

Education Editions Comparison Chart

FOR UNIVERSITY CUSTOMERS ONLY

Student Edition: One-year license available to all students. Download for free here.

Student Premium Edition: One-year license for home use.
Available in bundles via our partners or individually via the PTC e-store.

University Plus Edition: One-year campus-wide license of all Creo applications including Creo Elements/Direct. For teaching and non-funded research only.

| Creo Product Features | Student Edition (Free Individual License) | Student Premium Edition (Paid Individual License) | University Plus Edition (Paid Campus License) |
|---|--|--|--|
| Creo Parametric™ – The essential integrated 3D CAD/CAM/CAE solution offering the most robust product design toolset with the ability to create parts, assemblies and drawings that can be directly published into AR | Yes | Yes | Yes |
| Multibody Design - Powerful new workflows will empower generative design, real-time simulation, additive manufacturing and core product design | Yes | Yes | Yes |
| Creo Simulation Live™ - The Creo Simulation Live is an integration of ANSYS Discovery technology into Creo, enabling near instantaneous static structural, thermal and modal (vibration) simulation | No | Yes | Yes |
| Creo Direct™ – Easy-to-use flexible solution that gives users the ability to create and edit 3D CAD data using a direct modeling approach. | Yes | Yes | Yes |
| Creo Simulate™ – Enables 3D virtual prototyping to test a range of structural and thermal properties of a design early in the detailed design process. | Lite | Extension | Lite |

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|--|-----------------|-------------------------|-------------------------|
| Creo Freestyle – Capabilities to speed the creation high-quality freeform surface geometry | Yes | Yes | Yes |
| Creo Layout™ – Create 2D conceptual layouts and reuse the 2D layout to build 3D models. | Yes | Yes | Yes |
| Creo Schematics™ – Create 2D schematic designs quickly and easily, enabling complete system documentation. Includes capabilities for wiring, piping, and hydraulic schematics. | No | Yes | Yes |
| Creo Illustrate™ – Easily convey complex products and procedures graphically with 3D, interactive illustrations and animations. Create visual representations of service parts and kits to increase accuracy. | Basic | Standard | Professional |
| Creo MCAD View™ – Quickly examine and distribute mechanical CAD models to gain valuable engineering design insight. | No | Yes | Yes |
| Additive Manufacturing Extension (AMX) - Create parametrically controlled 2.5D and 3D lattice structures for 3D printing. | Basic | Basic | Plus |
| Generative Design - Create the best possible designs based on engineering and manufacturing requirements. | No | No | Plus |
| Flow Analysis (CFD) - An easy to use computational fluid dynamics simulation tool built specifically for engineers and designers. | No | No | Premium |
| Creo Render Studio - Real-time rendering of scenes and appearances such as lights, High Dynamic Range Image (HDRI) environments, and textures. | No | Yes | Yes |

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| Flexible Modeling – Fast, flexible 3D direct editing in a parametric environment. Allows users to easily select and edit a range of geometry and features without losing any design intent. | Yes | Yes | Yes |
| Advanced Framework™ – Faster creation of bolted or welded metal structures with powerful dedicated features, dynamic assistant, and libraries of components and profiles. | Lite | Yes | Yes |
| Advanced Assembly – Manage components and sub-assemblies for top-down design. | Yes | Yes | Yes |
| Mechanism Dynamics – Simulate and validate the behavior of a mechanism, realistically taking into account the mass of its components, forces, inertia, friction, springs, joint reactions. | Yes | Yes | Yes |
| Behavioral Modeling® – Measure how the product design will react to various real-world elements, such as environmental conditions. | Lite | Yes | Yes |
| Manikin – Insert, customize, and manipulate 3D human models in a design. | No | Yes | Yes |
| Manikin Analysis – Insert accurate human models into your 3D CAD product models and analyze human-product interactions. | No | Yes | Yes |
| ECAD-MCAD Collaboration – Provides the necessary tools for a collaborative design between Mechanic CAD (MCAD) and Electronic CAD (ECAD), in real time. | No | No | Yes |
| Legacy Data Migration (LMX) – Enable Creo Parametric users to associate 2D drawings to 3D models imported from a 3rd party CAD system. Helps automate the process of mapping and linking the 2D drawings to the 3D model. | Yes | Yes | Yes |

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| Spark Analysis – Detect and document the risk of electrical arcing in an electromechanical analysis. | No | Yes | Yes |
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| NC Sheetmetal™ – Create, verify and process tool paths for turret punch presses and contouring laser or flame machines. | No | Yes | Yes |
| Plastic Advisor™ – Simulate plastic-filling process for injection-molded parts. | No | Yes | Yes |
| Expert Moldbase™ – Simple, process-driven workflow creates automated moldbase design and detailing. | No | Yes | Yes |
| Tool Design Extension (TDO) – Automated parting surface creation and automated splitting make it easy to create complex tooling quickly. | No | Yes | Yes |
| Complete Mold Design – Core, cavity and moldbase design capabilities. | No | No | Yes |
| Progressive Die – Enables the rapid and automated creation of cutting tools and dynamic libraries. | No | Yes | Yes |
| Creo Sketch™ – The fastest and easiest way for students to contribute ideas graphically, capture and share 2D designs, and directly leverage the data in other Creo apps. | Yes | Yes | Yes |
| Creo Design Reuse & Automation – Automatically create part variants using design rules and family tables functionality | No | Yes | Yes |

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| Creo Product Insight - Design for connectivity to capture relevant data streams and return real-world data from physical objects | No | No | Yes |
| Human Factors Extension - Validate and optimize products for human interaction, usability and safety | No | Yes | Yes - Analysis |
| Augmented Reality - AR Setup, Publishing, Distribution and Viewing via Vuforia View | Creo AR – Basic | AR Design Share | AR Design Share |
| Creo Unite - Capabilities to support multi-CAD Collaboration and Consolidation. Directly import CATIA V4/V5, SolidWorks, Solid Edge and Inventor formats. Directly open CATIA V4/V5, SolidWorks and Siemens NX data | Yes | Yes | Yes |
| Creo Import Data Doctor (IDD) - Automate the “repair” and “clean-up” of imported geometry. Tools to Repair, Modify and Featurize imported geometry | No | Yes | Yes |
| Creo Surfacing - Define parameter and constraint driven entities to create complex free-form and analytical surfaces | No | Yes | Yes |
| Creo Weld Design - Accurately define weld geometry and the associated weld fabrication documentation | No | Yes | Yes |
| Creo Plastics Design - Specialized features to speed the creation and analysis of plastic and “thin walled” parts | No | Yes | Yes |
| Creo 2D Detailing & Documentation - Specialize capabilities to manage component display and system performance | No | Yes | Yes |

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| Creo 3D Annotations (MBD) - Define a single source of truth for design, manufacturing and process information | Yes | Yes | Yes |
| Manufacturing Extension - The manufacturing solution is selected based on machine tool type (i.e., mill, turn, wire EDM), the complexity of geometry and the complexity of toolpath programming | No | Production Package | Complete Package |
| Creo GD&T Advisor - Simplify GD&T creation and improve MBD compliance with latest standards (ASME & ISO) | Basic | Basic | Plus |
| Creo Interactive Surface Design (ISDX) - Combine the power of parametric modeling and flexibility of freeform surfacing | No | Yes | Yes |
| Creo Reverse Engineering Extension (REX) - Reverse engineer 3D CAD models from prototype scan data | No | Yes | Yes |
| Creo Design Exploration Extension (DEX) -Rapidly create and explore concepts and modeling alternatives | No | Yes | Yes |
| Creo Piping & Cabling Extension (PCX) - Create and optimize routings for cost, manufacturability and service | No | Yes | Yes |
| Creo Harness Manufacturing Extension (HMX) - Simplify and automate the creation of harness manufacturing documentation | No | Standard | Advanced |
| Creo Clearance & Creepage Analysis Extension (CCX) - Analyze and optimize designs for electrical product safety | No | Yes | Yes |

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| Creo Behavioral Modelling Extension (BMX) - Rapidly optimize geometry to solve for design goals and engineering criteria | Yes | Yes | Yes |
| Creo Mechanism Dynamics Option (MDO) - Analyze and optimize the dynamic performance of mechanism designs | No | Yes | Yes |
| Creo Intelligent Fastener Extension (IFX) - Capabilities to automate fastener geometry creation and hardware assembly | No | Yes | Yes |