



## Comparing CoCreate OneSpace Modeling 2007 with Previous Releases

OneSpace Modeling is CoCreate's leading 3D design tool. OneSpace Modeling continues to evolve and be enhanced to best meet the needs of 3D designers around the world. This table highlights some of the primary product enhancements that were delivered in each of the last several versions of OneSpace Modeling.

OneSpace Modeling	Modeling 2002+ (R11.6)	Modeling 2004 (R12)	Modeling 2005 (R13*)	Modeling 2006 (R14)	Modeling 2007 (R15)
OneSpace Drafting included with Modeling	■	■	■	■	■
Load multiple versions of models in parallel	■	■	■	■	■
Wrap 2D geometry onto surface	■	■	■	■	■
Double chamfered through-holes	■	■	■	■	■
Dynamic positioning of assemblies & workplane sets	■	■	■	■	■
Microsoft based windows look and feel	■	■	■	■	■
Sheet metal design capabilities	■	■	■	■	■
New 2D CoPilot for intuitive profile generation		■	■	■	■
Variable radius blending with instant preview		■	■	■	■
Advanced clash options (clashing or touching)		■	■	■	■
Advanced shelling (suppress features)		■	■	■	■
Support variable part accuracy in an assembly		■	■	■	■
3D Fly-by-measure and inspection tools		■	■	■	■
3D CoPilot supporting lift, blend, chamfer, shell, et.al.		■	■	■	■
Last entered values and settings set as default		■	■	■	■
Advanced 3D curve capabilities for freeform design			■	■	■
Advanced design techniques with radial patterns			■	■	■
Single click deleting of all features in a pattern			■	■	■
Specify draft angle during extrude and mill			■	■	■
New web help and easy access, including full search			■	■	■
3D CoPilot for all 3D direction and 3D curve options			■	■	■
Microsoft Explorer look and feel in browser			■	■	■
New task panel for easy commands access			■	■	■
Improved unite capability (Glue)			■	■	■
Lightweight graphics models (large assemblies)				■	■
Views, filters, and search options in structure browser				■	■
3D Configurations support multiple views (exploded)				■	■
Advanced clash analysis for effective team design				■	■
Support for Windows XP Professional x64 Edition – true 64 bit version of OneSpace Designer				■	■
Drag and Drop 2D modifications				■	■
Dynamic modeling: edge and face blending, smart taper feature, advanced shelling, modify in section					■
Assembly handling: 3D move by box, mirror assembly, compare parts geometrically					■
Advanced clash: threads, clearance, open states					■
New rendering functionality with real-time rendering and photo-realistic imaging					■
Enhanced lightweight model support (smart reload)					■
Global language support including mixed support for drawings, part names, annotations, output formats					■

<b>Additional Functionality included in Modeling (License)</b>		Modeling 2002+ (R11.6)	Modeling 2004 (R12)	Modeling 2005 (R13*)	Modeling 2006 (R14)	Modeling 2007 (R15)
Drafting	Load multiple drawings	■	■	■	■	■
	Freely define line patterns	■	■	■	■	■
	Plot multiple drawings	■	■	■	■	■
	Load and generate HPGL 1 & 2	■	■	■	■	■
	In-place text editing	■	■	■	■	■
	PDF output		■	■	■	■
	Print preview		■	■	■	■
	Store as XML (SVG format)		■	■	■	■
	Translate paperspace format (DXF)		■	■	■	■
	BOM Editor (add-on module) supported			■	■	■
	Store fonts in MI file			■	■	■
	Save plot configurations automatically			■	■	■
	View text before placing dimensions			■	■	■
	Advanced in-context modification options available directly from drawing's geometry				■	■
	Advanced modification techniques for dimensions, notes and symbols				■	■
	Automatic slot center lines				■	■
	Create geometry with CoPilot's fly-by highlighting				■	■
	Improved Revision checker includes textual reports				■	■
	Unlimited UNDO and REDO					■
	Global language support based on Unicode					■
Annotation	Remove minor details from a view's calculation	■	■	■	■	■
	Automatic center & symmetry lines	■	■	■	■	■
	Enhanced hatching mode for view updates	■	■	■	■	■
	Press fit support	■	■	■	■	■
	Instant drawing creation		■	■	■	■
	Generate drawings from surface or face parts			■	■	■
	Thread lines supported in aligned section views			■	■	■
	Advanced plot configuration (HPGL, PS, PDF)			■	■	■
	Real-time graphical dimension feedback			■	■	■
	Better drawing results where parts clash			■	■	■
	Right mouse click to change dim orientation			■	■	■
	Right mouse click to define section lines direction			■	■	■
	New wizard for create drawing and add view				■	■
	Easier update of views e.g. multiple views, persistence of definitions				■	■
	Symbols easier to create and modify				■	■
	Symbol browser				■	■
	Broken view, merge geometry, create ellipse, and create slot centerlines				■	■
Unlimited UNDO and REDO					■	
3D Documentation	Position 3D annotations on 3D models	■	■	■	■	■
	Automatically assign index values	■	■	■	■	■
	Chain dimensions referencing a zero point	■	■	■	■	■
	General 3D tolerance types	■	■	■	■	■
	Fast 3D annotation transfer to drawings		■	■	■	■
	Enhanced wizard to transfer 3D annotations to 2D			■	■	■
	New load font and delete font command				■	■
	Reference additional information via URL for 3D dimensions				■	■
	Secure standard parts against sectioning				■	■
	Geometric dimensioning and tolerancing					■
	Surface, welding and user defined 3D symbols					■
Transfer of 3D symbols to 2D					■	

<b>Data Exchange included in Modeling</b>	Modeling 2002+ (R11.6)	Modeling 2004 (R12)	Modeling 2005 (R13*)	Modeling 2006 (R14)	Modeling 2007 (R15)
2D DXF and DWG 10 (Annotation and Drafting)	▽	▽	▽	▽	▽
2D DXF and DWG 12 (Annotation and Drafting)	▽	▽	▼	▼	▼
2D DXF and DWG 13 (Annotation and Drafting)	▽	▽	▼	▼	▼
2D DXF and DWG 14 (Annotation and Drafting)	▼	▼	▼	▼	▼
2D DXF and DWG 2000 (Annotation and Drafting)	▼	▼	▼	▼	▼
2D DXF and DWG 2004 (Annotation and Drafting)			▼	▼	▼
2D DXF and DWG 2006 (Annotation and Drafting)				▼	▼
3D STEP and IGES import and export	▼	▼	▼	▼	▼
3D STL output	▲	▲	▲	▲	▲
3D CAM output (GoElan V4, Hyperfact)	▲	▲	▲	▲	▲
3D SAT import and export	▼	▼	▼	▼	▼
3D IDF import and export	▼	▼	▼	▼	▼
Variable accuracy for IGES & SAT import		▼	▼	▼	▼
eDrawings™ publishing and viewing			▲	▲	▲
3D annotations like dimensions included in eDrawings				▲	▲
Automatic 3D flags for any imported surface fixes			▼	▼	▼
Large assembly improvements (part-by-part)			▼	▼	▼
Target resolution can be set for IGES and SAT				▲	▲
ACIS SAT enhanced to merge faces				▲	▲

- ▽ read only
- ▲ write only
- ▼ read and write

<b>Simplification of 3D Modules</b>	Modeling 2002+ (R11.6)	Modeling 2004 (R12)	Modeling 2005 (R13*)	Modeling 2006 (R14)	Modeling 2007 (R15)
Photo-realistic rendering module	Included in Modeling				
GoElan CAM adapter	One CAM Adapter	Included in Modeling	Included in Modeling	Included in Modeling	Included in Modeling
hyperFact CAM adapter					
Open CAM adapter					
3D machining capabilities & pre-defined features	Included in Modeling				
3D annotation and 3D documentation					
3D IDF interface					
Real-time rendering					
3D geometric dimension and tolerancing (GD&T)	■	Included in Advanced Design module	Included in Advanced Design module	Included in Advanced Design module	Included in Advanced Design module
Parametric part design	■				
Parametric assembly design	■				
Plastic, mold, core and cavity design	■				
3D design simplification	■				
3D inspection definition and closed-loop analysis	■				
3D animation and AVI output					
3D pre-defined mechanisms (gear, cam, screw, rack)					
3D realistic motion simulation					

<b>Supported Platforms</b>	Modeling 2002+ (R11.6)	Modeling 2004 (R12)	Modeling 2005 (R13*)	Modeling 2006 (R14)	Modeling 2007 (R15)
Windows NT	■				
Windows 2000	■	■	■	■	■
Windows XP Professional	■	■	■	■	■
Windows XP Professional x64 Edition				■	■
HP-UX 11	■	■			
HP-UX 11i	■	■	■		

## Learn more

For more information or to see a demo of OneSpace Modeling, please click [here](#)

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