

# CorelCAD<sup>TM</sup> 2017

*powered by ARES<sup>®</sup>*

Reviewer's Guide

# CorelCAD™ 2017 *powered by ARES®*

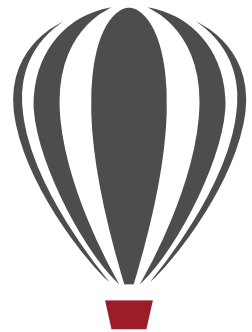
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## Contents

1   Introducing CorelCAD 2017.....	1
2   Customer profiles .....	3
3   Key features.....	7
4   Integrating CorelCAD 2017 into other graphics workflows.....	19
5   Comparing CorelCAD 2017 to Light CAD applications .....	21

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# 1



## Introducing CorelCAD™ 2017

CorelCAD™ 2017 is the best choice in computer-aided design by delivering customizable tools and the precision you need to exceed the CAD results you expect in 2D drafting and 3D design. It uses native .DWG file format, offering compatibility with all major CAD programs, is optimized for Windows and Mac OS, and adds support for Android devices to deliver consistent performance and speed across platforms.

Enterprises that rely on CAD have always had tough choices to make about software. While there are several budget-priced alternatives, many lack critical tools or use a format that impedes collaboration and sharing. CorelCAD 2017 simplifies things by offering an inexpensive, full-featured 2D CAD application with 3D solid modeling tools.

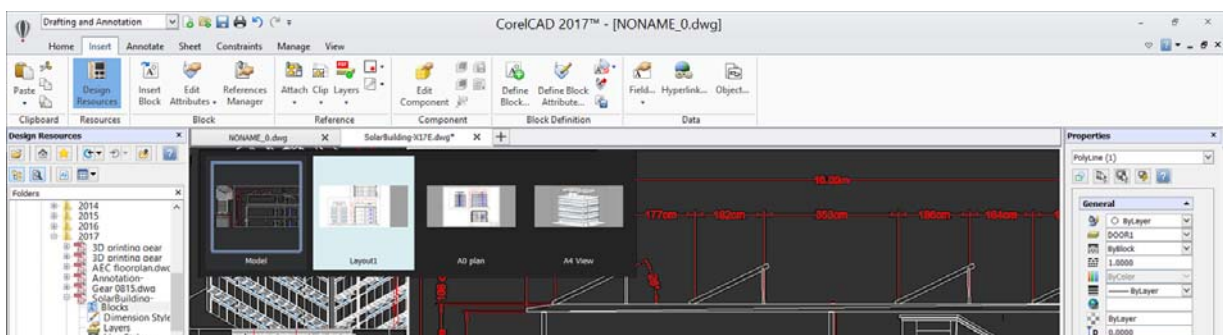
The use of CAD files is becoming more commonplace for a wide range of graphics professionals, from technical illustrators to designers in marketing departments — even among 3D printing enthusiasts. As such, businesses need a CAD solution that is versatile enough to be used effectively by a wide range of skillsets. What's more, the ability to open and repurpose CAD content, such as .DWG

files, has become a requirement that saves organizations both time and money.

The native CorelCAD file format (.DWG) supports the latest AutoCAD .DWG file format (R2013 .DWG), as generated by most recent AutoCAD application versions up to AutoCAD 2017, ensuring total fidelity with the industry standard. CorelCAD 2017 shows off its versatility in the handling of file attributes of non-supported AutoCAD features and preserving functionality in .DWG files, eliminating conversion and sharing issues.

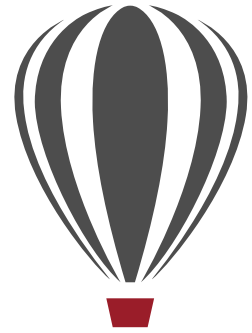
If you've worked with other popular CAD tools, making the transition to CorelCAD is straightforward. CorelCAD incorporates a range of intuitive tools, commands, and familiar UI elements found in other CAD software so any CAD designer can quickly get to work with no learning curve.

Windows has traditionally been the operating system of the CAD world, but there are pockets of dedicated Mac users. With that in mind, CorelCAD is optimized for both platforms — and at a fraction of the price of other CAD software available for the Mac. And as mobile devices are revolutionizing how we work, CorelCAD 2017 extends the desktop to Android tablets with the new CorelCAD Mobile.





# 2



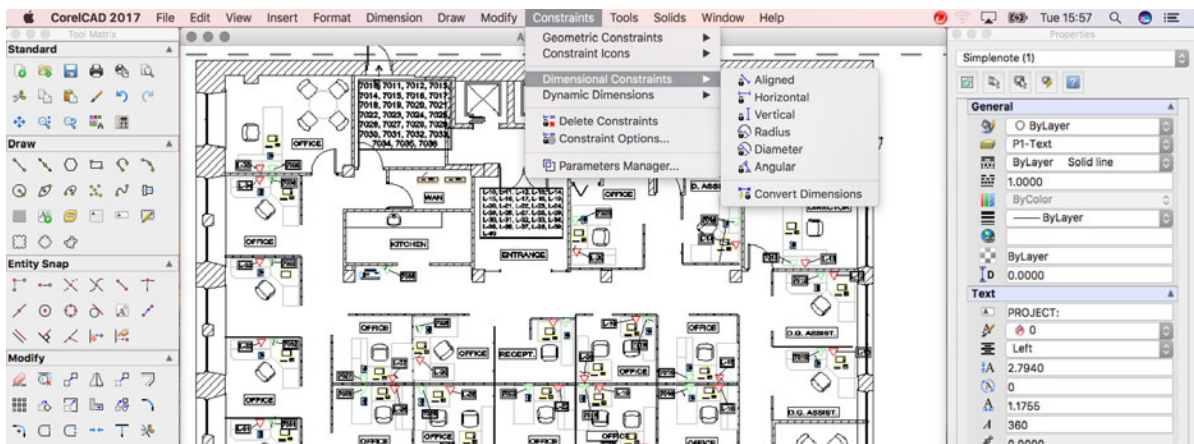
## Customer profiles

### Architects, Engineers, and Construction (AEC) service providers

In the AEC sector, CAD designers work primarily in 2D, but with an increasing emphasis on 3D design. They work for small to medium-sized firms and create a variety of drawings, including 2D designs for drafting and construction plans, elevations, floor plans, and construction details. Their projects are just as likely to be created from scratch as to be based on legacy design components. The ability to collaborate and exchange files with colleagues and clients is critical to their workflow. And, many architects prefer the macOS or work in a hybrid Windows PC and Macintosh environment. And as mobile devices become more powerful, the ability to work anywhere opens up a world of possibilities for this sector.

CorelCAD 2017 offers a lightweight, standards-compliant 2D application that supports 3D solid modeling. The ability to work in the .DWG format, including AutoCAD 2017 .DWG files, eliminates any conversion issues when exchanging files with colleagues or reusing legacy files. Collaboration is simplified and accelerated through support for voice notations and commenting in editable drawings. Plus, files can be exported to CorelDRAW (CDR)\*, Corel DESIGNER (DES)\*, and PDF, simplifying information sharing with other departments in their company, such as documentation or marketing. What's more, And the new CorelCAD Mobile is the perfect tool for getting things done anywhere, anytime on an Android device. It works seamlessly with Windows or Mac versions of CorelCAD and allows users to design and annotate on the go. CorelCAD Mobile is also ideal for quickly presenting projects to clients and colleagues wherever and whenever the need arises.

\* Windows version only



## 3D Enthusiasts and DIY designers for 3D printing

3D enthusiasts and Do-It-Yourself (DIY) designers for 3D printing are playing a critical role as this technological revolution becomes more mainstream. They're at the forefront of realizing the unlimited potential and output possibilities of 3D printing.

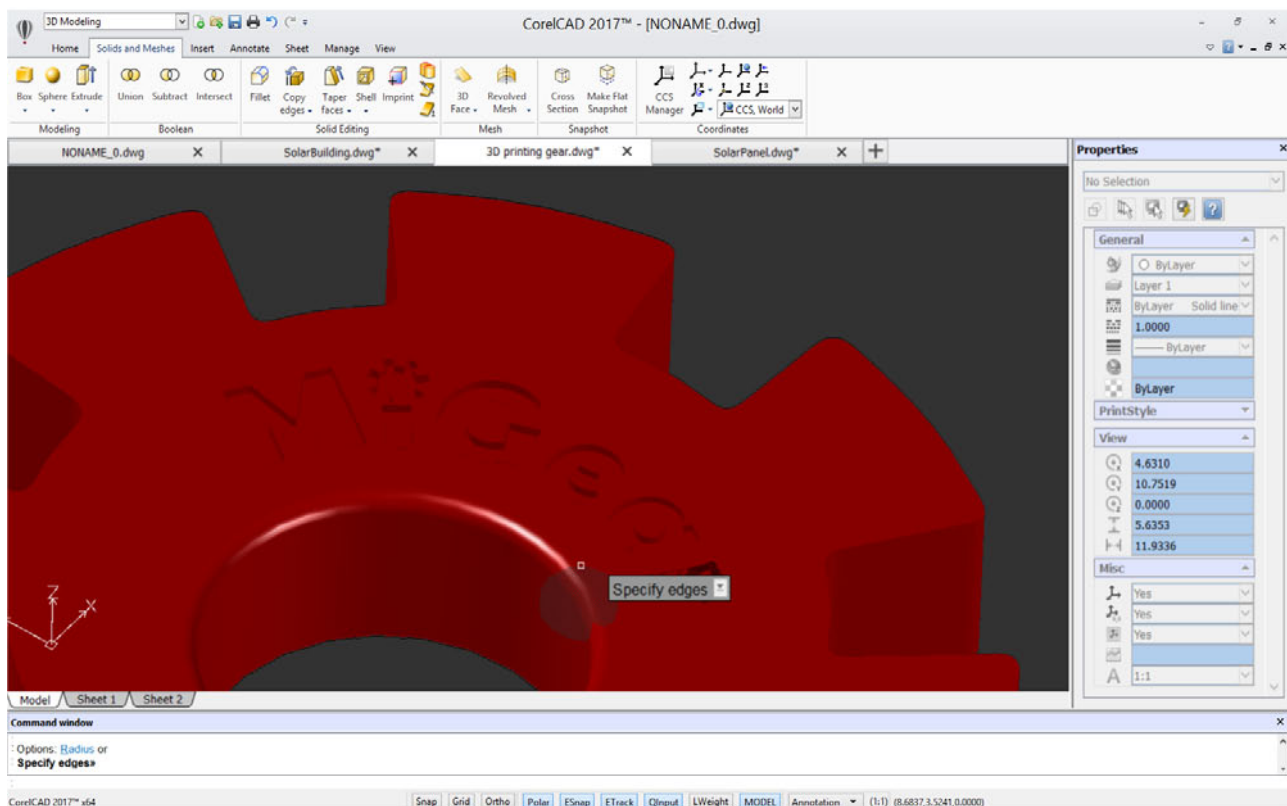
The foundation of their 3D printing projects is built using 2D vector graphics. The first step in their workflow is a 2D sketch because it's easier, faster and more intuitive than attempting to draw a 3D design from scratch.

After exporting the 2D design to .DWG, they use a 3D design application to complete the

transformation from 2D to 3D. They then export it to print on a 3D printer or send it to a 3D printing output service.

CorelCAD is part of a powerful range of Corel products that provide all the specific tools needed for a 3D printing project. The ability to directly import CorelDRAW (CDR)\* sketches means users can move from the initial sketching to the 3D design phase without any disruption. Then, DIY designers turn to CorelCAD 2017 for a simplified 2D-to-3D conversion process and precise design tools to complete the project. They also seek the file compatibility CorelCAD 2017 offers with a range of common formats integral to 3D printing projects.

\* Windows version only



## Occasional 2D CAD users

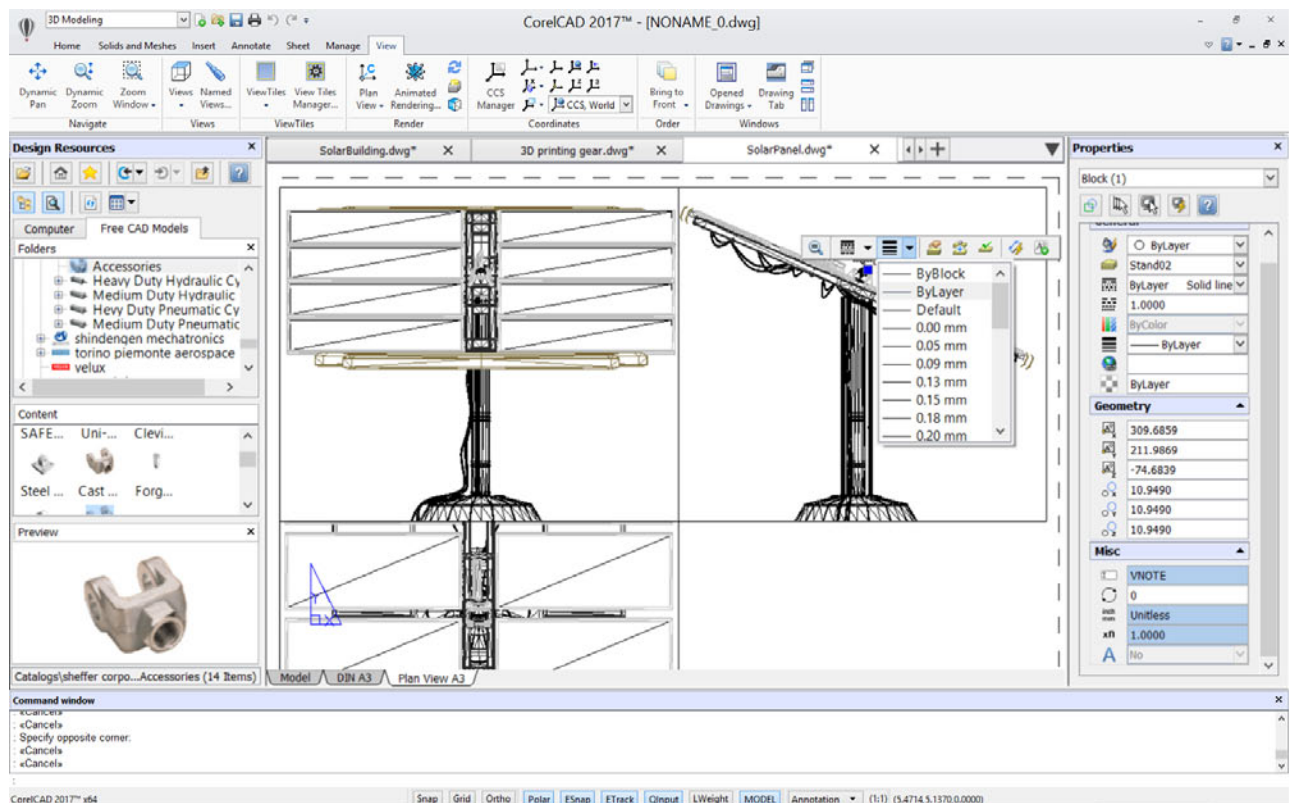
There are two groups of occasional 2D CAD users, each with distinct needs and workflows.

Firstly, CAD designers working for large enterprises in the manufacturing sector design primarily in 3D, however, they still need 2D support. The types of drawings they design include assembly schematics and parts details, and many of their legacy files are 2D CAD (.DWG), which have to be maintained. A 2D draft will often serve as the basis for a 3D design, and they need to be able to repurpose 3D files to add detail to 2D drawings. To share their work with other departments, they publish CAD drawings to a range of formats.

Secondly, graphic designers need an intuitive tool to edit CAD files that supports all elements of .DWG drawings, such as model spaces and layout sheets. They work in marketing and technical documentation departments, and the ability to work with 2D CAD files allows them to reuse design content in user guides, marketing materials, and presentations.

CorelCAD addresses these needs by offering an affordable, standards-compliant 2D CAD application that complements 3D CAD solutions. The ability to import drafts from CorelDRAW (CDR), and export CAD drawings to CorelDRAW and Corel DESIGNER file formats\* simplifies repurposing content, ensuring that users can maintain and reuse legacy content.

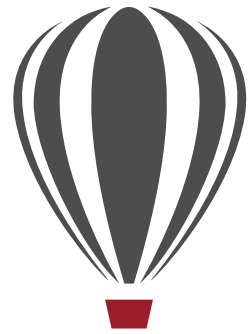
\* Windows version only







# 3



## Key features

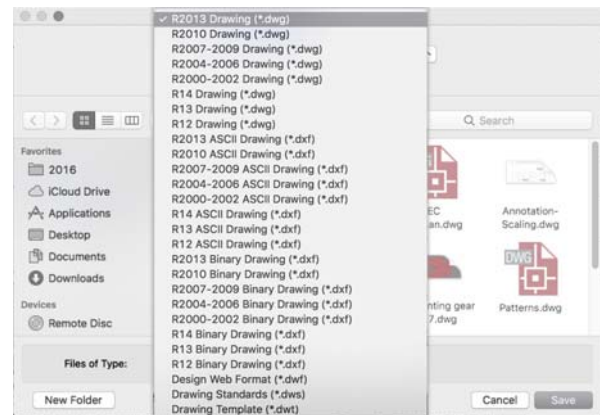
With native .DWG support and industry-standard CAD features, CorelCAD 2017 helps users be more productive with intuitive 2D- and 3D-design tools and versatile file-format compatibility. Optimized for Windows, Mac OS and Android tablets, CorelCAD delivers impressive speed and powerful performance on your preferred platform.

CorelCAD 2017 offers new and enhanced 2D editing tools that simplify and accelerate modifying the geometry of objects and trimming hatches or color fills. You can work faster and with more precision thanks to new drawing tools, an intuitively redesigned print dialog, and performance enhancements.

**Advanced .DWG file support:** While most CAD tools let you work with AutoCAD .DWG files, many employ their own native file formats. Often, converting these file formats to and from .DWG, causes critical loss or misrepresentation of parts of the drawing. And some CAD tools are unable to open these third-party proprietary file formats. CorelCAD 2017 uses .DWG as its primary drawing format, so you're assured of worry-free collaboration.

Many CAD tools and their proprietary file formats contain elements that aren't supported in .DWG. And conversely, AutoCAD has features that aren't supported by some applications, which can cause untimely and unwanted surprises during file conversion. With CorelCAD 2017 and its ability to process the file attributes of non-supported AutoCAD features, you'll enjoy full compatibility when collaborating with

partners and customers who work with the .DWG file format.

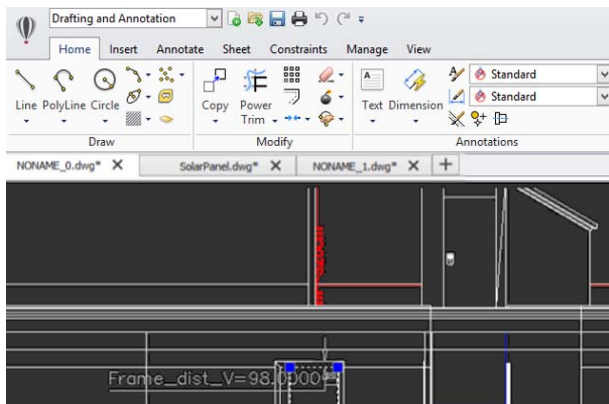


**Familiar CAD user interface:** If you've worked in other popular CAD applications, there's no learning curve with CorelCAD, so you can be productive immediately. Offering a familiar CAD user interface — including the command line — you can quickly get to work by using the same commands and keyboard shortcuts you already know.



Ribbon user interface (UI): Familiar UI and efficient tool access help to ease the transition for new users migrating from other Windows-based CAD applications, such as AutoCAD. CorelCAD 2017 is compatible with all major CAD programs so users will feel at home working with a classic UI and traditional menu items or modern ribbon UI workspaces. In addition to offering workflow-oriented Ribbon workspaces\*, such as 2D Drafting or 3D Modeling, CorelCAD 2017 lets you tailor a workspace to specific needs with Ribbon UI customization. Plus, you can easily import customized AutoCAD workspace files (CUIX) and map those tools and functions directly to the CorelCAD ribbon.

When working on Windows, the DrawingTabs command lets you switch between several documents that are open and active at the same time using. It displays thumbnails of each model or layout sheet when you hover over a tab and gives one-click access to a shortcut menu of frequently used commands.



## Give it a try

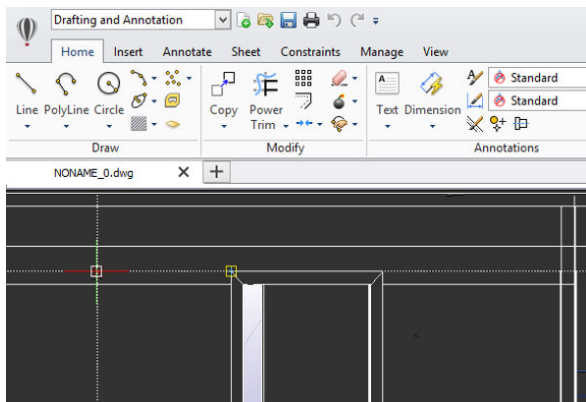
### Choosing and creating a Ribbon workspace

- 1 Click the drop-down menu **Classic Default** in the upper left corner of the workspace, and choose an option:
  - **3D Modeling**
  - **Drafting and Annotation**
- 2 Click the **Manage** tab, and click **Interface** in the **Customization** group.
- 3 On the Interface page of the Customize dialog box, expand **Ribbon**, then **Tabs**.
- 4 In the **Tabs** tree view, right-click and click **New Tab**.
- 5 Click **Show ribbon explorer** to expand the Ribbon Explorer.
- 6 In the **Appearance** area, edit the tab name in the **Display text** field.
- 7 Add panels to the tab.

**Enhanced!** Organized layouts: CorelCAD lets you organize drawings into multiple tiled layouts using tabbed sheets. Each sheet can determine a different style of printing or plotting. The drawing window can be divided into multiple views, each displaying the drawing from a unique perspective. You can place drawing borders, title blocks, equipment lists, or other information on the sheets. You can also switch between model and paper space with just a double-click to adjust the representation of the model or edit it.

And now in CorelCAD 2017, it's easier to move entities between the Model and Sheet workspaces using the ChangeSpace command. For example, you can use the command to move title blocks or part lists from Model space to Layout sheets. During the command process, the selected objects are scaled within the new workspace to maintain its visual appearance.

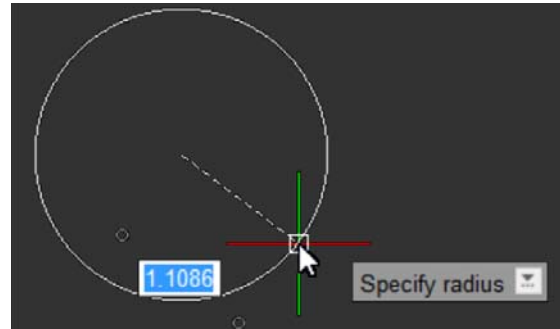
Smart drafting tools: CorelCAD 2017 has all the smart drafting tools you expect in CAD software, offering the same functionality that professional designers have grown accustomed to in graphics software. You can speed up drafting with a variety of entity snap modes, entity tracking, and polar guides. Custom coordinate systems can be created to align the construction plane with drawing objects. You can also save time by using EntityGrips to quickly reposition, align, copy, or resize entities.



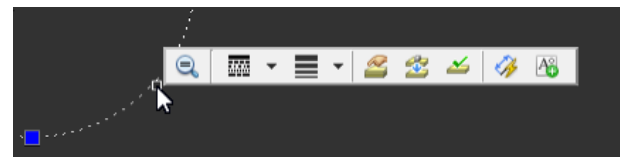
Time-saving editing features: CorelCAD 2017 is designed to help you work quickly and with precision.

This Quick Input feature brings a command-entry interface directly to the cursor, so you can focus on your drawing, not locating tools and commands. Tooltips display context-sensitive prompts near the pointer, simplifying the input of coordinate positions, lengths, angles, lines, and more. When you reposition the pointer, the tooltips track data that's been entered so you can quickly access and reuse it.

There are a variety to Quick Input methods depending on what you're doing. When there's no active command, the Quick Prompts input box appears. As a command is invoked, a tooltip appears with a list of options relevant to that command. Pointer Input lets you specify coordinates of points as you are creating lines, polylines, circles, Splines, and more. Dimension Input displays a distance and an angle as you move the pointer and serves as input boxes for the corresponding values when you are prompted for a second point or a distance.

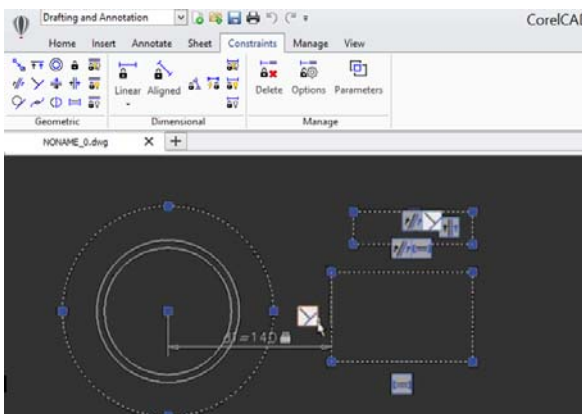


The Head-up toolbar lets you streamline your workflow and save time. You can choose to display it whenever you select an entity, giving you quick access to frequently used tools and settings. With the Head-up toolbar, you can quickly change the zoom level, or access settings for an entity's layer, line and dimension properties. It also puts EntityGrips at your fingertips so you can reposition, align, copy, or resize entities in no time. The Head-up toolbar also accelerates your workflow by giving you easy access to an auto-completion function for command and variable names as you type them. And when you don't need the Head-up toolbar, it gets out of your way after a few seconds.

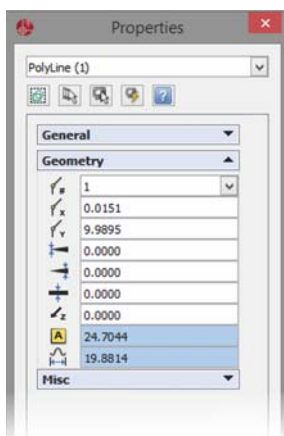


And CorelCAD 2017 offers new time-saving functionality to save you valuable design time. You can now work now work even faster thanks to enhanced EntityGrips. Now when you hover over an EntityGrip, an updated contextual shortcut menu is displayed that speeds up editing the geometry of objects. What's more, new auto-completion commands speed up the entry of command names as you type them by displaying a suggestion list with command and variable names which contains the sub-string that you enter.

Drawing constraints: The drawing constraints feature helps you work more efficiently and precisely. The dimensional constraints let you force object dimensions to adhere to fixed sizes and angles. The geometric constraints let you control dependencies and relationships between shapes in your 2D designs. For example, when you're working with designs that contain a variety of window types, you can vary the size of windows while maintaining the distance between the frame and the glass. Drawing rules can be defined on an object level so that variants can be quickly created without having to stick to the constraint.

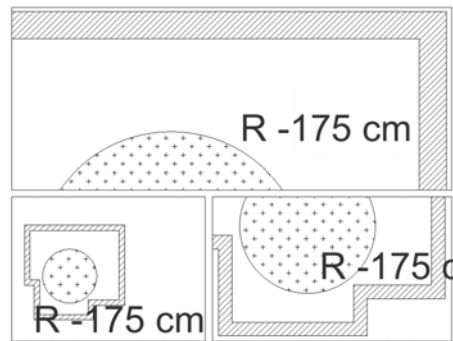


Properties palette: Whether your background is graphic design or CAD, the Properties docker is a familiar feature. It gives you the ability to manipulate the geometry and properties of entities, including layers, colors, line styles, and line weights. It also lets you easily copy attributes from one object to another. Drawing entity properties are divided into groups, and you can work faster and more efficiently by collapsing property groups you don't require.



In-place text editing: Instead of using a separate dialog box, CorelCAD offers direct onscreen text editing. You can quickly stack text and paste formatted text from Microsoft Word within your project. With in-place text editing, it's easy to modify the definitions of components (block definitions) or elements (referenced drawings). Plus, for greater efficiency, Component instances in your drawings show changes in real time.

CorelCAD 2017 also gives you the ability to view legible text at all times regardless of how small or large your design elements become. Annotative Scaling lets you achieve consistent and uniform sizes and scales of text, dimensions, hatches, and blocks when viewed in different viewports or printed.



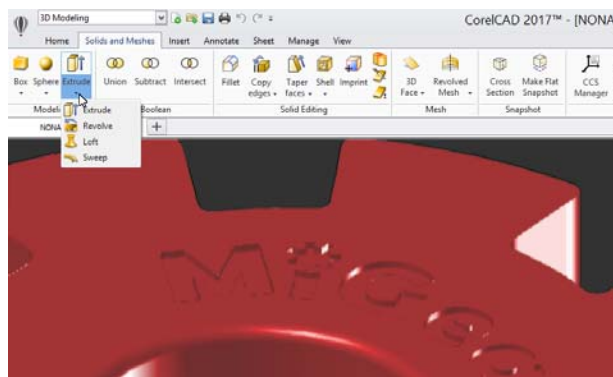
**Enhanced!** Precise Dimension tools: CorelCAD 2017 has tools and features that simplify working with dimensions. The Smart Dimension tool suggests the most appropriate and precise dimension type automatically. What's more, a pop-up palette appears when you need it, displaying all dimension-text formatting and property settings for quick editing. The Dimension palette also speeds up your workflow by simplifying the reuse of text, precision, and tolerance settings and allowing you to modify multiple dimensions at the same time.

The new SplitDimension command lets you split dimension and extension lines of Dimension entities where they intersect other entities. You have the choice of splitting a dimension and extension line automatically at all intersections with other entities, or you can specify the split locations individually by selecting intersecting entities one by one. Conversely, you can also rejoin dimension and extension lines that were previously split.

**New!** Centerline command: This command creates centerlines between pairs of lines, arcs, and polyline segments and even set the extension for centerlines to exceed the shapes that define the contour. Best of all, the specific LineStyle for centerlines is assigned automatically.

Layer tools: CorelCAD 2017 has features to help you easily keep layers in perfect order, control the appearance of design components in your drawings, and preview layer contents. The Layer States Manager is a hub for saving, restoring, and managing configurations of layer properties and layer states, which are snapshots of current settings. You can also edit Layer properties, or save them to a LAS file so they can be shared across projects. For advanced designs, you can apply layer transparency to highlight specific content, or to make content below the current layer visible. And to help you to understand a drawing's layer structure and find specific content, you can quickly and easily preview the content of layers in complex CAD files.

Solid modeling tools: With its 3D solid modeling tools, CorelCAD 2017 ensures that you can work with increasingly common 3D designs. Just like 3D CAD applications, you can add 3D solid primitives to your design and use Boolean operations to unite, intersect and subtract bodies. 2D entities can be extruded, revolved, or swept along a path. You can also loft between 2D entities to create solid objects. CorelCAD 2017 also gives you the ability to slice and intersect solids, and edit edges, faces and bodies of 3D solids.

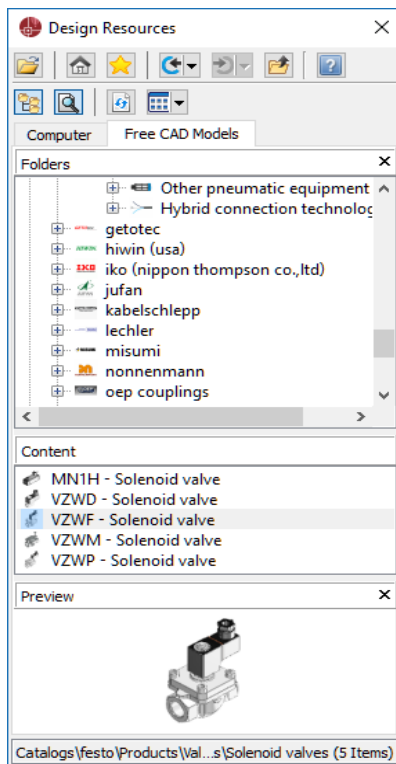


## Give it a try

### Designing in 3D

- 1 Click **File** menu ▶ **New**, choose the standard template, and click **Open**.
- 2 Click the drop-down menu **Classic Default** ▼ in the upper left corner of the workspace, and choose **3D Modeling**.
- 3 Click the **Solids and Meshes** tab.
- 4 Click the **Sphere** group, and choose **Sphere**.
- 5 Click in the graphics area to set the center point, and drag to set the radius.
- 6 Click the **View** tab, and click **View Tiles Manager**.
- 7 In the View Tiles dialog box, click **New**, and then choose **3D** from the **Orientation** drop-down menu.
- 8 Choose **Four:Left** from the **Default configurations** list, and click **OK**.
- 9 In the command window, type **rectangle**.
- 10 Click the **Solids and Meshes** tab, and click **Extrude** in the 3d Modelling area.
- 11 In the command window, type **shade**.

Design Resources docker: With the handy Design Resources docker, you can quickly access and repurpose existing design assets, such as blocks, dimension styles, layers, line styles, reference drawings, sheets, table styles, and text styles. The Design Resources docker makes it easy to find and access both local and network design assets.



**New!** CAD models: You can access millions of free CAD models from hundreds of renowned manufacturers, thanks to the free PARTcommunity plugin\* by CADENAS. It lets you easily insert CAD models as blocks with attributes into CoreCAD designs in 3D or a selection of 2D views. The PARTcommunity plugin lets you search, select and then customize models for a project from a variety of renowned, international manufacturers catalogs. You can also access premium, paid-for standardized CAD models which are independent of specific manufacturers, ideal when responding to a call for tenders.

(\* This plugin is only available in CoreCAD 2017 for Windows.)

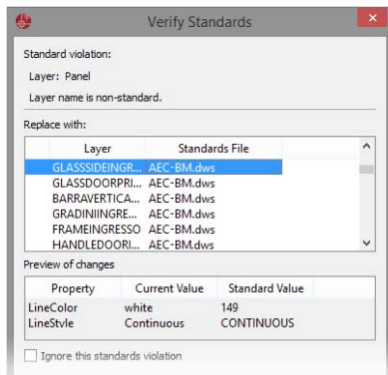
## Give it a try

### Installing the PARTcommunity plugin

- 1 In your browser, navigate to [corecadmarket.com](http://corecadmarket.com).  
Ensure that CoreCAD 2017 is not running.
- 2 In the Featured Products section, click **PARTcommunity Link**.
- 3 Click **Download**, choose **CoreCAD 2017** from the list box, and click **Start download**.
- 4 Click **Run**, and follow the steps in the installation wizard.
- 5 Launch CoreCAD 2017.  
The **Plugin Manager** appears.
- 6 Click **Register**, and follow the steps in the **Product Activation** wizard.
- 7 Once registered, click **Enable** in the Plugin Manager.
- 8 Open the **Design Resources** palette and click the **Free CAD Models** tab.
- 9 Click the **Open** button to access available vendor parts catalogs in the CADENAS Resources dialog, or use the **Search** tab to find specific parts or vendors by their name.
- 10 Select a parts catalog from the **Available Catalogs** list, and click **Add** to include it in the Working Catalogs list in the Design Resources palette for direct access to parts as 2D drawings or 3D models.
- 11 You can preview a selected part in the Design Resources palette and drag it into the active drawing. When inserting, a dialog box appears for selecting the view and the part configuration (if configurable parameters are available for the selected part).


**PDF Underlay:** You can reference PDF files in a drawing as a PDF Underlay. You can specify the layer visibility of PDF Underlays, clip the PDF Underlay to display only a portion of the PDF, and detach underlayers from current drawings. CorelCAD 2017 also supports Microstation DGN files as underlays.

**CAD standards verification:** CorelCAD 2017 makes it easy to verify a drawing to ensure compliance with industry, corporate, or project standards. The VerifyStandards command checks the current drawing to match naming conventions, such as layer properties, line styles, dimension styles, and text styles, with an associated Drawing Standards file (DWS). You can then quickly replace any nonstandard items.



## Give it a try

### Verifying a drawing

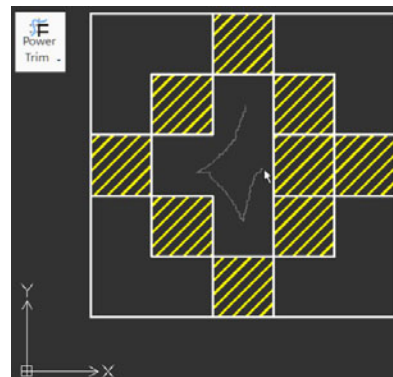
- 1 To associate a Drawing Standards (DWS) file, in the 3D Modeling or Drafting and Annotation workspace, click the **Manage** tab.
- 2 In the **Standards** group, click **Drawing Standards**.
- 3 In the Options - Drawing Standards dialog box, click the **New**  button.
- 4 In the Select File dialog box, navigate to the folder containing your drawing standards files, select one, and then click **Open**.
- 5 In the **Standards** group, click **Verify Standards**.

## Give it a try

- 6 In the Verify Standards dialog box, select any item that violates drawing standards.
- 7 In the **Replace with** area, select a drawing standard that matches the intended appearance, and then click **Fix**.

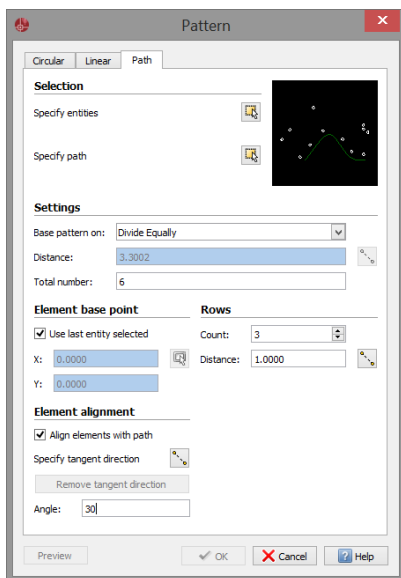
**Enhanced!** **Block Attributes:** You can use BlockAttribute definitions to attach variable or constant text to Blocks to provide information about it. New in CorelCAD 2017 is EditXBlockAttribute, which lets you modify BlockAttribute values and properties of inserted Blocks within any drawing to display relevant information about a particular piece or component, such as a quantity or weight. With this new functionality, you can also format the attribute text so it will be visibly different and separate from other attributes in the drawing. And when you're typing a multiline BlockAttribute definition or a multiline BlockAttribute, you can display the Multiline Block Attribute Formatting pop-up toolbar to simplify editing.

**Enhanced!** **Trimming options:** CorelCAD 2017 makes it easier than ever to edit hatches and gradients. You can now use the Trim command to edit hatches and single color or multicolor gradients. You can also use the PowerTrim tool to precisely and interactively trim them onscreen. After the divisions are made with either trimming method, the resulting hatch and color fills maintain their association to subsequent boundary objects and remain as one object.



To simplify setting entity properties to by layer, CorelCAD 2017 introduces the SetByLayer command. It lets you change property overrides of specified entities, such as such as LineColor, LineStyle, and LineWeight.

**New!** Pattern paths: New pattern commands make it easy to create copies of specified objects along a path. You can use a variety of shapes as the path, including lines, polylines, arcs, circles, ellipses, and splines. You can also fine-tune the pattern with a range of alignment options.

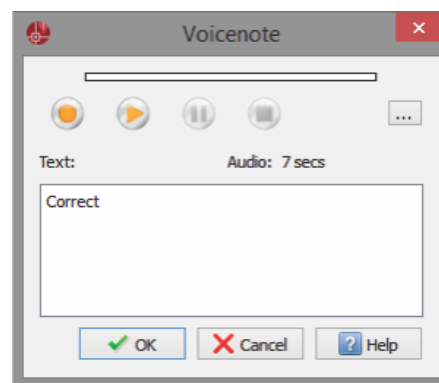


**Enhanced!** Polyline editing: Because polylines are the basis of so many designs, polyline editing is enhanced in CorelCAD 2017. Now, you can taper the width of a polyline from the starting point to the ending point, reverse its direction, and add a vertex to its midpoint. You can also convert a linear polyline to an arc or a curved polyline to a line.

Unique collaboration tools: Most CAD projects demand the input and feedback of an entire team, so effective collaboration and annotation tools are critical. With the VoiceNotes feature, CorelCAD 2017 lets you add recorded messages, reminders, or instructions directly in your drawing. Great for a quick onsite or in-meeting review, VoiceNotes allow you to quickly

document your ideas so they can be incorporated later.

You can also easily mark up drawing items with freehand sketches or attach other drawings and images as references, which can be clipped to show only the relevant portions. To accelerate and simplify reviews, you can mask portions of a drawing to exempt them from annotations. And using the PictureNote feature in CorelCAD Mobile, you can take a picture from the camera of your mobile device, pin it in a drawing, and access it in CorelCAD 2017.



Revision Cloud tool: With CorelCAD 2017, you can create Revision Clouds to highlight areas that require or contain revisions, making the review and revision processes simpler and more efficient. Drawing areas can be accentuated with specific shapes, such as rectangular, elliptical, and freehand clouds. In addition, you can set the specific layer for a cloud, line color, style, and weight, as well as adjust the radius of the cloud's sequential arc.

AutoCAD R2013 .DWG support: CorelCAD 2017 saves to R2013 .DWG natively, which ensures full compatibility, support, features, and CorelCAD file attributes in .DWG format. This level of support is paramount for users who receive and manipulate files created with AutoCAD 2017 or recent versions of AutoCAD, and it ensures that you can seamlessly work with customers and partners who use AutoCAD.



Hassle-free file sharing: CorelCAD 2017 facilitates collaboration with colleagues and clients by providing support for a variety of leading industry-standard formats, including SVG, ACIS SAT, and DWF. Plus, the ability to save to PDF ensures that non-CAD users can always view your drawings.

Access drafts and sketches from CorelDRAW®\*: Many designers prefer to use a creative graphics application for making first sketches, prior to getting down to the precise CAD drafting and 2D/3D modeling work. With CorelCAD 2017 for Windows, you can import CorelDRAW (CDR) and Corel DESIGNER (DES) files as model space objects with a representation in a layout sheet. You can also work seamlessly with multi-page CDR files (from version 8 to X8) and DES files (from version 10 to X7).

Publish to CorelDRAW® and Corel DESIGNER®\*: CAD files aren't used only in Engineering departments; however, integrating CAD files into other corporate workflows has always been a challenge. Graphics professionals working in other areas of a company regularly have to deal with CAD files because they often contain content ideal for presentations, technical documentation, or marketing materials. CorelCAD 2017 for Windows simplifies the repurposing of CAD files by offering export to CorelDRAW and Corel DESIGNER formats\*, so you can quickly access and easily reuse that information.

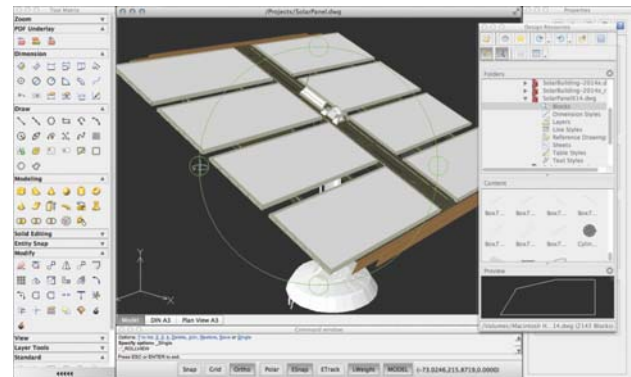
(\* Import and export of CorelDRAW (.CDR) and Corel DESIGNER (.DES) file formats is only available in CorelCAD 2017 for Windows.)

Work with GIS files: CorelCAD 2017 provides support for GIS files in ESRI Shape (.SHP) file format. This lets you visualize maps and geospatial models that were created by geographic information systems (GIS) applications.

**Enhanced!** Print dialog box: CorelCAD 2017 offers a redesigned Print dialog box that delivers enriched functionality. The preview updates dynamically when you change any of

the print settings. The dialog box also displays an optimized preview image before you print. What's more, other dialog boxes have also been streamlined for better performance and improved usability.

Repurpose 3D CAD files: With support for the popular 3D exchange file format ACIS SAT, CorelCAD 2017 ensures that you can open and work with 3D models.



Flexible licensing options: You can match your working environment to your design needs with the flexibility of CorelCAD. As a hybrid product (Windows PC and Mac), this application can be used in a variety of ways and one license can be used on both your desktop and laptop.

Operating system freedom: CAD programs have traditionally been designed to run almost exclusively on Windows operating systems, but CorelCAD changes that. Whichever OS you prefer, Mac or Windows, CorelCAD lets you work quickly and efficiently on your platform of choice. And while some Mac OS CAD tools aren't nearly as feature-rich as their Windows equivalent, CorelCAD is designed to give Windows and Mac users almost the same level of functionality (*all features apply to both operating systems unless noted*). And with the introduction of CorelCAD Mobile, you can work anywhere, anytime on your Android tablet.

Windows 10 and macOS support: CorelCAD 2017 is fully accessible for Windows 10 users through the desktop. Mac users can take full advantage of new macOS Sierra features. Plus, CorelCAD 2017 is optimized for high DPI resolutions, ensuring that UI elements appear crisp and legible when displayed on high resolution monitors.

For both Windows and macOS workflows, CorelCAD 2017 provides 64-bit CAD environments that can seamlessly process large CAD files. Plus, a 32-bit version is included for Windows users who may need to work with less powerful hardware configurations.

With its native 64-bit architecture, CorelCAD 2017 offers remarkable application speed for both Windows and macOS. The application also provides fast display regeneration, which results in smoother zooming and panning operations in large and complex CAD drawings.

Automation support: You can extend your productivity by taking advantage of the LISP and Microsoft Visual Studio Tools for Applications (VSTA)\* programming interfaces to automate repetitive tasks and create your own functions, routines, and plug-ins. You can also access the plug-in store for CorelCAD Add-Ons and third-party enhancements that can help you add new functionality to the application (\*Windows version only).

Microsoft Visual Studio Tools for Applications (VSTA) support: For Windows users with a Microsoft Visual Studio licence, CorelCAD 2017 offers built-in VSTA features, which make it easy for anyone to automate repetitive tasks and command sequences. With the VSTA Manager toolbar, you can easily record and run VSTA macros. In addition, integration with the VSTA development environment offers extended functionality to help users create advanced macros. Users without a Microsoft Visual Studio licence can run VSTA macros.

LISP support: If you're migrating from AutoCAD, there's no need to rewrite time-saving macros that automate common tasks and extend the feature set. CorelCAD 2017 fully supports LISP routines created for AutoCAD. There's also support for Visual Lisp and ARX. CorelCAD 2017 also provides Icon menu support when working with LISP routines. This means that you can build custom dialog boxes that display preview thumbnails (SLD) of CAD components, which is especially useful for building custom libraries. In addition, CorelCAD 2017 adheres to a common structure for LISP programming, making it easy to reuse any existing automations without need to recompile.

**New!** CorelCAD Mobile: You can now extend the power of CorelCAD 2017 beyond your PC or Mac to your Android device. CorelCAD Mobile lets you design and annotate on the go without compromising on speed or performance.

Available on Google Play as a free app, you can activate a fully functional 30-day trial version of CorelCAD Mobile. After the trial period, you

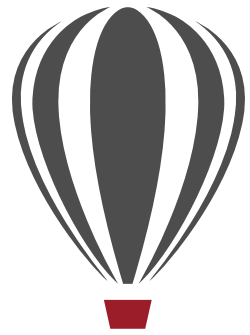
can still use the app in Simple mode, which allows you to view .DWG files, add basic annotation, and share files. CorelCAD 2017 licensed customers enjoy one year free access to the Full mode with complete 2D drawing, editing and advanced annotation capabilities. The licensed Full mode is activated by entering the product key obtained with the CorelCAD 2017 license and activating online.



*You can annotate and design on the go with the new CorelCAD Mobile for Android mobile devices.*

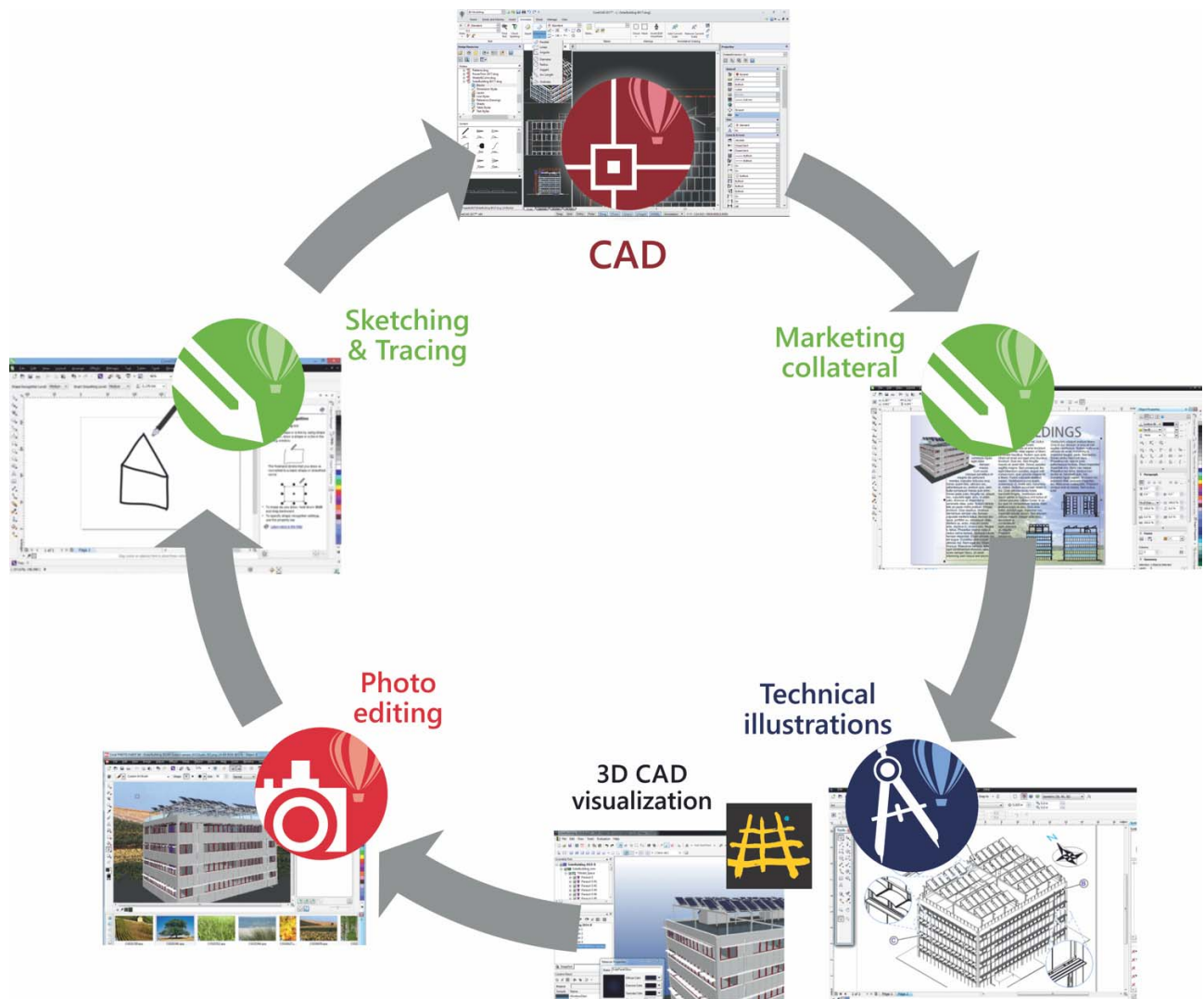


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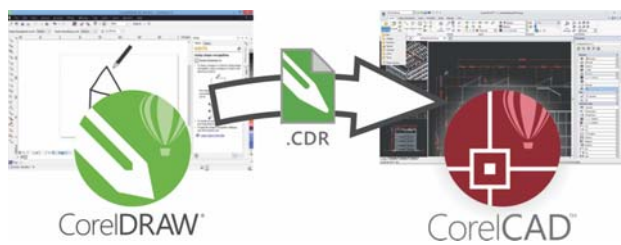
## Integrating CorelCAD™ 2017 into other graphics workflows

CorelCAD 2017 bridges the gap between CAD and other graphics workflows by offering import from and export to CDR and DES formats.

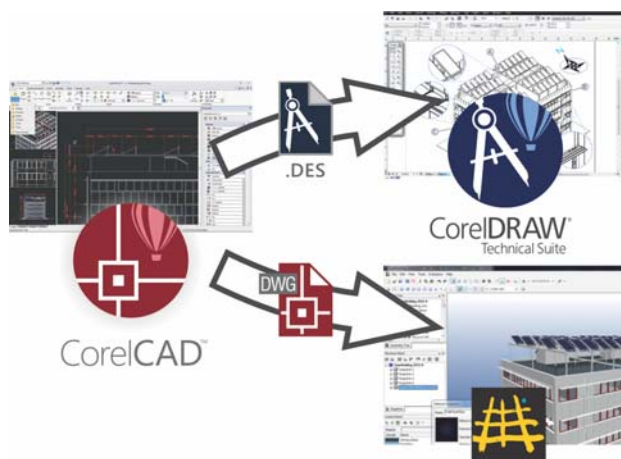


CAD applications usually provide very little file support for exporting drawings, creating a disconnect when you're trying to repurpose CAD for technical illustration or marketing design.

Unique to CorelCAD, this level of file support creates a complete, compatible graphics workflow from Corel, covering everything from concept design (CorelDRAW or Corel Painter), to CAD (CorelCAD), technical illustration (Corel DESIGNER) and marketing deliverables (CorelDRAW and Corel PHOTO-PAINT).

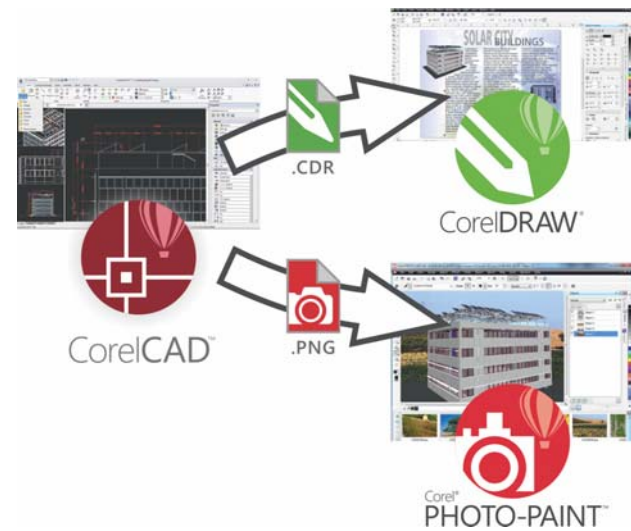


This simplifies the process of getting CAD models into downstream graphics workflows. CAD drawings are unreadable to most people. Exporting 3D CAD to a vector-based format, such as CorelDRAW or Corel DESIGNER, allows you to repurpose that content.



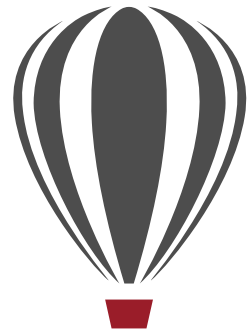
The vector files can be used in Corel DESIGNER to create technical illustrations destined for a wide variety of documentation, such as assembly instructions, parts catalogs, and training materials.

You can then leverage those technical illustrations in a creative way using CorelDRAW and Corel PHOTO-PAINT to create a range of marketing materials, such as flyers, web pages, presentations, and more.



*\* Please note, import and export of CorelDRAW (.CDR) and Corel DESIGNER (.DES) file formats is only available in CorelCAD 2017 for Windows.*

# 5



## Comparing CorelCAD™ 2017 for Windows and Mac OS to Light CAD applications

This table compares the features included in CorelCAD 2017 to features offered in other Light CAD applications.

	CorelCAD 2017	Light CAD applications
<b>File support</b>		
AutoCAD R2013 .DWG native file format	✓	✓
Legacy CAD file (AutoCAD R12 .DWG) support	✓	–
DXF (Drawing Exchange File) support	✓	✓
Drawing web format (DWF) support	✓	–
Recovery of corrupted drawings	✓	✓
Import CorelDRAW® (CDR) and Corel DESIGNER® (DES)	✓*	–
Number of supported file formats - Import	12*/10	~5
<b>User interface</b>		
Quick Input	✓	✓
Head-up toolbar	✓	✓
Ribbon user interface (UI)	✓*	✓*
Command auto-completion	<b>New!</b>	✓
Classic menu and toolbars	✓	✓
Tool matrix	✓	–
Design Resources docker	✓	✓
Right-click context menus	<b>Enhanced!</b>	✓*
Industry-standard command sequences and aliases	✓	✓
Search in Options dialog box	✓	–
<b>Viewing and Selection tools</b>		
Real-time Pan and Zoom	✓	✓
3D Mouse navigation	✓*	✓*
Object Snap (ESnap)	✓	✓
Object Tracking (ETTrack) / dynamic guides	✓	✓

[\* — Windows version only; (✓) — limited availability/support]

	CorelCAD 2017	Light CAD applications
Select matching entities command	✓	–
<b>Drafting and Editing</b>		
Layers Toolbar	✓	✓
Layer States Manager	✓	✓
Layer Preview tool	✓	–
Line weights (display and print)	<b>Enhanced!</b>	✓
Exploding Splines and Ellipses (to polylines)	✓	–
Exploding blocks instances while maintaining attributes (ExplodeBlockX)	✓	–
Center mark and Centerline tools	<b>New!</b>	✓
Drawing constraints (Parametric drawing tools)	✓	✓
QuickModify command (move, rotate, copy in one tool)	✓	–
PowerTrim	<b>Enhanced!</b>	–
Hatch, solid-color and gradient-fill editing	✓	✓
True Colors support	✓	✓
Multi-language character set	✓	✓
TrueType Fonts support	✓	✓
In-Place multiline text editing	✓	–
In-Place editing of block definitions and external references	<b>Enhanced!</b>	✓
Dynamic blocks support (inserting and manipulating)	✓	✓
CAD drawing standards verification	✓	–
<b>Annotation</b>		
Annotative scaling	✓	✓
Smart Dimensioning tool	✓	(✓)
Dimension palette (dynamic onscreen properties bar)	✓	–
Split and Join Dimensions	<b>New!</b>	–
Redline and markup	✓	✓
PDF Underlay	✓	✓
DGN (Microstation CAD file format) Underlay	✓	✓*
VoiceNotes	✓	–
Revision clouds	✓	✓
<b>3D viewing and design</b>		
3D model viewing	✓	✓
Projected (Isometric) views	✓	–
3D surface commands	✓	–
3D solid modeling	✓	–
<b>Layout tools</b>		
Tables	✓	✓

[\* — Windows version only; (✓) — limited availability/support]



	CorelCAD 2017	Light CAD applications
Images / References / Underlay rectangular and polygonal clipping	✓	✓
Masking Entities (Wipe out)	✓	✓
Non-rectangular viewports	✓	✓
<b>Printing, plotting, layout sheets</b>		
Multiple Layout Sheet Tabs (Multiple Paper Spaces)	✓	✓
Color table (CTB) Style table (STB) support	✓	✓
Print Configuration Manager	✓	✓
Batch Print	✓	✓
<b>Publishing/Output</b>		
Export to CorelDRAW (.CDR) and Corel DESIGNER (.DES)	✓*	–
Export to PDF	✓	✓
Export to SVG (Scalable Vector Graphics)	✓	–
STL Export for 3D printing	✓	–
JPEG / PNG output using Print Table Styles	✓	✓
Number of support file formats - Export	17*/15	5-10
<b>Collaboration</b>		
GIS file format support (ESRI Shape *.shp files)	✓	–
3D Solid geometry exchange file format (*.sat) support	✓	–
<b>Customization</b>		
Visual Menu and Toolbar Customization	✓	✓
User profiles management	✓	–
CUI Menu, CUIX (AutoCAD Ribbon UI workspaces) files support	✓*	✓*
Upgrade user settings from previous version	✓	✓
<b>Programming/Automation</b>		
LISP (including support for LISP commands from other CAD applications)	✓	–
COM API	✓*	–
Microsoft Visual Studio Tools for Applications (VSTA) support	✓*	–
Plug-in Store (corelcamarket.com)	✓	–
<b>OS support</b>		
Windows 10	✓	✓
Windows 8/8.1, Windows 7	✓	✓
Native 64-bit application	✓	✓
macOS Sierra	<i>New!</i>	–
Mac OS X (10.9-10.11)	✓	✓
2D drafting on mobile devices (Android)	<i>New!</i>	–
MSI-based network deployment	✓*	✓*

[\* — Windows version only; (✓) — limited availability/support]

## Minimum system requirements

### Windows

- Microsoft Windows 10, Windows 8, or Windows 7 (32-bit or 64-bit versions)
- Intel Core 2 Duo, or AMD Athlon x2 Dual-Core processor
- 2 GB RAM (8 GB or more recommended)
- 500 MB free hard disk space
- 3D Graphics accelerator card with OpenGL version 1.4 (OpenGL version 3.2 or better recommended)
- 1280 × 768 screen resolution (1920 × 1080 (Full HD) recommended)
- Mouse or tablet
- CD-ROM drive for installation from CD
- Internet connection for product activation and access to the plug-in store

### Mac OS

- Mac OS X v10.9 (Mavericks) or higher (including macOS Sierra)
- Intel processor
- 2 GB RAM (8 GB recommended)
- 500 MB hard-disk space
- 1280 × 768 screen resolution (1920 × 1080 (Full HD) recommended)
- Mouse or tablet
- CD-ROM drive for installation from CD
- Internet connection for product activation and access to the plug-in store

## About Corel

Corel is one of the world's top software companies, boasting some of the industry's best-known graphics, productivity, digital media and mind mapping products. We've built a reputation for giving customers more choice, and delivering solutions that are easy to learn and use. Our mission is simple: help people achieve new levels of creativity and productivity.

Corel's product lines include CorelDRAW® Graphics Suite, CorelDRAW® Technical Suite, Corel® Painter®, Corel® PaintShop® Pro, Corel® VideoStudio®, Corel® WordPerfect® Office, MindManager®, Pinnacle Studio™, ReviverSoft®, Roxio Creator®, Roxio® Toast™ and WinZip®. For more information on Corel, please visit [www.corel.com](http://www.corel.com).

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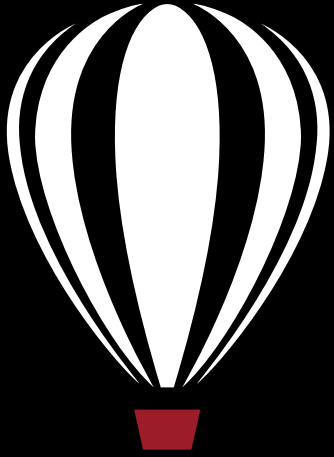
CorelCAD™ 2017 Reviewer's Guide

Product specifications, pricing, packaging, technical support and information ("specifications") refer to the retail English version only. The specifications for all other versions (including other language versions) may vary.

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