and safely understanding the consequences of design changes



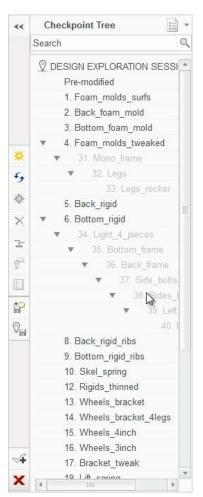
PTC Creo Design Exploration Extension

Capabilities

- Create unlimited checkpoints and branches of design alternatives
- Instantly toggle between checkpoints
- Save all checkpoints in a lightweight format for later reference
- Store and access DEX data at any time

Benefits

- Explore design changes safely without risking original designs or committing to any change
- Simultaneously develop different ideas and evaluate all options before making decisions
- Eliminate manual data duplication and tedious session clean-up for loading and reloading different versions
- Browse exploration checkpoints in a "decision tree" for interactive design review







Engineering
Design

Engineering

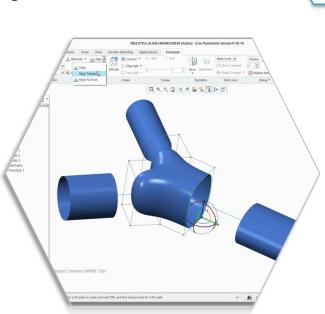
Creo

Industrial

Design

Benefits

- Seamless Interoperability
 - Use data across 2D & 3D, direct and parametric environments
- Flexibility and Control
 - Combine freeform and parametric modeling
- Support RFQ efforts
 - Quickly develop 3D concepts using direct modeling that can be used in a parametric environment
- Quickly Evaluate Design Alternatives
 - Dedicated 'Sandbox' environment supporting the development of design alternatives or design approaches





Concept Design Improvements

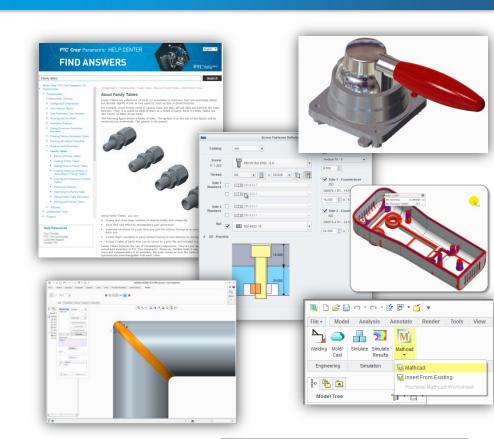


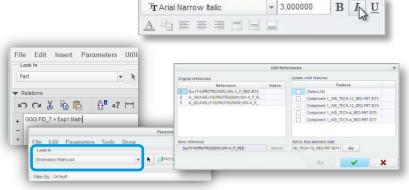
PTC Creo Core Productivity Improvements

PTC

Enhancements in PTC Creo Parametric

- New Getting Started Experience
- Integrated Hardware Libraries
- Chordal Round
- New PTC Mathcad Integration*
- Redesigned Reroute
- New 3D Thickness Check
- Graphical Realism
- New Note Creation Tools and Workflows





PTC Creo Parametric Core Productivity Improvements

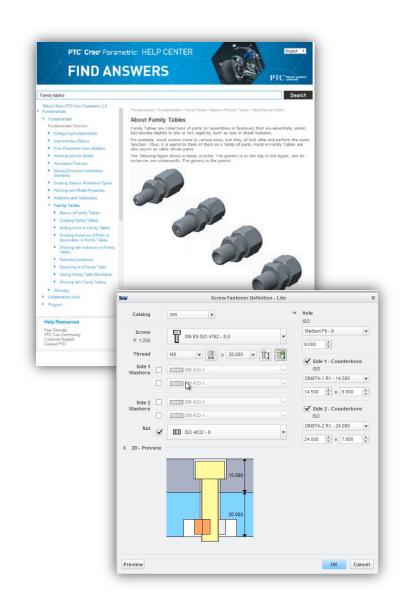


New Getting Started Experience

- Revamped Help, Google indexed and searchable on the web
- Startup Tutorials shipped with the product
- Additional tutorials downloaded through Learning Exchange
- 100+ What's New Videos available on Learning Exchange

Integrated Hardware Libraries

- Nuts, Bolts, Washers, Screws
- Auto hardware selection.
- Auto counterbore
- Pattern placement



PTC Creo Parametric Core Productivity Improvements



Chordal Round

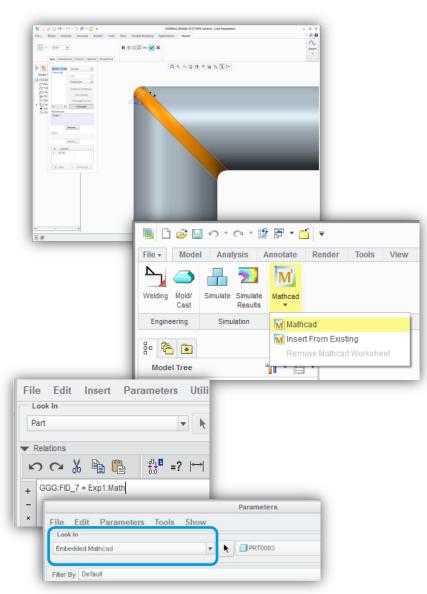
Constant width useful for many cases

New PTC Mathcad Integration

- Mathcad Express is shipped with every seat of PTC Creo Parametric.
- Embed Mathcad worksheet in any PTC Creo part or assembly
- Connect input/outputs from Mathcad to parameters in PTC Creo Parametric

Redesigned Reroute

- Reroute simplified
- Broader power easily transition to multifeature reroute
- Retained image of lost references available to guide selection of new references

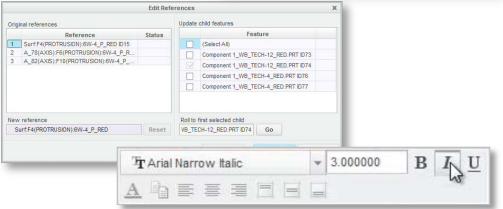


PTC Creo Parametric Core Productivity Improvements



- New 3D Thickness Check
- Graphical Realism
- New Note Creation Tools and Workflows
 - Properties floating dashboard
 - Simple note import
 - Easy parameter mapping no special syntax needed





PTC Creo Core Productivity Improvements



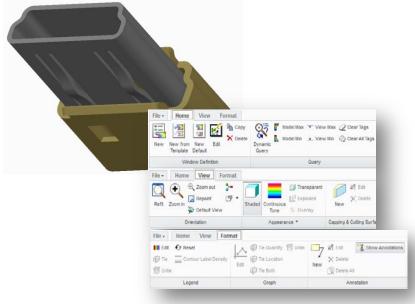
Outside of Core PTC Creo Parametric, PTC Creo Layout and PTC Creo Direct

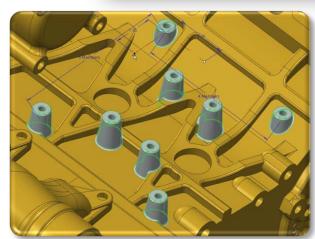
PTC Creo Simulate

- Sliding Contact with Friction
 - Finite friction for individual contact interfaces
 - Different coefficients for Static and Dynamic friction
 - Automatic calculation of maximum tangential traction, normal force, contact area, slippage coefficients
- Contact between intent surfaces
- All new results creation workflows and user experience

PTC Creo Flexible Modeling Extension

- Tangency propagation control
 - Includes Round/Chamfer handling
- New Flex Pattern





Exploring New PTC Creo Capabilities



