

TurboCAD 2016 New & Improved Features					
	PLATINUM	PRO	DELUXE	DESIGNER	
USER INTERFACE					
Improved Conceptual Selector	<ul style="list-style-type: none"> • Drag reference point and rotation bars with CTRL • Scale handles on boundary boxed as in classic mode 	X	X	X	
New Highlighting (Redsdk Only)	UI enhancement which highlights 3D objects and parts of 3D objects while using certain tools in Redsdk mode including imprinting, quick pull & 3D mirror copying.	X	X	X	
New Spaces	Manage all your spaces through the design director including model space, and all paper spaces so you can handle spaces more efficiently than the tab interface allows.	X	X	X	X
New Show Normals	The visualization of the normals make it easier to estimate the smoothness and orientation of the 3D objects, and to find artifacts/defects on those objects.	X	X		
Render Manager Improvements	Render Manager now support the Dark Theme	X	X	X	
3D MODELING / MECHANICAL					
New Advanced Blending	New 3D Fillet/Blending options allow for much more organic and realistic object creation. These options include a NEW Holdline Blend, providing the ability to blend using associative polylines, and a NEW Variable Blend, offering the ability to blend between points and then adjust their radial amounts via the part tree.	X			
New Bend to Path	The new Bend to Path tool and Part Tree operation can bend an ACIS solid object along a line, arc, or curve.	X			
New Curve from Law	The new Curve from Law tool lets users create a parametrically defined curve from a Law object in the drawing. This object could be used with the Graphic on Path tool, in Sweeps and more.	X			
New Surface with Laws	Generate an entirely new surface object with a formula.	X			
New Warp Entity by Law	TurboCAD can warp an existing 3D solid based on a mathematical formula.	X			
New Offset with Law	You can define a law which reshapes the resulting offset object based on a formula. New options include: <ul style="list-style-type: none"> • Use Law - specifies if a law should be used for offsetting • Edit Law - Allows the user to enter or edit a law 	X			
New Extract Entity	This tool allows extraction of edges and faces from a solid body with or without an offset. Offset sheet faces loops, and other extracted objects can be used by other tools such as sweep. Options include: <ul style="list-style-type: none"> • Extract edge from body • Extract/offset face from solid • Remove open gap from sheet body • Offset face/planar face loop 	X			

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New Imprint Edge	This new tool can Imprint Edges into Faces by dividing them into discrete areas each of which can have its own material.	X	X		
New Tweak Face	New tool that extends the face of an existing 3D solid object to the boundary that is defined by a sheet face, allowing users to easily create more complexed forms.	X			
Improved Revolve Face	TurboCAD now offers the ability to use a 2D profile to generate a revolve from the face of an existing 3D object and either add or subtract the result.	X	X		
New 3D Slice by Facet	TurboCAD makes it easy to slice, or divide, one or more 3D objects into new objects, by specifying the slicing plane. The 3D slice tool, which offers the ability to slice by line, by plane, by workplane, and by surface, now includes Slice by Facet.	X	X	X	
New Slots Tools	Three new slot tools for inventors, woodworking and furniture design. They include: <ul style="list-style-type: none"> • Slot • Circular Slot • Circular Slot By Center and Radius 	X	X	X	
Improved Array/Pattern Tool	Users can now create a checker board pattern with the pattern tool to apply to 3D objects.	X			
New Lofting to a Point	Points can now be included as lofting profiles.	X	X		
ACIS Engine Update	TurboCAD Pro 2016 and TurboCAD Pro Platinum 2016 now use the ACIS R26 Kernel	X	X		
ARCHITECTURAL DESIGN					
New Convert Slabs	Now you can take a classic TurboCAD roof, and convert it (explode) the roof to a set of roof slabs. This makes it more convenient to create and edit custom roofs (clipped gable roof, dormer, etc...)	X	X		
New Trim Roof Slab by Plane	This tool allows you to trim a Roof Slab by the plane of another object. The objects that can be used are: Other Roof Slabs, Standard Roofs, or Walls. <ul style="list-style-type: none"> • Select target flat plane for the trimming object • Select the side of the roof slab to be trimmed. • Support classic TurboCAD trim tool for Roof Slab (trim by polyline) 	X			
New Multi Landing Stairs By Polyline	You can now create multi-landing stairs from a 2D polyline.	X	X		
Improved Edit Roof Slope Rise/Run	The Edit Roof Slab Tool now includes an input field.	X			

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		New IFC Objects: Beam & Column	The IFC file filter, commonly used for BIM operations, now supports the Import/Export of Beam object types and Column object types.	X	X
Improved House Wizard	The house wizard, used to quickly layout a house plan, placing and sizing each room, drop in closets, passageways, a garage, and even decking, now allows you to name each room while in the tool so you don't have to do it after.	X	X	X	
RENDERING					
Redsdk Photorealistic Enhancements	<ul style="list-style-type: none"> • New Portals - The ability to designate objects as transparent to sky luminances. • Improved Tone Mapping with interactive palette controls • New Tone mapping control in Render Manager 	X	X	X	
Improved Render Manager	Enhancements to the UI Algorithms for improved workflow and management of Rendering Components: Materials, Luminances, Environments, Advanced Render Styles	X	X	X	
New Active Drawing Components	Render components of the active drawing can now be accessed more quickly so that if you want to repeat use of a material, luminance, environment or render style, it's now bookmarked for easy access.	X	X	X	
Improved Double Precision	All of the numerical values are now stored in double precision. This creates greater precision and accuracy.	X	X	X	
Faster update of some objects like TCCamera & TCLight in RedSDK mode	Auto-update of some objects like TurboCAD Camera and TurboCAD Light in RedSDK mode is now much faster.	X	X	X	
Redsdk 4.1 Engine Migration	Migration to Redsdk 4.1	X	X	X	
Improved RedSDK Transparent fill support	Transparent fill now works the same in both Redsdk and GDI. A solid brush pattern can also be called a fill.	X	X	X	
GENERAL					
New/Improved 3D Mirror Copy Tool	<ul style="list-style-type: none"> • 3D Mirror Options are now all part of the Part Tree to more easily manage changes. • New Mirror Along Face option lets users define a plane across which the Mirror operation should be performed. • New Try to Create Single Object option, if turned on, TurboCAD will try to add the original object and its mirrored copy 	X	X	X	
New Point Cloud Support	TurboCAD Pro Platinum now offers tools to interpret a point cloud, a set of data points in some coordinate system. In a three-dimensional coordinate system, these points are usually defined by X, Y, and Z coordinates, often intended to represent the external surface of an object.	X			

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New Point Cloud Import/Export	Import or export a point cloud using .PCD and .XYZ formats	X			
New Point Cloud Triangulation	Ability to extract a Surface from point cloud data set	X			
New Subset Point Cloud	The ability to select a subset of an existing point cloud and create a separate entity.	X			
New Backup of Open Documents	When this new option is on, all open documents are backed up on program close without prompting. Then when you next start the program, the same documents are automatically reloaded so that you can continue working where you left off.	X	X	X	X
New File Buffer	When a file is closed or when the application is closed, this new option saves the Undo/Redo buffer and is re-loaded when the file is reopened, so it can be used from the last design change.	X	X	X	X
New Untitled Documents	Documents that you have created but have not saved are now backed up using the name "Untitled" followed by a number and the date/time. This name and number corresponds to those shown in the titlebar when you are editing new unsaved documents.	X	X	X	X
New ISO Circle/Grid	New tool allows you to easily construct isometric circles.	X	X	X	
FILE INTEROPERABILITY					
New PRC 3D PDF Support	TurboCAD now supports both U3D and PRC (Product Representation Compact) file export. This new filter option exports 3D content in PRC format.	X	X		
Improved DWG/DXF Support	Updated for continued smooth file sharing	X	X	X	X