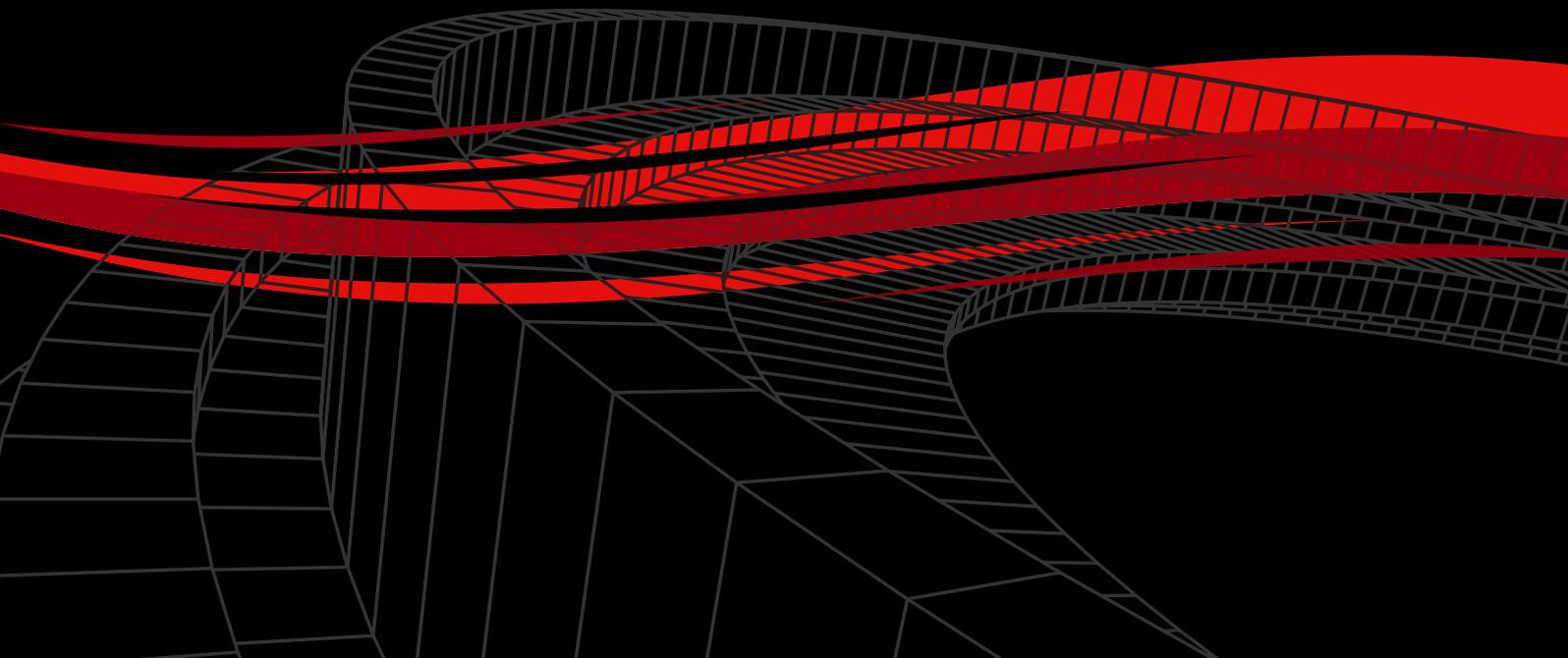


CorelCAD™ 2018

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REVIEWER'S GUIDE

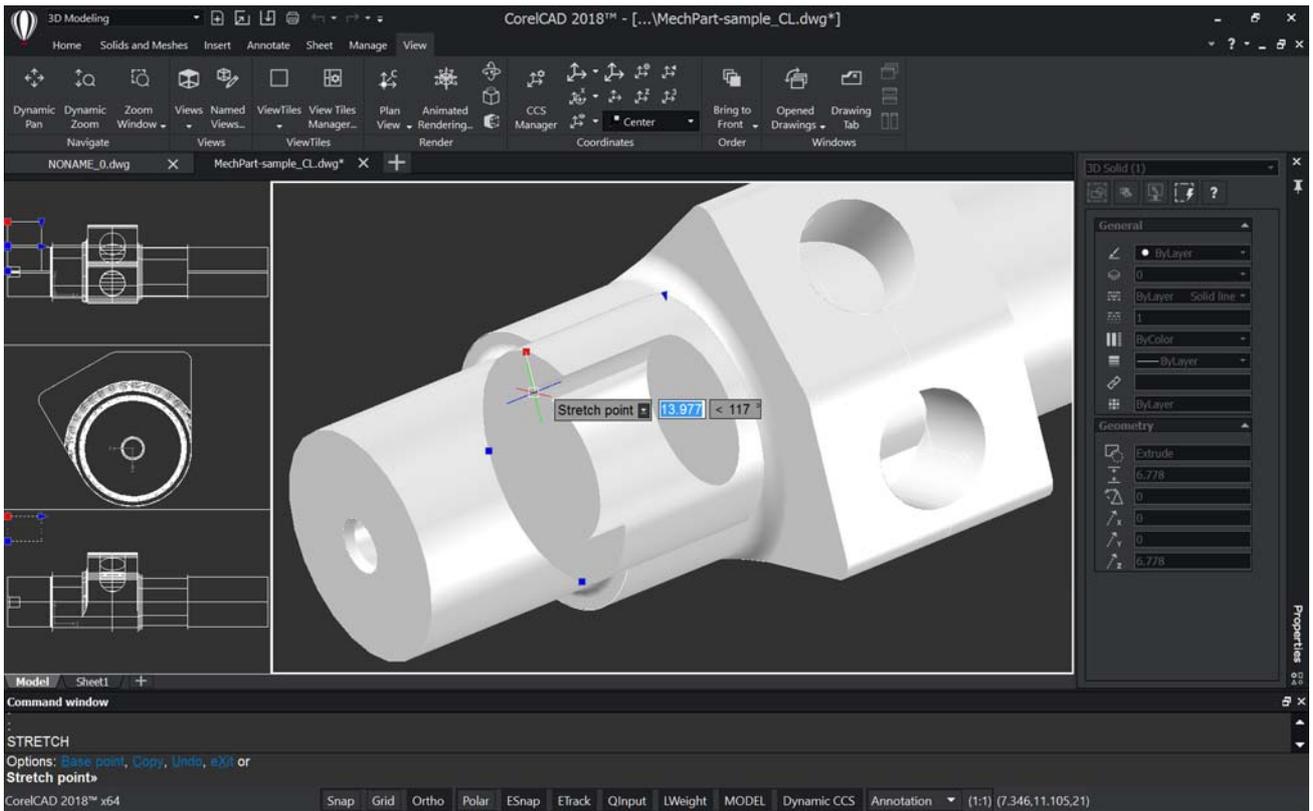


CorelCAD™ 2018

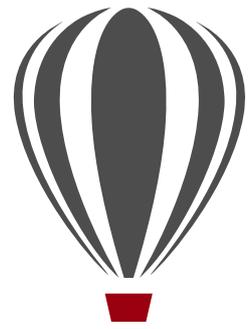
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1



Introducing CorelCAD™ 2018

CorelCAD™ 2018 delivers superior 2D drafting and 3D design tools that let graphics professionals enhance their visual communication with precision. It's the smart, affordable solution for drawing the detailed elements required for technical design. CorelCAD provides an enhanced UI for workflow efficiency and native .DWG file support for compatibility with all major CAD programs. With optimization for Windows and macOS, you can enjoy improved speed and impressive performance on the platform of your choice.

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 2018 simplifies things by offering an inexpensive, full-featured 2D CAD application with 3D solid modeling and editing tools.

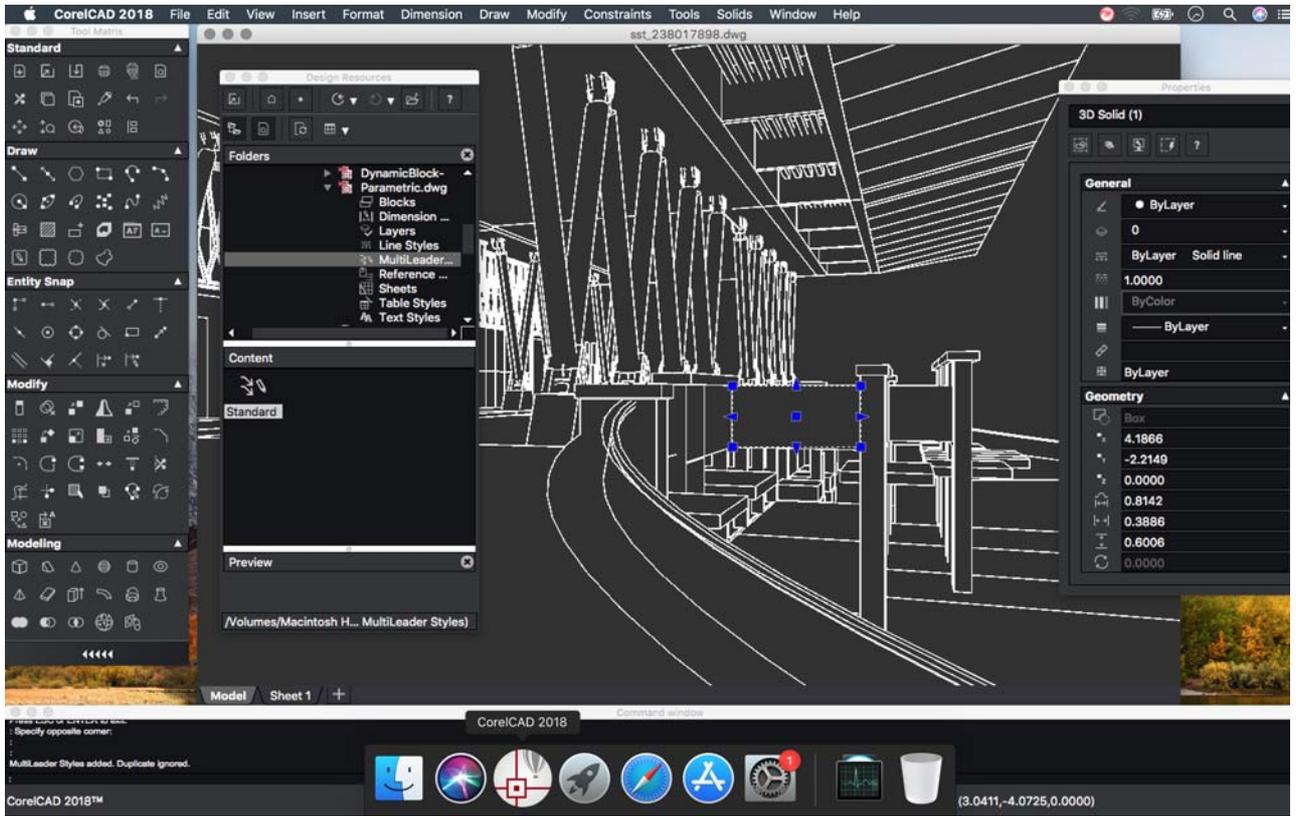
The use of CAD files is becoming more commonplace for a wide range of graphics professionals, from technical illustrators to designers in marketing departments — even among 3D printing enthusiasts. As such, businesses need a CAD solution that is versatile enough to be used effectively by a wide range 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) ensures versatile fidelity with industry standards. It supports saving to R2013 .DWG, offering robust handling of file attributes of non-supported AutoCAD features and preserving functionality in .DWG files, eliminating conversion and sharing issues.

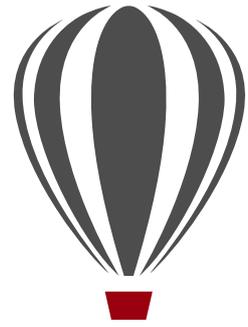
CorelCAD 2018 also opens R2018 .DWG, the latest AutoCAD .DWG file format generated by most recent AutoCAD application versions up to AutoCAD 2018.

If you've worked with other popular CAD tools, making the transition to CorelCAD 2018 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 macOS users. With that in mind, CorelCAD is optimized for both platforms — and at a fraction of the price of other CAD software available for macOS. And as mobile devices are revolutionizing how we work, CorelCAD 2018 extends the desktop to iOS and Android devices with the CorelCAD Mobile subscription, which offers full 2D drawing, editing, and annotation capabilities. Or if you just need to view and add simple annotations, you can use CorelCAD Mobile in simple mode as a free companion app.



2



Customer profiles

Architects, Engineers, and Construction (AEC) service providers

In the AEC sector, some CAD designers work primarily in 2D, switching to 3D when their workflow calls for it. Other CAD designers work in 3D from start to finish. 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 macOS or work in a hybrid Windows PC and macOS environment. And as mobile devices become more powerful, the ability to work anywhere opens up a world of possibilities for this sector.

CorelCAD 2018 offers a lightweight, standards-compliant 2D application that supports 3D solid modeling. The ability to work in the .DWG format, including opening AutoCAD 2018 .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, CorelCAD 2018 is optimized for both Windows and macOS, so users can work on the platform they prefer.

And CorelCAD Mobile is the perfect tool for getting things done anywhere, anytime on iOS and Android devices. Available as a subscription, it works seamlessly with Windows or macOS versions of CorelCAD and allows users to design, edit, and annotate on the go. The free app mode is 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.

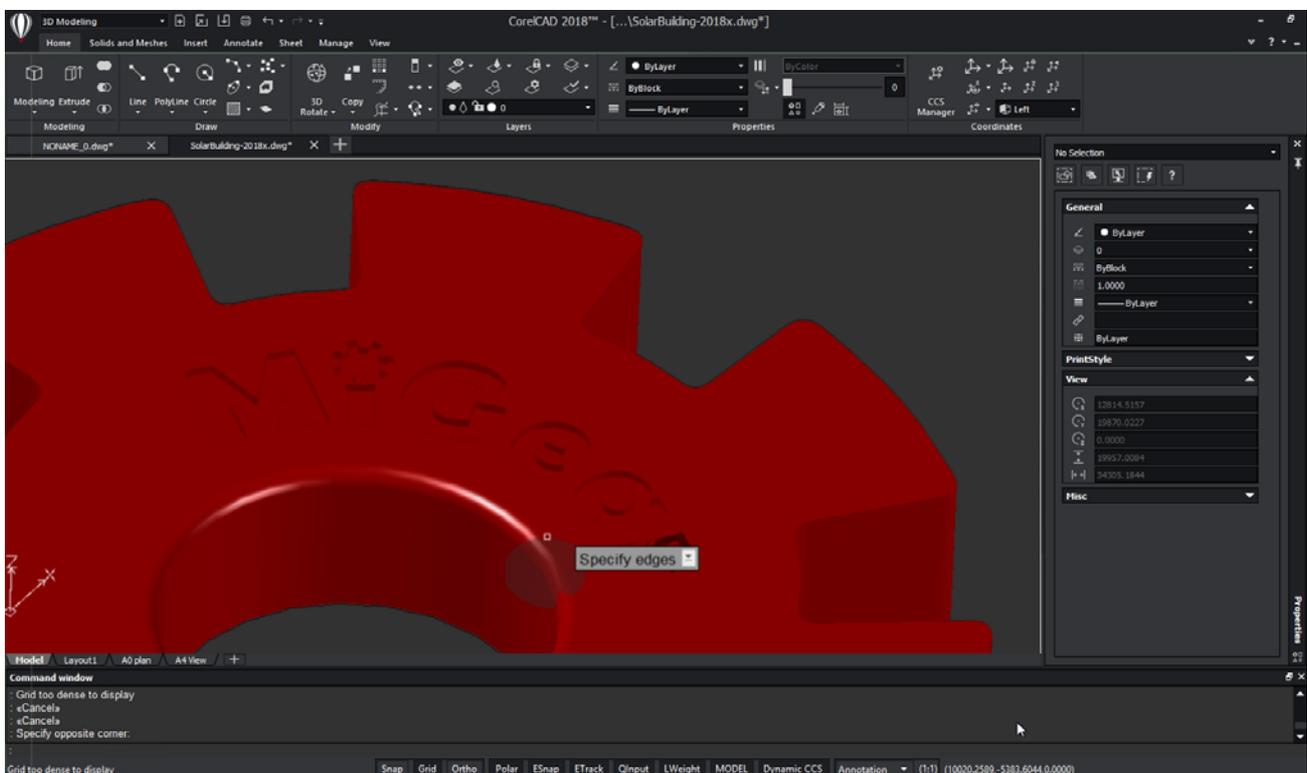
The foundation of their 3D printing projects is built using 2D vector graphics. The first step in their workflow is a 2D sketch because it's easier, faster and more intuitive than attempting to draw a 3D design from scratch.

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 2018 for a simplified 2D-to-3D conversion process, precise design tools, and intuitive 3D-solid editing capabilities to complete the project. They also seek the file compatibility CorelCAD 2018 offers with a range of common formats integral to 3D printing projects.

* Windows version only



Occasional 2D CAD users

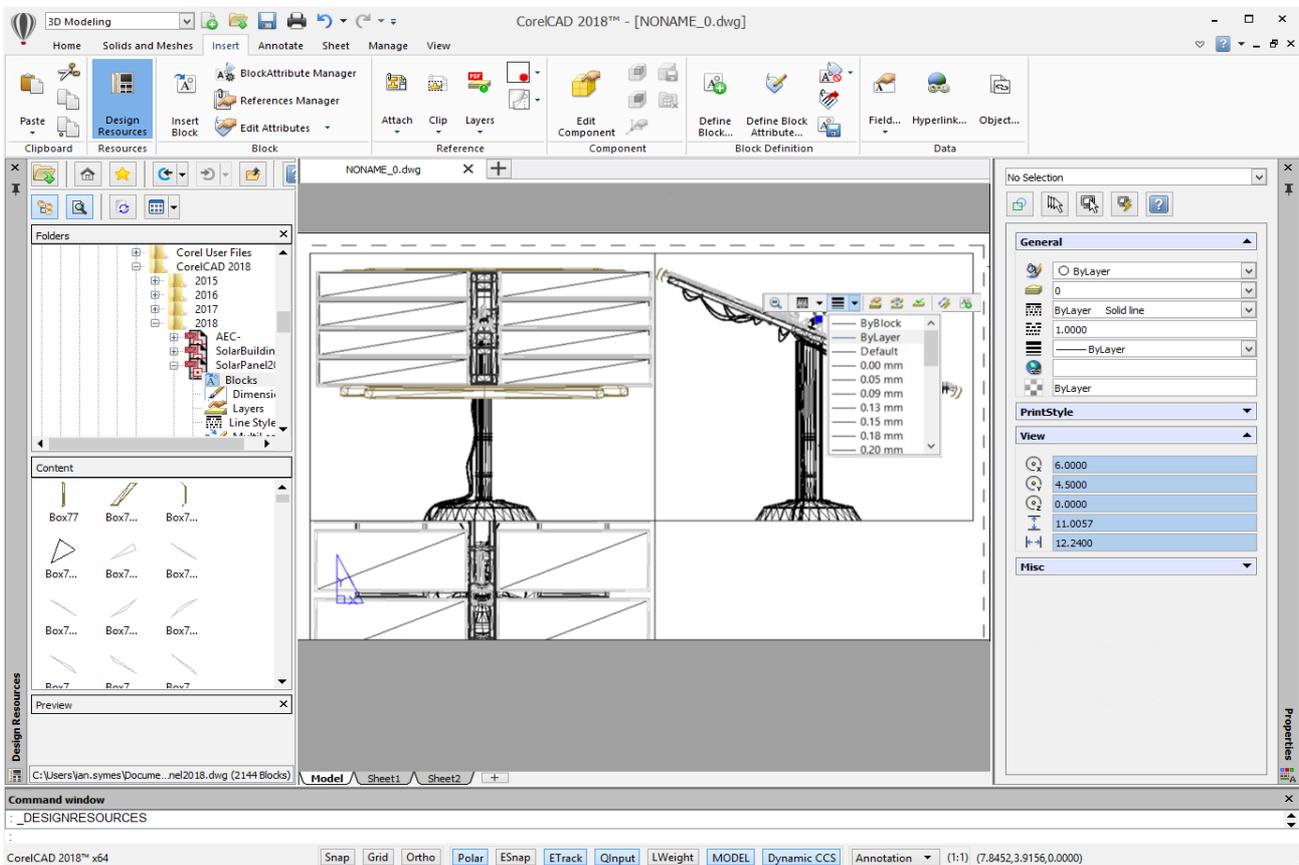
There are two groups of occasional 2D CAD users, each with distinct needs and workflows.

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.

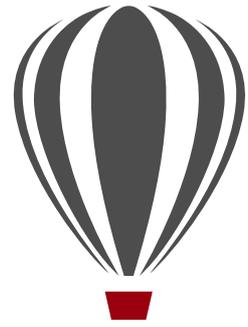
Secondly, graphic designers need an intuitive tool to edit CAD files that supports all elements of .DWG drawings, such as model spaces and layout sheets. They work in marketing and technical documentation departments, and the ability to work with 2D CAD files allows them to reuse design content in user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

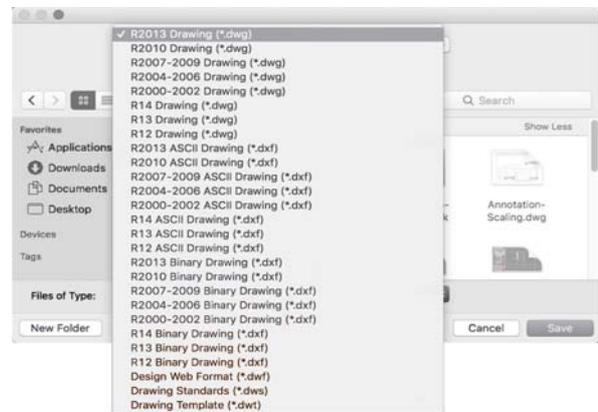
With native .DWG support and industry-standard CAD features, CorelCAD 2018 helps users be more productive with intuitive 2D- and 3D-design tools and versatile file-format compatibility. Optimized for Windows and macOS, CorelCAD delivers impressive speed and powerful performance on your preferred platform.

CorelCAD 2018 offers new time-saving on-screen 3D solid editing capabilities and advanced table commands, such as exporting comma-separated (CSV) files. You can also streamline your workflow with enhanced copy and paste commands that let you design faster and with more precision.

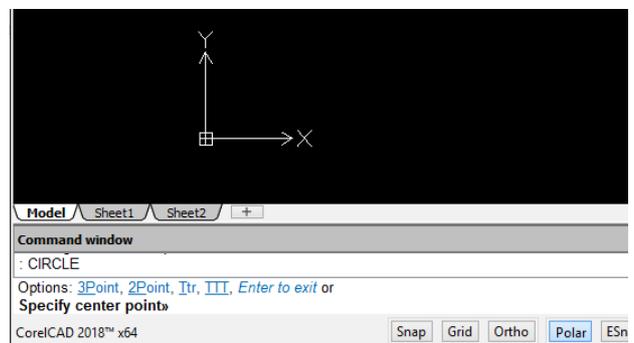
Advanced .DWG file support: While most CAD tools let you work with AutoCAD .DWG files, many employ their own native file formats. Often, converting these file formats to and from .DWG, causes critical loss or misrepresentation of parts of the drawing. And some CAD tools are unable to open these third-party proprietary file formats. CorelCAD 2018 uses .DWG as its primary drawing format. You can open and edit the latest AutoCAD R2018 .DWG files, including ones created using subscription versions of AutoCAD, 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 2018 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.

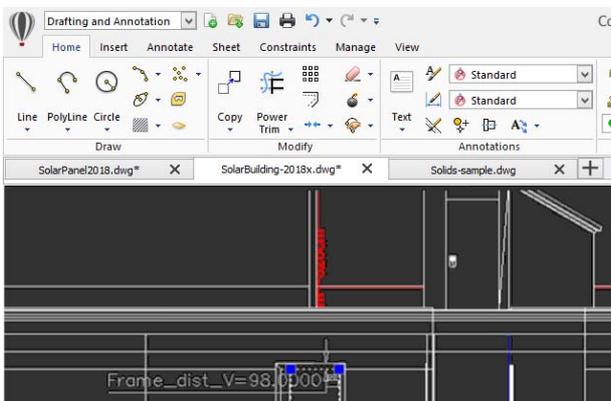


Familiar CAD user interface: If you've worked in other popular CAD applications, there's no learning curve with CorelCAD, so you can be productive immediately. Offering a familiar CAD user interface — including the command line — you can quickly get to work by using the same commands and keyboard shortcuts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



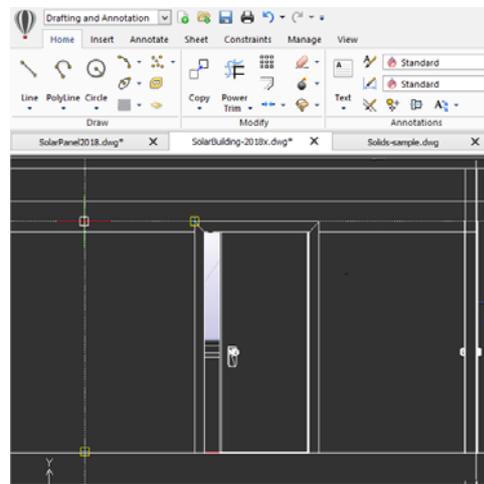
Ribbon user interface (UI): Familiar UI and efficient tool access help to ease the transition for new users migrating from other Windows-based CAD applications, such as AutoCAD. CorelCAD 2018 is compatible with all major CAD programs so users will feel at home working with a classic UI and traditional menu items or modern ribbon UI workspaces. In addition to offering workflow-oriented Ribbon workspaces*, such as 2D Drafting or 3D Modeling, CorelCAD 2018 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.



Smart drafting tools: CorelCAD 2018 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. This release introduces new commands that streamline your workflow. You can now quickly copy selected objects or clipboard content to the active layer rather than the source layer. Technical graphics professionals can speed up drafting with a variety of entity snap modes, entity tracking, and polar guides. You can also save time by

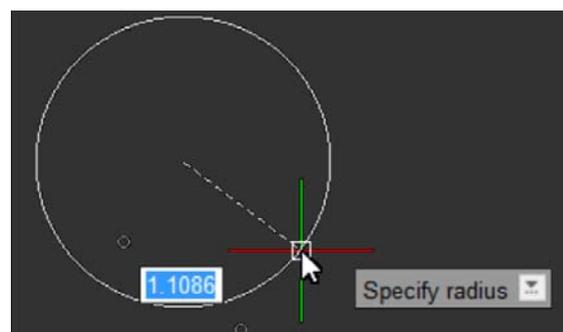
using EntityGrips to quickly reposition, align, copy, or resize entities.



New! Dynamic Custom Coordinate Systems: Custom coordinate systems (CCS) can be created to align the construction plane with drawing objects. CorelCAD 2018 offers new Dynamic CCS that align the active drawing plane to the planar face of a 3D solid object when you create 2D or 3D objects, text or when inserting a block or a reference drawing. In addition, you can enable or disable the Dynamic CCS feature with a simple click to keep your workflow as productive as possible.

Time-saving editing features: CorelCAD 2018 is designed to help you work quickly and with precision.

The Quick Input feature brings a command-entry interface directly to the cursor, so you can focus on your drawing. 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.

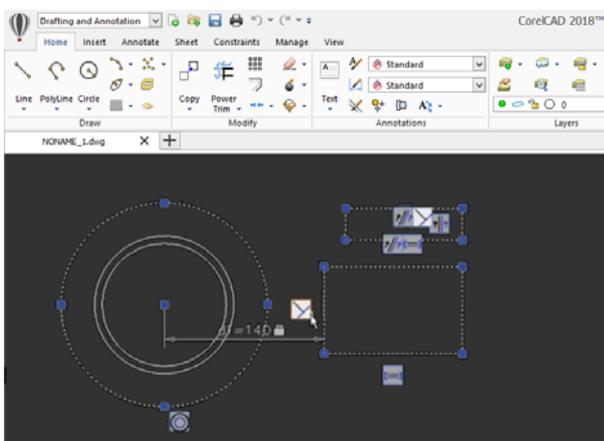


The Head-up toolbar is another time-saver, which you can choose to display whenever you select an entity. It gives you quick access to frequently used tools, magnification controls, and settings for an entity's layer, line and dimension properties.

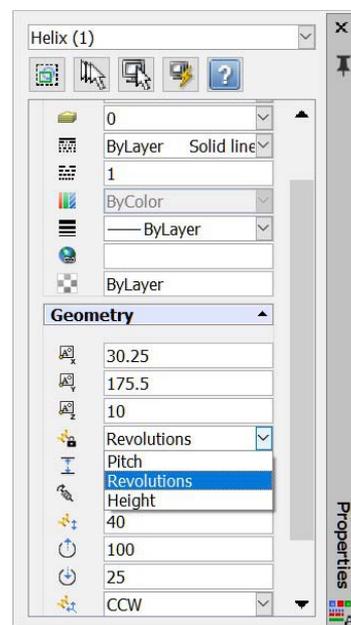


EntityGrips help you reposition, align, copy, or resize entities in no time. When you hover over an EntityGrip, an updated contextual shortcut menu is displayed that speeds up editing the geometry of objects. What's more, auto-completion commands speed up the entry of command names as you type them by displaying a suggestion list with command and variable names that contain the sub-string that you enter. And now in CoreCAD 2018, you can move selected entities with incrementally by holding down Shift and pressing an Arrow key.

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.



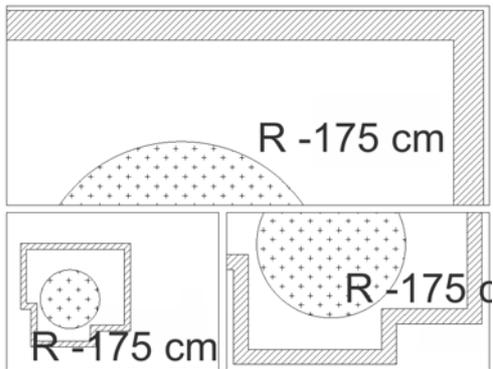
Enhanced! Properties palette: Whether your background is graphic design or CAD, the Properties docker is a familiar feature, and it's even more powerful in CoreCAD 2018. It now offers more parameters for manipulating and editing 3D solid objects that used to only be available in 2D. The Properties docker 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.



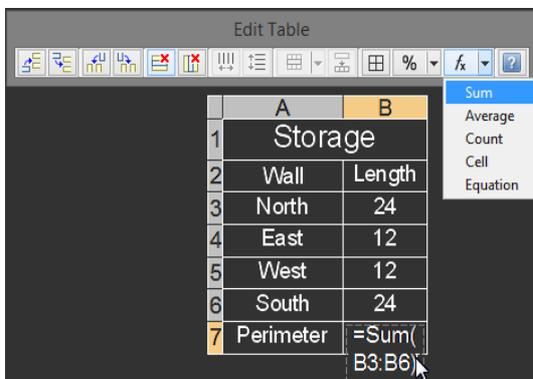
In-place text editing: Instead of using a separate dialog box, CoreCAD offers direct onscreen text editing. You can quickly stack text and paste formatted text from Microsoft Word within your project. With in-place text editing, it's easy to modify the definitions of components (block definitions) or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

CoreCAD 2018 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! Tables: CorelCAD 2018 gives you more versatility when working with tables. The new ExportTable command lets you export tables in a comma-separated format (CSV) for reuse in spreadsheet or database software, such as Microsoft Excel or other CSV-compatible applications. What's more, you can add formulas into cells with arithmetic operators and the Sum, Average, and Count functions, then include them in a spreadsheet or database program.



Give it a try

Inserting formulas in tables

- 1 In the Classic workspace, click **Draw** menu ▶ **Table**.
- 2 In the Insert Table dialog box, type **7** in **Number** box in the Rows area, and click **OK**.
- 3 Click in the drawing to position the table.

Give it a try

4 Add the following information to the table. You can use the **Tab** key to move to the next cell.

- In the row 1, type **Storage**.
- In row 2, type **Wall** in column **A** and **Length** in column **B**.
- In row 3, type **North** in column **A** and **24** in column **B**.
- In row 4, type **East** in column **A** and **12** in column **B**.
- In row 5, type **West** in column **A** and **12** in column **B**.
- In row 6, type **South** in column **A** and **24** in column **B**.
- In row 7, type Perimeter in column **A**.

5 In row 7, click column **B**.

The Edit Table toolbar appears.

6 On the Edit Table toolbar, click the

Formula drop-down and click **Sum**.

7 Drag over column B from row 3 to row 6, and click.

The sum of the selected cells (the perimeter of the storage room), appears in the cell at row 7, column B.

Precise Dimension tools: CorelCAD 2018 has tools and features that simplify working with dimensions. The Smart Dimension tool suggests the most appropriate and precise dimension type automatically. 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. And the SplitDimension command has a range of options for splitting dimension and extension lines of Dimension entities where they intersect other entities.

New! MultiLeader tool: CorelCAD 2018 lets you draw, edit, and configure callouts with multiple leader lines to give your drawing a consistent, ordered look using the new MultiLeader commands. This handy tool also allows you to add and remove leader lines to and from the MultiLeaders so you can adjust and edit them as your drawing changes.

Layer tools: CorelCAD 2018 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.

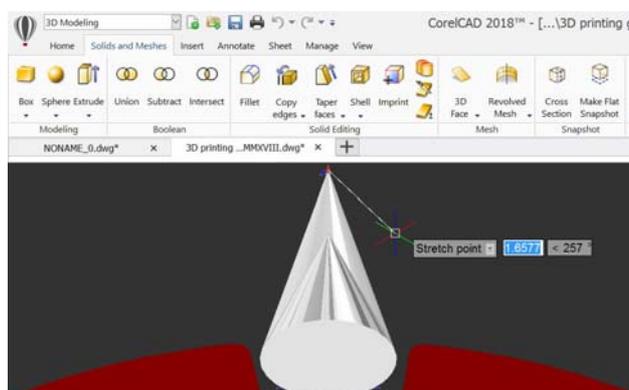
Enhanced! Solid modeling tools: With its 3D solid modeling tools, CorelCAD 2018 ensures that you can work with increasingly common 3D designs.

You can take advantage of the new Helix tool to give any object a three-dimensional shape in a single layer around a cylindrical shape. It lets you use 2D spirals and 3D helices as paths to create threads, springs, and spiral stairs, maximizing shaping possibilities in your designs.

CorelCAD 2018 also offers more EntityGrips for modifying 3D solid objects, making it easier to interactively manipulate entities.

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 2018 also gives you the ability to

slice and intersect solids, and edit edges, faces and bodies of 3D solids.



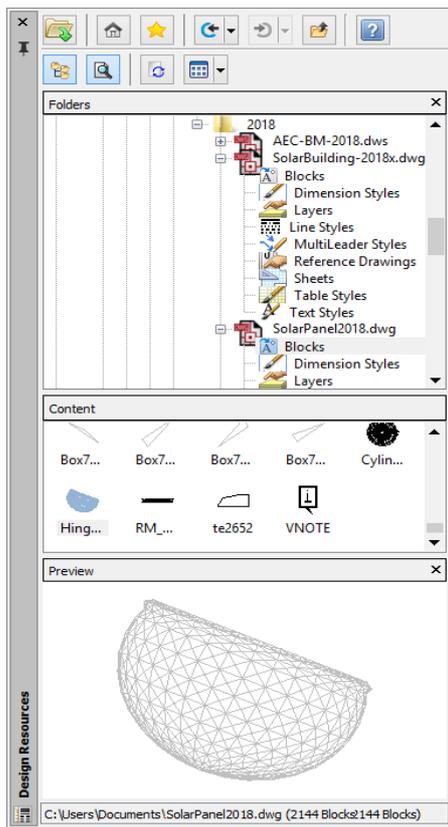
Give it a try

Designing in 3D

- 1 Click **File** menu ► **New**, choose the standard template, and click **Open**.
- 2 Click the drop-down menu | **Classic** ▼ in the upper left corner of the workspace, and choose **3D Modeling**.
- 3 Click the **Solids and Meshes** tab.
- 4 In the Modeling area, click the **Box** group, and choose **Pyramid**.
- 5 Click in the graphics area to set the center point, and drag to create the pyramid.
- 6 Click pyramid to select it.
- 7 Click a blue arrow entity grip ▼. When it's selected, it turns red.
- 8 Interactively edit the pyramid with your mouse by dragging the top-center entity grip arrow to modify the height of the pyramid or the base-side entity grip arrow to modify the length of the base side.
- 9 Click again to release the entity grip at its new location.

You can use the Quick Input window to specify precise values or coordinates for a modification. Just press **Enter** for the new values to take effect

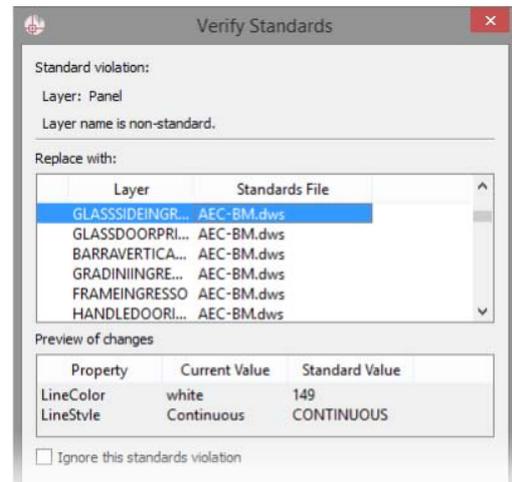
Design Resources docker: With the handy Design Resources docker, you can quickly access and repurpose existing design assets, such as blocks, dimension styles, layers, line styles, reference drawings, sheets, table styles, and text styles. The Design Resources docker makes it easy to find and access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



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 underlays from current drawings. CoreCAD 2018 also supports Microstation DGN files as underlays.

CAD standards verification: CoreCAD 2018 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

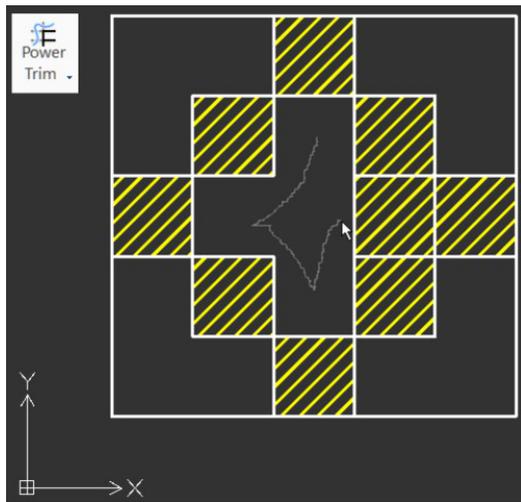
associated Drawing Standards file (DWS). You can then quickly replace any nonstandard items.



Enhanced! Block Attributes: You can use BlockAttribute definitions to attach variable or constant text to Blocks to provide information about it. New in CoreCAD 2018 is the BlockAttributeManager, which manages properties and settings of BlockAttributes in Block definitions. It also lets you change the order in which you are prompted for BlockAttribute values when you insert a Block, synchronize all instances of Blocks based on settings in the Block Attribute Manager, and delete BlockAttributes from Blocks. Another new command is RedefineBasePoint, which sets a new insertion base point for all instances of a Block.

Other CoreCAD Block Attribute commands include 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. 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

Trimming options: CorelCAD 2018 makes it easy to edit shapes, including filled objects such as hatches and gradients. You can 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.

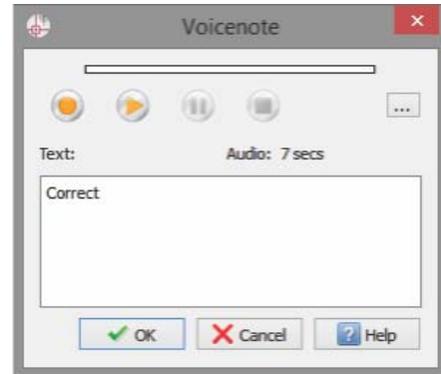


Polyline editing: Because polylines are the basis of so many designs, polyline editing is a focus CorelCAD. You can taper the width of a polyline from the starting point to the ending point, reverse its direction, and add a vertex to its midpoint. You can also convert a linear polyline to an arc or a 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 2018 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 2018.



Revision Cloud tool: With CorelCAD 2018, 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.

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.

AutoCAD .DWG support: CorelCAD 2018 saves to R2013 .DWG natively, which ensures full compatibility, support, features, and CorelCAD file attributes in .DWG format. CorelCAD 2018 opens .DWG files of any version, including AutoCAD R2018 .DWG, the latest .DWG file format version introduced with AutoCAD 2018. This level of support is paramount for users who receive and manipulate files created with AutoCAD 2018 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 2018 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.

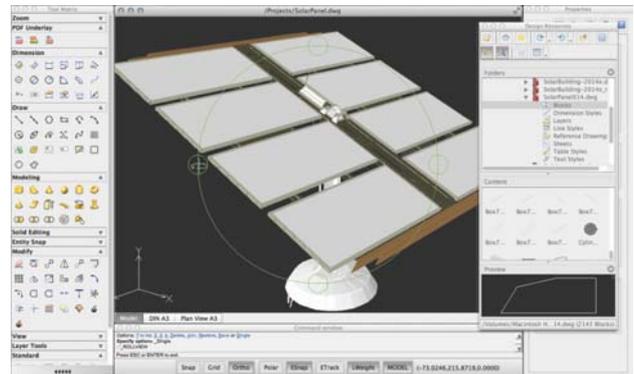
Access drafts and sketches from CorelDRAW®*: Many designers prefer to use a creative graphics application for making first sketches, prior to getting down to the precise CAD drafting and 2D/3D modeling work. With CorelCAD 2018 for Windows, you can import CorelDRAW (CDR) and Corel DESIGNER (DES) files 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 2017) and DES files (from version 10 to 2017).

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 2018 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 2018 for Windows.)

Work with GIS files: CorelCAD 2018 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.

Repurpose 3D CAD files: With support for the popular 3D exchange file format ACIS SAT, CorelCAD 2018 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 macOS), 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, macOS or Windows, CorelCAD lets you work quickly and efficiently on your platform of choice. And while some macOS CAD tools aren't nearly as feature-rich as their Windows equivalent, CorelCAD is designed to give Windows and macOS users almost the same level of functionality (*all features apply to both operating systems unless noted*). And in the interest of user choice, CorelCAD 2018 is available as either a perpetual license or subscription. Subscription licenses will be available for purchase directly through platform-specific app stores, providing users with the latest upgrade while the subscription is valid.

And when you need to keep working when you're away from your desk, there's CorelCAD Mobile. As iOS or Android subscription, it lets you work anywhere, anytime by delivering full 2D drawing, editing, annotation functionality to your iOS or Android device. And if you only need to view and add simple notes to a .DWG file when you're on the go, there's a free mode of the CorelCAD Mobile companion app available.

Windows 10 and macOS support: CorelCAD 2018 is fully accessible for Windows 10 users through the desktop. Mac users can take full advantage of new macOS High Sierra features. Plus, CorelCAD 2018 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 2018 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 2018 offers remarkable application speed for both Windows and macOS. The application also provides significantly improved and accelerated display regeneration, which results in smoother zooming and panning operations in large and complex CAD drawings.

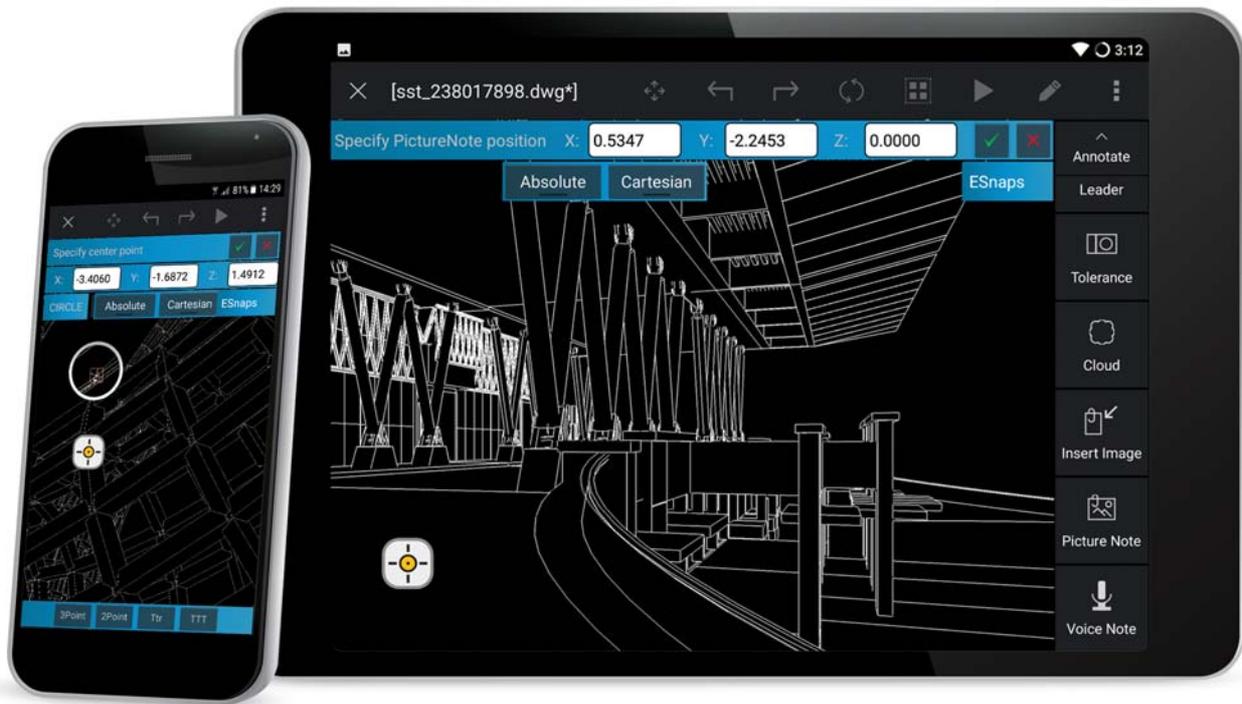
Automation support: You can extend your productivity by taking advantage of the LISP and Microsoft Visual Studio Tools for Applications (VSTA)* programming interfaces to automate repetitive tasks and create your own functions, routines, and plug-ins. You can also access the plug-in store for CorelCAD 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 2018 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 2018 supports LISP routines created for AutoCAD. There's also support for Visual Lisp and ARX. CorelCAD 2018 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 2018 adheres to a common structure for LISP programming, making it easy to reuse any existing automations without need to recompile.

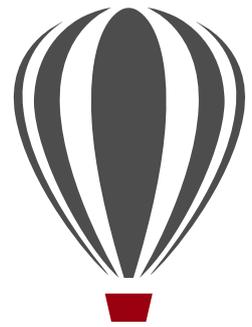
Enhanced! CorelCAD Mobile: You can now extend the power of CorelCAD 2018 beyond your PC or Mac to your iPad, iPhone, or Android device. CorelCAD Mobile lets you design and annotate on the go without compromising on speed or performance.

You have a choice of two CorelCAD Mobile options. First, there's a subscription version that delivers full 2D drawing and editing, as well as advanced annotation capabilities, such as PictureNote and VoiceNote. There's also a free version that allows you to view .DWG files, add basic annotation, and share files.



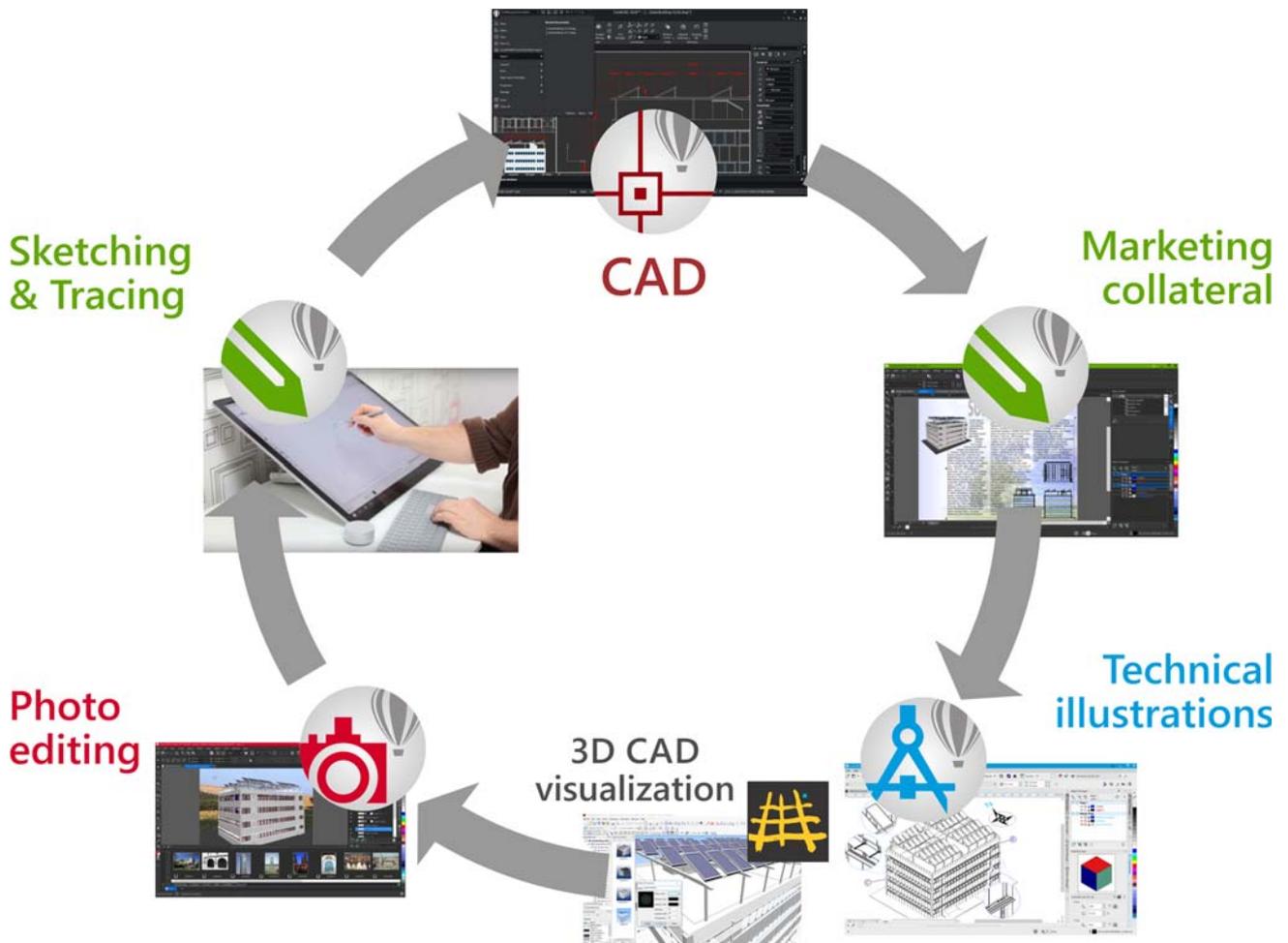
You can annotate and design on the go with CorelCAD Mobile for iOS and Android devices.

4



Integrating CorelCAD™ 2018 into other graphics workflows

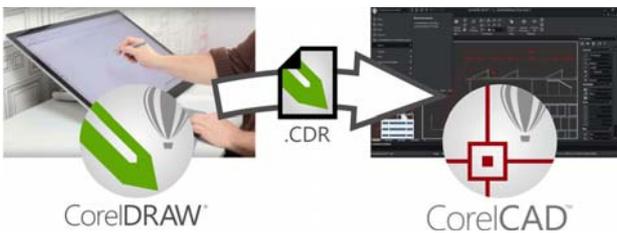
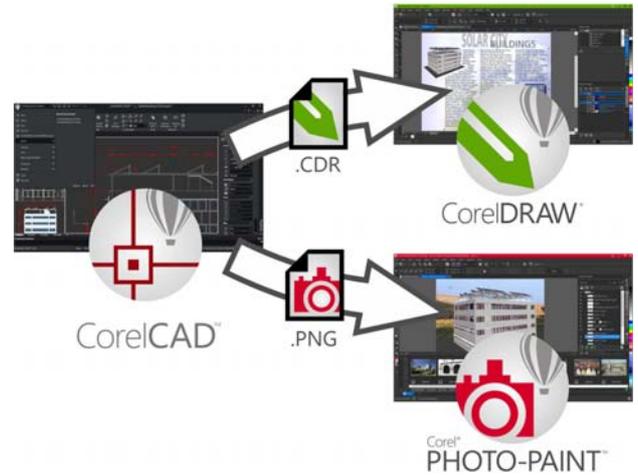
CorelCAD 2018 bridges the gap between CAD and other graphics workflows by offering import from and export to CDR and DES formats.



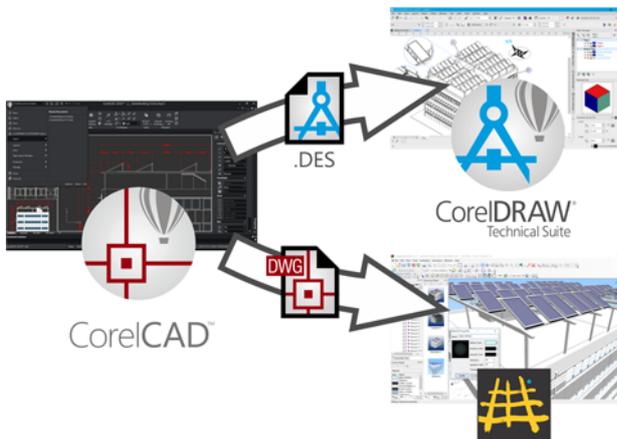
CAD applications usually provide very little file support for exporting drawings, creating a disconnect when you're trying to repurpose CAD for technical illustration or marketing design.

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).

marketing materials, such as flyers, web pages, presentations, and more.



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.

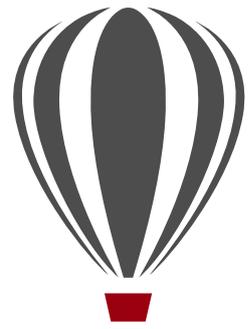


The vector files can be used in Corel DESIGNER to create technical illustrations destined for a wide variety of documentation, such as assembly instructions, parts catalogs, and training materials.

You can then leverage those technical illustrations in a creative way using CorelDRAW and Corel PHOTO-PAINT to create a range of

* Please note, import and export of CorelDRAW (.CDR) and Corel DESIGNER (.DES) file formats is only available in CorelCAD 2018 for Windows.

5



Comparing CorelCAD™ 2018 for Windows and macOS to Light CAD applications

This table compares the features included in CorelCAD 2018 to features offered in other Light CAD applications.

	CorelCAD 2018	Light CAD apps
File support		
Open AutoCAD R2018 .DWG file format	New!	✓
Save .DWG file format natively	✓	✓
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
User interface		
Quick Input	✓	✓
Head-up toolbar	✓	✓
Ribbon user interface (UI)	✓*	✓*
Command auto-completion	✓	✓
Classic menu and toolbars	✓	✓
Tool matrix	✓	–
Properties palette (New 3D solid properties)	Enhanced!	(✓)
Design Resources docker	✓	✓
Right-click context menus	✓	✓*
Industry-standard command sequences and aliases	✓	✓
Search in Options dialog box	✓	–
Viewing and Selection tools		
Real-time Pan and Zoom	✓	✓
3D Mouse navigation	✓*	✓*
Object Snap (ESnap)	✓	✓

[* — Windows version only; (✓) — limited availability/support]; ** — separate purchase on App Store

	CorelCAD 2018	Light CAD apps
Object Tracking (ETTrack) / dynamic guides	✓	✓
Select matching entities command	✓	–
Drafting and Editing		
Layers Toolbar	✓	✓
Layer States Manager	✓	✓
Layer Preview tool	✓	–
Line weights (display and print)	✓	✓
Exploding Splines and Ellipses (to polylines)	✓	–
Exploding blocks instances while maintaining attributes (ExplodeBlockX)	✓	–
Helix tool	New!	–
Center mark and Centerline tools	✓	✓
Drawing constraints (Parametric drawing tools)	✓	✓
QuickModify command (move, rotate, copy in one tool)	Enhanced!	–
PowerTrim	✓	–
Hatch, solid-color and gradient-fill editing	✓	✓
Multi-language character set	✓	✓
TrueType Fonts support	✓	✓
In-Place multiline text editing	✓	–
Dynamic blocks support (inserting and manipulating)	✓	✓
CAD drawing standards verification	✓	–
Annotation		
Annotative scaling	✓	✓
Smart Dimensioning tool	✓	(✓)
Dimension palette (dynamic onscreen properties bar)	✓	–
Split and Join Dimensions	✓	–
Multi-Leaders (callouts combining multiple leader lines into one callout)	New!	–
Redline and markup	✓	✓
PDF Underlay	✓	✓
DGN (Microstation CAD file format) Underlay	✓	✓*
VoiceNotes	✓	–
Revision clouds	✓	✓
3D viewing and design		
3D model viewing	✓	✓
Projected (Isometric) views	✓	–
Dynamic Custom Coordinate system	New!	–
3D surface commands	✓	–
3D solid modeling	✓	–
3D solid editing using on-screen EntityGrips and Properties palette	New!	–

[* — Windows version only; (✓) — limited availability/support; ** — separate purchase on App Store]

	CorelCAD 2018	Light CAD apps
Layout tools		
Formulas in table cells	New!	(✓)
Images / References / Underlay rectangular and polygonal clipping	✓	✓
Masking Entities (Wipe out)	✓	✓
Non-rectangular viewports	✓	✓
Printing, plotting, layout sheets		
Multiple Layout Sheet Tabs (Multiple Paper Spaces)	✓	✓
Color table (CTB), Style table (STB) support	✓	✓
Print Configuration Manager	✓	✓
Publishing/Output		
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	18*/16	5-10
Collaboration		
GIS file format support (ESRI Shape *.shp files)	✓	–
3D Solid geometry exchange file format (*.sat) support	✓	–
Export tables (CSV)	New!	–
Customization		
Visual Menu and Toolbar Customization	✓	✓
User profiles management	✓	–
CUI Menu, CUIX (AutoCAD Ribbon UI workspaces) files support	✓*	✓*
Programming/Automation		
LISP (including support for LISP commands from other CAD applications)	✓	–
COM API	✓*	–
Microsoft Visual Studio Tools for Applications (VSTA) support	✓*	–
OS support		
Windows 10, Windows 8.1, Windows 7	✓	✓
Native 64-bit application	✓	✓
MSI-based network deployment	✓*	✓*
Mac OS X (including macOS Sierra (10.12))	✓	✓
macOS High Sierra	New!	–
2D drafting on iOS mobile devices	New!**	–
2D drafting on Android mobile devices	✓**	–

[* — Windows version only; (✓) — limited availability/support; ** — separate purchase on App Store]

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
- DVD drive optional (for box installation)
- Internet connection for product activation and access to the plug-in store

macOS

- Mac OS X v10.10 (Yosemite) or higher (including macOS Sierra)
- Intel Core 2 Duo processor (or better)
- 2 GB RAM (8 GB recommended)
- 3D Graphics accelerator card with OpenGL version 1.4 (OpenGL version 3.2 or better recommended)
- 500 MB hard-disk space
- 1280 × 768 screen resolution (1920 × 1080 (Full HD) recommended)
- Mouse or tablet
- DVD drive optional (for box installation)
- 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.

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CorelCAD™ 2018 Reviewer's Guide

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