

# Feature Comparison of PTC® Creo® View™ MCAD™ Product Suite

Feature Group	Feature	PTC Creo View Express	PTC Creo View Lite	PTC Creo View MCAD
User Interface	Microsoft Fluent paradigm	•	•	•
	Ribbon User Interface	•	•	•
Usage	Standalone version	•	•	•
Interoperability with PTC Products	PTC Windchill® PDMLink®		•	•
	PTC Windchill ProjectLink™		•	•
	Graphics Server			
Performance & Scalability	Massive Assembly Option(64-bit only)			•
	High performance Large assembly loading	•	•	•
	High performance Large assembly visualization	•	•	•
	High performance Massive assembly visualization			•
	Single scalable multi core ready architecture	•	•	•
	Highly efficient memory usage	•	•	•
Supported file formats	ED files	•	•	•
	EDZ files	•	•	•
	PVS files	•	•	•
	PVZ files	•	•	•
	OL files	•	•	•
	Drawing formats - CGM, Autodesk * (DWG, DXF, DWF, DWFx), HPGL (PLT, HPGL, HPG, HP2, HGL, GL2), PTC Creo Parametric (DRW, FRM, LAY, DGM, REP, SEC)	•	•	•
	Image formats (BMP, GIF, JPG, PNG, TIFF, JPEG, TIF, CG4, C4)	•	•	•
	PDF Documents	•	•	•
	Native reading of Pro/ENGINEER® parts, assemblies and drawings	•	•	•
	Native import of STL, VRML, DGN, GBF, IGES.			•
	Native import of JT files			•
	Native import of STEP files		•	•

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Viewing features	Document types handled	3D Models	•	•	•
		Drawings	•	•	•
		PDF Documents	•	•	•
		Images	•	•	•
	Navigation	Zoom	•	•	•
		Pan	•	•	•
		Rotate	•	•	•
		Spin Center	•	•	•
		Full Screen Display	•	•	•
	Other viewing features	Part Dragger	•	•	•
		View Layers		•	•
		Layer Groups, Layer search		•	•
		Multi Document Viewing	•	•	•
Navigation	View Gallery	•	•	•	
	Examine mode	•	•	•	
	Flythru mode	•	•	•	
	PTC Creo Parametric™ navigation mode	•	•	•	
Product Structure Navigation	Enhanced navigation mode	•	•	•	
	View Product Structure	•	•	•	
	Enhanced Product Structure navigation	•	•	•	
	Expand / Collapse branch	•	•	•	
	Expand / Collapse to specified levels	•	•	•	
	Unload component	•	•	•	
	Unload branch	•	•	•	
Groups	Hierarchical loading via 3D Thumbnails			•	
	Create and edit groups			•	
	View groups		•	•	
	Hide / Unhide / Isolate group		•	•	
	View parts contained in the group		•	•	
	Remove parts from the group			•	
	Delete Group			•	
	Rename group			•	
	Create Dynamic Groups			•	
	Modify Dynamic Groups			•	
Access Dynamic Groups		•	•		

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Annotation Sets	Create Annotation set		•	•
	Save Annotation set		•	•
	Delete Annotation set		•	•
	Show Annotation sets	•	•	•
Part Properties	Edit Appearance			•
	Edit Material			•
	Edit location			•
Redline / Markup	Create, Modify, View markups		•	•
	Enhanced markup palette	•	•	•
	Stamps		•	•
Repositioning tools	Mate			•
	Align			•
Measurements	Measure Distance	•	•	•
	Measure Radius	•	•	•
	Measure Diameter	•	•	•
	Measure angle	•	•	•
	Component Summary	•	•	•
Render mode	Shaded, Wireframe, HLR, Mesh modes	•	•	•
	Shaded with edges	•	•	•
	Mixed render modes		•	•
Sectioning	Create / Define section		•	•
	Show 2D section Window		•	•
	Show Section boundaries		•	•
	Flip direction		•	•
	Quarter cut		•	•
	Capped sections	•	•	•
	Export section as CGM			•
	Section selected parts			•
	Geometry-driven section placement		•	•
Export	Export into 2D image formats(.bmp, jpg, etc.)			•
	Export to IGES			•
	Save as PVS file			•
	Save as PVZ file			•
	Save as VRML, DXF			•
	Save as STEP			•
	Save as JT format			•

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Interrogation	Find	•	•	•
	Spatial Search			•
	Color coded advanced search			•
	Graphical definition of Search Volume			•
	Search by Component Size			•
Construction Geometry	Create Construction geometry (Point, Plane, Axis, Curve, Coords, Line)			•
	Import XML file containing CG			•
	Export Construction Geometry into an external XML file			•
	View existing Construction geometry	•	•	•
Lighting	Simple light source positioning			
Layers navigator	View Layers		•	•
	View Layer groups		•	•
	Hide / Unhide layers		•	•
	Filter Layers		•	•
Support for Model Based Design	Display Combination / Viewstates from Pro/ENGINEER or Capture States from CATIA V5	•	•	•
	Model annotations navigator		•	•
	View model annotations	•	•	•
	Hide / Unhide model annotations		•	•
	Highlight references (geometry, model annotations)		•	•
	Response surface highlighting	•	•	•
	Filter model annotations		•	•
BOM	Generate BOM			•
	Column Chooser for BOM			•
	Export BOM to CSV, HTML formats			•
Real time Collaboration	Peer to Peer Collaboration			
Smart Explode	Explode parts, assemblies			•
	Define and control the explosion			•
Email	Send PTC Creo View viewable via email as an attachment	•	•	•
	Send image via email as an attachment	•	•	•

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Product Structure editing	Insert a new Product Structure into the existing Product Structure			•
	Insert branch link (reference another PVS / ED file)			•
	Re-order Product Structure			•
	Delete product structure			•
	Save Product Structure			•
	Edit properties of Product Structure (Visual, Scale, Position)			•
	Create new Product Structure			•
Watermarking	Add watermark		•	•
	Delete watermark		•	•
	Include watermark while viewing		•	•
	Include watermark while printing		•	•
	Watermark Editor			•
Drawings	Display	•	•	•
	Measure		•	•
	Multi sheet viewing	•	•	•
	CGM export			•
	Drawing compare			•
Animation	Create Animations			•
	Edit Animations			•
	Playback Animations			•
	Import FRA (PTC Creo Elements/Pro® Frame files)			•
	Graphical manipulation of flight path			•
	Interaction with Windchill			•
	Define parameters for Animation tracks			•
Interference Analysis	Define basic interference parameters			•
	Define advanced interference parameters			•
	Calculate Interferences			•
	Analyze Interferences		•	•
	Compare Interference results		•	•
	Review Interference results		•	•
	Generate Interference Report - Summary		•	•
	Use Dynamic groups in Interference Checking			•
	Display Volume of Interference			•
	Tagging of Interference results			•
	Interaction with PTC Windchill			•
	Generate Interference Report - Detailed		•	•

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ECAD-MCAD Visualization	Cross selection between Electronic and Mechanical designs			
Toolkits	PTC Creo View Java Toolkit		•	•
	PTC Creo View Web Toolkit	•	•	•
	PTC Creo View Office Toolkit	•	•	•
Licensing	FlexLM license enabled			•
Supported Optional modules	PTC Creo View PDF Review Option		•	•
	PTC Creo View PDF watermark		•	•
	PTC Creo View JT Format Option			•
	PTC Creo View Validate for Model Based Design			•
	PTC Creo View Animator			•
	PTC Creo View Interference Analysis			•

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