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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	•	•	•
	User interface customization	•	•	•
	Command finder	•	•	•
Usage	Standalone version	•	•	•
Interoperability with PTC Products	PTC Windchill® PDMLink®		•	•
	PTC Windchill ProjectLink™		•	•
Performance & Scalability	Massive Assembly Option(64-bit only)*			•
	High performance Large assembly loading	•	•	•
	High performance Large assembly visualization	•	•	•
	Single scalable multi core ready architecture	•	•	•
	Highly efficient memory usage	•	•	•
Supported file formats	ED, EDZ, PVA, PVZ, and OL files	•	•	•
	2D Drawing formats - CGM, Autodesk (DWG, DXF, DWF, DWFx), HPGL (PLT, HPGL, HPG, HP2, HGL, GL2), PTC Creo Parametric™ (DRW, FRM, LAY, DGM, REP, SEC), DGN, and IGES		•	•
	3D Model formats - DGN and IGES		•	•
	Image formats (BMP, GIF, JPG, PNG, TIFF, JPEG, TIF, CG4, C4)		•	•
	PDF Documents	•	•	•
	Native reading of PTC Creo Parametric 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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Feature Group		Feature	PTC Creo View Express	PTC Creo View Lite	PTC Creo View MCAD
Viewing features	Document types handled	3D Models	•	•	•
		Drawings	•	•	•
		PDF Documents	•	•	•
		Images	•	•	•
	Navigation	Zoom	•	•	•
		Pan	•	•	•
		Rotate	•	•	•
		Spin Center	•	•	•
		Full Screen Display	•	•	•
		Support Stereo Projection			•
		Support touch-enabled devices	•	•	•
		Part Dragger	•	•	•
	Other viewing features	View Layers		•	•
		Layer Groups, Layer search		•	•
		Multi Document Viewing	•	•	•
		View embedded ITAR information (copyright markings)	•	•	•
		View Gallery	•	•	•
Navigation		Examine mode	•	•	•
		Flythru mode	•	•	•
		PTC Creo Parametric navigation mode	•	•	•
		Enhanced navigation mode	•	•	•
		CATIA™ V5 compatible navigation mode	•	•	•
Product Structure Navigation		View Product Structure	•	•	•
		Enhanced Product Structure navigation	•	•	•
		Expand / Collapse branch	•	•	•
		Expand / Collapse to specified levels	•	•	•
		Unload component	•	•	•
		Unload branch	•	•	•
		Hierarchical loading via 3D Thumbnails			•
Groups		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	View markups	•	•	•
	Create, Modify and Save		•	•
	Enhanced markup palette		•	•
	Create parametric markups		•	•
	Add GTOL		•	•
	Stamps		•	•
Repositioning tools	Mate			•
	Align			•
Measurements	Measure Distance	•	•	•
	Measure Radius	•	•	•
	Measure Diameter	•	•	•
	Measure angle	•	•	•
	Display mass properties		•	•
	Display envelope		•	•
	Component Summary	•	•	•
Render mode	Shaded, Wireframe, HLR, Mesh modes		•	•
	Shaded with edges		•	•
	Transparency			•
	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.)			•
	Save as PVS, PVZ, VRML, DXF, IGES or STEP file			•
	Save as JT format*			•

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Feature Group	Feature	PTC Creo View Express	PTC Creo View Lite	PTC Creo View MCAD
Search	Find	•	•	•
	Spatial Search			•
	Color coded visual reporting			•
	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	Edit lighting			•
Layers navigator	View Layers		•	•
	View Layer groups		•	•
	Hide / Unhide layers		•	•
	Filter Layers		•	•
Support for Model Based Design	Display Combination / Viewstates from PTC Creo Parametric 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		•	•
	Perform design checking*			•
	Review design checks		•	•
	Combined Printing of Combination / CaptureStates / ViewStates		•	•
BOM	Generate BOM			•
	Column Chooser for BOM			•
	Export BOM to CSV, HTML formats			•
Smart Explode	Explode parts, assemblies			•
	Define and control the explosion			•

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Feature Group	Feature	PTC Creo View Express	PTC Creo View Lite	PTC Creo View MCAD
Email	Send PTC Creo View viewable via email as an attachment	•	•	•
	Send image via email as an attachment	•	•	•
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 and Delete watermark		•	•
	Include watermark while viewing		•	•
	Include watermark while printing		•	•
	Watermark Editor			•
	Watermark PDFs*		•	•
Drawings	Display	•	•	•
	Measure		•	•
	Multi sheet viewing	•	•	•
	CGM export			•
	Drawing compare			•
	View results from drawing comparison		•	•
Animation	Create Animations*			•
	Edit Animations*			•
	Playback Animations*	•	•	•
	Import FRA* (Creo Parametric Frame files)			•
	Graphical manipulation of flight path*			•
	Interaction with PTC Windchill*			•
	Define parameters for Animation tracks*			•

Feature Group	Feature	PTC Creo View Express	PTC Creo View Lite	PTC Creo View MCAD
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*			•
	View results from Interference Service Management*			•
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	FlexNet license enabled			•
Supported Optional modules	PTC Creo View PDF Review Option*		•	•
	PTC Creo View PDF Watermarker*		•	•
	PTC Creo View JT Format Option*			•
	PTC Creo View Design Check*			•
	PTC Creo View Animator*			•
	PTC Creo View Interference Analysis*			•

* Features require additional PTC Creo View module(s).

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