

# Creo™ Elements/Pro™ Packages

ONE PLATFORM. MAXIMUM POWER. ANY SIZE COMPANY.

Formerly Pro/ENGINEER®

Creo Elements/Pro Foundation XE    Creo Elements/Pro Advanced SE    Creo Elements/Pro Advanced XE    Creo Elements/Pro Enterprise SE    Creo Elements/Pro Enterprise XE

	Creo Elements/Pro Foundation XE	Creo Elements/Pro Advanced SE	Creo Elements/Pro Advanced XE	Creo Elements/Pro Enterprise SE	Creo Elements/Pro Enterprise XE
<b>3D Detail Design/Part Modeling</b>					
Solid, sheetmetal, weld, framework and digital human modeling	●	●	●	●	●
Support for 3D drawings and annotations per new ASME Y14.41 standard	●	●	●	●	●
Design validation with PTC's ModelCHECK™	●	●	●	●	●
3D cabling and piping design			○	●	●
<b>Surfacing</b>					
Advanced parametric surfacing	●	●	●	●	●
Global modeling and warp surface modification	●	●	●	●	●
Interactive surface design for creating complex surfaces, G2 continuity			○	●	●
<b>Assembly Modeling</b>					
Embed form, fit and function knowledge with AssemblySense™	●	●	●	●	●
Flexible models; single BOM entry for multiple geometry states	●	●	●	●	●
Simplified representations and Shrinkwrap™ which protects intellectual property and reduces file size	●	●	●	●	●
Advanced assembly with top-down design, process planning, design for manufacturability, and 2D associative process sheets			○	●	●

● Included in package. ○ Package option. ● Lite structural analysis capabilities included.

	Creo Elements/Pro Foundation XE	Creo Elements/Pro Advanced SE	Creo Elements/Pro Advanced XE	Creo Elements/Pro Enterprise SE	Creo Elements/Pro Enterprise XE
<b>Interoperability and Data Exchange</b>					
Incorporation of Web Services for native Web connectivity	●	●	●	●	●
Imported data repair	●	●	●	●	●
Multi-platform support including Windows/Solaris/HP-UX	●	●	●	●	●
Support for all major standards such as STEP/IGES/DXF/STL/VRML, AutoCAD DWG, DXF (import of 3D with associated 2D), ACIS import/export, Parasolid import/export*	●	●	●	●	●
<b>Rendering and Simulation</b>					
Real-time photorendering	●	●	●	●	●
Design animation with movies, motion envelopes, and interference checking	●	●	●	●	●
Mechanism kinematics design with click-and-drag animation	●	●	●	●	●
Mechanism dynamics simulation of force, velocity, acceleration, torque			○	●	●
Advanced behavioral modeling for product design and optimization			○	●	●
Structural and thermal simulation	●	●	●	●	●
Engineering calculations (Mathcad)					●
Tolerance Analysis (Creo Elements/Pro Tolerance Analysis Extension powered by CETOL Technology)					●
<b>NC and Tooling</b>					
2.5-axis milling	●	●	●	●	●

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**Collaboration and Project Management**

A secure project workspace for collaboration with global team members

● ●

Project management and execution that controls action items, milestones and deliverables

● ●

**Digital Product Data Management and Process Control**

Creo Elements/Pro CAD data management

● ● ● ●

Broad enterprise product data management \*\*

● ● ● ●

Automated change management process\*\*

● ● ● ●

Configuration management \*\*

● ● ● ●

Digital Rights Management (Creo Elements/Pro Rights Management Extension)

●

● Included in package. ○ Package option. ● Lite structural analysis capabilities included.

\* Support for import and export of CATIA® V4, CATIA V5 and UG®, including PTC’s patented Associative Topology Bus™ can be purchased separately.

\*\* Available only with Windchill PDMLink. Data management support for other MCAD/ECAD data can be purchased separately.

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