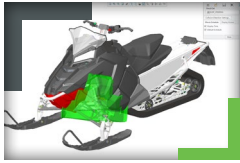


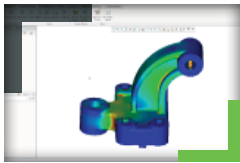
# >>> SIMULATION CAPABILITIES IN CREO

Designed uniquely for the engineer, Creo puts easy-to-use simulation and analysis software at your fingertips.



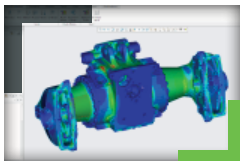
## >>> CREO >

*In every seat, mechanism design tools give you the ability to investigate the model's kinematic behavior by using joints and drivers, checking for interference, and developing motion envelopes.*



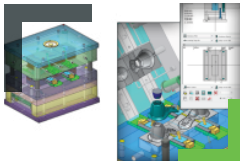
## >>> CREO SIMULATION LIVE POWERED BY ANSYS\* >

*Speed up the process of design with real-time-feedback on your design decisions as you model without leaving CAD. Iterate faster and design with more confidence.*



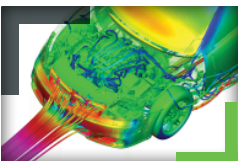
## >>> CREO SIMULATION >

*Modal and buckling analysis; steady state thermal analysis; design optimization; and contact analysis; enhance your simulation abilities with results display & reporting.*



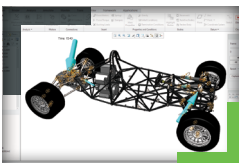
## >>> CREO ADVANCED SIMULATION >

*Add more functionality with advanced finite element idealizations; nonlinear analysis & large deformation; dynamic and pre-stress analysis; and transient thermal analysis.*



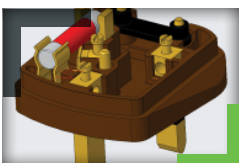
## >>> CREO FLOW ANALYSIS >

*Complete computational fluid dynamics (CFD) solution made for the design engineer.*



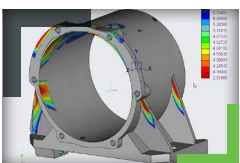
## >>> CREO MECHANISM DYNAMICS OPTION >

*Analyze how your product will behave given real-world forces such as gravity and friction.*



## >>> CREO CLEARANCE & CREEPAGE >

*Improve design quality by helping to optimize designs for electrical product safety.*



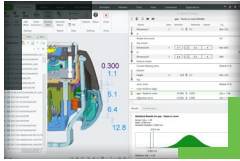
## >>> CREO FATIGUE ADVISOR >

*Analyze how your product performs under repeated loading and unloading.*

*\* Please note that ANSYS-powered products are not eligible for Remix or Restack*

## >>> THE CREO ADVANTAGE:

Creo is a 3D CAD solution that helps you build better products faster by accelerating product innovation, reusing the best of your design and replacing assumptions with facts. Go from the earliest phases of product design to a smart, connected product with Creo. And with augmented reality in each seat of Creo, everyone can easily visualize your designs. In the fast-changing world of the Industrial IoT, no other company can get you to substantial value as quickly and effectively as PTC.



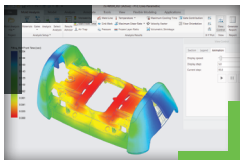
### >>> CREO EZ TOLERANCE ANALYSIS >

*Easily evaluate the impact of tolerances and dimensioning schemes by building powerful tolerance stack-up and gap analysis directly within your 3D CAD model.*



### >>> CREO HUMAN FACTORS ANALYSIS >

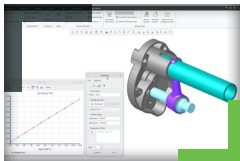
*Insert digital human models into your designs to investigate ergonomic and human factors issues.*



### >>> CREO MOLD ANALYSIS >

*Simulate the injection molding of plastic parts.*

## >>> ADDITIONAL FUNCTIONALITIES



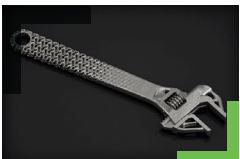
### >>> CREO BEHAVIORAL MODELING >

*Delivers three key capabilities to get you to the best design: design studies, smart models, and an open extensible environment that uses calculated results from other programs.*



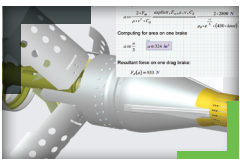
### >>> TOPOLOGY OPTIMIZATION >

*Achieve a single design optimized for shape and material by setting design criteria, goals, and objectives, and then letting the software take over.*



### >>> GENERATIVE DESIGN >

*Specify your design requirements, and this AI-enabled technology automatically creates a set of optimal designs for you to use as a starting point or as a final design.*



### >>> PTC MATHCAD >

*This engineering math software has live mathematical notation, units intelligence, powerful calculation capabilities, and can be part of your CAD model. Even better, present your calculations with plots, graphs, text, and images in a single document.*

Please visit the [PTC support page](#) for the most up-to-date platform support and system requirements.

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