COREL

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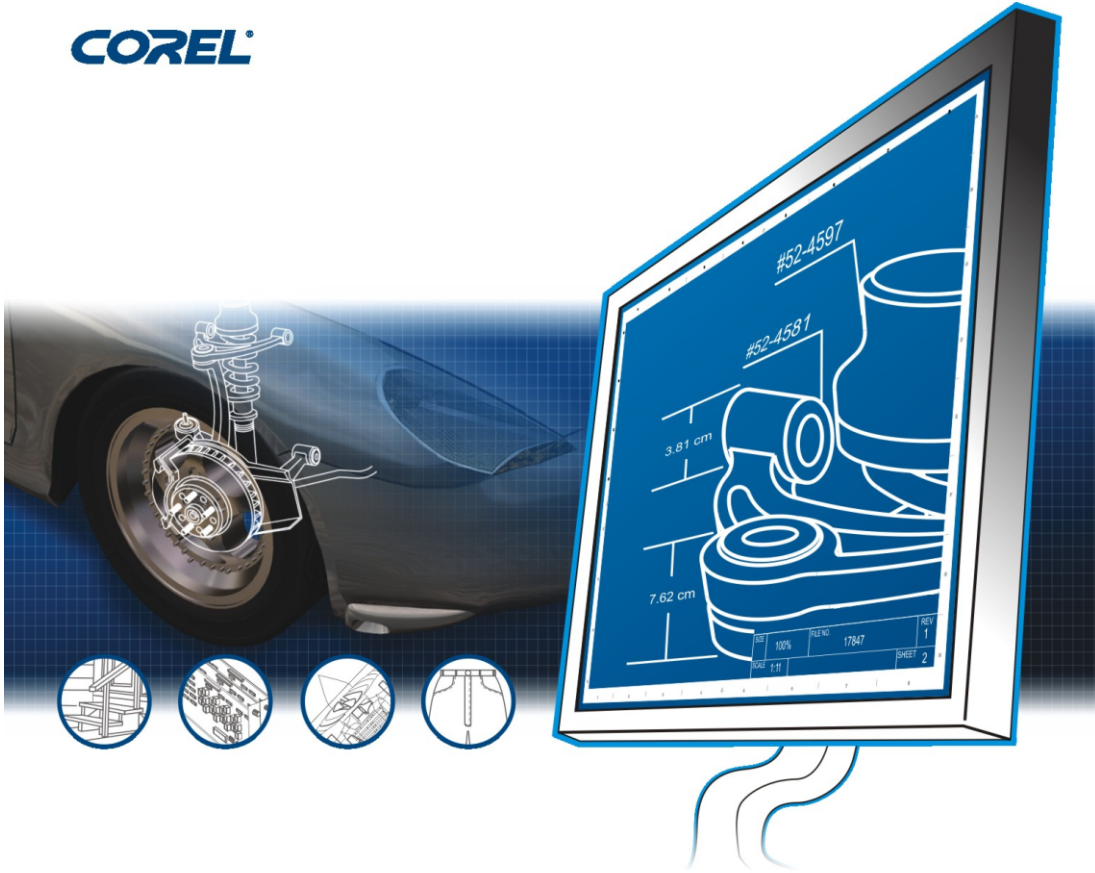| SIZE | | FILE NO. | | REV |
| 100% | | 17847 | | 1 |
| SCALE 1:11 | | | SHEET | 2 |

COREL
DESIGNER
Technical Suite 12

Reviewer's Guide

Product specifications, pricing, packaging, technical support and information ("Specifications") refer to the United States retail English version only. The United States retail version is available only within North America and is not for export. Specifications for all other versions (including language versions and versions available outside of North America) may vary.

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Contents

Introducing Corel DESIGNER® Technical Suite 12

Corel DESIGNER® Technical Suite 12 is a comprehensive and complete technical graphics suite, offering one of the most competitive price/performance ratios in the industry today. Designed to meet the needs of value conscious customers in the technical graphics segment, no other technical graphics suite available today can match its breadth of high-end benefits and functionality at an affordable price. Corel DESIGNER Technical Suite 12 meets the immediate and long-term needs of organizations who need to create technical documents faster and with greater precision, while reducing their overall cost of ownership.

The complete technical graphics solution

In one complete package, Corel DESIGNER Technical Suite 12 provides powerful applications and compelling new features that enhance the design experience. Corel DESIGNER 12 offers the new projected drawing modes which dramatically speed the design process. The new suite also includes Corel PHOTO-PAINT® 12 — a complete image-editing application for retouching and enhancing photos.

To help repurpose legacy drawings, the suite includes CorelTRACE® 12, a bitmap-to-vector tracing utility that converts scanned or manually created bitmaps into editable vector images. Corel CAPTURE™ 12, an advanced screen capture utility, is also included to help capture images. Rounding out the suite is Microsoft® Visual Basic® for Applications, which provides application customization and extensibility for both Corel DESIGNER and Corel PHOTO-PAINT.
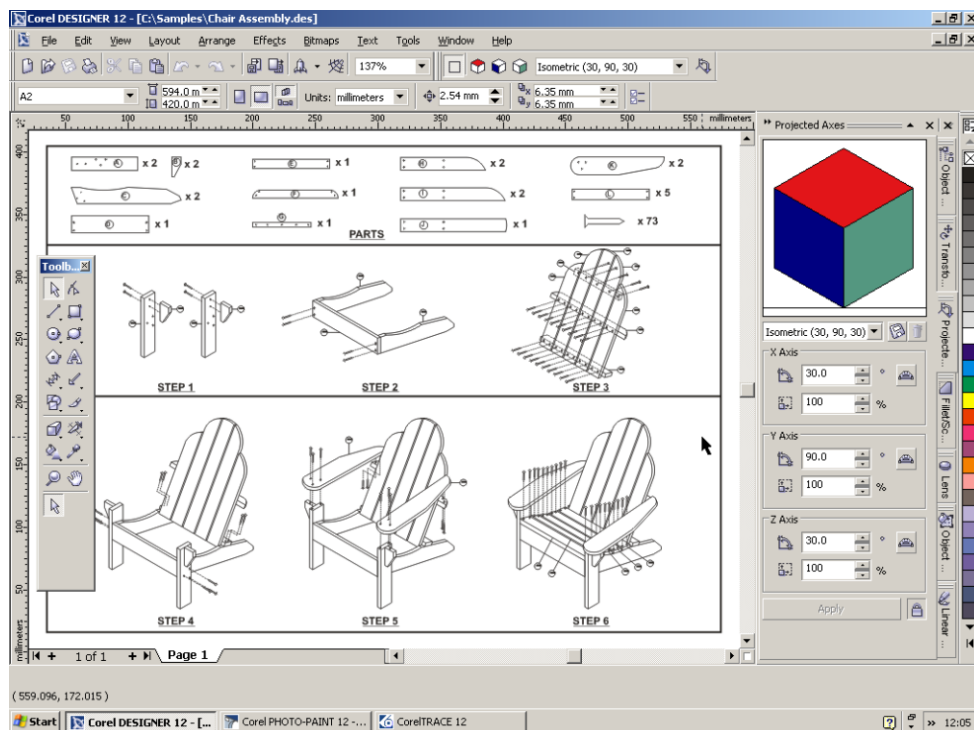
Precision, flexibility, and ease of use

The outstanding features of Corel DESIGNER Technical Suite 12 were developed specifically for the workflow of the technical illustrator, with many additional creative features, and exceptional ease of use. The new projected drawing modes dramatically increase productivity by letting the technical illustrator actively draw on the projected plane, which eliminates the need to draw the object first and then project it in a second step. The Callout tools provide numerous options for identifying objects in a drawing. Technical illustrators can choose from several text styles and a variety of line segment endings, including arrowheads and other symbols.

Precision is paramount in technical illustration. Accurate placement of objects on the drawing page and in relation to other objects is imperative. To that end, Corel DESIGNER Technical Suite 12 provides an array of tools and features that ensure precision. For example, features such as gravity snapping and dynamic guides help technical illustrators draw and place objects accurately, reducing creation time.

To facilitate collaboration, Corel DESIGNER Technical Suite supports more than 75 file formats, including DXF, DWG, SVG, CGM, CDR, PDF, PSD, TIFF, AI, EPS, DOC, and XLS. The import and export options ensure that technical illustrators can share their work and repurpose legacy designs. The suite provides flexibility in the form of creative tools and extensive text formatting capabilities. Moreover, Corel DESIGNER Technical Suite 12 includes Corel PHOTO-PAINT for editing photos. It also includes content specific to technical illustration, such as hatch fills, vector fills, raster fills, more than 4,000 industry-standard symbols, Clipart, linear patterns, and more.
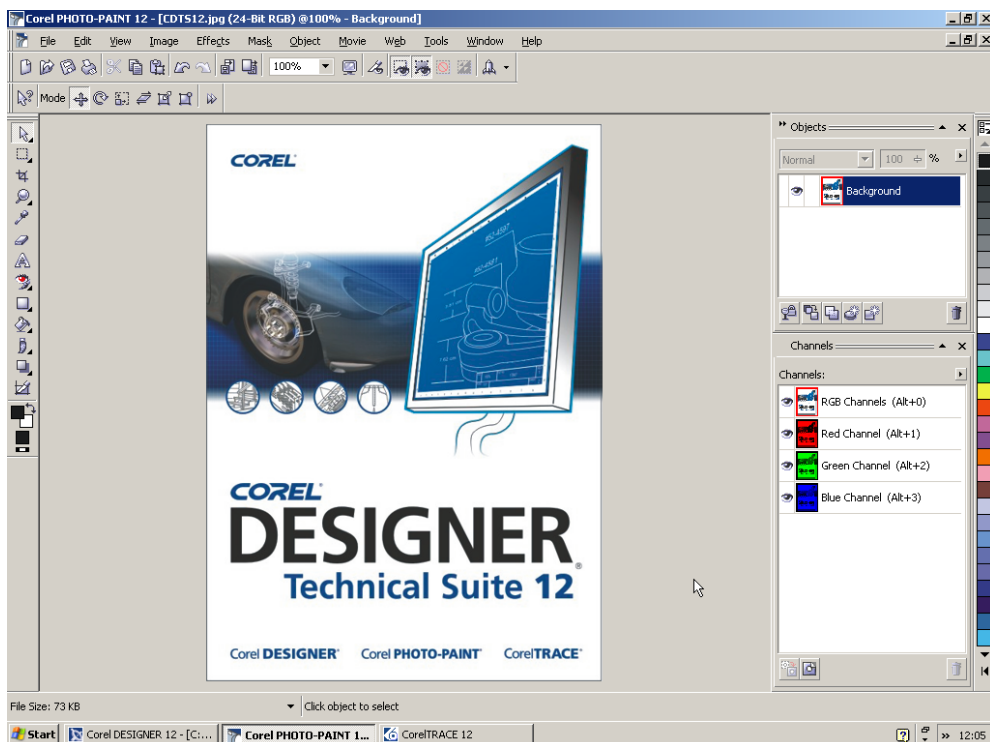
New and enhanced features overview

Corel DESIGNER Technical Suite 12 offers technical illustrators the following new and enhanced features.

New projected drawing modes: The new drawing profiles let users project objects onto drawing planes and create the illusion of a three-dimensional graphic.

Enhanced gravity snapping: Gravity snapping lets users snap the pointer to various points in objects, making it easy to create and position objects accurately.

Enhanced dynamic guides: Dynamic guides are temporary guidelines users can pull from the following snap points in objects — center, node, quadrant, and text baseline.

New B-Spline tool: The B-Spline tool lets users draw curved lines by setting control points that shape the curve without breaking it into segments.

New dimension lines: Corel DESIGNER introduces three new types of dimension lines — segment, radial, and diameter dimension lines.

New enhanced line styles: Enhanced line styles are especially useful for illustrating stitch patterns and drawing parallel lines.

New hatch fills: Hatch fills consist of hatch patterns that are composed of vector-based lines and are used for representing different types of materials in a drawing.

New Fillet/Chamfer/Scallop: Technical illustrators can now use scallops, fillets, and chamfers to shape objects.

Enhanced transformations docker: The improved Transformations docker lets users project and unproject objects with precision.

Enhanced Eyedropper tool: The enhanced Eyedropper tool lets users copy color, object properties, effects, and transformations from one object to another.

New Workspace Selector: To help users quickly improve productivity, Corel DESIGNER offers additional workspaces.

New Dynamic language switching: Users can install multiple language packs to enable use of the application in more than one language.

Enhanced Unicode support: Exchange files effortlessly by ensuring that text is displayed correctly, regardless of the language or operating system in which the file was created.

New double-byte formatting: Users can now apply Asian fonts to Asian and Latin text by using the property bar.

New Insert formatting codes docker: The new Insert formatting codes docker lets users easily insert special characters and spaces, such as em dashes, en dashes, and nonbreaking spaces.

New Hotspotting — Object Data Manager: Users can manage a complex project by assigning data to its objects.

New Computer Graphics Metafile (CGM) support: Import and export to files of CGM Version 4 profiles, such as ACGM (ActiveCGM), WebCGM, and GREX (ATA GREXCHANGE).

Enhanced Corel DESIGNER® (DSF): Support for files saved in Corel DESIGNER 9 and earlier versions has been improved. Hatch fills and enhanced line styles are now preserved.

New Export for Office: This new feature lets users optimize drawings for exporting to Microsoft Office or WordPerfect Office.

New AutoCAD® Data Interchange Format (DXF) and AutoCAD® Drawing Database (DWG): AutoCAD 2004 files are supported.

Enhanced Scalable Vector Graphics (SVG): Users can now choose a variety of new options when exporting a drawing to the SVG file format.

Enhanced Adobe® Portable Document Format (PDF): Users can now publish a drawing to a PDF file that is compatible with Adobe Acrobat 6.0.

Enhanced Adobe® Photoshop® (PSD): Support for duotone images and layer preservation have been added.

New Corel PHOTO-PAINT® 12: Take advantage of this complete image-editing application that lets users retouch and enhance photos as well as create original graphics.

New CorelCAPTURE™ 12: This application lets users capture onscreen images.
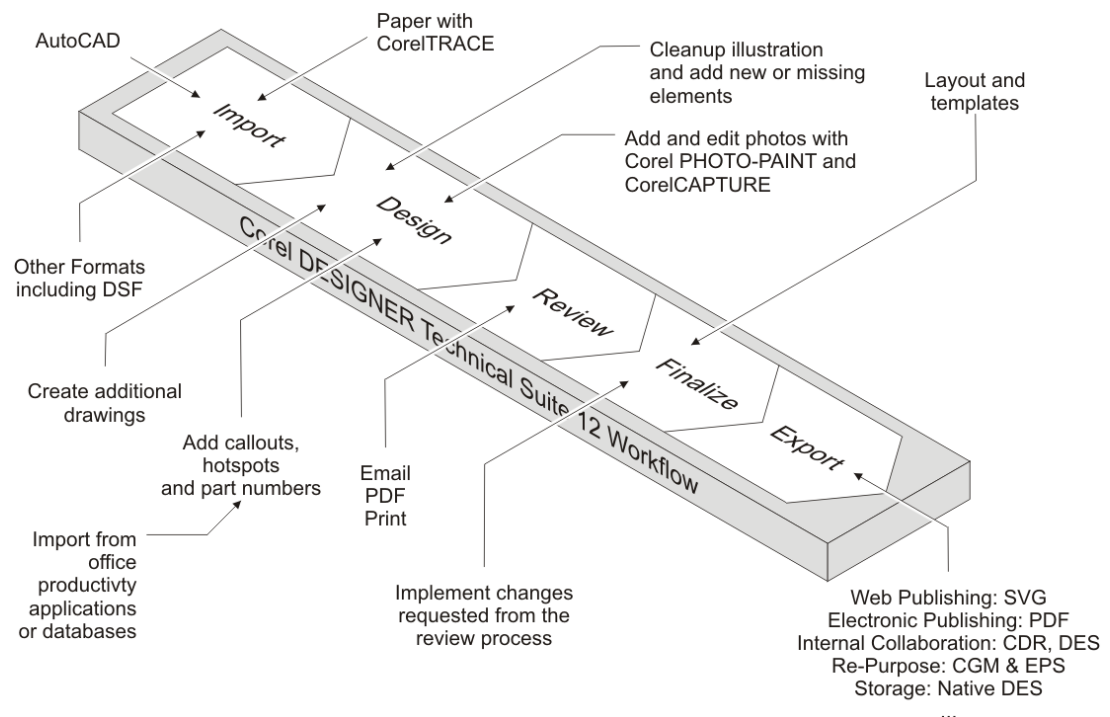
A walkthrough of Corel DESIGNER® Technical Suite 12

Corel DESIGNER® Technical Suite 12 was conceived with a specific focus on the technical illustrator's needs for design precision, collaboration efficiency and flexibility, and the ability to repurpose old data and drawings.

Geared for the technical illustrator's workflow

The creation of technical illustrations can be a complex process, especially when designs are intended to serve multiple departments within an organization. The diagram for a single part may need to be used in product documentation and repurposed for use in marketing materials. In such cases, it is critical that users are able to collaborate with internal and external department resources and work seamlessly with external data in various file formats.

AutoCAD

Paper with
CorelTRACE

Cleanup illustration
and add new or missing
elements

Layout and
templates

Add and edit photos with
Corel PHOTO-PAINT and
CorelCAPTURE

Import

Design

Corel DESIGNER Technical Suite 12 Workflow

Review

Finalize

Export

Other Formats
including DSF

Create additional
drawings

Add callouts,
hotspots
and part numbers

Email
PDF
Print

Import from
office
productivty
applications
or databases

Implement changes
requested from the
review process

Web Publishing: SVG
Electronic Publishing: PDF
Internal Collaboration: CDR, DES
Re-Purpose: CGM & EPS
Storage: Native DES
...

Corel DESIGNER Technical Suite 12 integrates with the workflow of technical illustrators.

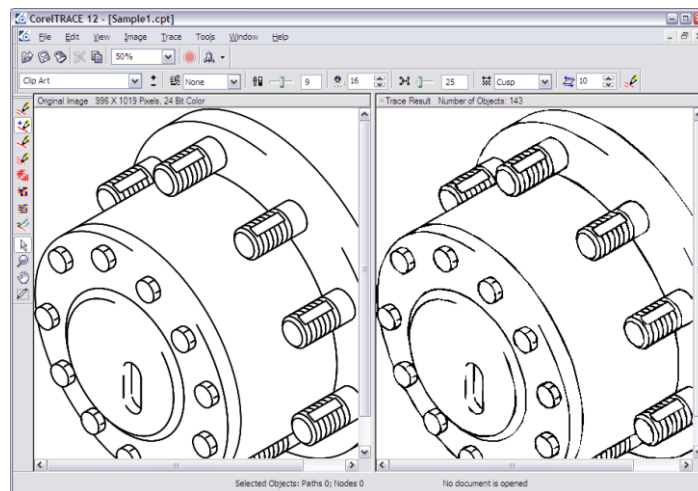**COREL**
DESIGNER
Technical Suite 12

Customizing the workspace

Corel DESIGNER Technical Suite 12 was designed to integrate with the workflow of technical illustrators. It offers a customizable user interface, enabling technical illustrators to streamline the available tools to match their workflow and quickly tailor the interface menus, commands, shortcut keys, and toolbars. For network deployments, Dynamic Language Switching makes it easy to deploy and use the application in any of its supported languages.

Also included is the Workspace Selector which provides the choice of additional workspaces. The Workspace Selector includes preconfigured workspaces that resemble the look and feel of Adobe® Illustrator®, Micrografx Designer® 9, and Microsoft® Visio®. In addition, users can create, save, and share their own custom workspaces. For example, users can create different workspaces that are specific to the review and design processes.

Converting legacy designs

Before the days of CAD and other illustration software, technical illustrators relied on old-fashioned India ink to put their designs on paper. To use many of these older designs today, they must be scanned to create a bitmap image. The bitmaps are then traced to form editable vector images. To save time and effort, Corel DESIGNER Technical Suite 12 includes CorelTRACE 12, a bitmap-to-vector tracing utility. CorelTRACE automatically converts scanned or manually created bitmaps into vector images and seemlessly imports them into Corel DESIGNER.

CorelTRACE: converting a bitmap image (left) to a vector image (right).

Minimizing data loss through AutoCAD® compatibility

Today, most technical illustrations start with data created by CAD engineers. Typically, this data details the technical component of a product and can range from legacy designs to new perspective views. Often, a technical illustrator employs multiple applications before finishing a design. The ability to exchange this information between applications without losing data is critical to a technical illustrator's workflow.

Corel DESIGNER Technical Suite 12 perfectly complements AutoCAD® by providing tools and features that support the workflow of technical illustrators. It supports more than 75 file formats, including DXF, DWG, SVG, CGM, CDR, PDF, PSD, TIFF, AI, EPS, DOC, XLS, and more. In addition, Corel DESIGNER Technical Suite 12 lets users import Corel DESIGNER® 9 and Micrografx® DESIGNER files (DSF), including version 3.1 through 9.
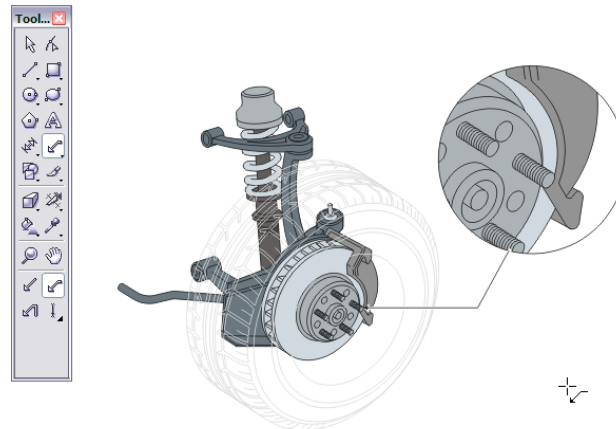

Combining callouts and lenses to focus the attention on a detail.

Ensuring precision

To a technical illustrator, precision is everything. Whether a design is intended for the aerospace, automotive, apparel, or telecommunications industry, approximation is not an option. All objects must be perfectly aligned with each other. With a hectic workflow, technical illustrators can not afford to waste time by zooming in and out to double-check object positioning.

Corel DESIGNER Technical Suite 12 gives users exceptional tools for ensuring the accuracy of their technical illustrations. Gravity snapping lets users snap the pointer to various points in objects, making it easy to create and position objects accurately. Technical illustrators can now snap the pointer to perpendicular and text baseline points as well.
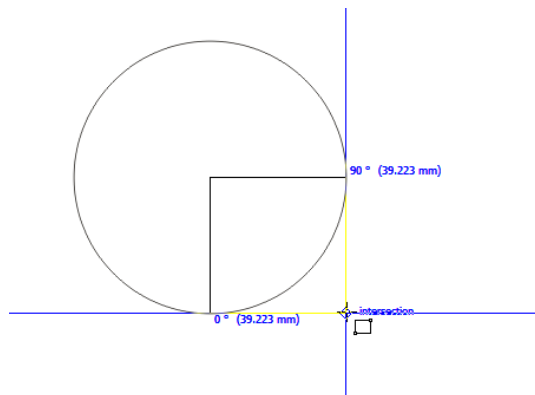

Dynamic guides allow technical illustrators to achieve unprecedented speed and precision.

Dynamic guides are temporary guidelines that illustrators can pull from the following snap points in objects — center, node, quadrant, and text baseline. Users can also display dynamic guides that are tangent, perpendicular, or parallel to objects. In addition, parallel dynamic guides help users to easily draw parallel lines or objects.

Using the right tools for the job

Technical illustrations also require detailed annotations, callouts and measurements. These items may include information about product part numbers, links to other drawings, and descriptions of functionality. Corel DESIGNER Technical Suite 12 provides enhanced tools for creating and modifying callouts and dimension lines, with simple or advanced options. For example, adding a halo to a callout creates a mask behind the leader line, which makes it easier to see call-outs on top of other objects.
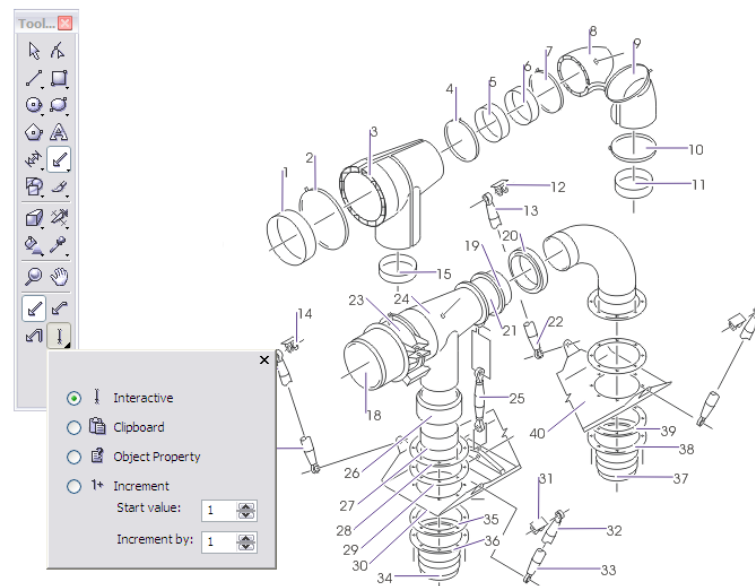
Corel DESIGNER Technical Suite 12 provides enhanced tools for creating and modifying callouts.

The new projected drawing modes, which use predefined drawing profiles to represent three-dimensional objects in two dimensions, dramatically increase productivity for technical illustrators. Now, users can actively draw on the projected plane, eliminating the need to draw the object first and then project it in a second step. The new enhanced line styles, which allow technical illustrators to create lines of a specific width and pattern, are particularly useful for drawing stitching patterns. They were developed as a direct result of user feedback in the apparel industry. In addition, hatch fills provide an easy method of differentiating between material types, such as flooring.

Frequently, an illustration may be localized in several languages or contain information in multiple languages. To that end, Corel DESIGNER Technical Suite 12 supports Unicode text, which allows users to work with multilingual documents.

Automating repetitive tasks

Many technical illustrators spend countless hours on repetitive tasks, such as hotspotting, changing part numbers, and creating lists of parts. With Microsoft Visual Basic for Applications (VBA) and an array of industry-standard symbols included, Corel DESIGNER Technical Suite 12 streamlines the technical illustration workflow.

VBA lets users automate repetitive tasks and enables easy interaction between data and objects for creating hotspots and parts lists. VBA can also be used to create add-ons and extensions for Corel DESIGNER Technical Suite 12 to suit user's workflow.

To allow easy placement of screws, nuts, bolts, and threading, Corel DESIGNER Technical Suite 12 includes more than 4,000 industry-standard symbols. Users can also create and share their own reusable symbols that can be linked to over a corporate network. The ability to link to the symbols over a network enables dynamic updates, so that when a linked symbol is modified by another illustrator, designs using that symbol can be easily updated to reflect the change.
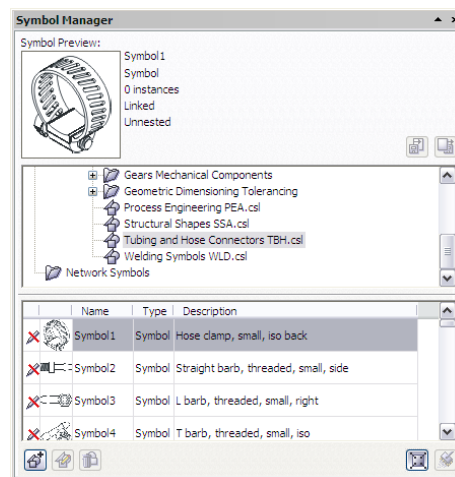
Corel DESIGNER Technical Suite includes more than 4,000 industry-standard symbols.

Exporting your work

Whether technical illustrators are importing a file or exporting a finished design, data loss is not an option. Industry-standard file formats are mandatory to ensure easy deployment and sharing of files. Included in the more than 75 industry-standard import/export filters, Corel DESIGNER Technical Suite 12 supports WebCGM, ActiveCGM, GREX-CGM (ATA), and SVG filters. Users can also import and export to a variety of bitmap formats, including TIFF, GIF, JPEG, PNG, CDR, CPT, and RIF.

Without the need for additional software, users can easily create a PDF of a design, which is viewable using the freely distributed Adobe® Acrobat® Reader® software on any computer. To ensure perfect printing results, Corel DESIGNER Technical Suite 12 also features a color management system and advanced preflight capabilities.

What's in the suite?

Corel DESIGNER® Technical Suite 12 is a comprehensive and complete technical graphics suite, offering one of the most competitive price/performance ratios in the industry today.

Main applications

Corel DESIGNER® 12: Corel DESIGNER 12 combines technologies from Micrografx Designer® and CorelDRAW®, providing enhanced drawing tools and an intuitively redesigned application interface that increases the efficiency of technical illustrators.

Corel PHOTO-PAINT® 12: Corel PHOTO-PAINT 12 is a complete, award-winning image-editing application for retouching and enhancing photos. Whether users are correcting red-eye or exposure problems, cutting out image areas, or creating and publishing images for the Web, Corel PHOTO-PAINT gives technical illustrators fast, powerful tools that are easy to use.

CorelTRACE® 12: A bitmap-to-vector tracing utility, CorelTRACE® 12 converts scanned or manually created bitmaps into vector images. By using scanning devices that are compatible with the Windows® operating system, CorelTRACE scans images and converts them into editable vector formats.

Corel CAPTURE™ 12: This advanced screen capture utility lets users capture images. Users can choose to capture the current window, active client, or full screen, or the rectangle, elliptical or freehand areas.

Supporting application and utilities

Microsoft® Visual Basic® for Applications 6.3: An object-oriented programming language, Microsoft Visual Basic for Applications (VBA) lets users create macros to automate tasks and extend functionality within Corel DESIGNER Technical Suite 12. Users can create custom solutions that integrate with other applications and increase productivity for technical illustrators.

Corel® SVG Viewer™: A Web browser plug-in for viewing and interacting with SVG graphics.

Symbols and templates: Corel DESIGNER Technical Suite provides thousands of industry-standard symbols and templates, including ANSI, DIN, ISO, manufacturing, engineering and architectural templates, and architectural, electrical, general and mechanical symbols.

Documentation

User guide: Corel DESIGNER Technical Suite 12 includes a comprehensive user guide that provides conceptual and procedural information about the suite's applications. The user guide is available in PDF format in English, French, and German.

Online Help: Users can find answers to common questions, detailed reference information, and step-by-step procedural information about Corel DESIGNER Technical Suite 12 by using the online Help feature in English, French, or German.

VBA Programming Guide: Available in PDF format, the Visual Basic for Applications Programming Guide for Corel DESIGNER Technical Suite 12 helps users automate tasks and create custom solutions with VBA software.

Deployment Guide: Available in PDF format, the comprehensive Corel DESIGNER Technical Suite 12 Deployment Guide provides detailed installation and deployment information.

System requirements

- Windows® 2000 or Windows XP (Home, Professional, or Tablet PC Edition) with latest service packs
- Pentium® III, 600 MHz or greater
- 256 MB of RAM (512 MB RAM recommended)
- Mouse or tablet
- 1024 × 768 screen resolution (768 × 1024 on a Tablet PC)
- CD-ROM drive
- 700 MB of hard disk space to install all three language packs with all content
- Microsoft® Internet Explorer 6
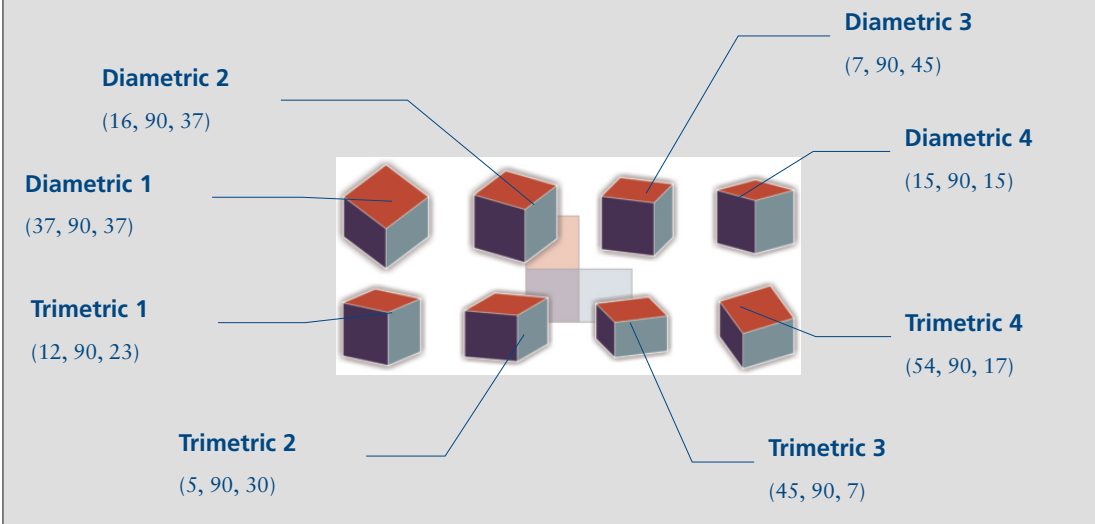
New and enhanced features: a closer look

Corel DESIGNER® Technical Suite 12 was conceived with a specific focus on the technical illustrator's needs for design precision, collaboration efficiency and flexibility, and the ability to repurpose old data and drawings. The following are some of the suite's new and enhanced features.

NEW

Feature spotlight — Projected drawing modes

Dramatically increase the speed of technical illustration with projected drawing modes, which use predefined drawing profiles to represent three-dimensional objects in two dimensions. This feature gives users the ability to draw objects onto one of three drawing planes: front (x and z), top (x and y), and right (y and z). For convenience and flexibility, users can customize existing drawing profiles or create new ones.

The following diagram depicts a cube displayed using eight projected drawing views.

Diametric 3
(7, 90, 45)

Diametric 2
(16, 90, 37)

Diametric 4
(15, 90, 15)

Diametric 1
(37, 90, 37)

Trimetric 1
(12, 90, 23)

Trimetric 4
(54, 90, 17)

Trimetric 2
(5, 90, 30)

Trimetric 3
(45, 90, 7)

NEW

Hotspotting – Object Data Manager: Particularly useful for managing large projects, the new XML-driven Object Data Manager lets users easily assign data to specific objects. Used in conjunction with file formats such as CGM or SVG, users can define hotspots and add information to objects in technical illustrations to make them interactive when viewed in a Web browser.

NEW

Feature spotlight — Dynamic guides

Dynamic guides allow technical illustrators to achieve unprecedented speed and precision when creating a design by helping to align, draw, and move objects in precise relation to other objects. Fully customizable, dynamic guides are temporary guides that are pulled from the following snap points in objects — center, node, quadrant, and text baseline. For convenience and efficiency, technical illustrators can also display dynamic guides that are tangent, perpendicular, or parallel to objects.

The diagram below depicts dynamic guides that were pulled from the following snap points (indicated by the green squares): center (left), quadrant (middle), and tangent (right).

NEW
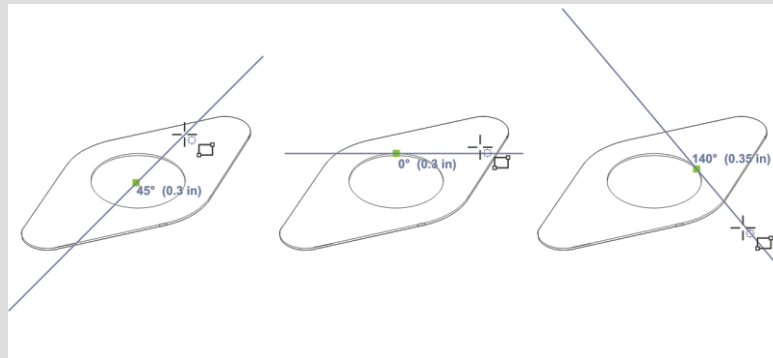
Feature spotlight — B-Spline tool

With this new tool, technical illustrators can draw B-splines, which are typically smooth, continuous, curved lines shaped by control points. B-splines touch the first and last control points and are pulled by the points in between. Users can edit completed B-splines by using the control points. The B-Spline tool also lets users create a curve that is contained within a shape, without touching or overlapping the borders of that shape.

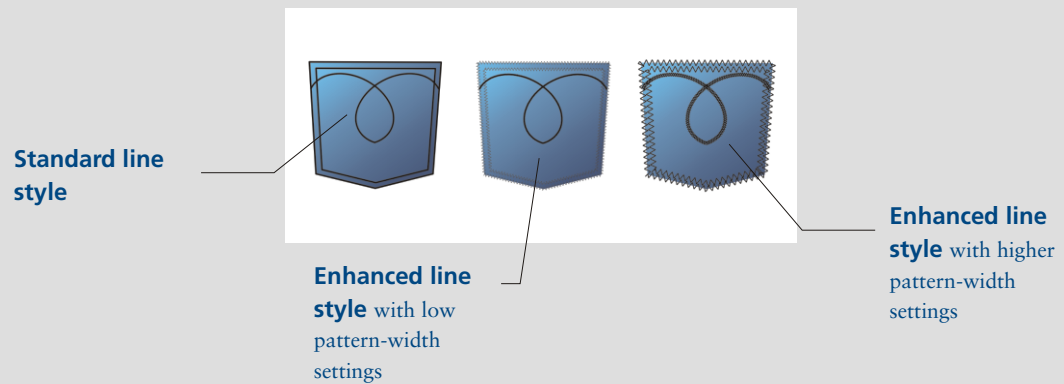The path of a B-spline curve is determined by control points set by the user.

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Technical Suite 12
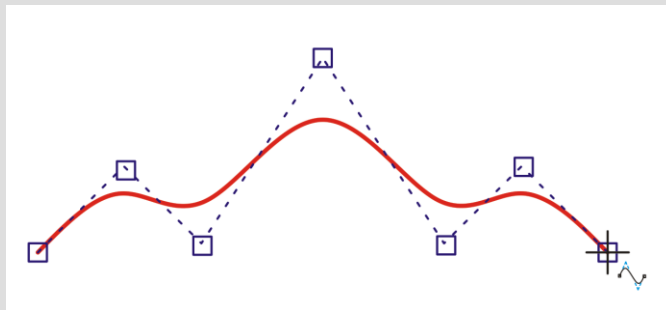
NEW **Dimension line styles**: Corel DESIGNER Technical Suite 12 introduces three new types of dimension lines — segment, radial, and diameter. Segment dimension lines let users measure the distance between nodes in single or multiple segments. Radial and diameter dimension lines let users measure the radius and diameter of circles.

NEW

Feature spotlight — Enhanced line styles

This new feature is a direct result of user feedback from technical illustrators in the apparel industry. Particularly useful for drawing stitching patterns, enhanced line styles let users create lines with a specific width and pattern. When users apply an enhanced line style to a filled object, the fill is contained within the object's path, not the outline. For example, in a circular object with a zigzag line style, the fill does not extend into the points of the zigzag.

Standard line style

Enhanced line style with low pattern-width settings

Enhanced line style with higher pattern-width settings

NEW

Feature spotlight — Hatch fills

Users can now add hatch fills to technical illustrations to help differentiate between materials and coinciding objects. Hatch fills are vector-based and projectable, for use with the new projected drawing modes. Corel DESIGNER Technical Suite 12 ships with customizable AutoCAD and Micrografx Designer hatch fills. Users can also create custom hatch fills.

Use hatch fills to indicate different types of materials, such as flooring.
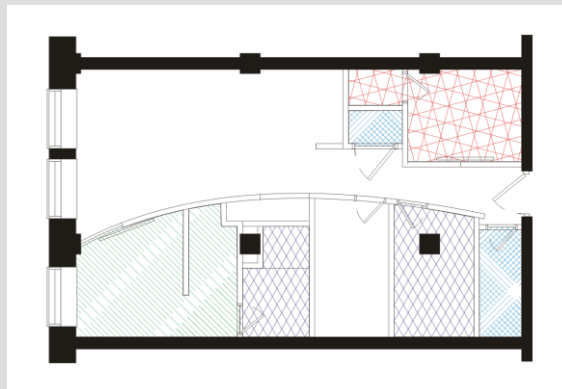
Enhanced **Transformation docker**: The Transformations docker now lets technical illustrators unproject objects with precision. In addition, users can take advantage of precise coordinates to project, move, rotate, flip, and skew objects.

NEW

Feature spotlight — Fillet / Chamfer / Scallop

This new feature increases precision by letting technical illustrators define measurements for shaping curve objects. Filleting produces a rounded corner; scalloping rounds and inverts the corner to create a notch; and chamfering bevels the corner so that it appears flat. The graphic below illustrates cabinet doors with standard, filleted, scalloped, and chamfered corners.
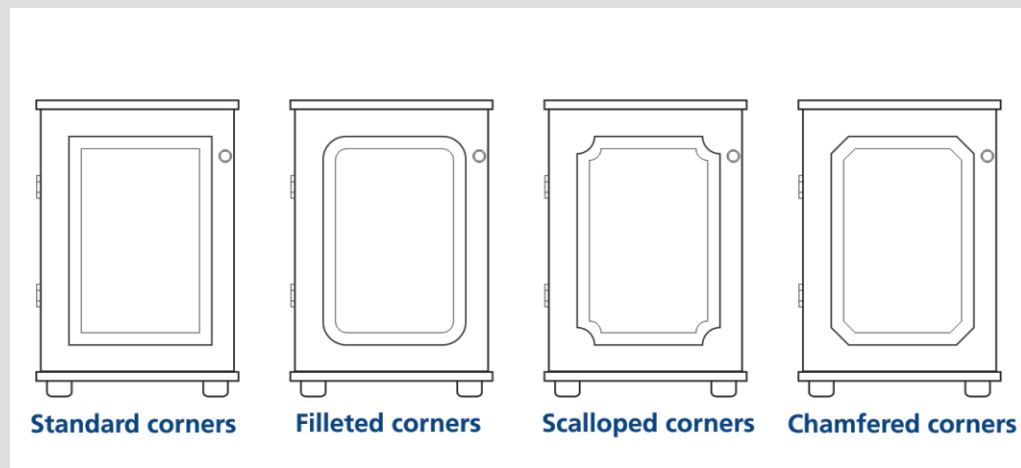

Standard corners   **Filleted corners**   **Scalloped corners**   **Chamfered corners**

Enhanced **Eyedropper tool**: The enhanced Eyedropper tool lets users copy color, object properties, effects, and transformations from one object to another.

Dynamic language switching: Dynamic language switching lets technical illustrators use the application in more than one language. For example, users can install the application in all of its supported languages (English, French, and German) and change the language of the user interface and Help when the application is launched.

NEW

Feature spotlight — Workspace Selector

To help improve user productivity, Corel DESIGNER Technical Suite 12 offers additional workspaces. For example, technical illustrators can select a workspace with the look and feel of Adobe Illustrator, Micrografx Designer, or Microsoft Visio.
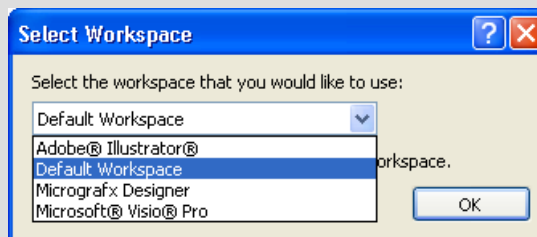
Enhanced **Unicode support**: Unicode support lets technical illustrators exchange files effortlessly by ensuring that text is displayed correctly, regardless of the language or operating system in which the file was created.

NEW   **Double-byte formatting**: Technical illustrators can now apply Asian fonts to Asian and Latin text by using the property bar.

Enhanced **Text alignment**: Users can now align text objects to other objects by using the first text baseline, the last text baseline, or the bounding box.

NEW   **Insert Formatting Codes docker**: With the new Insert Formatting Codes docker, technical illustrators can easily insert special characters and spaces, such as em dashes, en dashes, and nonbreaking spaces.

Enhanced

Feature spotlight — Gravity snapping

Gravity snapping lets technical illustrators snap the pointer to various points in objects, making it easy to create and position objects accurately. Users can now snap the pointer to perpendicular and text baseline points. Technical illustrators can customize gravity snapping to work in the way that best suits their workflow.
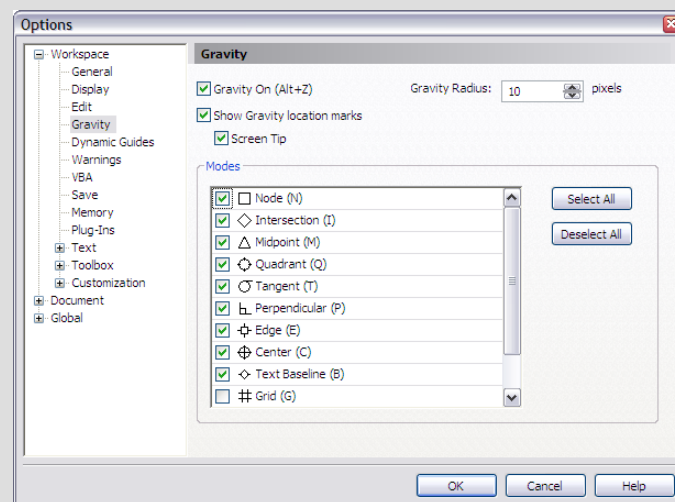
NEW   **CGM v4 support**: Users can import and export to files of CGM Version 4 profiles, such as ACGM (ActiveCGM), WebCGM, and GREX (ATA GREXCHANGE). These profiles, subsets of the CGM standard, are suitable for displaying two-dimensional drawings on the Internet.

Enhanced **Corel DESIGNER® (DSF) support**: Technical illustrators can easily open or import Corel DESIGNER 9 files and Micrografx Designer files (version 3.1 through 9). Hatch fills and enhanced line styles are now preserved in the imported files.

NEW   **Export for Office**: Technical illustrators can now export designs in a graphic format optimized for use in Microsoft® Office or WordPerfect® Office. This wizard-driven dialog box lets users quickly choose the best export format based on their expectations for the end result.

NEW   **AutoCAD® Data Interchange Format (DXF) and AutoCAD® Drawing Database (DWG)**: Corel DESIGNER Technical Suite 12 supports AutoCAD® 2004 files, including preservation of hatch fills.

***Enhanced* SVG support**: Technical illustrators can choose a variety of new options when exporting a drawing to the SVG file format. For example, users can choose a Unicode encoding method. Users can also embed information in an SVG file or store information in externally linked files. The SVG color palette available in the application lets technical illustrators choose SVG colors.

Feature spotlight — Portable Document Format (PDF)

Users can now publish a drawing to a PDF file that is compatible with Adobe® Acrobat® 6.0. When users import a PDF file, all layers, fills, and text attributes, including transparency applied to text, are preserved. The original colors of the PDF file are reproduced accurately.
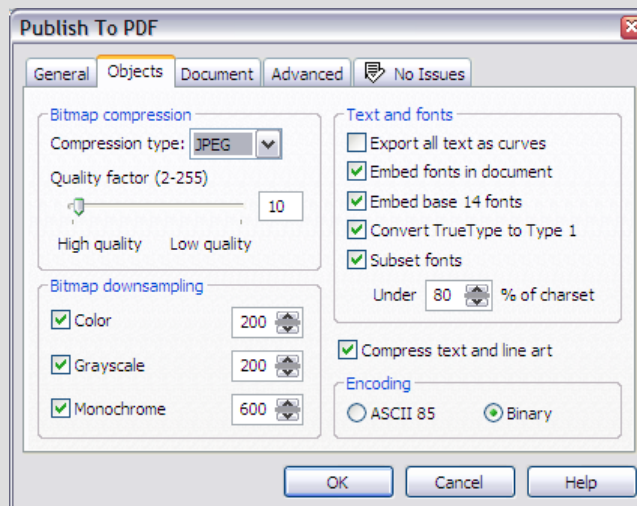
***Enhanced* Adobe® Photoshop® (PSD)**: Support for duotone images and layer preservation have been added.

NEW   **Corel CAPTURE™ 12**: Corel CAPTURE 12 is an application for capturing images from the computer screen.

Key features of Corel PHOTO-PAINT® 12

Corel PHOTO-PAINT 12 is an award-winning, complete image-editing application that lets users retouch and enhance photos quickly and easily. It provides high-end image manipulation tools that are fast, powerful, and easy to use.

Touch-Up brush: The new Touch-Up brush lets users quickly remove defects in images. The results are displayed in real-time as you use flexible strength values to apply the touch-up.

Red-Eye Removal tool: One of the most common image editing tasks is removing red-eye from photographs. Corel PHOTO-PAINT 12 features a Red-Eye Removal tool, which works like a brush and gives users a fast, easy way to remove red-eye.

Cutout masking tool: Masking images by using the Cutout tool is as simple as drawing a line around the section of the image users want to mask and then filling the selection to complete the mask. The Cutout tool also helps ensure precise results by letting users preview the mask.

Image slicing: The direct result of user requests, the image slicing functionality in Corel PHOTO-PAINT 12 lets users slice an image into several smaller files to increase the speed with which graphics-intensive Web pages can load in a browser.

Image stitching: Image stitching allows users to piece together individual images obtained from scanners and digital cameras into one panoramic image. Corel PHOTO-PAINT 12 now enables users to fine-tune image placement by specifying angle rotation. Users can also preview the final image.

Spot Filter effect: The Spot Filter effect in Corel PHOTO-PAINT 12 simulates depth of field by letting users focus on sections of an image to determine which elements appear in or out of focus. This new adjustable effect includes a live-on-screen preview, as well as presets for applying popular photographic effects.

Lighting effect: Corel PHOTO-PAINT 12 features a streamlined lighting dialog box that makes it easier to access lighting controls such as location, color, angle, and aperture. Users can also apply a number of new presets to images.

Upgrading from Corel DESIGNER® 10

The following table lists the new and enhanced features that you will find in Corel DESIGNER Technical Suite 12 if you are upgrading from Corel DESIGNER 10.

Technical Illustration features	Corel DESIGNER® Technical Suite 12	Corel DESIGNER® 10
Projected drawing modes	NEW	
Hatch fills	NEW	
Enhanced line styles	NEW	
Fillet/Chamfer/Scallop	NEW	
B-Spline tool	NEW	
Callout tools	✓	✓
Dimension tools	Enhanced	✓
Dynamic guides	NEW	
Gravity snapping	Enhanced	✓
Transformation docker	Enhanced	✓
Virtual Segment Delete	✓	✓
Boundary	✓	✓
Equal Divide	✓	✓
Reflect Nodes (in edit state)	✓	✓
Hotspotting - Object Data Manager	NEW	Limited
Automation with Microsoft® Visual Basic® for Applications	✓	✓
Workspace Selector	✓	
Language switching	✓	
Unicode support	✓	
Double-byte formatting (Asian text)	✓	Limited
Export for Office	NEW	
2D Import / Export file formats	More than 75 file formats	More than 65 file formats
CGM v3 + v4 support	NEW	v3 only
SVG support	Enhanced	✓
Corel PHOTO-PAINT® 12	NEW	
Corel CAPTURE™ 12	NEW	

Upgrading from Corel DESIGNER® 9 (Micrografx®)

The following table lists the new and enhanced features of Corel DESIGNER Technical Suite 12 if you are upgrading from Corel DESIGNER® 9 or Micrografx DESIGNER® 9.

Technical Illustration features	Corel DESIGNER® Technical Suite 12	Corel DESIGNER® 9 (Micrografx®)
Projected drawing modes	NEW	
Hatch fills	Enhanced	✓
Enhanced line styles	Enhanced	✓
Fillet/Chamfer/Scallop	Enhanced	✓
B-Spline tool	Enhanced	✓
Dynamic guides	NEW	
Gravity snapping	Enhanced	Limited
Virtual Segment Delete	Enhanced	✓
Boundary	✓	
Equal Divide	✓	
Reflect Nodes (in edit state)	✓	
Convert to Ellipse	✓	
Join Curves	✓	
Hotspotting - Object Data Manager	Enhanced	Limited
Automation with Microsoft® Visual Basic® for Applications	✓	
Panose font matching	✓	
Workspace Selector	✓	
Language switching	✓	
Unicode support	✓	
Double-byte formatting (Asian text)	✓	Limited
Export for Office	NEW	
2D Import / Export file formats	More than 75 file formats	More than 50 file formats
CGM v3 + v4 support	NEW	v3 only
SVG support	Enhanced	
Corel PHOTO-PAINT® 12	NEW	Micrografx® Picture Publisher®
CorelTRACE® 12	✓	
Corel CAPTURE™ 12	NEW	

DESIGNER Technical Suite 12

Glossary

Bounding box: The invisible box indicated by the eight selection handles surrounding a selected object.

Color palette: A collection of solid colors from which users can choose colors for fills and outlines.

Control points: The points that extend from a node along a curve that is being edited with the Shape tool. Control points determine the angle at which the curve passes through the node.

Curve object: An object that has nodes and control points, which users can manipulate to change the object's shape. A curve object can be any shape, including a straight or curved line.

Dimension line: A line that displays the size of objects or the distance or angle between objects.

Drawing: A document created in Corel DESIGNER.

Drawing page: The portion of a drawing window enclosed by a rectangle with a shadow effect.

Drawing plane: The area bounded by two axes in the drawing profile. The top drawing plane is bounded by the x and z axes. The front drawing plane is bounded by the x and y axes. The right drawing plane is bounded by the y and z axes.

Drawing profile: A group of settings that determines how three-dimensional objects are represented in two dimensions.

Duotone: An 8-bit color mode that displays images using 256 shades of up to four tones. An image in the duotone color mode is simply a grayscale image that has been enhanced with one to four additional colors.

Dynamic guides: Temporary guidelines that appear from the following snap points in objects — center, node, quadrant, and text baseline.

Encoding: Determines the character set of text, letting users correctly display text in the appropriate language.

Fill: A color, bitmap, fountain, hatch, or pattern applied to an area of an image.

Filter: An application that translates digital information from one form to another.

Guideline: A horizontal, vertical, or slanted line that can be placed anywhere in the drawing window to aid in object placement.

Halo: A mask behind a line that makes it easier to see when the line is on top of another object. Halos are usually the same color as the page.

Hotspot: The area of an object that users can click to jump to the address specified by a URL.

Hotspotting: The process of adding data to objects or groups of objects, so that they respond to events, such as pointing or clicking. For example, users can assign a URL to an object, making it a hyperlink to an external Web site.

Nodes: The square points at each end of a line or curve segment. Users can change the shape of a line or curve by dragging one or more of its nodes.

Object: A generic term for any item users create or place in a drawing. Objects include lines, shapes, graphics, and text.

Outline: The line that defines the shape of an object.

PANOSE font matching: A feature that lets users choose a substitute font if a file contains a font not installed on their computer. Users can make a substitution for the current working session only, or can permanently make a substitution so that when the file is saved and reopened, the new font automatically displays.

Rotate: To reposition and reorient an object by turning it around its center of rotation.

Segment: The line or curve between nodes in a curve object.

Skew: To slant an object vertically, horizontally, or both.

Snap: To force an object that is being drawn or moved to align automatically to a point on the grid, a guideline, or another object.

Symbol: A reusable object or group of objects. A symbol is defined once and can be referenced many times in a drawing.

Tangent: A straight line that touches a curve or an ellipse at a point, but does not cross the curve or ellipse at that point.

Text baseline: The imaginary horizontal line that text characters appear to be placed on.

Transparency: The quality of an object that makes it easy to see through. Setting lower levels of transparency causes higher levels of opacity and less visibility of the underlying items or image.

Unicode: A character encoding standard that defines character sets for all written languages in the world by using a 16-bit code set and more than 65, 000 characters. Unicode lets users handle text effectively regardless of the language of the text, operating system, or the application.

Vector graphic: An image generated from mathematical descriptions that determine the position, length, and direction in which lines are drawn. Vector graphics are created as collections of lines rather than as patterns of individual dots or pixels.

Workspace: A configuration of settings that specifies how the various command bars, commands, and buttons are arranged when users open the application.

Corel corporate profile

Corel Corporation provides innovative software solutions that help millions of value-conscious businesses and consumers in over 75 countries improve their productivity. The Company is renowned for its powerful software portfolio that combines innovative photo-editing and graphics-creation, vector-illustration and technical-graphics applications along with office and personal productivity solutions. Corel's flagship products include the CorelDRAW® Graphics Suite, the WordPerfect® Office Suite, the Corel DESIGNER® Technical Suite, the Corel® Painter™ Natural-Media® painting and illustration software, and the Paint Shop™ Family of digital photography and image-editing software. For more information, please visit www.corel.com.