

BERNINA EMBROIDERY SOFTWARE 9

*Design your dreams
Create your ideas*



made to create **BERNINA**

QUICK START GUIDE

BERNINA DesignerPlus
BERNINA Creator

NOTE

The screen illustrations in this publication are intended to be representations, not exact duplicates of the screen layouts generated by the software.

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For users using CorelDRAW®, also refer to the End User License agreement found under 'About CorelDRAW SE'.

TERMINATION

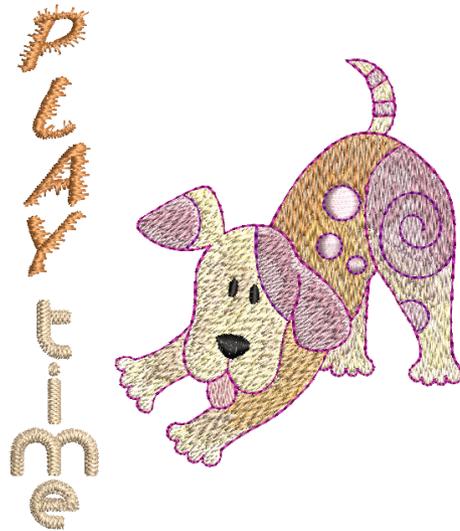
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CONTACT

If you have any questions, please contact your BERNINA distributor, or BERNINA International AG
CH-8266 Steckborn/Switzerland
Tel: (41) 52-762 11 11
Fax: (41) 52-762 16 11

INTRODUCTION

Welcome to BERNINA Embroidery Software 9, the leading embroidery design application for home users. This is an MS Windows®-based product incorporating many of the conventions with which most PC users are already familiar.



First-time users

If you are new to BERNINA Embroidery Software 9, you'll be pleased with its flexible digitizing capabilities, the ease with which you can create and edit designs, and how simple it is to add or create your own lettering. However, before you begin working with the product, please read **Getting Started**. This chapter presents an overview of the basic concepts of digitizing with BERNINA V9 and provides you with important guidelines on how to use this software to achieve the best results.

Update users

BERNINA Embroidery Software 9 is an enhanced version of our earlier products. It has many new and expanded features. Please read the Release Notes available from the **Help** menu to quickly familiarize yourself with the scope of these improvements.



Note If you are upgrading from a previous version of the software, you are advised **not** to remove any earlier versions until after installing the new software. This gives you the option of merging user-defined settings, including user-defined motifs, into the new installation.

System requirements

Before you install the software make sure your computer meets the technical system requirements detailed below.

PC specifications

Check that your PC meets the system requirements. Check CPU/RAM as well as hard disk space. The table below provides minimum system requirements.

Component	Minimum	Recommended
CPU	Intel® Core i3 or AMD Ryzen 3	Intel i5/7 processor or AMD Ryzen 5/7
Operating system	Microsoft Windows 10 (64-bit edition) with latest updates	
Browser	Microsoft Edge or later	
Memory	8 GB	16 GB or more
Hard disk size	80 GB	256 GB or more (solid state drive)
Free disk space	† 40 GB	60 GB or more
Graphics card	Support for Highest Color (32bit) and resolution (1366 x 768)	Support for Highest Color (32bit) and resolution (1920 x 1080 or higher)
Monitor	¥ 1366 x 768 screen resolution	Dual monitors capable of displaying 1920 x 1080 screen resolution
Mouse	USB mouse	
USB port	Required for data transfer (designs to USB stick) and configure BERNINA WiFi Device.	

Component	Minimum	Recommended
Sound card	Required for online video help.	
Internet connection	Internet connection required to sign in to authenticate BERNINA V9, receive software updates and access online content. You can use the software offline provided you connect to the Internet at least once every 30 days so that we can validate your software license. You will not have all features while working offline.	

Free hard disk space †

BERNINA V9 occupies up to 5GB of hard disk space, depending on options installed. CorelDRAW® SE also takes up an additional 3GB.

Screen resolution ‡

Some controls may be hidden on the user interface if you run your monitor at low resolutions. The physical size of your monitor will have a bearing on the optimum screen resolution. Larger fonts will exacerbate the problem. If you experience visibility issues, try adjusting both screen resolution and font size. For example, a resolution of 1600 X 900 with a font size of 100% or 125% should be acceptable.

Information for Mac OS X / Apple users

BERNINA V9 can be installed on Intel-based Mac computers using **Boot Camp** to run Windows 10 on a dedicated partition. The use of virtual machine software to run Windows within the Mac OS is not supported. A partition of at least 85GB is required, 100 GB is recommended.

System security

The software is shipped with a product key which can be found inside the software kit. Each product key allows your system to be uniquely identified. You will be prompted to enter the product key to register and activate the product when the software is launched the first time following installation. Please keep the product key in a secure place.

Each licensed copy of the software is for a single user. It entitles you to install the product on up to three (3) devices, but you may only run the product on one (1) device concurrently. This restriction does not apply to BERNINA WiFi Connector which can be run on a second computer at the same time as you are running BERNINA V9.



Note All computers must use the same login details – email address and password. Should you wish to run the software on another computer, you must first sign out and ‘release’ the license from the current computer. This can be done via the **File > Sign Out and Release License** command.

Installation

BERNINA Embroidery Software 9 is a 64-bit application. You’ll notice a big improvement in speed and performance over the older 32-bit systems. It is installed in the 64-bit folder:

```
C:\Program Files\BERNINA\..
```

You can, however, still run previous versions of BERNINA Embroidery Software on the same computer.

Custom assets

BERNINA Embroidery Software 9 allows you to create files or ‘assets’ of various kinds during normal use. The most important of these are of course actual embroidery designs. These are located by default in the built-in **Embroidery Library**.

There are other assets you may create, such as design templates, custom motifs and borders. These assets are preserved from installation to installation, whether installing a new version of BERNINA V9 or an update patch. In order to preserve any custom assets, do not uninstall your existing version of BERNINA V9.

If you want to move BERNINA Embroidery Software to another PC, you will need to manually transfer any custom assets you have created or received from third parties. The folders you are most likely to reference are:

```
C:\ProgramData\BERNINA\BERNINA Embroidery\BORDERS
C:\ProgramData\BERNINA\BERNINA Embroidery\FONTS
C:\ProgramData\BERNINA\BERNINA Embroidery\MOTIFS
C:\ProgramData\BERNINA\BERNINA Embroidery\STAMPS
C:\ProgramData\BERNINA\BERNINA Embroidery\TEMPLATE
C:\Users\Public\Public Embroidery\BERNINA 9 Embroidery\Mono-
gram Template Designs\Custom
```

Make sure these folders are backed up before removing an existing installation.

License management

You may have received a 5-part BERNINA V9 product key in the form:

566695e-dedc-4417-a5e7-8326056cd267

This allows you to register an account in order to run BERNINA Embroidery Software.

Install the software

Before commencing, make sure you have the following...

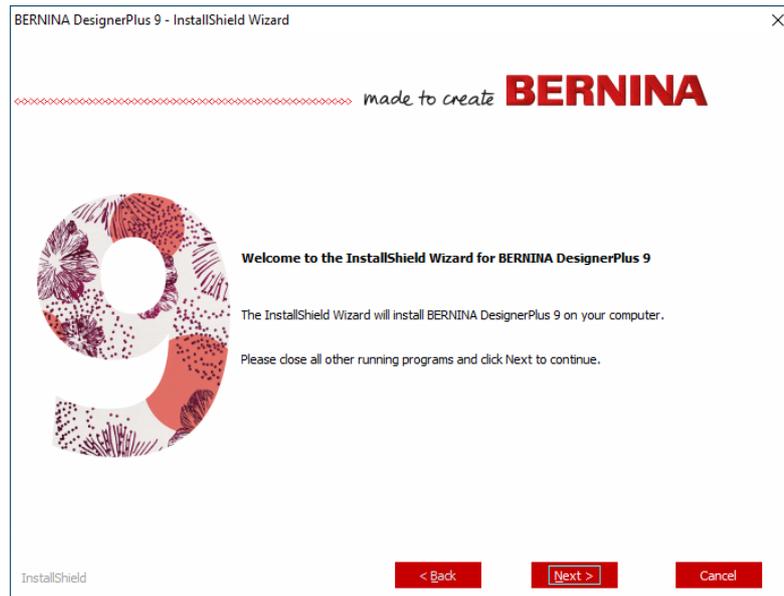
- ▶ Software product key which is located in the kit.
- ▶ If you are updating from V6–V7, you will need your hardware dongle. Do not attach until prompted.



- ▶ If you are updating from V8, you will be prompted to enter your existing product key. If you no longer have it, use the email address that was used for registration. If this is no longer known, please contact **BERNINA Support**.
- ▶ In addition to the technical system requirements, make sure that:
 - ▶ Anti-virus is temporarily disabled
 - ▶ You have administrator rights.

To install the software...

- 1 Ensure your computer meets the technical requirements for the software. See [System requirements](#) for details.
- 2 Close all MS Windows® applications and temporarily disable your anti-virus software.
- 3 If you have purchased BERNINA V9, uninstall any previous versions of CoreIDRAW®.
- 4 Insert the Installation USB Stick in the USB port of your computer and wait for the welcome screen. Alternatively, start the installation manually by double-clicking the setup.exe on the stick.



- 5 Follow the onscreen instructions to complete the installation. You will be prompted as follows...

Option	Details
License agreement	Check the license agreement before proceeding. Optionally, print the agreement to obtain a hard copy.
Setup type	Choose a setup type – complete or custom. If you are updating or installing a new copy, choose to install the complete version.
Extra languages	The installation will default to the language of your operating system. Install additional languages as preferred. These can be switched anytime via the BERNINA program group.
Destination location	By default, the software will install to the 'Program Files' of your operating system. Change locations if necessary.

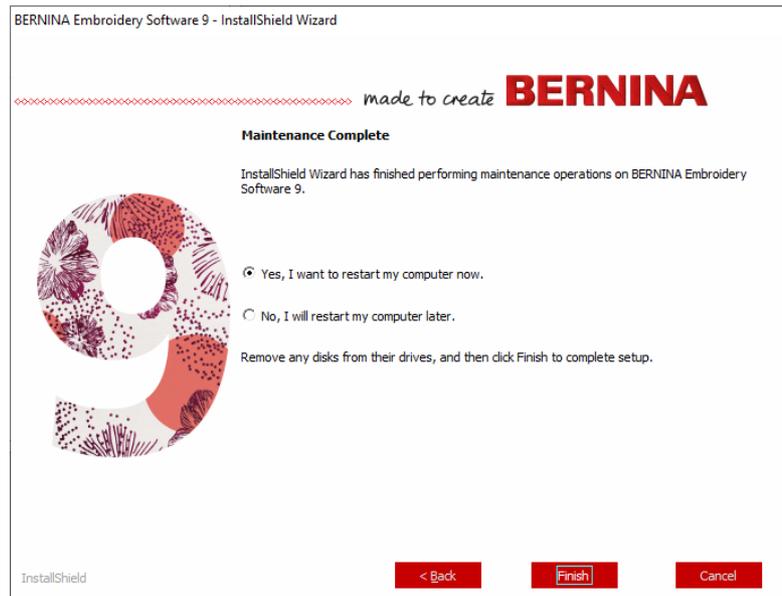
- 6 Click **Install** to proceed.
- 7 If you have purchased BERNINA DesignerPlus, a copy of CorelDRAW® SE will be automatically installed, allowing you to take advantage of the integrated **Artwork Canvas**.





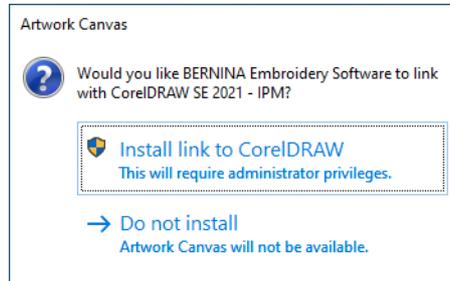
Note If you are installing CorelDRAW® SE, you will need to create Corel account or use an existing Corel account in order to activate the software.

- 8 Reboot the PC when prompted. Save any files and close all applications beforehand.

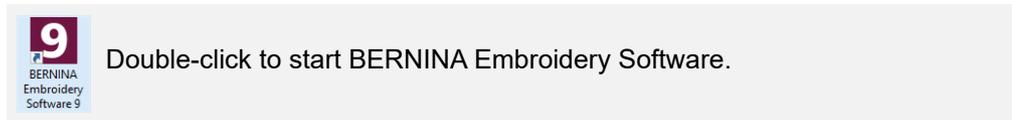


- 9 Double-click the desktop icon to start BERNINA Embroidery Software 9. To sign in you will first need to register your account. See [Register your account](#) for details.

- 10 When first running BERNINA DesignerPlus, a CorelDRAW® integration message will appear. Choose 'Install link to CorelDRAW' to take advantage of the integrated **Artwork Canvas**.



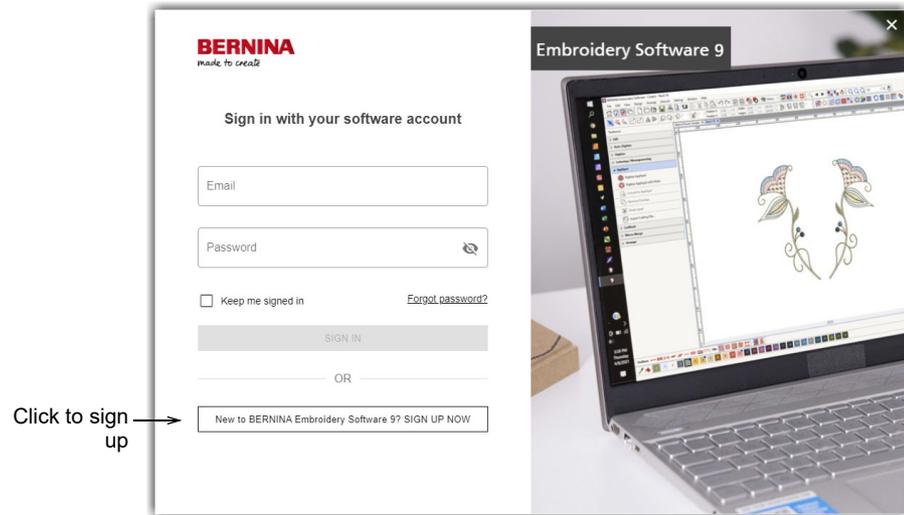
Register your account



You will need to register an account in order to run BERNINA Embroidery Software.

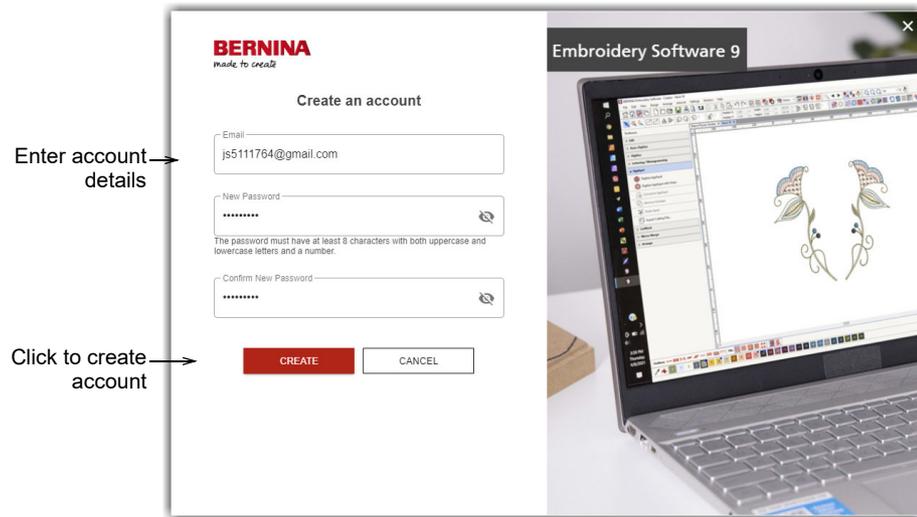
To register your account...

- 1 Double-click the desktop icon to start BERNINA Embroidery Software 9. The below 'sign-in' screen appears. To sign in you will first need to create an account.



- 2 Click the 'Sign up Now' button and follow the onscreen instructions. An internet connection is required for this step.

You will be prompted to create an account.



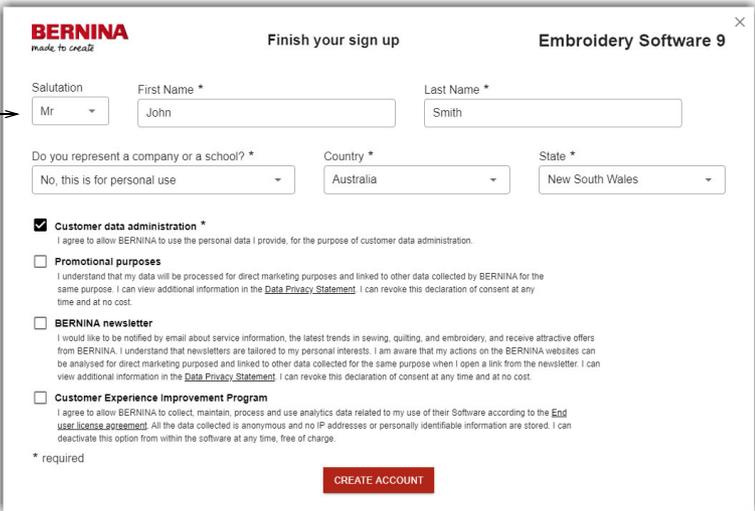
3 Fill in the details and click **Create**.



Note When updating your software, use the same email address used when registering your V8 software. The system will then automatically match the new product key with the old.

You will be prompted to enter additional details.

Fill in additional account details →



BERNINA
made to create

Finish your sign up Embroidery Software 9

Salutation: Mr | First Name *: John | Last Name *: Smith

Do you represent a company or a school? *: No, this is for personal use | Country *: Australia | State *: New South Wales

Customer data administration *
I agree to allow BERNINA to use the personal data I provide, for the purpose of customer data administration.

Promotional purposes
I understand that my data will be processed for direct marketing purposes and linked to other data collected by BERNINA for the same purpose. I can view additional information in the [Data Privacy Statement](#) | I can revoke this declaration of consent at any time and at no cost.

BERNINA newsletter
I would like to be notified by email about service information, the latest trends in sewing, quilting, and embroidery, and receive attractive offers from BERNINA. I understand that newsletters are tailored to my personal interests. I am aware that my actions on the BERNINA websites can be analysed for direct marketing purposes and linked to other data collected for the same purpose when I open a link from the newsletter. I can view additional information in the [Data Privacy Statement](#) | I can revoke this declaration of consent at any time and at no cost.

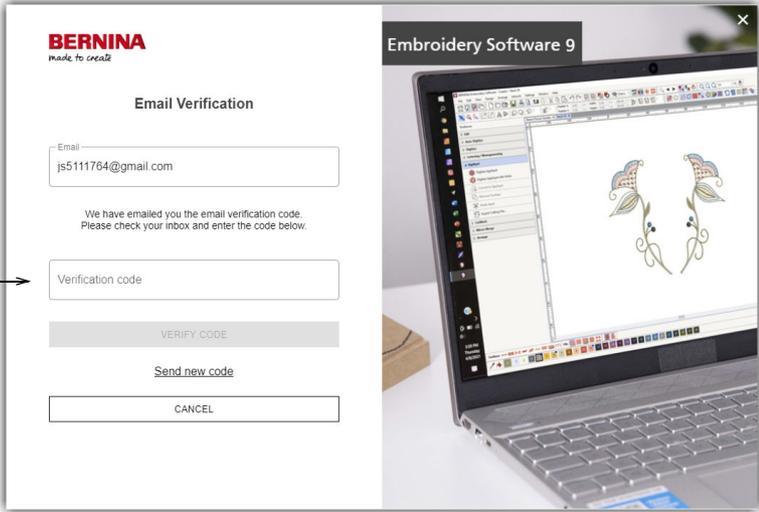
Customer Experience Improvement Program
I agree to allow BERNINA to collect, maintain, process and use analytics data related to my use of their Software according to the [End user license agreement](#). All the data collected is anonymous and no IP addresses or personally identifiable information are stored. I can deactivate this option from within the software at any time, free of charge.

* required

CREATE ACCOUNT

- 4 Fill out these details and click the 'Create Account' button. The next screen is the verification screen.

Enter verification code →



BERNINA
made to create

Email Verification

Email: js5111764@gmail.com

We have emailed you the email verification code.
Please check your inbox and enter the code below.

Verification code

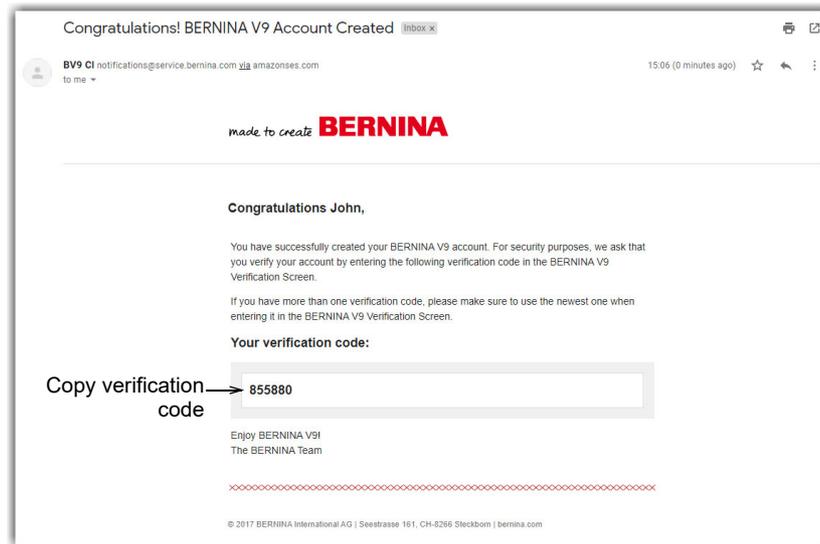
VERIFY CODE

[Send new code](#)

CANCEL

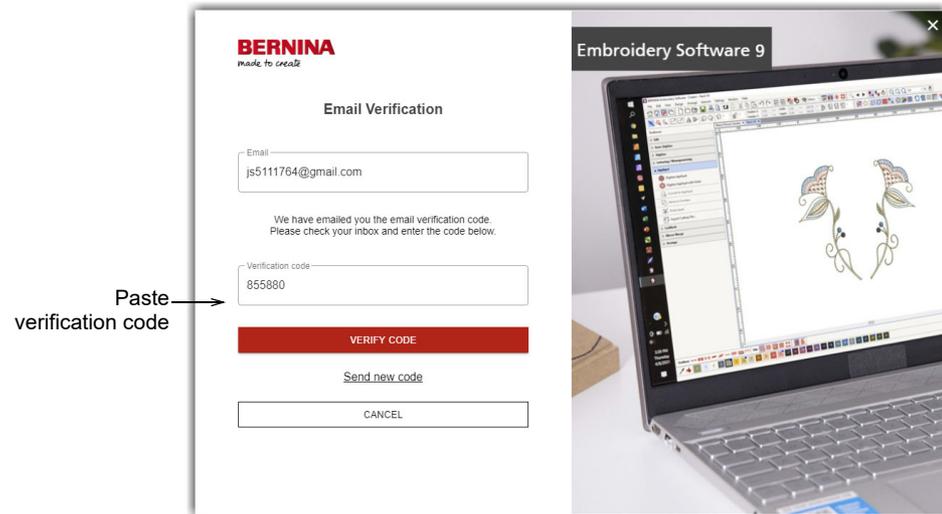
Embroidery Software 9

A verification email will be sent to the registered email address.

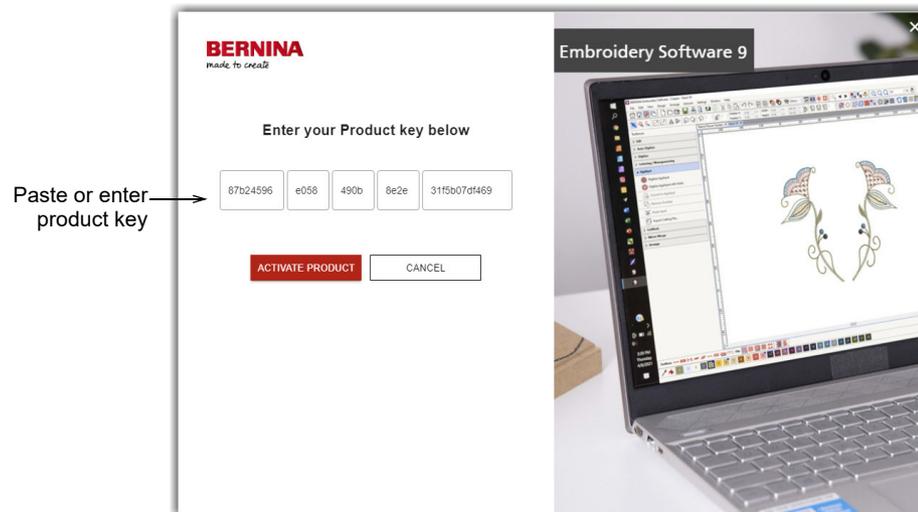


Tip If the email does not appear shortly, check the SPAM folder. If necessary, click the 'Send new code' button.

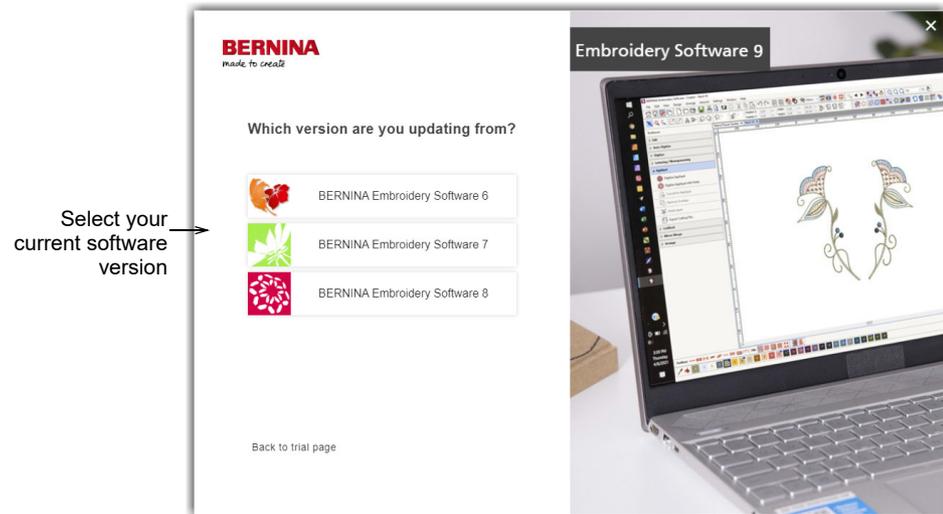
- 5 Once received, copy the code in the email – select and press **Ctrl+C** – and paste it into the verification code field.



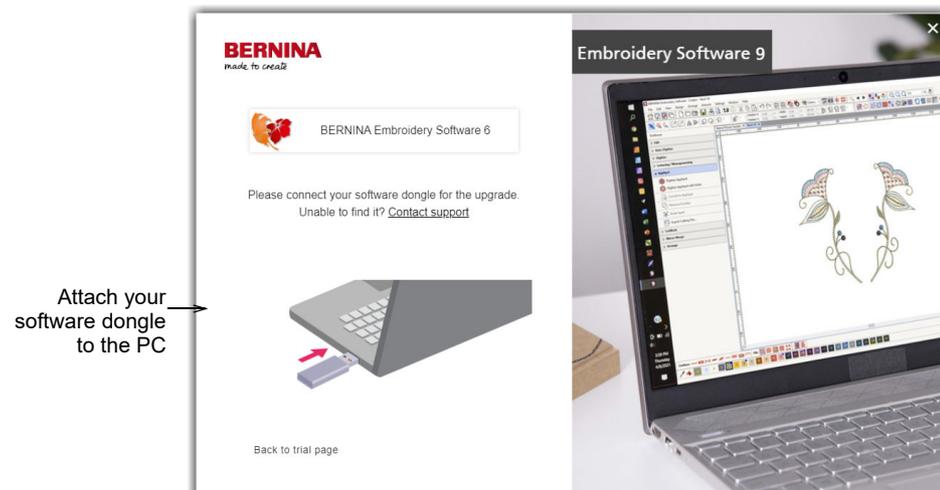
- 6 Click the 'Verify Code' button. You'll be prompted to enter the product key.



- 7 Enter the product key if you have it, and click the 'Activate Product' button. If you are updating from an earlier version you will be prompted to select the current software version you are using. This will only happen if the software is not able to detect your existing version.



- 8 Click to select your current software version. You will be prompted to attach your dongle to the PC in order to update.



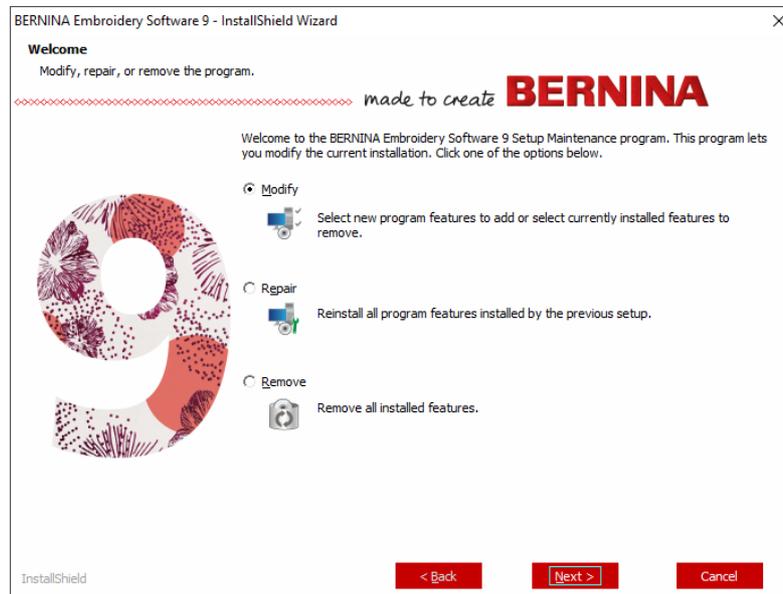
Upon successful detection of your current dongle or software key, the process will continue automatically. The hardware dongle is deactivated and can be discarded following a successful update.

Modify your installation

Whether you are updating your current software or wanting to uninstall it, you follow the same procedure. When you re-run the installation program, it will automatically detect any existing installation and give you an option to modify, repair or remove it. This will prevent installation of more than one release on your computer.

To modify an existing installation...

- 1 Close all MS Windows® applications but leave Windows running.
- 2 Insert the Installation USB.



- 3 If the software is already installed on the computer, you will be prompted to:

Option	Notes
Modify	Change selection of installed components.
Repair	Reinstall same components.
Remove	Uninstall the software.

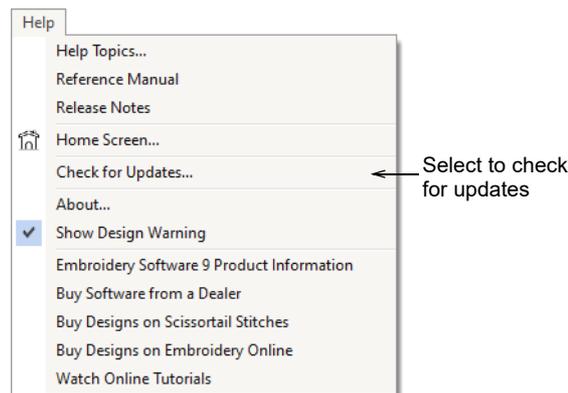
Upon successful installation of the software, the **Maintenance Complete** screen appears.

Periodic updates

Periodically you will receive automatic updates to your software installation. These will include improvements and fixes to known problems. If you are uncertain about your current status, you can manually check for updates.

To check for updates...

- 1 Connect your computer to the internet.
- 2 Start BERNINA Embroidery Software 9. It will automatically check for software updates. Alternatively, go the **Help** menu and choose **Check for Updates**.



If the installation is not up-to-date, you will be prompted to start the update. The required file will be downloaded from a secure server.

- 3 Once download has completed, follow the prompts.
- 4 Once the update is complete, you will need to restart your PC for changes to take effect.



Tip Automatic updates overwrite your 'normal' template. If you have made changes, you will need to save them to a custom template – e.g. 'My Template'.

Integration with CorelDRAW®

BERNINA DesignerPlus is unique in providing seamless integration with CorelDRAW® SE, the most popular vector-based drawing package for home users. This features 'best-of-breed' bitmap-to-vector tracing, enhanced illustration capabilities, photo-editing together with a library of professional clipart images.



The integrated **Artwork Canvas** provides access to all the CorelDRAW® SE drawing tools. These offer many techniques for drafting outlines and shapes on screen. Vector objects can be converted to embroidery designs. It also allows users to create not just embroidery, but true, multi-medium designs.

For a description of the tools, use the online help available from the **Artwork Canvas Help** menu. The same menu provides access to Corel Video Tutorials and other valuable resources.



Note CorelDRAW® SE is installed together with Windows .NET Framework. Make sure you install it when prompted to do so. It can take up to 20 minutes or more to install the .NET Framework on some computers.

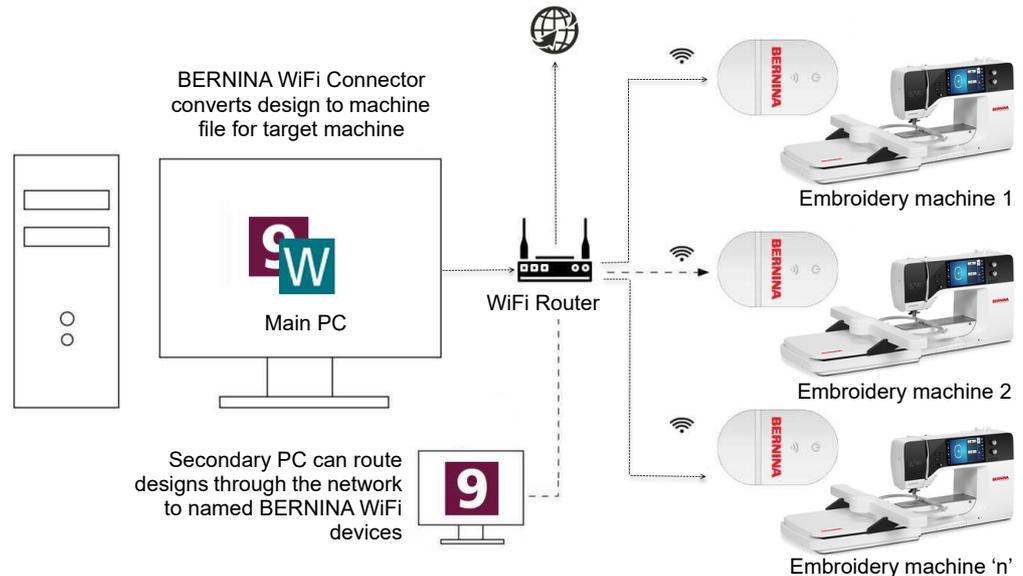
Hardware setup

Different devices are set up in different ways – some in MS Windows®, via the Control Panel, others within BERNINA Embroidery Software 9 itself. For instructions on connecting devices to your computer and setting up in MS Windows®, see the documentation for the device as well as your MS Windows® documentation.

Set up embroidery machines

We recommend using the dedicated BERNINA WiFi Device for cable-free communication between computer and machine. The BERNINA WiFi Device is provided with most BERNINA V9 products. It can also be purchased

separately. The concept behind the BERNINA WiFi Connector network is described by the following diagram...



In the above configuration, designs are transferred to BERNINA WiFi Device via the main PC running the BERNINA WiFi Connector application. They can either be sent directly from the main PC or from a second PC.

Set up scanners

BERNINA Embroidery Software 9 supports TWAIN-compatible scanners.

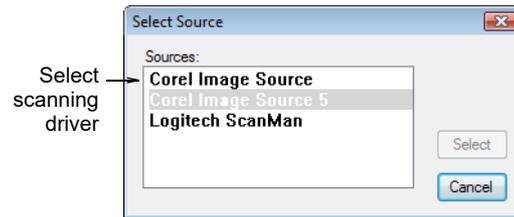


Note Some scanners will not work with BERNINA V9 because they require their own scanner software. If this is the case with your scanner, use your scanner software for scanning, save the image to your hard drive, then load the image into BERNINA V9.

To set up scanners...

- 1 Connect the scanner using the accompanying instructions.

- 2 Set it up in MS Windows[®] using the accompanying instructions and/or the Microsoft MS Windows[®] documentation.
- 3 Start BERNINA Embroidery Software 9.
- 4 Select **Settings > Scanner Setup**. The **Select Source** dialog opens displaying a list of scanner drivers loaded on your computer.



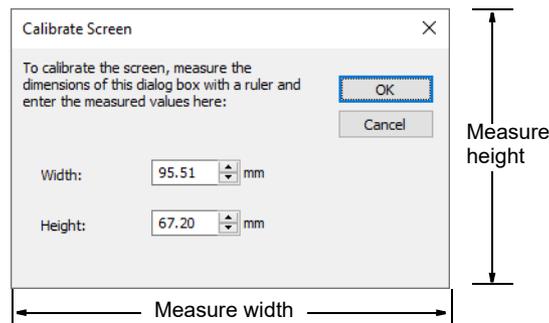
- 5 Select the scanning driver to use, then click **Select**.



Note If you have trouble with scanning after re-starting BERNINA Embroidery Software 9, there may be a conflict with previously installed scanner drivers. Re-install BERNINA V9 and test the scanner. If the selected scanner driver does not work in BERNINA V9, select another scanner driver from the list. There are usually two installed for each scanner.

Screen calibration

The **Screen Calibration** dialog lets you calibrate your monitor to ensure that designs at 1:1 scale display at the actual size of the final embroidery.

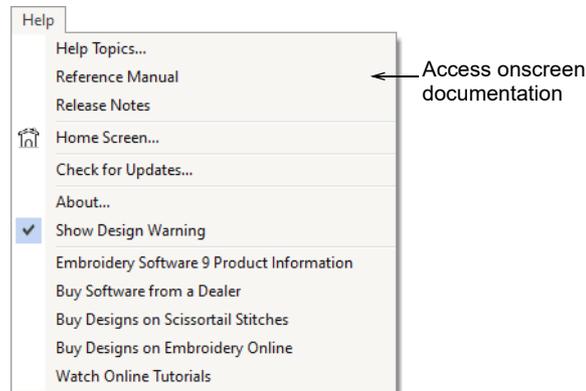


Resources & support

BERNINA Embroidery Software 9 provides various ways to access information about the software and how to use it. It also provides links to sources of ready-made embroidery designs.

Resources

Onscreen documentation is provided in two formats – Online Help and Adobe Acrobat.



Depending on your product level, documentation components will include some or all of the following:

Release notes

A set of release notes is included with the software installation. These provide detailed information about new and improved features as well as direct links to the relevant sections of the Reference Manual.

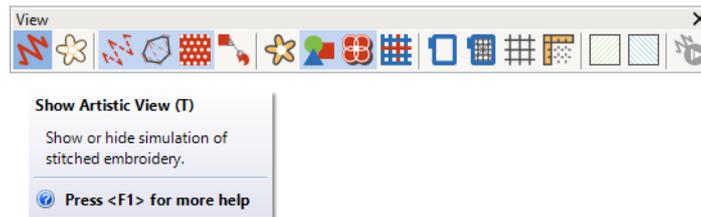
Reference manual

The Reference Manual provides detailed procedures covering all features of the **Embroidery Canvas** and **Embroidery Library**. It contains step-by-step instructions together with samples and screen images. The BERNINA Cross Stitch and BERNINA Quilter applications are documented in

supplementary manuals. Copies are available for download via the online help main page.

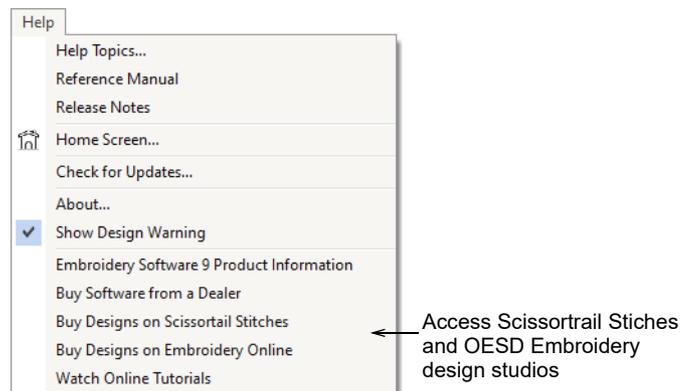
Online help

Online help provides quick access to general information on BERNINA V9 features and step-by-step instructions. An **F1** keypress accesses context-sensitive help.



Online resources

There are many other sources of ready-made embroidery designs which you can purchase and adapt as you wish. The **Embroidery Canvas Help** menu directs you to two rich sources – Scissortrail Stiches and OESD Embroidery design studios.

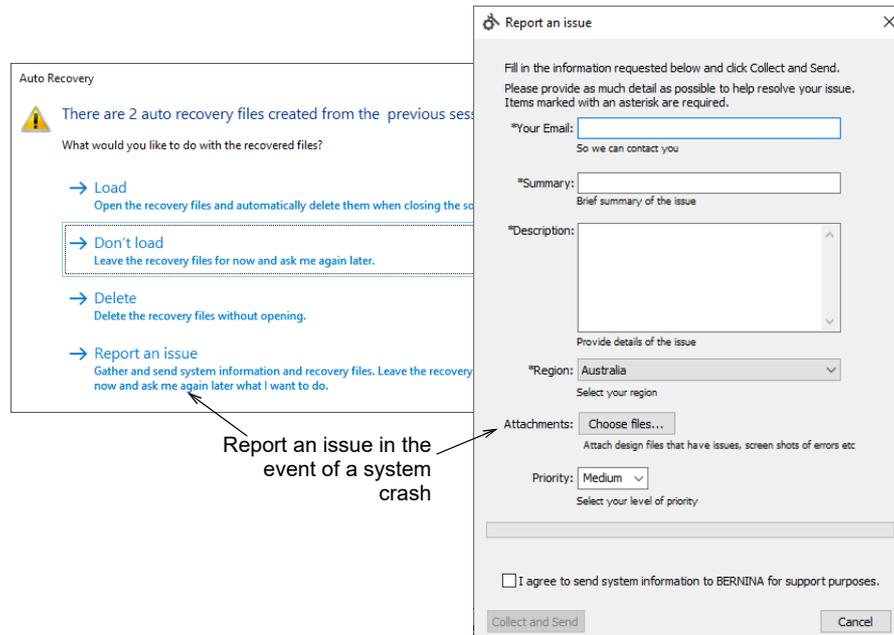


Note For a description of the CorelDRAW® tools available in **Artwork Canvas**, refer to the online help available from the **Artwork Canvas Help**

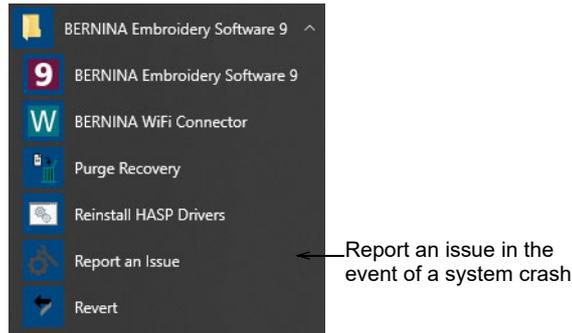
menu. The same menu provides access to Corel Video Tutorials and other valuable resources.

Feedback reporter

BERNINA V9 includes a feedback reporter, when connected to the internet, to provide direct contact with BERNINA V9 Support following a system crash...



Use the issue reporter to request assistance for specific issues. The reporter can also be run independently from the BERNINA V9 program group.



Conventions used in the manual

The following conventions are adopted and used throughout the manual.

Commands

In this manual, commands on a menu or submenu are referred to by both the menu and command names. For example the 'Dim Artwork' command in the 'View' menu is referred to as **View > Dim Artwork**.

Dialog boxes

Dialog boxes are referred to as 'dialogs' and are shown in the manual only if they provide important information on using BERNINA Embroidery Software. The screen images provided are intended to be representations, not exact duplicates of the layouts generated by the software.

Keyboard conventions

Instruction	Symbol	Action
Click		Click the left mouse button.
Right-click		Click the right mouse button.
Double-click		Click the left mouse button twice without moving the mouse.
Click OK	 or 	Click OK with the mouse or press the Enter key on the keyboard to complete the action.
 + 		While holding down the Control key (Ctrl), press the S key to save design.

GETTING STARTED

If you are new to BERNINA Embroidery Software or machine embroidery, you are probably asking yourself 'where do I start?!'.

It's safe to say that you will spend many hours learning how to get the most out of your BERNINA embroidery machine and the design software which supports it. The two work together hand-in-hand and it takes practice and patience to master both the creation and production of fine embroidery.

The results, however, will speak for themselves, making the time you invest all the more valuable. With each project you complete, you will gain in experience and confidence and be ready to tackle the next challenge.

This section outlines the main uses you will make of your BERNINA V9. Please refer to the reference manual for more in-depth information.

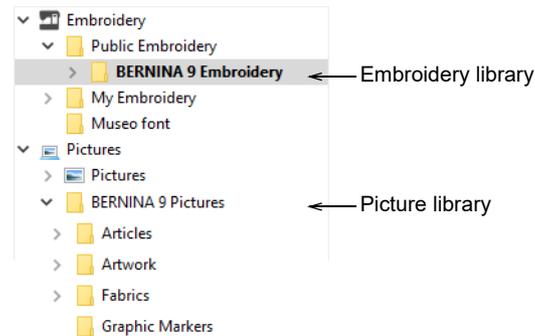


First things first

You don't need any experience to start with BERNINA Embroidery Software. You can simply open a design and send it to your machine to 'stitch out'. And this is the best place to start. As you gain experience, you will be able to 'read' designs and identify which are good and which may cause problems.

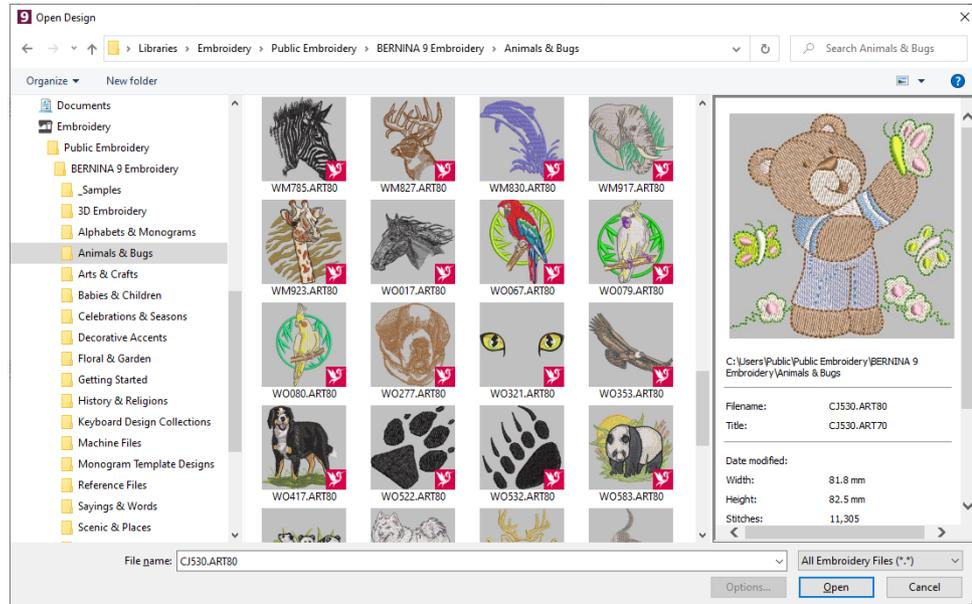
Sample designs & artwork

BERNINA V9 contains hundreds of ready-to-stitch designs, including many attractive ornaments, samples and digitizing backdrops. Design files (ART files) and images (BMP, JPG, and WMF files) can be found in your Embroidery and Picture libraries.



Note In order to view Artwork select 'All Artwork Files' in 'Showing'.

The most valuable thing you can do when starting out as a new user, is to spend some time exploring these designs and getting to know what's available.

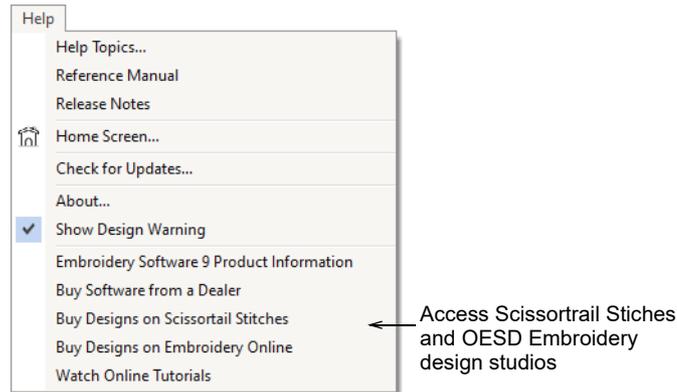


Note BERNINA V9 includes its own **Embroidery Library** design management application to view and manage your embroidery designs. Alternatively, explore design folders using MS Windows® Explorer.

Other sources

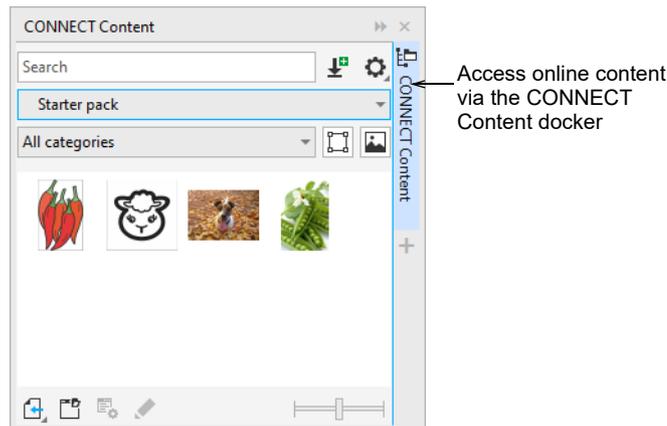
There are many other sources of ready-made embroidery designs which you can purchase and adapt as you wish. Your BERNINA V9 directs you to

two rich sources – Scissortrail Stiches and OESD Embroidery design studios.



Clipart

CorelDRAW® SE gives you access to online content and resources after registration. Once registered, clipart and other content can be accessed via the program group. It can also be accessed via the built-in **CONNECT Content** docker in **Artwork Canvas**. Go to **Window > Dockers > CONNECT Content** to open the docker.



Get familiar with the many clipart samples available to you. Many can be adapted for use with embroidery design, either as digitizing backdrops or direct conversion.



Caution Included artwork (clipart) and embroidery designs are only available for personal use – i.e. they cannot be commercially sold in any form.

Rules of good embroidery

Keep the following points in mind when looking at embroidery designs, both your own and others:

- ▶ Stitches are neat, smooth and even
- ▶ Design looks good – shapes, colors, balance
- ▶ Shapes are filled with correct fill and outline stitches
- ▶ Stitches are angled to match shapes
- ▶ Shapes are stitched correctly – no unwanted gaps
- ▶ Details are clearly defined
- ▶ Lettering is clear and easy to read.

The stitchout should also have the following characteristics:

- ▶ The design sews efficiently on the machine
- ▶ The fabric does not pucker around stitched areas
- ▶ The design is free of loose ends.

Good embroidery quality starts with good design. You then need a good quality machine to stitch it out. But even that is not enough if you do not use the correct fabric, threads, backings, tension, and so on. Consult your machine manual for advice and get as much advice from other embroiderers as you can.

Working with embroidery

Before starting, let's take a look at the scenarios that you will find yourself working with. Typically, you will be involved in one or all of the following:

- ▶ Take a ready-made design and sew it out
- ▶ Make global changes to a design

- ▶ Create a lettering design
- ▶ Combine lettering with a design
- ▶ Adapt a design by changing parts
- ▶ Create new embroidery from artwork using automated techniques
- ▶ Create new embroidery manually
- ▶ Use special embroidery features

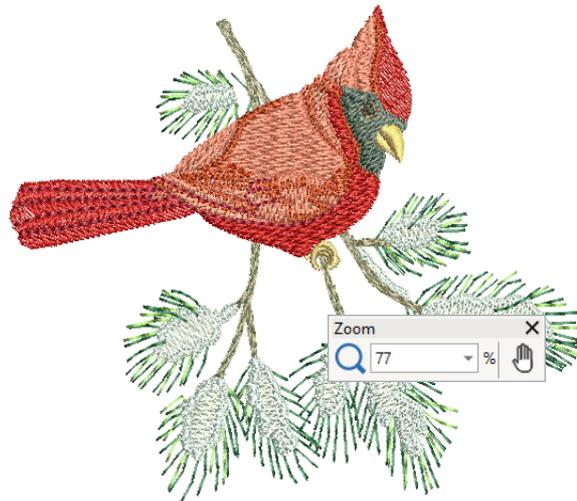
Let's look at those cases one by one.

Sew a ready-made design

For many embroiderers, it is enough to take an existing design and stitch it out. This is certainly where most will start. Once you have found a design you like, you will want to preview it to see how it will sew out. A number of steps are involved. We outline the main ones here.

To sew out a design

- 1 Open the design in BERNINA V9.



- 2 Adjust viewing settings as desired.

- 3 Check the fabric type and change as necessary.
- 4 Check thread colors and if necessary, change charts to suit the one you are using.
- 5 Preview the stitchout so you understand how the design will sew on the machine.
- 6 Choose a hoop and check location within the hoop.
- 7 Preview the design and print out a design worksheet before sewing out as desired.
- 8 Send the design to machine directly or via data media (usually memory stick).



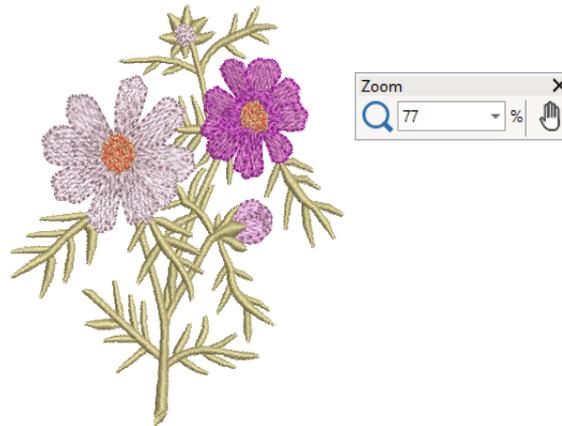
Tip Check your BERNINA machine documentation for steps involved after transferring the design to machine.

Modify an entire design

Once you are used to the steps involved in sewing out designs – either clipart or ones you have purchased – you will soon want to make global design modifications such as resizing, or changing thread colors and fabric types. These are all relatively simple operations.

To modify an entire design

- 1 Open the design you want to use.



- 2 Check design dimensions, and resize as required.
For example, if you are stitching a left chest design, maximum size will be approximately 4.25" or 108 mm square.
- 3 Adjust design thread colors as desired.



- 4 Alternatively, use the **Alt** key to 'suspend' grouping temporarily. Hold and click to select individual objects to recolor.

- 5 Check the fabric type and change as necessary.
- 6 Select a hoop of the required size.
- 7 Visualize the design on a garment or article.



- 8 Print a worksheet and send the design to machine.

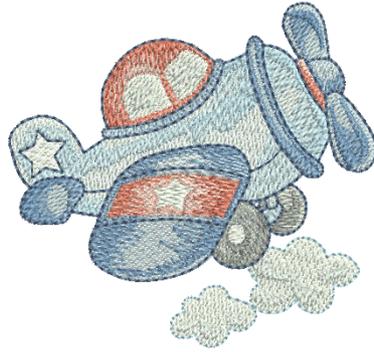
Create a simple lettering design

Once you are used to sewing out designs and resizing, changing colors and fabric types, you will definitely want to create your own lettering designs. While it takes practice to obtain a good quality lettering stitchout, it is as simple as typing letters on-screen to create attractive lettering in BERNINA V9.

To create a simple lettering design

- ▶ Typically you'll want to add lettering to an existing design.

- ▶ Add embroidery lettering to designs quickly and easily, either on-screen using current settings or via 'object properties'.



CHILDS PLAY

- ▶ It's then a simple matter to adjust baselines, formatting, spacing settings, and colors.



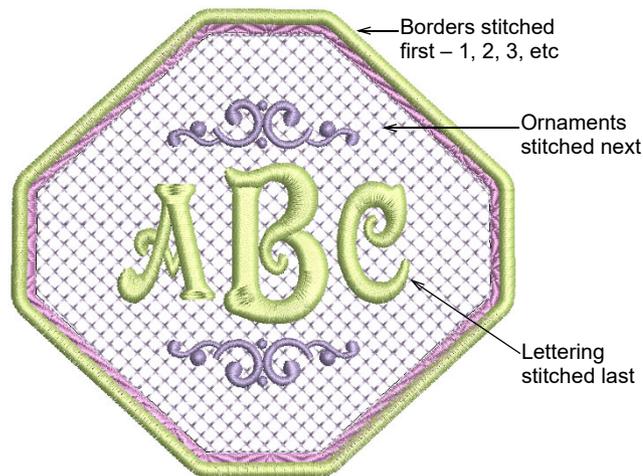
- ▶ Try stitching out your lettering design. Study the stitch quality. Be aware that different fonts sew out better at different sizes.

Create more advanced lettering

Once you have tried your hand at creating lettering designs and sewing them out, you will want to do more adventurous things, such as monograms, fancy lettering, flair scripts, raised lettering with trapunto, as well as special 'elastic lettering' effects. The creative possibilities are endless. Your appetite to try new things will be stimulated as you gain experience and confidence. Part of that involves becoming adept at using your BERNINA machine as well as sampling and checking design quality.

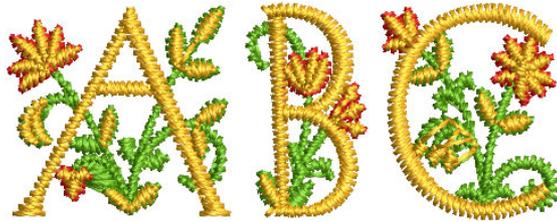
Monogramming

BERNINA V9 makes the creation of monogramming designs quite simple with the 'all-in-one' **Monogramming** tool. Optionally include lettering, ornaments, and/or up to four concentric borders in your monograms.



Fancy fonts

BERNINA V9 includes a number of fancy fonts such as **Creative Cross** and **Secret Garden-Caps**. These fonts include multiple colors and miniature designs.



Flair script is a special font which allows you to add decorative flairs to the end of text objects, mimicking flamboyant handwriting flourishes.



Lettering stitch effects

By default, lettering objects are filled with satin stitching. You can apply other fill stitch types, such as **Step** or **Fancy**, as well as effects such as **Textured Edge**.



Elastic lettering

Apply 'elastic lettering' effects to embroidery lettering to make it bulge or arch, stretch or compress.





Tip Remember to study the sample designs included with your BERNINA V9 installation.

Adapt a design

Adapting designs is perhaps the most common scenario in embroidery. You will sometimes want to create a new design, usually from artwork, but more often you will want to take an existing design and 're-purpose' it. We've already seen how to make global changes such as sizing, changing colors and fabrics. It won't be long before you want to try more 'invasive' changes such as reshaping, removing, combining, duplicating, resequencing, changing stitch types and effects, etc. Here is a sampling of the things you may want to try.

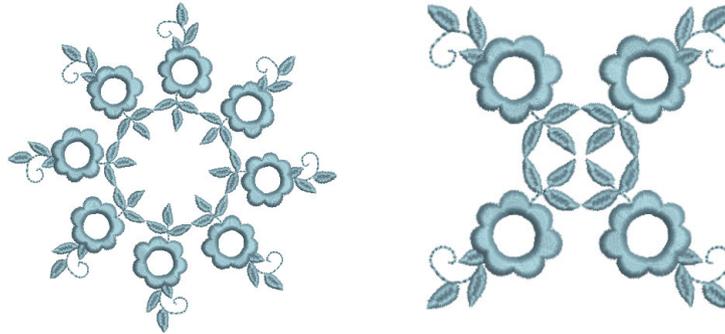
Combine designs

One technique you will undoubtedly use is combining design elements. This will in turn teach you a lot about other editing operations such as resizing, positioning, rotating, sequencing objects, as well as removing underlying stitching.



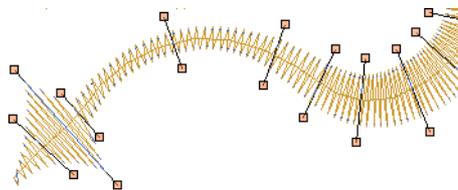
Transform design elements

Depending on the type of design work you are doing, you can make use of BERNINA V9 tools for duplicating, rotating, and mirroring design elements to create wreaths, kaleidoscopes, and other effects.



Reshape elements

Reshaping operations may be called on for anything from minor modifications to object shapes to reshaping letters for special effects. In all cases, if it is selectable, it can be reshaped.



Apply artistic stitch effects

It won't take long before you get bored with simple fills and outlines and want to try out some of the many artistic stitch types and effects BERNINA V9 provides.



Tip Remember to study the sample designs included with your BERNINA V9 installation.

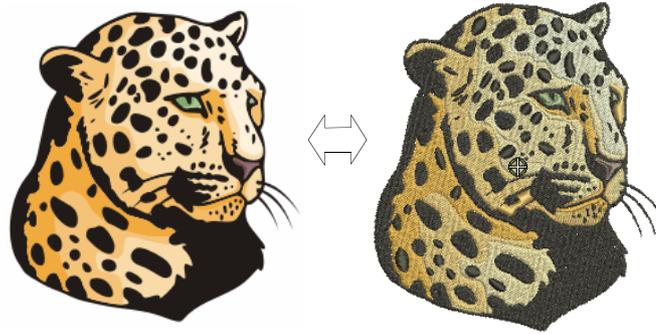
Create 'automatic embroidery'

If you have graduated this far in your exploration of your BERNINA machine and BERNINA V9, you are doing well. You can already achieve a great deal without having to actually do your own design or digitizing work. However, if you have graduated this far, that is probably exactly what you want to do!

One of the quickest ways to get started is to use the automated techniques BERNINA V9 provides. While there are limitations to what can be done this way, it nevertheless allows you to prototype design ideas relatively simply and may be sufficient for your purposes. At least for now!

Vector artwork conversion

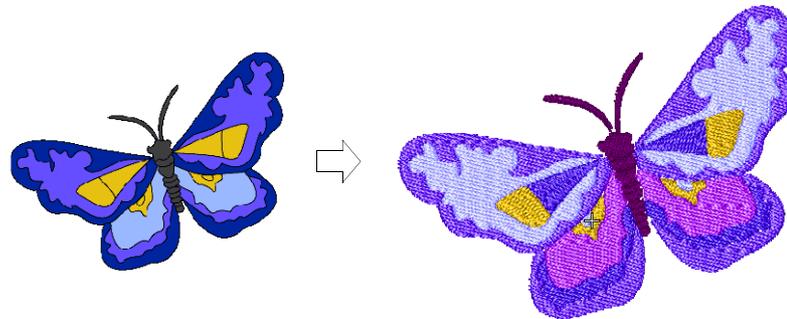
Special conversion tools in BERNINA V9 automatically convert vector objects and text to embroidery or lettering objects. These can be modified as required.



Tip A good starting point is to use some of the many clipart samples packaged with CorelDRAW®. Many of these can be adapted for use in embroidery design.

Bitmap artwork conversion

The **Magic Wand** tool provides everything necessary to digitize shapes in bitmap images automatically. An extension of this technology, **Auto-Digitize** recognizes shapes in artwork and makes decisions about the most suitable stitch types to use.



Photographic conversion

Use the powerful **Color PhotoStitch** tool to create embroidery from photographs and other images.

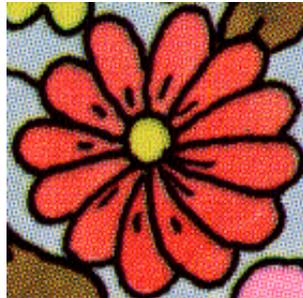


Create new embroidery from scratch

If you have reached this point, you have already mastered 90% of the techniques that most embroiderers need. However, coming to grips with the 'black art' of manual digitizing is the next step in becoming an embroidery master. But you don't have to dive off the deep end. You can start with quite simple projects and work your way up to more complicated designs with more complicated stitch effects.

Start with good artwork

To create good quality embroidery, you need to choose suitable artwork for use as a digitizing backdrop. Unless you are an experienced digitizer, don't use complicated artwork.



Scanned in 256
color mode



Scanned in RGB
color mode
(millions of colors)

Artwork that is not in digital format needs to be scanned. This can be done via CorelDRAW® which is included with BERNINA DesignerPlus. Possible sources include:

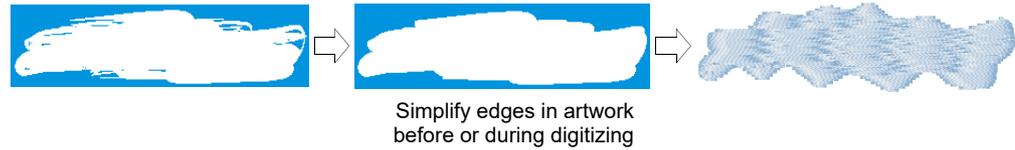
- ▶ books
- ▶ internet or CD clipart
- ▶ children's art
- ▶ your own original artwork.

And remember that a good starting point can be found with some of the many clipart samples packaged with CorelDRAW®. Many of these can be adapted as 'digitizing backdrops'.

Prepare your artwork

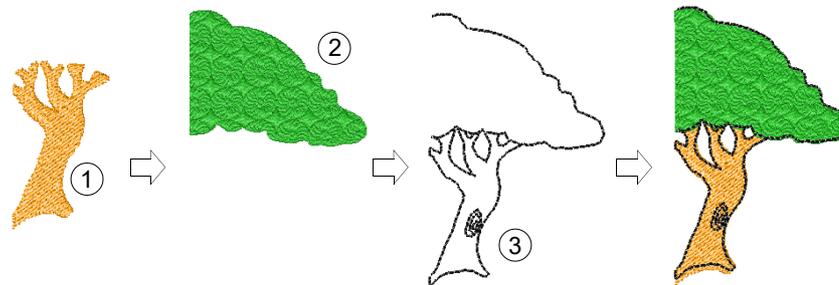
Before digitizing, you need to analyze and plan design shapes and stitching sequence carefully. Design shapes need to be clearly defined to make them easy to embroider. The easiest shapes to embroider have a relatively

constant width, with smooth edges, no sharp turns and no small, protruding details.



Digitize your design

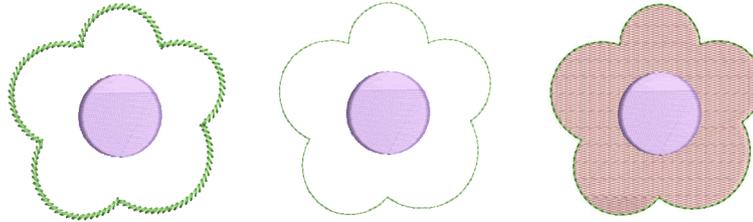
In BERNINA V9, you build designs from basic shapes or 'embroidery objects'. The process of creating embroidery objects on-screen is called 'digitizing'.



As with creating designs in graphics applications, embroidery digitizing involves the use of different tools or methods. These are used in conjunction with stitch types to create embroidery objects.

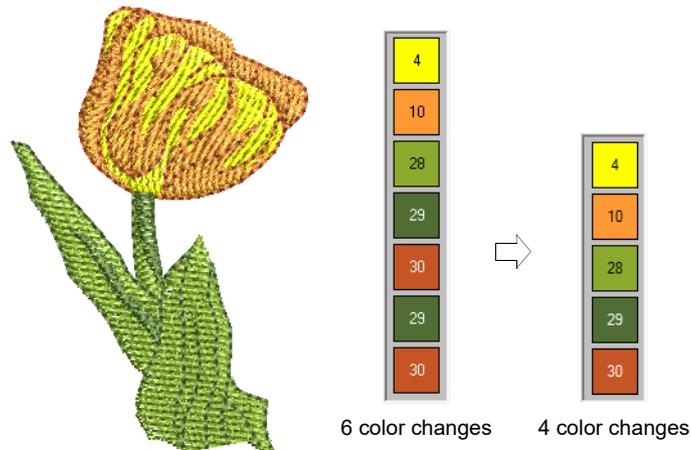
Choose stitch types

Decide which stitch types you will use for each design shape. BERNINA V9 lets you change them at any stage.



Sequence your design elements

Design sequence is the order in which objects are created and therefore in which they are stitched out. You can change the object sequence to improve sewing – for example, to minimize color changes. Details should be stitched last.



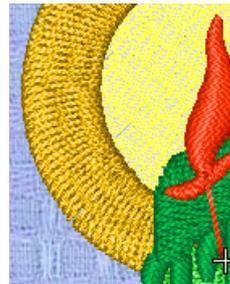
Improve stitch quality

Through trial and error you will get a feel for the issues that affect stitch quality. BERNINA V9 automates many of the quality issues such as stitch

bunching, push-pull effect, and embroidery stability. This single most important setting in this regard is choice of fabric type.

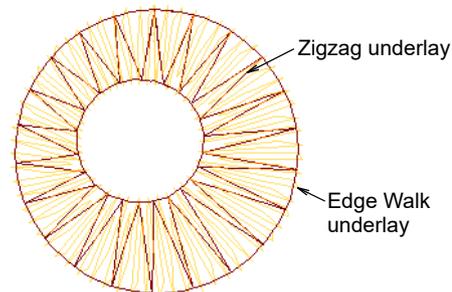


Woven Medium Weight

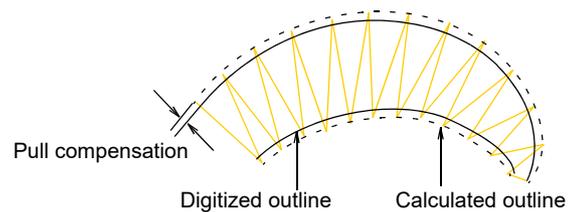


Woven Heavy Weight

Other factors come into play such as choice of underlay type.



Pull compensation is the other stitch quality setting which you may have to consider, although default settings are generally sufficient.



Use special embroidery features

Once you have mastered manual digitizing, you are in a position to take advantage of the full range of stitch types and effects that BERNINA V9 offers. Many of them you will be familiar with, having already adapted existing designs for different purposes.

Freehand embroidery

Some of them, like **Freehand Embroidery**, cannot be applied to existing objects but must be digitized from scratch. This is a technique that lets you create designs with a hand-drawn appearance, something which is difficult to achieve through conventional digitizing methods. The aim is to mimic designs formed on an embroidery machine by freehand motion. The difference is that the fabric secured in an embroidery hoop, allowing the needle to 'draw' on the fabric surface, exactly as you have drawn on-screen.



Patterned stamps, runs & fills

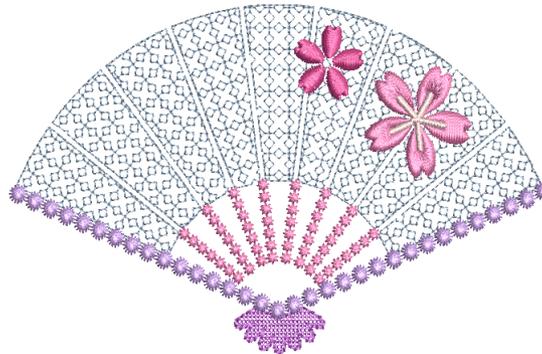
Patterns are predefined design elements, such as hearts, leaves or border patterns, that can be quickly inserted into a design. They generally consist

of one or more simple objects, and are stored in a special pattern set. Use them to create patterned borders or fills, or use them standalone.



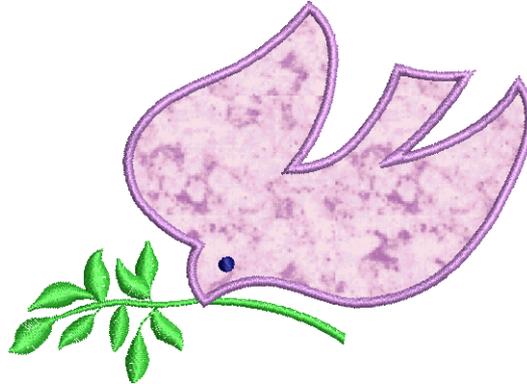
Craft stitch borders & fills

BERNINA V9 provides a range of craft stitches which you can use to mimic some traditional hand-worked embroidery. They include a large range of blackwork and candlewicking patterns suitable for both outlines and fills.



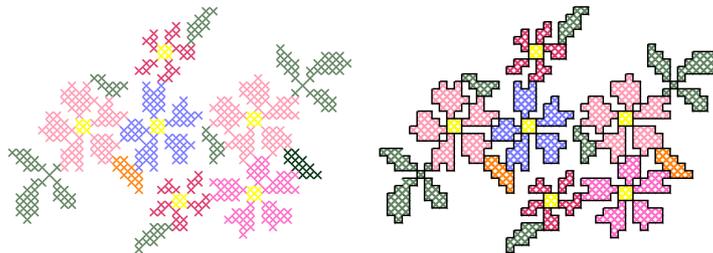
Appliqué

Appliqué is an important craft in home sewing, and the **Digitize Appliqué** feature provides an easy way to create quality work. Use it to generate the stitching you require for closed-object appliqué.



Cross stitching

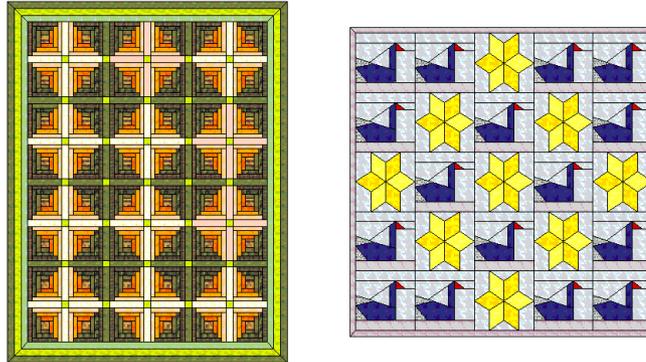
Cross stitching is a popular technique for filling large areas with low stitch counts. It can also be used for outlines and borders. It is suitable for homeware, tablecloths, children's clothes and folk designs. Cross stitch is sometimes combined with appliqué. The BERNINA Cross Stitch application lets you create dedicated cross stitch designs or add cross stitching to embroidery.



Quilting

Patchwork is a popular technique for designing and sewing patches into blocks. BERNINA Quilter can be used to design patchwork quilts, either

from existing designs or patterns, or from designs of your own making. Use BERNINA Quilter to experiment with patches and colors enabling you to create beautiful, personalized quilts.



Embroidery quilting

Quilted embroidery creates dimension by stuffing or filling areas to produce a raised surface. It employs a technique known as 'trapunto', also referred to as 'stuffed embroidery'. Using **Layout** tools, it's a simple matter to define quilt blocks of specified size. You can then arrange elements around the block, with or without a central design element.



Buttonholing

BERNINA V9 allows you to insert preset buttonholes, either singly or in a line. You can specify their size and merge them into a design.



Multi-decoration

With the inclusion of CorelDRAW®, BERNINA V9 supports multi-medium design. A popular technique is to combine digital print with embroidery to create multi-decoration work. This is intended to be both digitally printed and embroidered.



Typically, transfer paper is used together with a normal color printer. Images are reversed during printing and the transfer then ironed onto the garment. Check the available options and use one that lets you reverse the image.

Raised embroidery

Finally, if you have exhausted all the techniques outlined above, or if you have a particular interest in fiber-arts crafts, you may be tempted to lift your embroidery right off the canvas so to speak, and venture into raised or 'sculpted' surfaces. Thankfully BERNINA V9 provides some smart methods to make this easier for you to achieve.



Happy embroidery!

Do good work with your BERNINA machine and BERNINA V9. With this equipment you have everything you need to create top quality, fully professional embroidery. The only thing you lack is the capacity to mass produce!

Remember that Rome wasn't built in a day. It takes practice and patience to master all the techniques and approaches outlined above. But the results will more than reward the time you invest in the fascinating art and craft of embroidery decoration.

Remember to make good use of the packaged designs and clipart. When in doubt, go back to first principles. And when you find you want to expand and extend your repertoire, study the sample designs carefully to see how it's done.

As a final word of advice, try stitching out sample designs before you embark on your own creations. This will alert you to the key issues to consider when doing your own work.

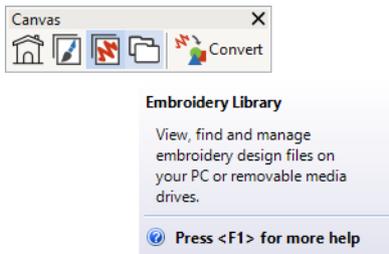
All the best. And have fun!

QUICK REFERENCE

This Quick Reference outlines the operating modes of BERNINA Embroidery Software and summarizes commands and tools available in **Embroidery Canvas** and **Embroidery Library**.

Operating modes

BERNINA Embroidery Software has one workspace but you interact with it in different modes or 'canvases' – **Home**, **Artwork Canvas**, **Embroidery Canvas**, or **Embroidery Library**. These are accessed via the **Canvas** toolbar.



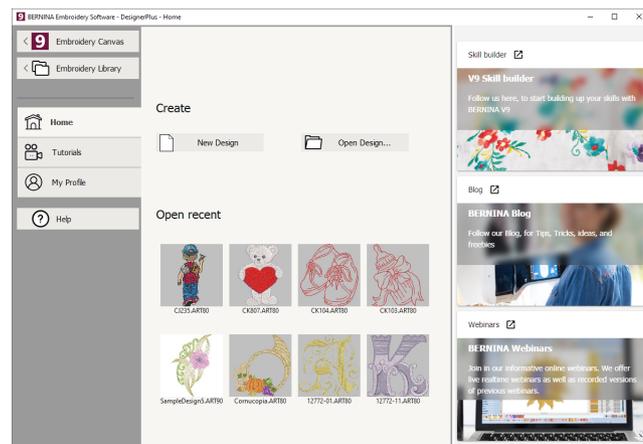
Tip The **Options** dialog allows you to set the default start screen – usually the **Home** screen. Alternatively, you may prefer to display either the **Embroidery Canvas** or **Embroidery Library** on startup.

Home screen



Click Canvas > Home to return to the Home screen to get started with a new design, or access tutorials and other product information.

The **Home** screen loads by default when BERNINA V9 starts. It offers quick access to recently opened designs as well as content such as tutorials, project ideas, blog postings, and much more.



In a nutshell, the **Home** screen provides...

Feature	Benefits
Quick access to software features	<ul style="list-style-type: none"> • Links to Embroidery Canvas • Links to the Embroidery Library features
Home page	Quick access to... <ul style="list-style-type: none"> • Blank design or 'canvas' • Existing files from hard drive • Recently opened design files.
Tutorials	Libraries of lessons prepared by BERNINA Embroidery Software experts.
Skill builder	Quick access to... <ul style="list-style-type: none"> • Project ideas for your embroidery machine • Embroidery projects for beginners and experts • Free downloads, instructions and much more • Tips and tricks to facilitate embroidering.
BERNINA blog	Regularly updated content including tips, tricks, ideas and freebies.
BERNINA webinars	Informative online webinars, both realtime as well as prerecorded.
Embroidery designs shop	New designs are released each week. Shop by theme, technique or brand.



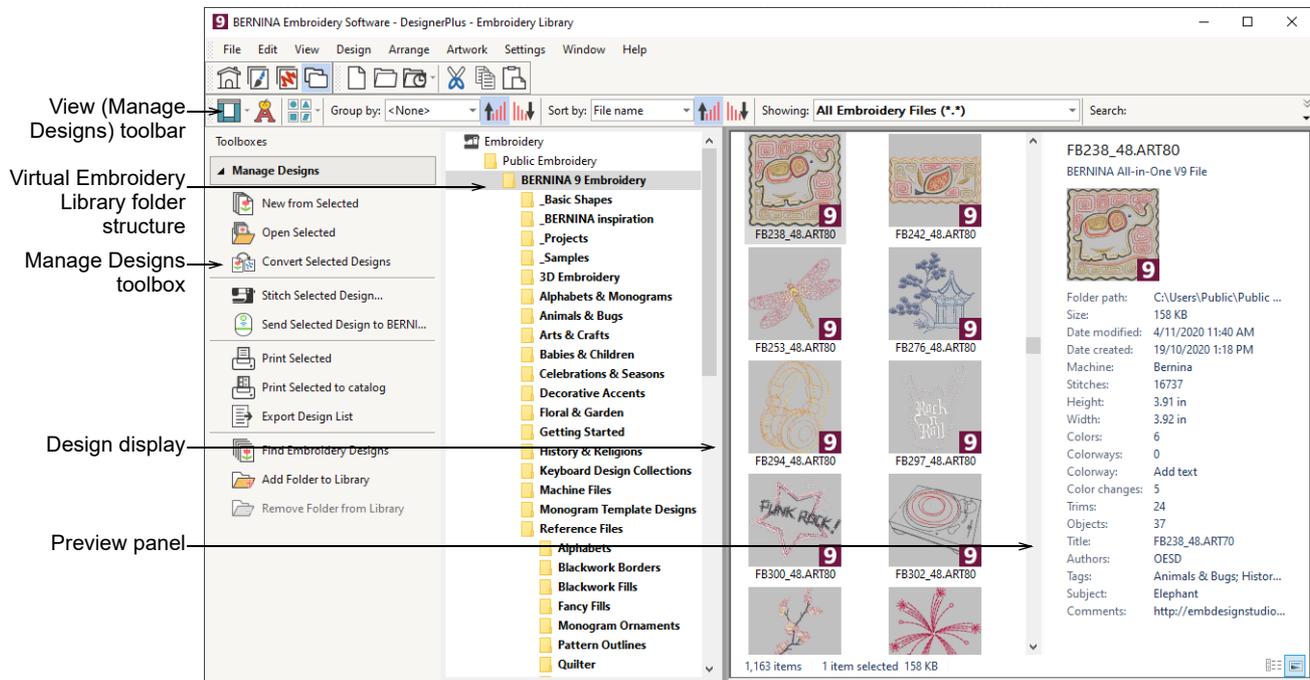
Tip You can deactivate the **Home** screen from running on startup via the **Options** dialog.

Embroidery library



Use Canvas > Embroidery Library to view and manage all embroidery designs and artwork on your system.

The built-in **Embroidery Library** provides an efficient way to view and manage embroidery designs. It recognizes all design file formats used by the software. The library also makes it easy to search, sort and browse all embroidery designs on your system.



In a nutshell, **Embroidery Library** lets you:

- ▶ Find embroidery designs anywhere on your hard drive or external storage device and, optionally, add them to your embroidery library.
- ▶ Search for designs by various means, including known design information.
- ▶ Create an organizing structure for easy categorization.
- ▶ Batch-convert selected design files to many machine formats such as EXP, DST, SEW, and others.
- ▶ Print selected designs or send them to embroidery machine for stitchout.

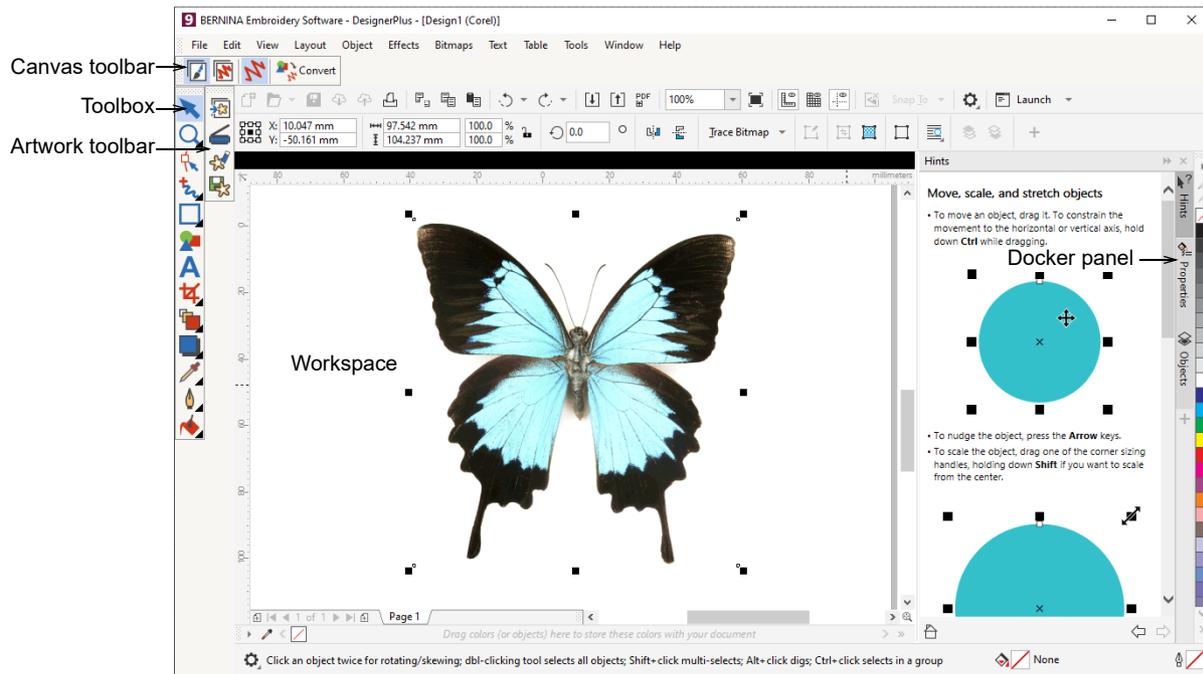
Artwork Canvas



Use Canvas > Artwork Canvas to import, edit or create vector artwork as a backdrop for embroidery digitizing, manual or automatic.

BERNINA DesignerPlus integrates with CorelDRAW® SE into a single application. The **Artwork Canvas** allows you to create and edit bitmap and vector artwork using the CorelDRAW® SE toolbox. Below is a screen image of the **Artwork Canvas** workspace. This includes the entire suite of CorelDRAW®

drawing tools which offer many techniques for drafting outlines and shapes onscreen.



In addition, **Artwork Canvas** provides capabilities to convert **vectors** and vector text directly to embroidery. You can use **Artwork Canvas** to insert or paste third-party vector graphics such as clipart for use in embroidery designs. Alternatively, insert, paste or scan **bitmap** artwork for use as digitizing templates or 'backdrops'.



Note For a full description of the CorelDRAW® tools, refer to the product information available from the **Artwork Canvas Help** menu.

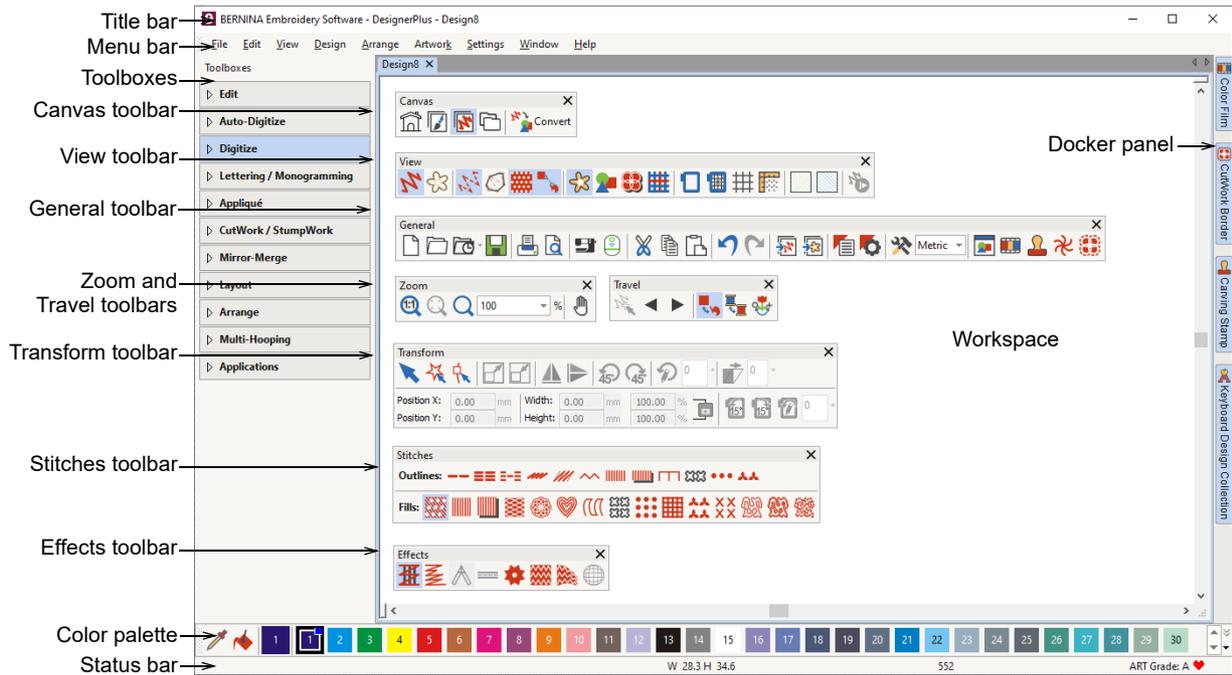
Embroidery Canvas



Use Canvas > Embroidery Canvas to digitize and edit embroidery designs. Display embroidery as well as artwork. View designs realistically in 3D simulation.

The **Embroidery Canvas** allows you to create, edit, and output embroidery designs. The

screen image below displays an exploded view of all toolbars in the **Embroidery Canvas**.



Embroidery Canvas menus

The **Embroidery Canvas** menu bar contains the pulldown menus described below.



Note Standard MS Windows® **Alt** key shortcuts apply. Use the **Alt** key with the letter underlined in the menu. To cancel an operation, press **Esc** twice.

File menu

- | | |
|--------------------|---|
| New | Open new blank design. Shortcut <Ctrl>+<N>. |
| New from Template | Create new design from template. |
| Open Design | Open an existing design. Shortcut <Ctrl>+<O>. |
| Open Recent Design | Open a design from the most recently used. |

Open Backup Design	Open directly onto the backup folder for quick access to backup files in case of software failure.	Insert Artwork	Import vector or bitmap artwork into current design as a backdrop for manual or automatic digitizing.
Close	Close current design.	Scan Artwork	Scan images directly into BERNINA V9.
Save	Save current design. Shortcut <Ctrl>+<S>.	Save Design As Bitmap	Save design images in Stitch View or Artistic View. The resulting image is exactly as it appears in the workspace.
Save As	Save current design with a different name, location or format.	Sign Out and Release License	Each licensed copy of the software is for a single user. It entitles you to install the product on up to three (3) devices. But you may only run the product on one (1) device concurrently.
Save as Template	Save current design as a design template for future use.	Exit	Close all open designs and exit BERNINA V9. Shortcut <Alt>+<F4>.
Export Machine File	Convert current design to a machine-readable format.	Edit menu	
Export Cutting File	Export object shapes to SVG or EXP file for cutting machine or BERNINA embroidery machine with the CutWork tool.	Undo / Redo	Cancel last command or series of commands, or re-apply. Shortcuts <Ctrl>+<Z>/<Y>.
Print	Print design using current settings. Shortcut <Ctrl>+<P>.	Cut / Copy	Cut or copy selection and place on Clipboard. Shortcuts <Ctrl>+<X>/<C>.
Print Preview	Preview design worksheet for the current design.	Paste	Paste contents of Clipboard into workspace. Shortcut <Ctrl>+<V>.
Read from Card / Machine	Read (open) design from BERNINA V9 Design Card or BERNINA embroidery machine.	Duplicate	Duplicate selection without placing it on Clipboard. Shortcut <Ctrl>+<D>.
Write to Card / Machine	Write (save) design to BERNINA design card or BERNINA embroidery machine.	Duplicate with Offset	Duplicate object at a preset offset from the source object. Shortcut <Ctrl>+<Shift>+<D>.
Read from BERNINA WiFi Device	Receive designs from a named BERNINA WiFi Device.	Delete	Delete selection without placing it on clipboard. Shortcut .
Send to BERNINA WiFi Device	Send the current design to a named BERNINA WiFi Device.		
Insert Embroidery	Import embroidery design files into the current design.		

Select All	Select all objects in design. Shortcut <Ctrl>+<A>.	Zoom > Zoom	Zoom in/out of workspace and zoom in on bounded areas to full window size. Shortcut .
Deselect All	Deselect all selected objects in design. Shortcut <X>.	Zoom >	Show design at actual size.
Close Curve with ... Line	Close an open outline with a straight or curved line.	Zoom 1:1	Shortcut <1>.
Smooth Curves	Apply curve 'smoothing' to selected objects.	Zoom > Zoom Factor	Display design as a factor of actual size – e.g. '1.5'. Shortcut <F>.
Elastic Lettering	Apply special effects to lettering objects to make them bulge or arch, stretch or compress.	Zoom > Zoom In 1.25x	Increase view by a factor of 1.25. Shortcut <+>.
Adjust Stitch Spacing	Change stitch density across whole or selected parts of a design.	Zoom > Zoom Out 1.25x	Decrease view by a factor of 1.25. Shortcut <->.
		Zoom > Zoom In 2X	Display design at 200% current view. Shortcut <Z>.
		Zoom > Zoom Out 2X	Display design at 50% current view. Shortcut <Shift>+<Z>.
		Zoom > Zoom to Fit	Fit whole design in workspace. Shortcut <0>.
		Zoom > Zoom to Selected	Fit selected objects in workspace. Shortcut <Shift>+<0>.
		Zoom > Zoom to Article	Fit entire article in workspace.
		Zoom > Zoom to Hoop	Fit entire hoop in workspace.
		Pan	Pan across the workspace by dragging. Useful at high zoom factors. Shortcut <P>.
		Previous View	Return to previous view. Shortcut <V>.
		Center Current Stitch	Center current stitch cursor position in workspace. Shortcut <C>.
		Measure	Measure distances and angles on screen. Shortcut <M>.
		Stitch Player	Simulate stitchout to check stitching sequence. Shortcut <Shift>+<R>.
View menu			
Artistic View	Show/hide artistic view. Shortcut <T>.		
Dim Artwork	Dim backdrops to show stitches more clearly when digitizing.		
Show > ...	Access same design viewing commands as available on View toolbar. See View toolbar for details.		
Show Hoop	Show/hide hoop display.		
Show Hoop Template	Show hoop template as an alternative to grid lines, in order to align design at correct location and orientation.		
Show Grid	Show/hide workspace grid.		
Show Rulers & Guides	Show/hide workspace rulers and guides.		
Show Work Area	Show/hide work area defined under Layout.		
Show Quilt Block	Show/hide quilt block defined under Layout.		

View by Color	Show only selected colors in design.
View all Colors	Show all colors after using the View by Color dialog.
Refresh Screen	Refresh screen display. Shortcut <R>.

Design menu

Design Properties	Show design information such as size or number of stitches, and add comments to print on worksheet.
Thread Colors	Search for and match threads from different charts, and assign for use.
Auto Start & End	Set start and end needle positions in design.
Fabric	Adjust fabric types and settings.
Background and Display Colors	Adjust design background and display colors.
Optimize Color Changes	Automatically resequence objects to reduce number of color changes.
Remove Small Stitches	Automatically remove unwanted small stitches.

Arrange menu

Group	Combine multiple objects into one selectable object grouping. Shortcut <Ctrl>+<G>.
Ungroup	Split object grouping into component objects. Shortcut <Ctrl>+<U>.

Lock / Unlock All	Lock and unlock objects to protect them during digitizing or editing. Shortcut keys <K> and <Shift>+<K>.
Sequence > ...	Access same object sequencing commands as available on Color Film toolbar. See Color Film toolbar for details.
Align > ... Space Evenly > ...	Same functions as the Arrange toolbox. See Arrange toolbox for details.

Artwork menu

Insert Artwork	Same as File > Insert Artwork.
Adjust Bitmap	Adjust image effects, brightness and contrast in preparation for auto-digitizing.
Touch Up	Open a third-party paint program to edit selected bitmap artwork.
Crop > ...	Crop bitmap artwork for use with auto-digitizing.
Bitmap Artwork Preparation	Reduce number of colors, remove image 'noise', and sharpen outlines in imported artwork.

Settings menu

Object Properties	Same functions as the General toolbar. See General toolbar for details.
Effects	
Options	Adjust settings for display window.
Manage Fabrics	Manage custom fabrics for special needs.
Calibrate Screen	Calibrate screen for accurate display.

Scanner Setup	Set scanner options.
Create Pattern	Save your own patterns for future use in pattern fills or runs, or even as pattern stamps.
Create Border	Save your own borders for future use with monogram designs.

Window menu

Tile Horizontal / Vertical	Split open design tabs in a horizontally or vertically 'tiled' (non-overlapping) fashion.
Remove Tiling	Remove tiled tab windows and return to a single workspace.
Dockers > ...	Show/hide dockers to optimize working area. See also General toolbar .
Toolbars > ...	Show/hide toolbars to optimize working area.
(Title of Open Window)	Choose from a list of open windows titles in the order in which they are stacked.

Embroidery Canvas toolbars

The **Embroidery Canvas** workspace contains the toolbars described below. Not all tools are relevant to all levels of product.

Help menu

Help Topics	List onscreen help topics.
Reference Manual	Onscreen documentation in Adobe Acrobat PDF format. Note: depending on your product level, documentation components may vary.
Release Notes	
Home Screen	Return to the Home screen to get started with a new design, or access tutorials and other product information
Check for Updates	As long as you maintain Internet access, software updates are automatically checked. Use this to prompt a manual check.
About	Show BERNINA V9 version information.
Show Design Warning	Display a warning when opening a design that should not be scaled.
Other	Links are provided to product information, tutorials, and rich sources for embroidery designs.

Canvas toolbar

The various operating modes in BERNINA V9 are accessed via the **Canvas** toolbar.



Home

Return to the Home screen to get started with a new design, or access tutorials and other product information.



Artwork
Canvas

Import, edit or create vector artwork as a backdrop for embroidery digitizing, manual or automatic.



Embroidery
Canvas

Digitize and edit embroidery designs. Display embroidery as well as artwork. View designs realistically in 3D simulation.



Embroidery
Library

Open the Embroidery Library window.



Show
Embroidery

Show/hide any embroidery components. Only available in Artwork Canvas.



Convert

Convert selected embroidery objects to artwork. Only available in Embroidery Canvas.



Convert

Convert selected graphics to fill or outline stitches. Only available in Artwork Canvas.



Note For a full description of the CorelDRAW® SE tools, refer to the onscreen help available from the **Artwork Canvas Help** menu.

General toolbar

This toolbar includes tools for opening and outputting designs, accessing design

properties, and opening and closing docker windows.



New Blank
Design

Create a blank design. Shortcut <Ctrl>+<N>.



Open Design

Open an existing design. Shortcut <Ctrl>+<O>.



Open Recent
Designs

Open a design from the most recently used.



Save Design

Save current design. Shortcut <Ctrl>+<S>.



Print

Print active design using current settings.



Print Preview

Preview design worksheet for the current design.



Write to Card
/ Machine

Write (save) design to BERNINA design card or BERNINA embroidery machine.



Send to
BERNINA
WiFi Device

Send the current design to a named BERNINA WiFi Device.



Cut

Cut selection and place on Clipboard. Shortcut <Ctrl>+<X>.



Copy

Copy selection and place on Clipboard. Shortcut <Ctrl>+<C>.



Paste

Paste contents of Clipboard into workspace. Shortcut <Ctrl>+<V>.



Undo

Cancel last command or series of commands. Shortcut <Ctrl>+<Z>.

	Redo	Re-apply last command or series of commands. Shortcut <Ctrl>+<Y>.
	Insert Embroidery	Same as File > Insert Embroidery.
	Insert Artwork	Same as File > Insert Artwork.
	Object Properties	Access properties of selected embroidery objects or preset with nothing selected.
	Effects	Apply stitch effects to selected embroidery objects or preset with nothing selected.
	Options	Access workspace options such as grid, hoop, and scroll settings.
		Change measurement units within software without changing operating system settings.
	Overview Window	Show/hide Overview Window docker. Use to zoom and pan thumbnail of current design.
	Color Film	Show/hide Color Film docker. Use it to resequence objects and color blocks in the design.
	Carving Stamp	Show/hide Carving Stamp docker. Use preset or custom patterns to create a pattern of needle penetrations.

	Morphing Effect	Show/hide Morphing Effect docker. Create transformed object outlines and stitches.
	CutWork Border	Show/hide CutWork Border docker. Use in conjunction with CutWork and StumpWork toolboxes.

View toolbar

This toolbar brings together tools for design visualization.

	Show Artistic View	Show/hide simulation of stitched embroidery. Shortcut <T>.
	Dim Artwork	Dim backdrops to show stitches more clearly when digitizing.
	Show Stitches	Show/hide embroidery stitching. Shortcut <S>.
	Show Outlines	Show/hide object outlines. Turn off stitches to view outlines only. Shortcut <L>.
	Show Needle Points	Show/hide the needle points in embroidery stitching. Shortcut <.> (period).
	Show Connectors	Show/hide connecting stitches between embroidery objects. Shortcut <Shift>+<C>.
	Show Bitmap Artwork	Show/hide any bitmap artwork included in the design. Shortcut <D>.
	Show Vector Artwork	Show/hide any vector artwork included in the design such as CorelDRAW® clipart. Shortcut <Shift>+<D>.

	Show StumpWork	Show/hide any stumpwork sub-designs included in the design.
	Show Appliqué Fabric	Show/hide fabric / color of any appliqué objects in the design.
	Show Hoop	Show/hide hoop. Right-click for settings.
	Show Hoop Template	Show/hide hoop template.
	Show Grid	Show/hide workspace grid. Right-click for settings.
	Show Rulers & Guides	Show/hide workspace rulers and guides. Right-click for settings.
	Show Work Area	Left-click to toggle work area display. Right-click to open Define Work Area dialog.
	Show Quilt Block	Left-click to toggle quilt block display. Right-click to open Define Quilt Block dialog.
	Stitch Player	Simulate stitchout to check stitching sequence. Shortcut <Shift>+<R>.

Color Palette toolbar

This toolbar displays a palette of thread colors together with tools for selecting, applying, and cycling through colors.

	Color Picker	Pick up a color from an existing object and make it current.
	Apply Current Color	Apply the currently selected palette color to embroidery objects.

	Current Color	Shows the currently selected palette color.
	Add Palette Color	Add a color slot to the end of the palette.
	Remove Palette Color	Removed an unused color slot from the end of the palette.
	Hide Unused Colors	Show/hide all unused colors in the palette.
	Discard Unused Colors	Remove all unused colors from the palette.
	Cycle Used Colors	Cycle through combinations of used colors. Right- or left-click.
	Color Wheel	Access Color Wheel to test combinations of related colors.
	Threads	Search for and match threads from different charts, and assign for use.

Stitches toolbar

This toolbar provides a range of basic outline and fill stitch types as well as those of a more artistic or decorative kind. It also includes stitch effects which can be additionally applied. Left-click icons to select stitch type. Right-click to access properties.

Outlines

	Single Outline	Create a single row of stitches along a digitized line. Use for outlines and details.
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**Triple Outline**

Create a thicker outline by repeating each stitch three times – use for heavier borders or details.

**Sculpture Run Outline**

Create a thick-thin outline alternating single and triple stitches for a hand-stitched look.

**Backstitch Outline**

Create traditional backstitch borders – old, adaptable stitch type used for delicate outlines.

**Stemstitch Outline**

Create traditional stemstitch borders or details such as stems and vines.

**Zigzag Outline**

Create narrow, open borders with a 'zigzag' effect.

**Satin Outline**

Create thicker borders or columns of even thickness.

**Raised Satin Outline**

Create raised satin borders – can be used with trapunto for quilting effects.

**Blanket Outline**

Create narrow, open borders with a 'comb' effect.

**Blackwork Outline**

Create ornamental craftstitch borders. Name derives from black silk thread traditionally used in this form of embroidery.

**Candlewicking Outline**

Create ornamental craftstitch borders. Specify exact pattern size and spacing.

**Pattern Run Outline**

Create ornamental craftstitch borders. Choose from pattern library.

Fills**Step Fill**

Create stitch fills for larger, irregular shapes.

**Satin Fill**

Create stitch fills for narrow shapes.

**Raised Satin Fill**

Create raised surfaces – can be applied to lettering or used with trapunto for quilting effects.

**Fancy Fill**

Create artistic fills while keeping the appearance of solid stitching.

**Sculptured Fancy Fill**

Create 3D pattern effects with turning fills.

**Ripple Fill**

Create spiral stitching from the center of any filled object.

**Contour Fill**

Create stitching which follows object contours, creating a curved, light-and-shade effect.

**Blackwork Fill**

Create fill for blackwork designs. Name derives from black silk thread traditionally used in this form of embroidery.

**Candlewicking Fill**

Create candlewicking fills – traditional white-on-white embroidery usually done with heavy cotton thread on white linen.

**Lacework Fill**

Create a lacey look with open trellis-like patterns.



Pattern Fill

Create decorative fill stitching. Choose from pattern library.



Cross Stitch Fill

Create open patterned fills with crosses generated to suit standard grid for entire design.



Stipple Run Fill

Create fills made up of run stitches which meander within a border.



Stipple Stemstitch Fill

Create heavier stipple run fills with stemstitch outlines.



Stipple Backstitch Fill

Create heavier stipple run fills with backstitch outlines.



Star Fill

Create radial turning stitching with available stitch types. Stitches are generated from outside to geometric center. Center can be shifted.



Wave Fill

Create contoured stitches along a digitized guideline – stitching maintains uniform density.



ElasticFancy Fill

Create fancy fill patterns that follow stitch angles and are scaled according to object width. Right-click for settings.



3D Globe Effect

Create contoured stitches to produce a 3D appearance. Choose from pattern library.

Effects toolbar

This toolbar contains tools used to create many artistic effects to create textured and curved stitching, and warping or 'morphing' stitching effects.



Underlay

Strengthen and stabilize objects with underlay stitching.



Textured Edge

Create rough edges and shading effects, or imitate fluffy textures.



Automatic Corners

Toggle mitre or cap corners in line objects with sharp turns. Can be turned on/off object-by-object.



Couching

Add couching cord for use with the BERNINA Free Motion Couching Foot #43.

Transform toolbar

This toolbar contains all the tools you need to select, reshape, scale, mirror designs, and rotate hoops in **Embroidery Canvas**.



Select Object

Click to select objects or drag a selection marquee to enclose.



Polygon Select

Select irregular areas or shapes – click reference points to demarcate.



Reshape Object

Reshape selected embroidery and lettering objects.



Size +10%

Increase/reduce size of selected object/s in 10% increments. Stitches are automatically recalculated.



Size -10%

Increase/reduce size of selected object/s in 10% increments. Stitches are automatically recalculated.

**Mirror X**

Flip selected object/s in horizontal or vertical planes.

**Mirror Y****Rotate Left**
45°

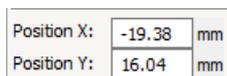
Rotate selected objects in 45° increments to right or left.

**Rotate Right**
45°

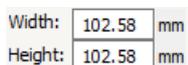
Rotate selected objects by specified amount – positive or negative – in degrees.



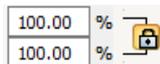
Skew selected objects by specified amount – positive or negative – in degrees.



Enter specific settings for precise positioning of selected objects. Use in conjunction with Rulers & Guides.



Scale objects or whole designs by a precise width or height, or a percentage factor.



Use Aspect Ratio button to maintain proportions.

**Rotate Hoop**
Left 15°

Rotate the hoop and/or hoop template, or currently selected hoops in multi-hooping mode, in 15° increments to left or right.

**Rotate Hoop**
Right 15°

Rotate the hoop and/or hoop template, or the currently selected hoops in multi-hooping mode, by specified amount – positive or negative – in degrees.



Travel toolbar

This toolbar contains tools for checking a design's stitching sequence by 'traveling' through it by stitches, colors or objects.

**Select While**
Traveling

Toggle on to select stitches, objects, or colors while traveling through a design.

**Travel**
Backward

Travel backwards through a design.

**Travel**
Forward

Travel forwards through a design.

**Jump by**
Object

Travel to the previous or next object in the design. Use in conjunction with Forward/Back buttons.

**Jump by**
Color

Travel to the previous or next color block in the design. Use in conjunction with Forward/Back buttons.

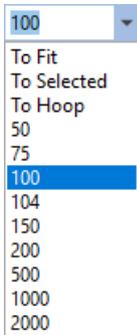
**Jump to**
Start/End

Travel to the start or end of the design. Use in conjunction with Forward/Back buttons.

Zoom toolbar

This toolbar includes tools for zooming and panning designs. Other zoom presets are available via the **View** menu.

**Zoom**
1:1 Show design at actual size. Shortcut <1>.**Zoom to**
Fit Display whole design in workspace. Shortcut <0>.**Zoom**
Left-click to zoom in, right-click to zoom out, or drag a 'zoom box'. Shortcut .



Zoom Scale: Select a preset zoom scale from the droplist or key in your own and press Enter. Predefined scales may appear:

- To Fit
- To Selected
- To Article
- To Hoop



Pan

Pan across the workspace by dragging. Useful at high zoom factors. Shortcut <P>.

Color Film toolbar

This toolbar is available in the **Color Film** docker in **Embroidery Canvas** mode.



Show
Objects

View individual objects in order of stitching sequence. Drag and drop object icons to resequence.



Back /
Forward 1
Object

Move selection back / forward one object in the stitching sequence.



Back /
Forward 1
Color

Move selection back / forward one color in the stitching sequence.



Move to Start
/ End

Move selection to start / end of stitching sequence.



Sequence by
Selects

Resequence objects in order of selection.



Sequence by
Color

Resequence all blocks of like color. (To maintain separate color blocks, use Color Film.)

Embroidery Canvas toolboxes

The **Embroidery Canvas** workspace contains a dedicated **Toolboxes** area permanently docked to the left of the workspace. This contains a series of toolboxes organized as follows...

Edit toolbox

This toolbox contains all tools you need to edit embroidery designs in **Embroidery Canvas** mode.

	Add Holes	Cut holes in filled objects.
	Remove Holes	Remove holes from selected objects.
	Add Stitch Angles	Add stitch angles to closed objects with or without holes. Right-click for settings.
	Remove Stitch Angles	Remove stitch angles from closed objects with turning stitches.
	Double Run	Reinforce outlines, stitching in reverse direction to the original. Shortcut <Ctrl>+.
	Blackwork Run	Automatically sequence selected outlines for efficient stitchout.
	Branching	Automatically sequence and group selected embroidery objects. Shortcut <I>.
	Apply Closest Join	Join selected objects at the closest point. Re-apply closest join after editing. Shortcut <J>.
	Color Blending	Create blended stitching in selected objects.
	Fill Holes	Fill holes in selected objects with current stitch type.
	Outlines & Offsets	Create outlines and offsets of any type for any embroidery object, open or closed.

	Quilting Background	Create 'echo' quilting blocks.
	Create Trapunto Outlines	Use in conjunction with raised satin to create stitching for a raised 'quilted' look.
	Break Apart	Split monograms, appliqué, lettering, and blackwork runs into component objects for editing.
	Remove Overlaps	Remove unwanted stitching from underlying objects or lettering.
	Weld	Merge selected overlapping objects into a single 'flattened' object.
	Knife	Cut objects along a digitized line, preserving stitch settings and colors in resulting objects.
	Stitch Edit	Place the stitch cursor at a selected insertion point. Shortcut <E>.

Auto-Digitize toolbox

This toolbox contains all tools required for auto-digitizing artwork in **Embroidery Canvas** mode.

	Insert Artwork	Same as File > Insert Artwork.
	Crop Background	Open Crop toolbar to crop bitmap artwork for use with auto-digitizing.
	Adjust Bitmap	Adjust image effects, brightness and contrast in preparation for auto-digitizing.

	Touch Up Bitmap	Edit images in a third-party graphics application.
	Color PhotoStitch	Automatically turn photographs and other bitmap artwork into multi-colored embroidery.
	PhotoSnap	Automatically create rows of single-color satin stitching from photographs and other bitmap artwork.
	Prepare Bitmap	Prepare bitmap artwork for automatic digitizing.
	Auto-Digitize	Automatically digitize prepared bitmap artwork.
	Instant Auto-Digitize	Automatically digitize bitmap artwork instantly.
	Magic Wand	Automatically digitize filled areas in bitmap artwork.
	Magic Wand Block Digitizing	Digitize narrow column artwork shapes with satin stitch.
	Magic Wand Fill without Holes	Digitize large artwork shapes with Step Fill, ignoring any holes within.
	Magic Wand Centerline	Digitize centerlines in artwork with outline stitches.
	Color Matching Method	Assign image colors to the color palette, or automatically match them to actual threads.

Digitize toolbox

This toolbox contains all tools required for manually digitizing embroidery designs in

Embroidery Canvas mode. Right-click to access properties.

	Open Object	Digitize open embroidery objects.
	Closed Object	Digitize closed embroidery objects.
	Open Freehand	Draw embroidery outlines onscreen in the current stitch type.
	Closed Freehand	Draw closed embroidery objects onscreen in the current stitch type – outline or fill.
	Block	Digitize columns with turning stitches.
	Ellipse	Digitize ellipse or circle embroidery objects.
	Rectangle	Digitize rectangle or square embroidery objects. Press <Ctrl> to constrain.
	PunchWork	Create felting objects and designs for use with the BERNINA Rotary Hook Punch tool.
	Buttonhole	Digitize a single buttonhole with all necessary stitching.
	Buttonholes	Digitize a line of buttonholes with all necessary stitching.
	Pattern Stamp	Place individual patterns in the design. Choose from pattern library.



**Basting
Stitch Marker** Insert a reference marker at any angle and position.



**Insert
Graphic
Marker** Insert a graphic marker representing adhesive stickers attached to the fabric to indicate location and orientation.

Freehand settings

When **Freehand** tools are activated, the **Freehand Settings** toolbar appears.

Smoothing:

 Use the Smoothing control to specify, as a percentage, how closely the smoothed outline follows the original.



Use Show Guide to toggle freehand digitizing guide cursor – provides more control over ‘freehand’ drawing than the default pointer.

1.00 mm

Use the Guide Inner Circle Radius control to define size of center circle of freehand digitizing guide.

1

Use the Number of Guide Circles control to set number of circles in the freehand cursor – if the inner circle radius is 2mm, each additional guide circle is offset by 2mm.

Lettering/Monogramming toolbox

The **Lettering/Monogramming** toolbox contains all the tools needed to create top-quality lettering quickly and simply. BERNINA V9 provides a large range of scalable

closest-join font styles and multi-color and fancy stitching fonts to choose from.



Lettering Create embroidery lettering directly on screen.



Monogramming Create personalized monograms using a selection of predefined styles, border shapes and ornaments.



Keyboard Design Collection Toggle Keyboard Design Collection docker display. Use it to create, edit and manage keyboard design collections.

Appliqué toolbox

This toolbox provides tools for creating closed-object appliqué, partial cover appliqué, as well as open-object appliqué.



Digitize Appliqué Digitize closed-object appliqué with all necessary stitching.



Digitize Appliqué with Holes Digitize closed-object appliqué with all necessary stitching with multiple boundaries.



Convert to Appliqué Use to convert selected closed objects into individual appliqué pieces.



Advanced Appliqué Generate open-object appliqué from one or more source objects.



Remove Overlaps Remove unwanted stitching from underlying objects or lettering.



Remove Appliqué Overlaps Remove unwanted stitching from underlying appliqué objects.



Combine
Appliqué

Break apart appliqué into component objects and recombine and resequence for efficient stitchout.



Break Apart

Split monograms, appliqué, lettering, and blackwork runs into component objects for editing.



Export
Cutting File

Export object shapes to SVG or EXP file for cutting machine or BERNINA embroidery machine with the CutWork tool.

CutWork/StumpWork toolbox

The **CutWork/StumpWork** toolbox contains all tools necessary to digitize cutwork holes and pieces from scratch.



Add Cutwork
Border

Generate a cutwork border from selected objects.



Digitize Open
Cut

Digitize a simple open cut in hooped fabric.



Digitize
Closed Cut

Digitize a simple closed cut in hooped fabric.



Digitize Piece

Digitize a cutout piece in hooped fabric, together with supporting embroidery.



Digitize Hole

Digitize a hole in hooped fabric, together with supporting embroidery.



Digitize
Wireline

Create a wireline using a digitized outline and current settings.



Convert to
CutWork
Border

Convert selected objects a cutwork border.



Cut Closed
Border

Cut a closed cutwork border and leave an opening for wire ends.



Cut
Buttonhole Slit

Generate a cutting line for selected buttonholes.



Combine
Selected

Combine cutting lines of selected cutwork objects for optimized cutting.



Un-combine

Reverse 'Combine Selected'.

The toolbox also contains all tools necessary to create stumpwork from cutwork objects.



Create
Stumpwork
Sub-design

Create stumpwork sub-design from selected cutwork piece borders and included embroidery objects.



Open
Stumpwork
Sub-design

View and edit selected stumpwork sub-design.



Export
Stumpwork
Sub-design As

Save stumpwork sub-design as a separate design file.

Mirror-Merge toolbox

This toolbox contains all tools required to duplicate and transform selected embroidery objects in vertical and horizontal planes.



Mirror-Merge
Horizontal

Duplicate & mirror horizontally and merge overlapping objects (optional).



Mirror-Merge
Vertical

Duplicate & mirror vertically and merge overlapping objects (optional).

 Mirror-Merge Horizontal & Vertical
Duplicate & mirror selected objects around a center point.

 Array
Duplicate designs, such as badges, automatically re-sequencing color blocks for efficient multiple design stitchouts.

 Reflect
Duplicate and mirror objects or designs. Use to create decorative borders.

 Rows
Define number of rows and columns required for Array or Reflect.

 Columns
Duplicate selected objects around a central axis. Specify duplicates in Mirror-Merge Settings toolbar.

 Wreath
Enter number of wreath points. Enter even number to activate Mirror Alternate.

Layout toolbox

The **Layout** toolbox allows you to arrange multiple embroidery designs or design

elements on a fabric, garment, or item such as tablecloth.

 Layout to Rectangular Work Area Corners
Automatically create copies of any selected object/s in each corner of the layout work area.

 Layout Around Circular Work Area
Automatically create copies of selected object/s (specified by number of repeats) around the center of the work area.

 Auto Center to Work Area
Automatically move selected object/s to center of the work area.

 Define Work Area
Open the Define Work Area dialog to define either a rectangular or round work area of a specified size.

 Layout to Rectangular Quilt Block Corners
Automatically create copies of any selected object/s in each corner of the layout quilt block.

 Auto Center to Quilt Block
Automatically move selected object/s to center of the quilt block.

 Auto Fit to Quilt Block
Automatically fit selected object/s to the quilt block.

 Define Quilt Block
Open the Define Quilt Block dialog to define quilt block of a specified size and a specified center.

Arrange toolbox

This toolbox contains all tools you need to precisely align and distribute objects in **Embroidery Canvas** mode.

	Group	Combine multiple objects into one selectable object grouping.
	Ungroup	Split object grouping into component objects.
	Lock	Lock selected object/s into position for protection.
	Unlock All	Unlock all locked object/s to remove protection.
	Align Left	Align left edges of selected objects.
	Align Centers Vertically	Vertically align centers of selected objects.
	Align Right	Align right edges of selected objects.
	Align Top	Align top edges of selected objects.
	Align Centers Horizontally	Horizontally align centers of selected objects.
	Align Bottom	Align bottom edges of selected objects.
	Align Centers	Align centers of selected objects.
	Space Evenly Across	Evenly distribute three or more selected objects horizontally.
	Space Evenly Down	Evenly distribute three or more selected objects vertically.

Multi-Hooping toolbox

The **Multi-Hooping** toolbox allows you to specify multiple hoopings manually or automatically for large designs.

	Select a Hoop	Show hoop properties.
	Automatically Add Hoops	Add hoops automatically to cover the entire design.
	Add Splitting Line	Digitize one or more guides in a multi-hoop layout to split objects between hoopings.
	Preview Hoopings	Calculate object distribution and registration marks for given hoop positions. Display thumbnails in docker. Click to view each hooping.
	Calculate Hoopings	Calculate hoopings resulting from current layout.
	Multi Hooping Options	Access workspace options for multi-hooping.
	Add Hoop	Add a new hooping to a multi-hooping layout.
	Delete Hoop	Remove selected hoop from hooping layout.
	Add Hoop Right	Place a new hooping to right of selected hoop. Allows a 10mm overlap between sewing fields.
	Add Hoop Left	Place a new hooping to left of selected hoop. Allows a 10mm overlap between sewing fields.



Add Hoop
Down

Place a new hooping to below the selected hoop. Allows a 10mm overlap between sewing fields.



Add Hoop Up

Place a new hooping above selected hoop. Allows a 10mm overlap between sewing fields.



Add 4 Hoops
Around

Generate 4/8 hoopings around a selected hoop's perimeter. Allow a 10mm overlap between sewing field.



Add 8 Hoops
Around

Applications toolbox

In addition to CorelDRAW®, BERNINA V9 includes a number of ancillary applications which can be launched from the **Applications** toolbox.



Cross Stitch

Launch BERNINA Cross Stitch from within BERNINA V9.



Quilter

Launch BERNINA Quilter from within BERNINA V9.

Embroidery Library tools

The built-in **Embroidery Library** provides an efficient way to view and manage embroidery designs. It recognizes all design file formats used by the software.

Standard (Manage Designs) toolbar

The **Standard (Manage Designs)** toolbar contains standard Windows functions for file opening and copy/paste.



New Blank Design Create a blank design. Shortcut <Ctrl>+<N>.



Open Design Open an existing design. Shortcut <Ctrl>+<O>.



Open Recent Designs Open a design from the most recently used.



Cut Cut selection and place on Clipboard. Shortcut <Ctrl>+<X>.



Copy

Copy selection and place on Clipboard. Shortcut <Ctrl>+<C>.



Paste

Paste contents of Clipboard into workspace. Shortcut <Ctrl>+<V>.

View (Manage Designs) toolbar

The **View (Manage Designs)** toolbar contains functions for quick search, sort, and location of designs on your company network.



Layout

Toggle the navigation pane, details pane, and/or preview pane display.



Keyboard Design Collection

Toggle Keyboard Design Collection docker display. Use to create, edit and manage keyboard design collections.



Change view

Change current view of design lists.

	Group by	Group the current list of designs by selected property and sort order.
	Sort by	Sort the current list of designs by selected property and sort order.
	Showing	Filter the current list of designs by file type.
	Search	Filter designs based on specified search criteria – e.g. stitch range.
	Ascending order	Sort designs in ascending or
	Descending order	descending order.

Manage Designs toolbox

The **Manage Designs** toolbox makes it possible to search, sort and browse all embroidery designs on your system.

	New from Selected	Create new design(s) based on design(s) selected in Embroidery Library.
	Open Selected	Open design(s) selected in Embroidery Library.
	Convert Selected Designs	Convert design selected in Embroidery Library to different machine file types.
	Stitch Selected Design	Stitch out design selected in Embroidery Library.
	Send Selected Design To BERNINA WiFi Device	Send selected design to a named BERNINA WiFi Device.
	Print Selected	Print design selected in Embroidery Library.

	Print Selected to catalog	Print selected designs to a catalog.
	Export Designs List	Export a text or CSV file containing a list of the visible design files and their properties.
	Find Embroidery Designs	Search computer or network for folders containing embroidery files to add to Embroidery Library.
	Add Folder to Library	Add folder to Embroidery Library to enable faster searching and filtering.
	Remove Folder from Library	Remove folder from Embroidery Library. This only removes the link from within the library.

Keyboard shortcuts

You select commands in BERNINA V9 as other MS Windows® applications – from menus or toolbars. Keyboard shortcuts are available for frequently used commands.

Key combinations

To use a keyboard shortcut, or key combination, you press a modifier key together with a character key. For example, pressing the **Ctrl** (Control) key with the 'c' key copies whatever is currently selected – text, graphics, etc – to the Clipboard. This is also known as the **Ctrl+C** key combination, or keyboard shortcut.

Windows to Mac conversion

Key combinations are slightly different from Mac to PC. If you know and use keyboard shortcuts regularly in Windows, you will need to retrain your fingers slightly. For the most part, a Control + Key in Windows translates to a Command + Key in Mac OS. Most favorites should work by just making this switch. Here is a basic breakdown of keyboard equivalence:

Windows	Mac
Control (Ctrl)	Command (most of the time); Control
Alt	Option
Windows / Start	Command / Apple
Backspace	Backspace
Delete	Delete
Shift	Shift
Enter	Enter

Windows	Mac
Return	Return



Note Standard MS Windows® **Alt** key shortcuts apply. Use the **Alt** key with the letter underlined in the menu. To cancel an operation, press **Esc** twice.

General functions

To	Press
Cancel command	Esc
Exit the program	Alt + F4
Open existing design	Ctrl + O
Print design	Ctrl + P
Save design	Ctrl + S
Start new design	Ctrl + N

View designs

To	Press	Or
Center current stitch	C	F6
Measure	M	
Refresh screen	R	F4
Show needle points	. (period or full stop)	
Show previous view	V	F5
Show selected objects only	Shift + S	
Zoom to fit	0 (zero)	F2

To	Press	Or
Show/hide connectors	Shift + C	
Show/hide picture	D	
Show/hide vectors	Shift + D	
Pan	P	
Turn on/off Artistic View	T	
Zoom (box)	B then	F8
Zoom factor	F	F3
Zoom in 2x	Z	wheel
Zoom out 2x	Shift + Z	F10
Zoom to 1:1 scale (100%)	1	
Vertical scroll	Alt +	wheel
Horizontal scroll	Ctrl +	wheel

Select objects

To	Press
Activate Select Object tool	O
Add next object to selection	Ctrl + Tab
Add previous object to selection	Ctrl + Shift + Tab
Deselect all objects	Esc or X
Select a range of objects	Shift +
Select all objects	Ctrl + A
Select multiple objects	Ctrl +
Select next object	Tab
Select object underneath	2 +
Select previous object	Shift + Tab

Edit designs

To	Press
Delete the last input point	* ← Bksp
Finish digitizing an object	* Enter or Spacebar
Turn underlay on/off	U
Display the lettering dialog	A
Redo command	Ctrl + Y
Undo command	Ctrl + Z
Cut selection	Ctrl + X
Copy selection	Ctrl + C
Paste selection	Ctrl + V
Duplicate selection	Ctrl + D
Clone selection	+
Reinforce outline (Double Run)	Ctrl + B
Apply branching	I
Delete selection	Delete

* BERNINA DesignerPlus only

View stitching sequence

To travel	Press	
	Keyb'rd	Keypad*
1 segment backward	Ctrl + ←	
1 segment forward	Ctrl + →	
1 stitch backward	↑ ←	4
1 stitch forward	↑ →	6
10 stitches backward	↑ ↑	8
10 stitches forward	↑ ↓	2

* Num Lock OFF ↑ Select Object tool OFF

To travel	Press	
	Keyb'rd	Keypad*
100 stitches backward		-
100 stitches forward		+
Activate Stitch Player	Shift + R	
To next color	PageDown	9
To next object	Ctrl + T	
To next selected object	Tab	
To previous color	Page Up	3
To previous object	Shift + T	
To previous selected object	Shift + Tab	
To the end of a design	End	1
To the start of a design	Home	7
* Num Lock OFF † Select Object tool OFF		

Digitizing & lettering

To	Press
Delete the last input point	* ← Bksp
Finish digitizing an object	* Enter ↵ or Spacebar
Turn underlay on/off	U
Display the lettering dialog	A
* BERNINA DesignerPlus only	

Manipulate objects and stitches

To	Press or click
Nudge selected designs	↑ ↓ ← →
† Use Alt+Drag with BERNINA Quilter * BERNINA Quilter only	

To	Press or click
Move an object horizontally or vertically	⇄ + Ctrl Drag the object
Maintain an object's proportions while resizing	† Shift + ⇄ Drag corner handle
Reshape selected object	H
Change reshape node type	⇄ + Space Select reshape node and press spacebar
Group selected objects	Ctrl + G
Ungroup selected objects	Ctrl + U
Regroup ungrouped objects	* Ctrl + R
Lock selected objects	K
Unlock selected objects	Shift + K
Bring object to front	* Shift + Page Up
Bring object forward	* Page Up
Send object to back	* Shift + PageDown
Send object backward	* PageDown
Activate Stitch edit	E
† Use Alt+Drag with BERNINA Quilter * BERNINA Quilter only	

System shortcuts

Here is a list of commonly-used Windows keyboard shortcuts and their Mac equivalents.

Action	Windows	Mac
Backwards delete	Backspace	Delete
Capture entire screen to Clipboard	Print Screen	Command + Control + Shift + 3
Capture frontmost window	Alt + Print Screen	Command + Shift + 3

Action	Windows	Mac
Close current window	Control + W	Command + W
Copy a file/folder	Control + drag icon	Option + drag icon
Copy to Clipboard	Control + C	Command + C
Create an alias or shortcut	Right mouse click and select Create Shortcut	Command + L
Cut to Clipboard	Control + X	Command + X
Exit a dialog box without changes	Escape	Escape
Find/Search	Control + F	Command + F
Force quit a frozen application	Control + Alt + Delete	Command + Option + Escape
Forward delete	Delete	Delete (For Mac notebooks, press the Function (fn) and Delete key)
Get item info or properties	Alt + Enter	Command + I
Logout current user	Windows + L	Command + Shift + Q
Maximize window	Control + F10	None
Minimize windows	Windows + M	Command + M
New folder	Control + N	Command + Shift + N
Open file	Control + O	Command + O
Paste Clipboard	Control + V	Command + V

Action	Windows	Mac
Print	Control + P	Command + P
Quit / close a program	Alt + F4	Command + Q
Rename a file / folder	Select item + F2	Select item + Enter
Save file	Control + S	Command + S
Select all items	Control + A	Command + A
Select more than one item in a list (non contiguous)	Control + click on each item	Command + click on each item
Send items to trash / recycle bin	Delete	Command + Delete
Send / receive email	Control + K	Command + K
Shut down	Windows + U + U	Command + Option + Control + Eject
Switch to next window	Control + F6	Command + ~ (tilde)
Switch to previous window	Control + Shift + F6	Command + Shift + ~ (tilde)
Toggle through open applications	Alt + Tab	Command + Tab
Type special characters	Alt + key	Option + key
Undo	Control-Z	Command-

Mac environment on virtual machines

If you are running BERNINA V9 in a Mac environment on a virtual machine (VM), you may find that shortcuts don't work as expected.

Lion uses more shortcuts than Snow Leopard, especially for **LaunchPad** and **Mission**

Control. The latter has **Ctrl** arrow left and **Ctrl** arrow right assigned by default. With **Parallels** preferences / keyboard / Enable Mac OS X system shortcuts checked, the above combinations trigger Mission Control functions even from inside the VM. That's what the preference item is for. To avoid this, you can go two ways:

- ▶ Disable the checkbox in Parallels preferences. (This is the easy way, but you lose all system keys at once within the VM);
or
- ▶ Remove the assignment of those two shortcuts in Mac OS X system preferences / keyboard / keyboard shortcuts.

Just chose Mission Control on the left side, then you can see the two items on the right side. Uncheck them, and you are fine inside the Windows VM. There's no sacrifice unless you want to use the shortcuts for Mission Control.

Since Mission Control only makes real fun with gestures enabled, most people with gesture-capable machines won't need the shortcuts. You could even assign other shortcuts to Mission Control if you liked.

There may also be an issue with the **Shift** key in Parallels. Try the following: Click on 'Virtual Machine'. Configure and enable the option 'Optimize Modifier key for games'.