Topic Sheet

PTC®

PTC Creo™ Elements/Direct™ Modeling Express

Edition Comparison Chart

Learn how upgrading to PTC Creo Elements/Direct Modeling 19.0, the leading direct 3D CAD design software, can deliver faster design cycles and responsiveness to change throughout your design process.

Direct Modeling	PTC Creo Elements/ Direct Modeling Express 6.0	PTC Creo Elements/Direct Modeling 19.0
Work with assemblies, parts, surfaces and wireframe models	●	●
Create and edit models using direct drag-and-drop techniques	●	●
Modify models using commands such as mirror, stretch and scale	●	●
Create and edit assemblies using either a top-down or bottom-up approach	●	●
Designing Sheet Metal Parts		
Design 3D sheet metal parts in either the folded or flat pattern		●
Create and modify bends and lips, including corner and bend reliefs		●
Fold and unfold sheet metal parts with automated flats generation and animation		●
Handling Assemblies		
Create assemblies that have unlimited unique parts	Max 60	●
Share assemblies and parts; create once and share multiple instances	●	●
Manage and edit assemblies using the same drag-and-drop techniques used with files and folders	●	●

Associative 2D Drawings	PTC Creo Elements/ Direct Modeling Express 6.0	PTC Creo Elements/Direct Modeling 19.0
Automatically create associative 2D drawings from 3D models	●	●
Update 2D drawings and dimensions automatically when the 3D model has been modified	●	●
Export drawings with 2D IGES and Autodesk® DWF and DWG formats		●
Free access to PTC Creo Elements/Direct Drafting – a complete 2D design and drafting CAD system		●
3D Visualization		
Use enhanced realism to generate a realistic model impression with shadows and reflections	●	●
Apply real-time rendering by assigning material and scene attributes		●
Create photorealistic images with reflective material properties, lighting and background scenes		●
Define your own archive of rendering objects, such as sceneries and materials		●
Place images, such as logos and labels, on surfaces		●
3D Machining		
Create and modify machining features, such as outer threads and through holes		●
Create and modify patterns of geometric custom process features and plastic features		●
Data Exchange		
Import 3D geometry, and edit assemblies and parts automatically, as if the design data is native	●	●
Import STEP and 3D IGES formats	●	●
Export and publish VRML and STL formats	●	●
Export and publish eDrawings® files		●
Export STEP, 3D IGES, SAT (ACIS) and IDF (PCB IF) formats		●
Share 3D designs with PTC Creo		●

Interoperability with Creo Apps	PTC Creo Elements/ Direct Modeling Express 6.0	PTC Creo Elements/Direct Modeling 19.0
PTC Creo Parametric		●
PTC Creo Simulate		●
PTC Creo View MCAD		●
PTC Creo Illustrate		●
3D Documentation		
Create and edit 3D documentation, including notes, surface, welding and GD&T symbols		●
Export and share 3D documentation and non-geometric information with eDrawings files		●
Licensing		
Individual registered user license	●	
Activate license through Internet connection	●	
Floating license flexibility with PTC Creo Elements/Direct License Server		●
Languages		
English, German, Italian, Japanese, Simplified Chinese	●	●
French, Spanish		●
Add-on Modules		
PTC Creo Elements/Direct Cabling		●
PTC Creo Elements/Direct Surfacing		●
PTC Creo Elements/Direct Sheet Metal		●
PTC Creo Elements/Direct Advanced Design		●
PTC Creo Elements/Direct Mold Base		●
PTC Creo Elements/Direct Finite Element Analysis		●
PTC Creo Elements/Direct Part Library		●
PTC Creo Elements/Direct 3D Access		●

Integrated Data Management	PTC Creo Elements/ Direct Modeling Express 6.0	PTC Creo Elements/Direct Modeling 19.0
PTC Creo Elements/Direct Model Manager		●
PTC Creo Elements/Direct BOM Editor		●
PTC Creo Elements/Direct Task Agent		●
CAD Data Adapters		
Dassault Systèmes CATIA V4		●
Siemens NX™		●
Siemens I-deas®		●
Siemens Solid Edge®		●
Autodesk® Inventor™		●
Dassault Systèmes SolidWorks®		●
3D Publishing		
PTC Creo Elements/Direct Interface for Lattice® XVL		●
PTC Creo Elements/Direct Interface for Adobe® PDF		●
eDrawings Professional for PTC Creo Elements/Direct Modeling		●
Programming Interfaces		
Application integration interface		●
3rd-party application integrations		●
Professional Support		
Worldwide support centers		●
Phone and email support options		●
Software maintenance: major and minor releases		●
Access to online support and license exchange		●
Software updates via electronic download		●

Training	PTC Creo Elements/ Direct Modeling Express 6.0	PTC Creo Elements/Direct Modeling 19.0
Classroom training		●
Onsite training		●
PTC Creo Elements/Direct eLearning Library		
Consulting services		●
Implementation assistance		●
Product customization		●
Process optimization		●

Learn More

For more information, please visit: www.PT C.com/go/modelingexpress

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