BERNINA EMBROIDERY SOFTWARE 9

Design your dreams
Create your ideas

made to create BERNINA

REFERENCE MANUAL

BERNINA Quilter

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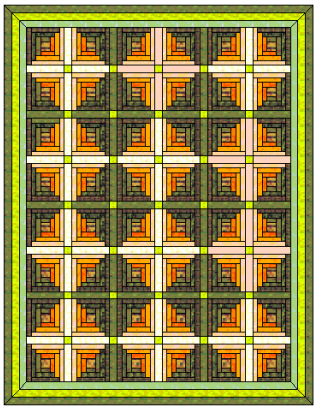
CHAPTER 1
INTRODUCTION TO BERNINA QUILTER



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.

Blocks on a quilt can be filled with patches of either patterned or plain fabric. BERNINA Quilter includes a large selection of patchwork blocks and fabrics, but you can also scan your own and store them in a quilting library.

When a quilt design is complete you can print it out, showing the blocks, how they are constructed, as well as yardage, sewing and cutting details.

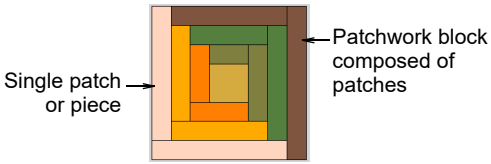
This section provides an overview of patchwork and quilting.

Patchwork quilt designs

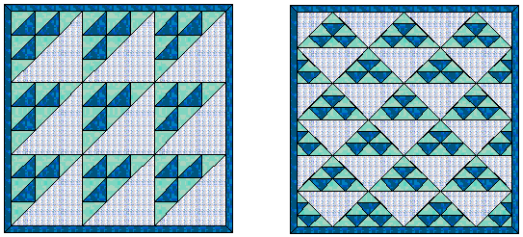
Patchwork and quilting are related and complementary techniques. BERNINA Quilter is essentially a design tool to help you put together quilts combining patchwork, embroidery, and appliqué. Use BERNINA Quilter to plan and lay out your patchwork blocks on screen, select your fabrics, and add embellishments such as appliqué and embroidery.

Patchwork

A 'patchwork block' is a collection of patches sewn together, usually forming a regular shape such as a rectangle. A 'patch' is a single piece of fabric sewn with others into a set arrangement to form a patchwork block. Sewing patches together into blocks is known as 'piecing'.



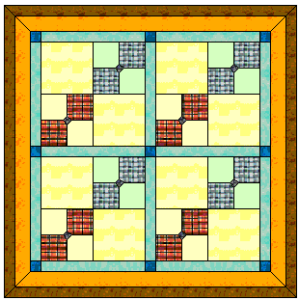
Blocks are then sewn together, either in a straight square format, on-point, or as diamond shapes.



Square On-point

Although some quilts have patchwork extending out to the edge, the majority have one or more borders. Some also have narrow strips of fabric, called 'sashing', to separate the blocks. Borders and sashes can alter the size and appearance of your quilt. They can be used to frame and soften a

busy design. Borders can also be used to enlarge a quilt so that it fits a standard bed. More than one border may be used on each quilt.



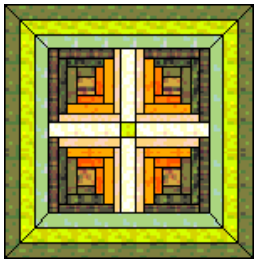
With borders and sash

Many quilts use a combination of fabrics similar in color and value for the background. Patchwork patterns are created by the contrast between light, medium and dark fabrics. Contrast in color depth is critical to some designs. It is good practice to select your background color before deciding on your other design colors.

Contrast between light, medium and dark fabrics

When fabrics are placed carefully, a three dimensional illusion can be created. Solid or plain colors are placed to create bold contrasts between

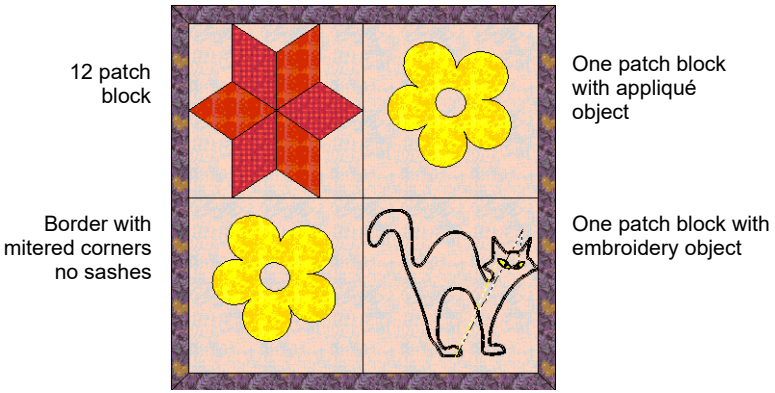
the patchwork blocks. When working with a single color, select a wide range of fabrics.



Creating 3D effects

Using a dominant color

With BERNINA Quilter you can also add appliqué and embroidered objects to the quilt.



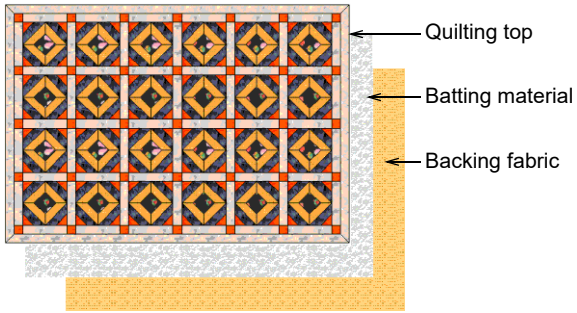
Square quilt with four blocks

Plan your quilt by working out the overall measurements, then calculate how many blocks, borders and sashes are to be used. Decide which patchwork blocks are to be used and how you will use color. Try out various arrangements and colors until you find one that you like.

Quilting

A quilt is like a sandwich formed of three layers:

- **Quilt top**: a collection of patches sewn together, usually forming a regular shape such as a rectangle and may include borders and sashes.
- **Batting**: a layer of padded material between the front and back fabric to add thickness and substance.
- **Backing**: a layer of fabric added to the back of a quilt to encase the batting.



Quilting involves sewing decorative designs on quilts. These designs use run stitches to divide the fabric into sections, giving a pattern of raised areas. Quilting can be done either by hand, or by free motion using a sewing machine.

Tip A quilt can be a combination of patchwork and quilting using patchwork blocks pieced together with quilting stitches.

Quilt sizing

BERNINA Quilter uses inches (in) for measuring designs. Use the table to convert between imperial and metric measurements. You will find it easier to use the decimal equivalent for imperial measurements when working out quantities with a calculator.

Metric (mm)	Imperial (inch)	Decimal (inch)
3	1/8	0.125

Metric (mm)	Imperial (inch)	Decimal (inch)
6	1/4	0.25
9	3/8	0.375
12	1/2	0.5
16	5/8	0.625
19	3/4	0.75
22	7/8	0.875
25	1	1.0
50	2	2.0
75	3	3.0
100	4	4.0
130	5	5.0
150	6	6.0
225	9	9.0
250	10	10.0
300	12	12.0
450	18	18.0
500	20	20.0
900	36 (1 yard)	36.0
1000 (1 meter)	40	40.0

Use the table below as a rough guide to the most common quilt sizes. It will vary according to the blocks you use.

Quilt	Imperial (inches)	Metric (cm)
Baby	36-45 x 45-54	90-115 x 115-137
Cot	42-48 x 54-60	107-122 x 137-152
Single	56-64 x 84-100	142-162 x 213-254
Double	70-80 x 84-100	178-203 x 213-254
Queen	76-84 x 90-104	193-213 x 228-264

Quilt	Imperial (inches)	Metric (cm)
King	92-100 x 90-104	234-254 x 228-264
Jumbo	120-124 x 120-124	304-315 x 304-315

Launching BERNINA Quilter

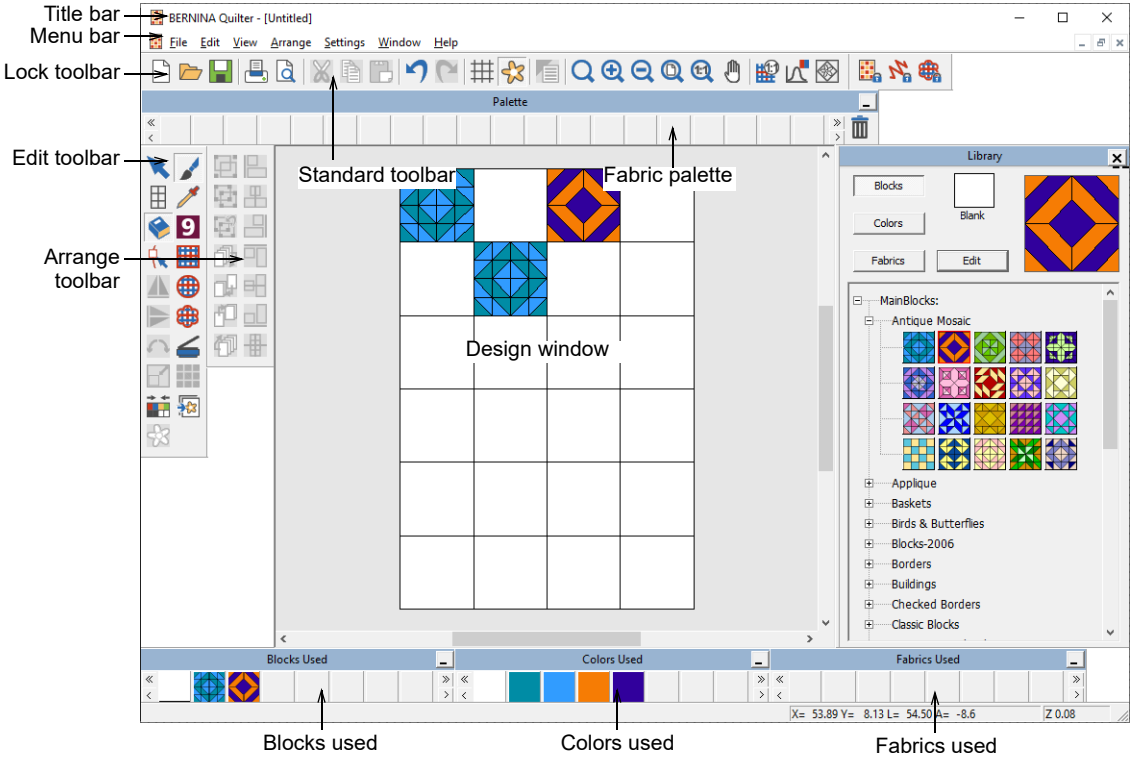
Use Applications > Quilter to launch BERNINA Quilter from within BERNINA Embroidery Software.

Launch BERNINA Quilter from within BERNINA Embroidery Software.

To launch BERNINA Quilter

- Run BERNINA Embroidery Software.
- Go to the **Applications** toolbox and select **Quilter**.

- Alternatively, you can also launch BERNINA Quilter by pressing **Ctrl+Q**. BERNINA Quilter opens in its own design window.



Quilting basics

Quilting design involves a different technique from ordinary embroidery design. For this reason, the BERNINA Quilter application has its own design window which you open from within BERNINA Embroidery Software.

Change grid settings

Click Standard > Show Grid to show or hide the grid. Right-click to open the Grid dialog.

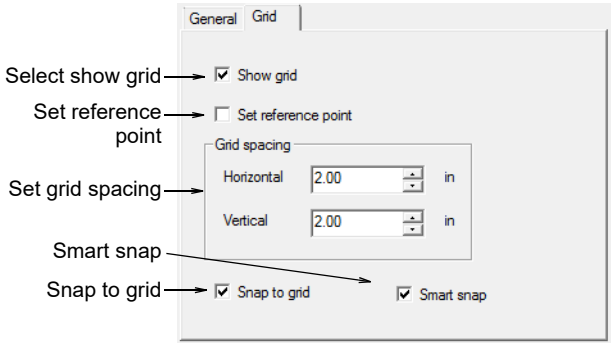
BERNINA Quilter lets you:

- Show or hide the grid
- Set the grid spacing
- Snap objects to the grid or other outlines.

Note BERNINA Quilter uses inches (in) for measuring designs, unlike the BERNINA Embroidery Software which can toggle between millimeters and inches.

To change grid settings

1 Right-click the **Show Grid** icon. The **Options > Grid** tab opens.



2 Select the **Show Grid** checkbox to display the grid.

3 Select the **Set Reference Point** checkbox to align a significant point of the design with a grid line or grid point.

For example, you can set the grid reference point to the design center. This is easier and faster than moving the whole design.

4 Enter **Grid Spacing** values for horizontal and vertical grid lines.

5 Select the **Snap to Grid** checkbox. Objects only snap to the grid if you are close to the grid line.

Tip To temporarily disable **Snap to Grid** as you digitize, hold down **Alt**.

6 Select **Smart Snap** (with **Snap to Grid** off) to make each digitizing or control point snap to existing outlines.

7 Click **OK**.

If you selected **Set Reference Point,** mark the reference point on your design. The grid aligns so that horizontal and vertical grid lines intersect at this point.

Tip To hide the block lines on the quilt, press **Ctrl+L**.

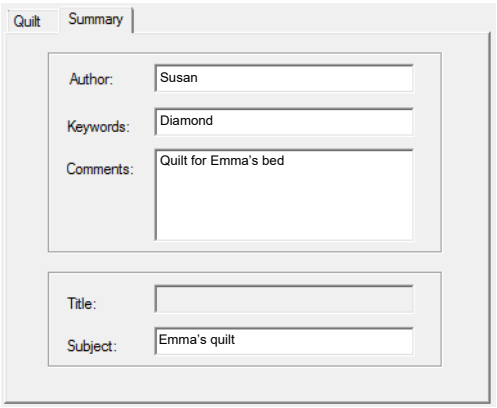
View quilt design information

The **Quilt Properties** dialog provides quilt information such as the number of blocks, appliqué, and embroidery details. Use the **Summary** tab to add your name as well as stitching and general information. The **Author** name is included on printouts.

To view quilt design information

1 Select **File > Quilt Properties**. The **Quilt Properties > Quilt** tab opens.

2 Enter your name and any other information you want to save with the quilt design.



3 Click **OK**.

Save BERNINA Quilter designs

Use Standard > Save to save BERNINA Quilter files.

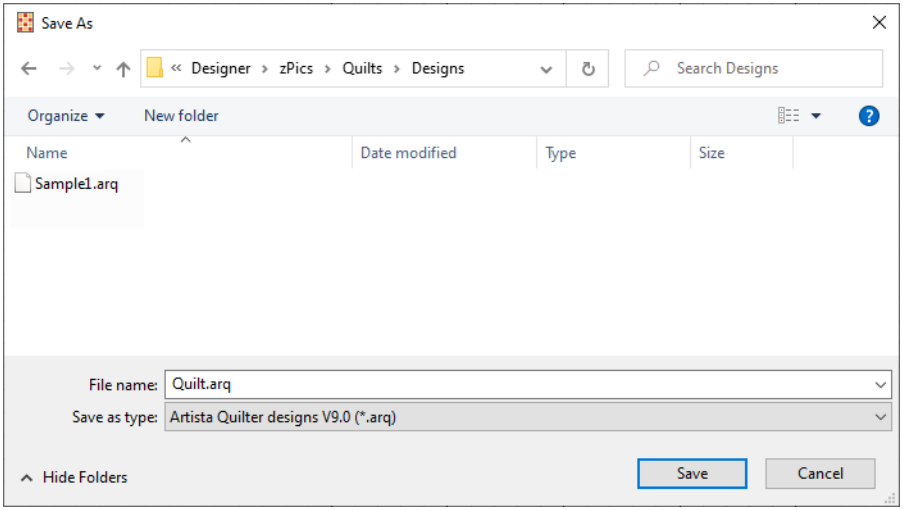
Save your design early and often. BERNINA Quilter designs are saved in ARQ format which can only be read by BERNINA Quilter.

To save BERNINA Quilter designs

1 Select **File > Save**.

If this is the first time you have saved the design, the **Save As** dialog opens. The file is saved as an ARQ file.

2 Select the BERNINA Quilter (ARQ) file type from the **Files of Types** list.



Note You can only save in ARQ format.

3 Type a new name for the design and click **Save**.

Setting up quilt layout

Use Edit > Quilt Layout to set up or change the quilt layout.

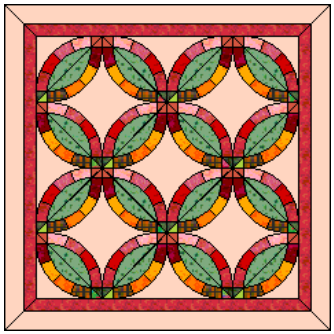
When you create a new quilt design, you set up the format of the blocks, add a sash between them, and add one or more borders to the edge of the quilt. You need to set up the layout before you can add fabrics, colors, appliqué or embroidery. Layout is based on a block format which can be changed by:

- Rotating the blocks on their points or in a diamond layout
- Changing the number of blocks in each row and column, or
- Changing the size of the blocks.

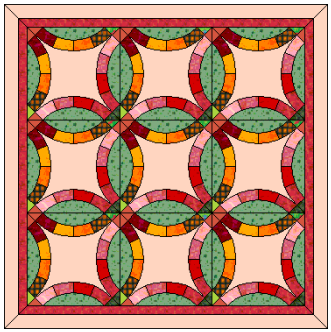
Note Set up the layout of the quilt before adding fabrics, colors, appliqué or embroidery.

Change the block layout

Blocks can be either horizontal, making a square pattern, 'on-point', or in a diamond pattern.



On-point

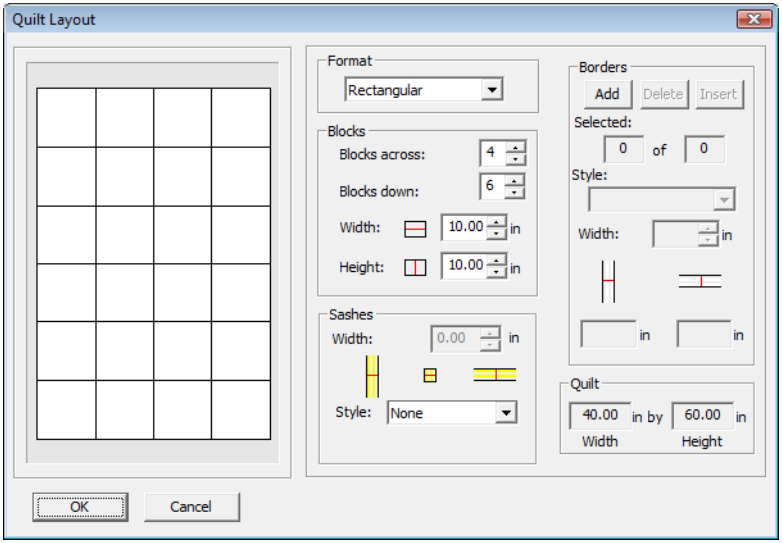


Square

To change the block layout

1 Open a quilt design.

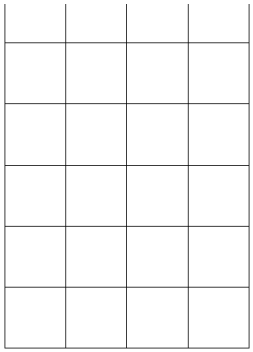
2 Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.



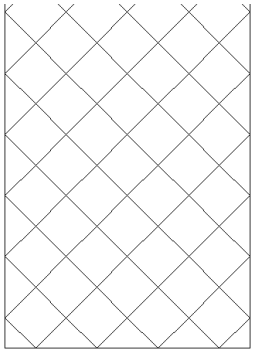
3 Select a format:

- Rectangular
- Diamond
- On Point

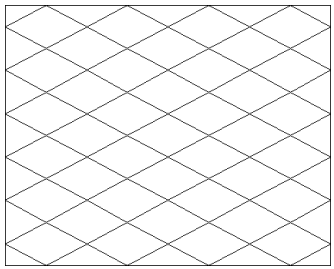
4 Click **OK**.



Rectangular blocks



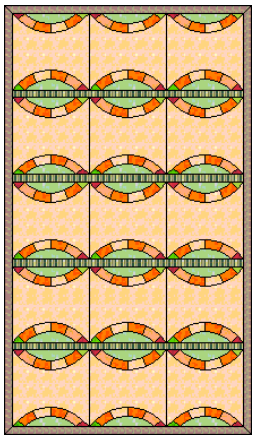
On-point blocks

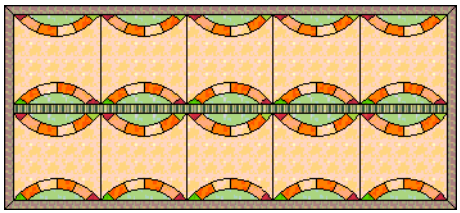


Diamond blocks

Change number of blocks

You can alter the look of the quilt by changing the number of blocks in each row and column.



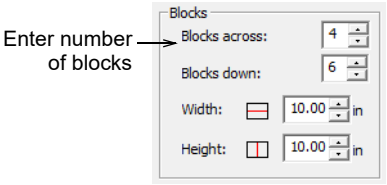


Same size block but different numbers

To change the number of blocks

1 Open a quilt design.

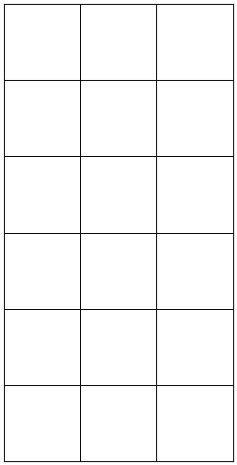
2 Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.



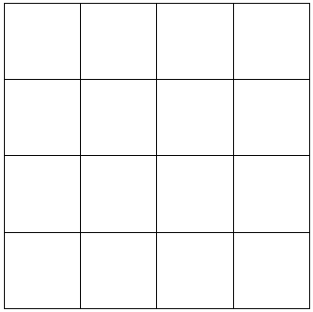
3 Enter **Blocks** options:

- Blocks across

- Blocks down



Blocks across: 4
Blocks down: 6



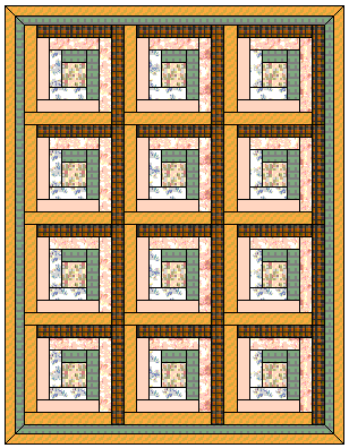
Blocks across: 4
Blocks down: 4

4 Click **OK**.

Change block size

You can alter the look of the quilt by changing the size of the blocks.

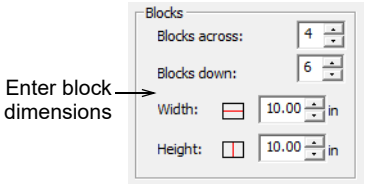
Same number of blocks
but different sizes



To change block size

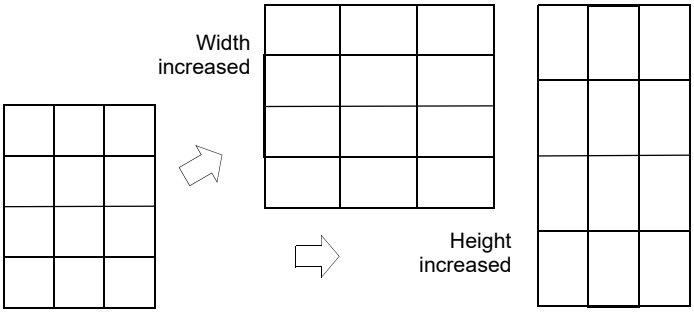
1 Open a quilt design.

2 Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.



3 Enter **Block** options:

- Block width
- Block height



4 Click **OK**.

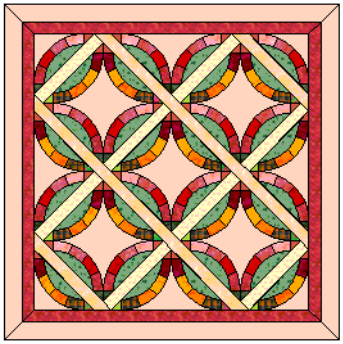
Adding sashes between blocks

Narrow pieces of fabric called sashes can be inserted between the quilt blocks to separate them. Sometimes small sash squares are added at the junctions. You can also add sash borders depending on the sash style selection.

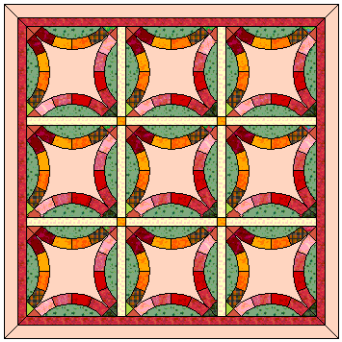
Add sashes

A sash between the blocks can be added and adjusted by:

- Changing the width of the sash
- Changing the style of the sash
- Adding a sash border.



On-point square sashes



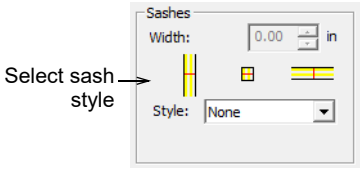
Rectangular square sashes

When sashes are added, the quilt size increases to accommodate the sash dimensions. The size of the blocks stays the same.

To add a sash between blocks

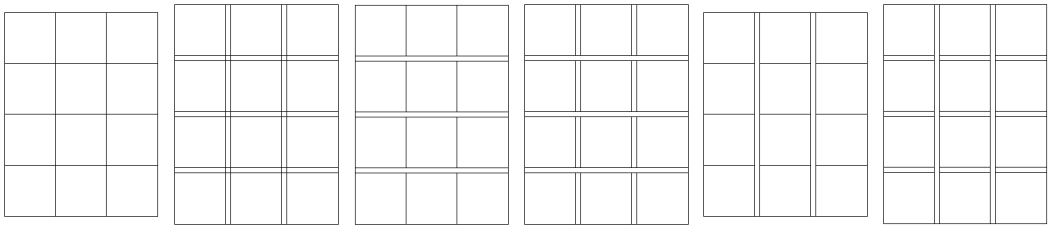
1 Open a quilt design.

2 Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.

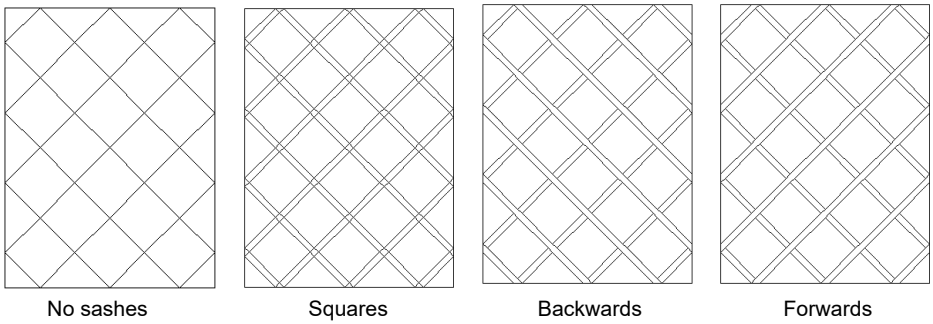


3 Select a **Sashes** style.

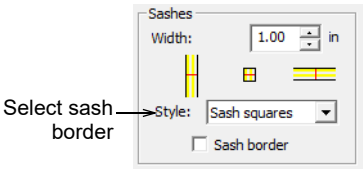
Note The sash styles are different for rectangular and on-point layout.



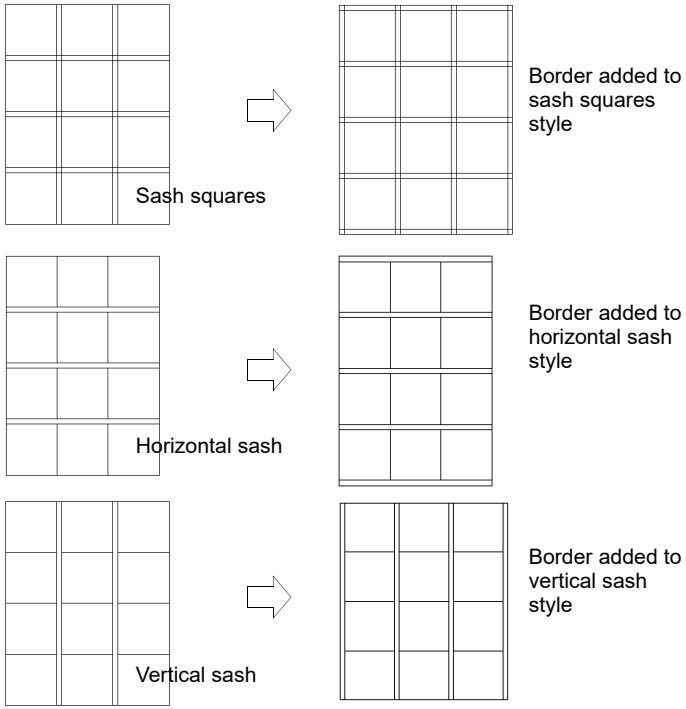
Note Selection of **None** hides the **Sash Border** checkbox.



4 Select the **Sash Border** checkbox to add a sash border around the quilt.



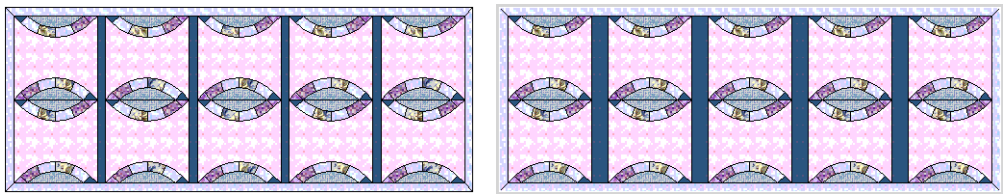
The border reflects the sash style you have chosen – e.g if you have chosen a horizontal sash, the border is added to the top and bottom of the quilt only.



5 Click **OK**.

Change sash width

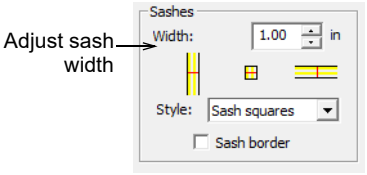
A sash between the blocks can be adjusted by changing the width of the sash.



To change the sash width

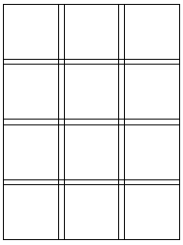
1 Open a quilt design.

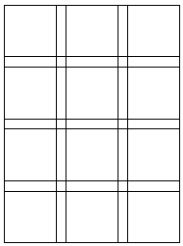
2 Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.



3 Select a **Sashes** style.

4 Enter a **Sashes Width**.


Sash width: 1 inch


Sash width: 2 inches

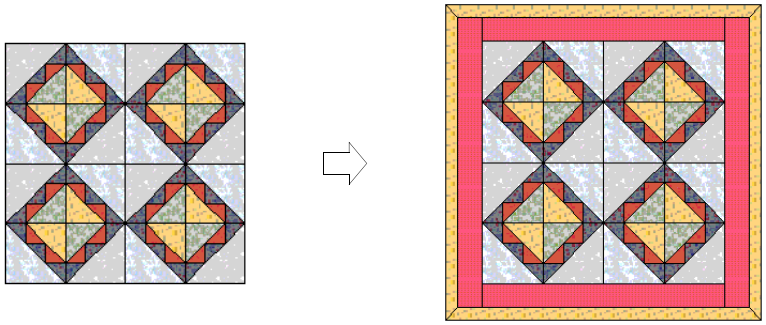
5 Click **OK**.

Adding borders around quilt

One or more borders can be added around outside of the quilt. Borders can reflect the style of the quilt, choose from square, mitered, vertical, horizontal or block style.

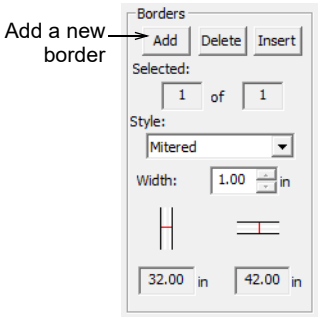
Add borders

Adding a border places a new border on the outside of the quilt, whereas inserting a border places it inside the selected border.



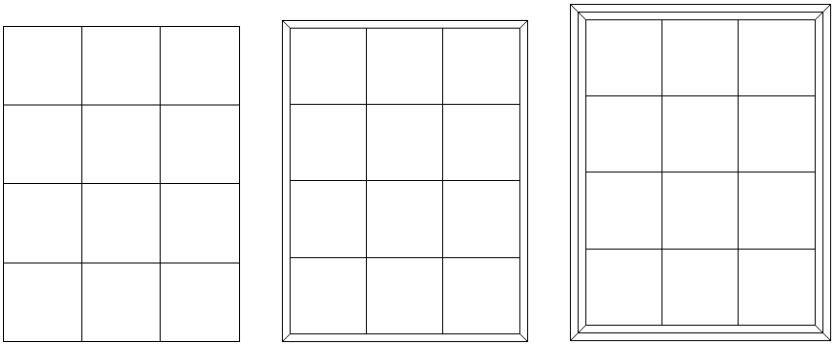
To add borders

1. Open a quilt design.
2. Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.
3. In the **Border** panel, click the **Add** button. The new border is added and highlighted.



Tip Click the **Add** button again to add another border.

4 Click **OK**.



No border | Single border | Two borders

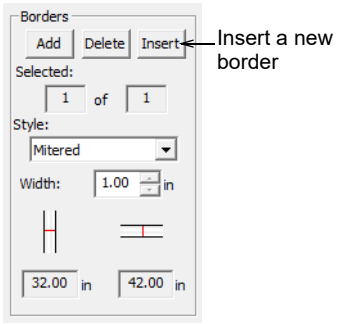
Insert borders

One or more borders can be inserted inside the selected border.

To insert borders

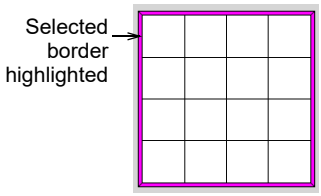
1 Open a quilt design.

2 Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.

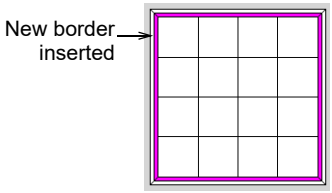


Note To activate the **Insert** button, add a border.

3 Select a border.



4 In the **Border** panel, click the **Insert** button. The new border is inserted inside the selected border.

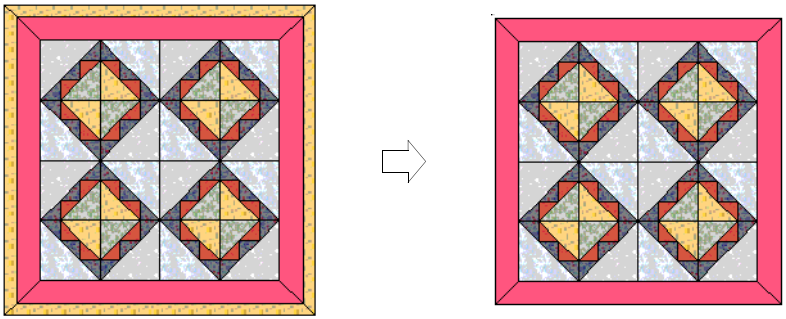


Tip Click the **Insert** button again to insert another border.

5 Click **OK**.

Delete borders

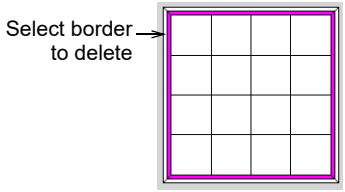
Just as they can be inserted, borders can be deleted.



To delete borders

1 Open a quilt design.

2 Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.



3 Select the border to delete.

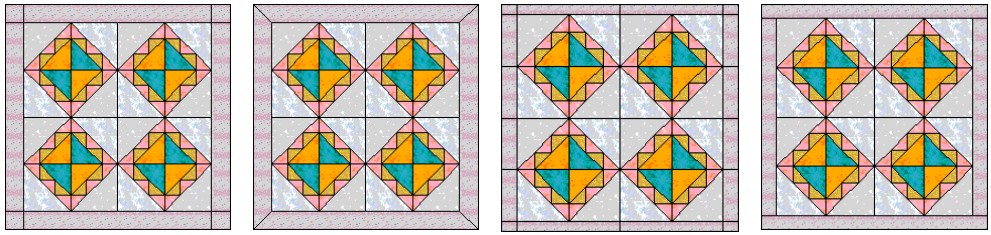
4 In the **Border** panel, click the **Delete** button.

5 Optionally, click the **Delete** button again to delete the next border.

6 Click **OK**.

Change border style

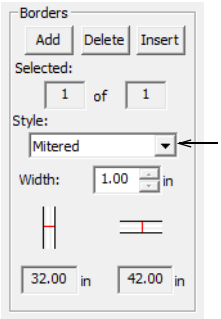
Quilt borders can be changed using different styles. Each border can use a different style.



To change border style

1 Open a quilt design.

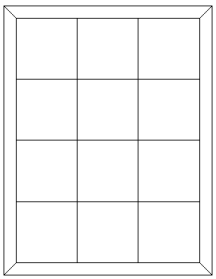
2 Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.



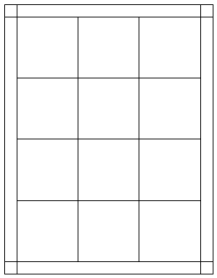
Select border style

3 Select a border.

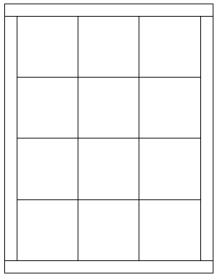
4 Select a **Border Style**.



Mitered corner



Square corner

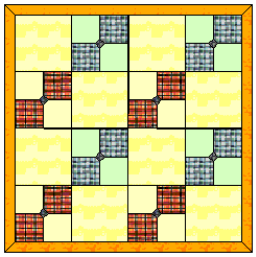


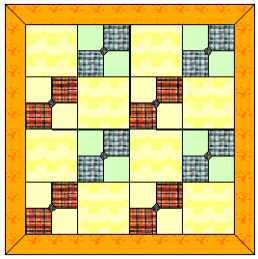
Horizontal corner

5 Click **OK**.

Change border width

Quilt borders can be adjusted to the exact width needed to suit the quilt. If you select the rectangle border, you can also change the number of rectangles along each side, as well as making them square.



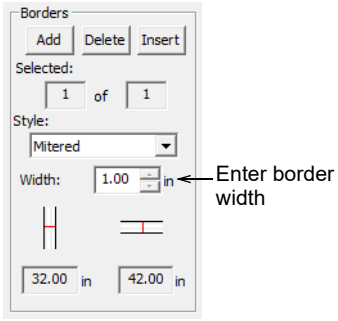


To change border width

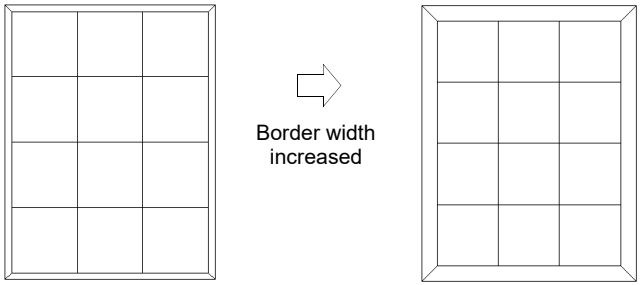
1 Open a quilt design.

2 Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.

3 Select a border.



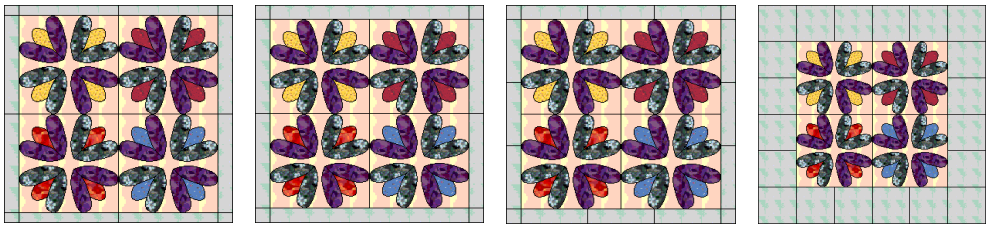
4 Enter the border width.



5 Click **OK**.

Adjust rectangle borders

Rectangle borders can be adjusted so that the top and bottom border widths are different to the side width. You can also change the number of rectangles along each side, as well as making them square.

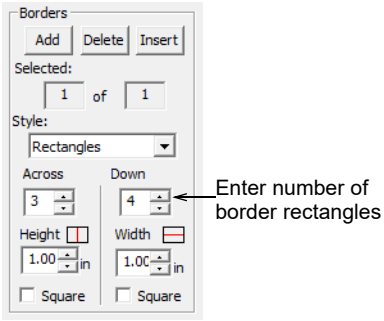


To adjust rectangle borders

1 Open a quilt design.

2 Click the **Quilt Layout** icon. The **Quilt Layout** dialog opens.

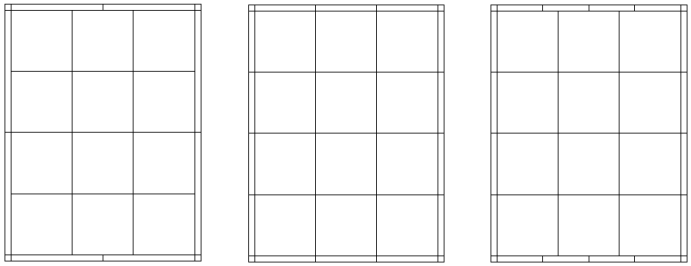
3 Select **Rectangles** border from the **Borders Style**.



4 Enter number of border rectangles:

- **Across**: across the top and bottom of the quilt.
- **Down**: down the sides of the quilt.

Note This does not need to be the same as the number of blocks across or down the body of the quilt.



Across: 2
Down: 2

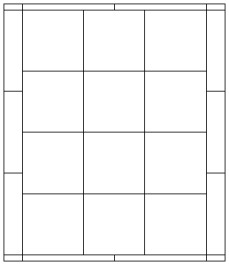
Across: 3
Down: 4

Across: 4
Down: 4

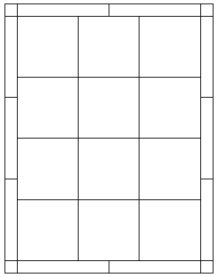
5 Enter height of border rectangles across the quilt and their width down the quilt.

- **Height**: set height of border rectangles.

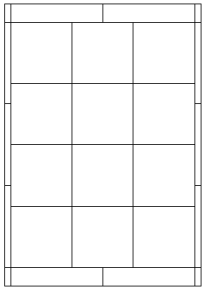
- **Width**: set width of border rectangles.



Height: 1”
Width: 3”

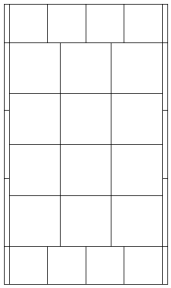


Height: 2”
Width: 2”

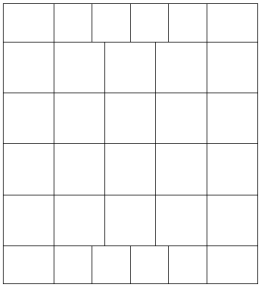


Height: 3”
Width: 1”

6 Select the **Square** checkbox to make the border rectangles square, across and/or down the quilt.



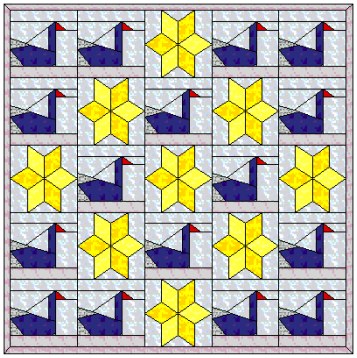
Squares Across ON



Across Squares:4
Down Squares:4

7 Click **OK**.

CHAPTER 2
QUILTER ESSENTIALS



In BERNINA Quilter you can create and visualize a complete quilt design, select, recolor and view blocks, add fabrics, then edit and view the entire quilt layout. Print out a plan of the finished quilt, both the whole quilt and all component patchwork blocks and pieces, as well as cut templates for patchwork pieces and patchwork blocks. BERNINA Quilter can also calculate and print out how much of each fabric you will need.

This section describes how to set up a quilt design, how to add patchwork blocks and fabrics, as well as how to organize patchwork blocks and fabrics on screen. Printing quilt designs and design file handling are also covered.

Using images

Bitmap images can be inserted or scanned into BERNINA Quilter for use as digitizing backdrops for embroidery or appliqué, or as fabric samples. As with BERNINA Embroidery Software, you can show or hide a bitmap backdrop temporarily. See Digitizing with Backdrops for details.

Scan backdrops & fabrics

Use Edit > Scan Artwork to scan a bitmap image or fabric into BERNINA Quilter.

The scanning feature in BERNINA Embroidery Software allows you to use most TWAIN-compatible scanners. You can use any scanning software provided that it can save the image in one of the compatible formats. When

scanning a fabric, set the scan to 256 colors, 100% and 72 dpi (dots per inch). These settings will give a small file which will display well on your screen without taking up too much disk space or memory.

Tip If an image needs to be resized or rotated, it is best to do so during scanning. Scaling afterwards may distort the image.

To scan a backdrop or fabric

1 Set up your scanner.
2 Prepare the artwork or fabric for scanning.
3 Create a new file or open a quilt design you want to insert the fabric into.
4 Click the **Scan Artwork** icon. Your scanning program will open.
5 Choose a scanning mode and resolution.
6 Preview the image in the scanning program.
7 Select the area to be scanned and scan the image.
8 Save the scanned image in a compatible format such as BMP.

Related topics

- Set up scanners
- Scanning artwork

Insert artwork

Use Edit > Load Artwork to open a picture.

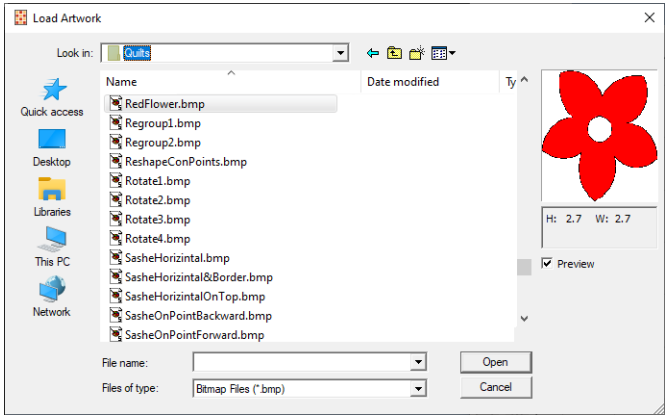
Use Edit > Scan Artwork to scan your artwork or fabric.

You can insert bitmap images of various formats for use as digitizing backdrops for embroidery or appliqué. You can also insert bitmap images of fabrics for storing in the **Fabrics Library**.

To insert artwork

1 Click the **New** icon. A new file opens.

2 Click the **Load Artwork** icon. The dialog opens.



3 Select a folder from the **Look In** list.

4 Select a file type from the **Files of Type** list – e.g. BMP.

5 Select the file you want to insert.

Tip Select the **Preview** checkbox to preview the selected file.

6 Click **Open**.

Related topics

- Create fabric samples

View & hide picture

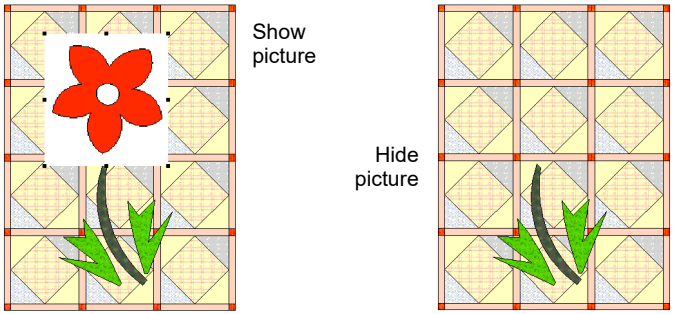
Select Standard > Show/Hide Artwork to show or hide the picture.

You can show or hide a bitmap backdrop temporarily.

To view or hide a picture

- Click the **Picture** icon to show the image.

- Click it again to hide the image.



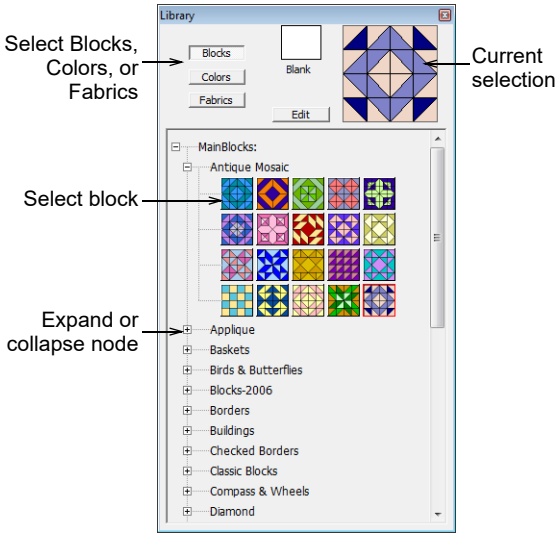
Adding blocks & fabrics to quilts

With BERNINA Quilter you use a built-in 'library' to add patchwork blocks to your quilt. These are stored in a **Blocks Library**. Once they have been added to the design, you add your chosen fabrics. Colors and fabrics that make up the quilt design are organized into either the **Colors Library** which contains solid colors or the **Fabrics Library** which contains a selection of scanned fabrics.

Blocks library

The **Blocks Library** contains traditional patchwork designs such as 'Log Cabin' or 'Wild Goose Chase' which can be used as a starting point for your design. Use one patchwork block type over the whole quilt or mix and match a number of different ones. You can change the appearance of your quilt easily by rotating blocks, changing the colors and patterns of the

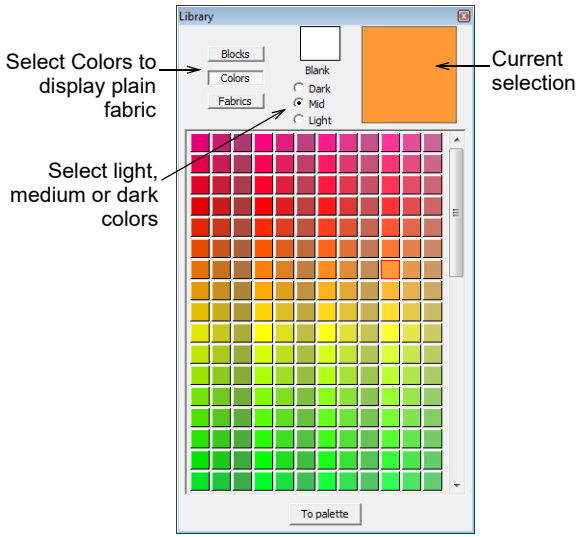
fabrics used. Experiment with different effects until you find the one you like best.



When you have designed your quilt, you can print out a list of how much of each fabric you need as well as cutting templates of the patches needed, complete with or without seam allowances.

Colors library

The **Colors Library** includes a range of solid colors divided into light, medium and dark.

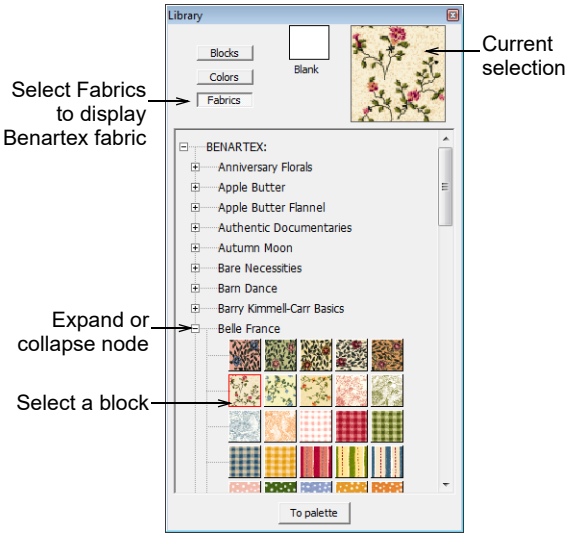


Choose a solid color from the **Colors Library** to match a plain fabric that you already have, or use a color printout to find a matching fabric from your fabric store.

Fabrics library

The **Fabrics Library** contains a range of scanned fabric samples from the Benartex range. These can be ordered from Benartex or your local fabric store. The order number is displayed as a tooltip. The fabrics are organized

into categories of like fabrics. You can add your own scanned fabrics to this library.



Note You can also scan plain fabrics and save them in the **Fabrics Library**. See also Managing backdrops & fabric samples.

Add patchwork blocks to quilts

Use Edit > Library to display and choose patchwork blocks.

Use Edit > Paintbrush to select and add patchwork blocks to the quilt.

The block library contains an assortment of patchwork blocks organized into categories. You can change blocks at any time. Once they have been added to the design, you can then add your chosen fabrics.

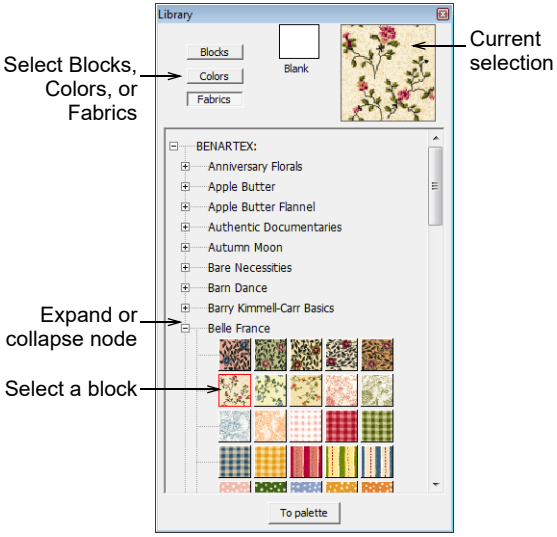
To add patchwork blocks to a quilt

1 Open BERNINA Quilter and set up the quilt layout.

2 Click the **Library** icon. The **Library** dialog opens to the right of the window.

3 Click the **Blocks** button. A listing of all predefined patchwork blocks appears by category.

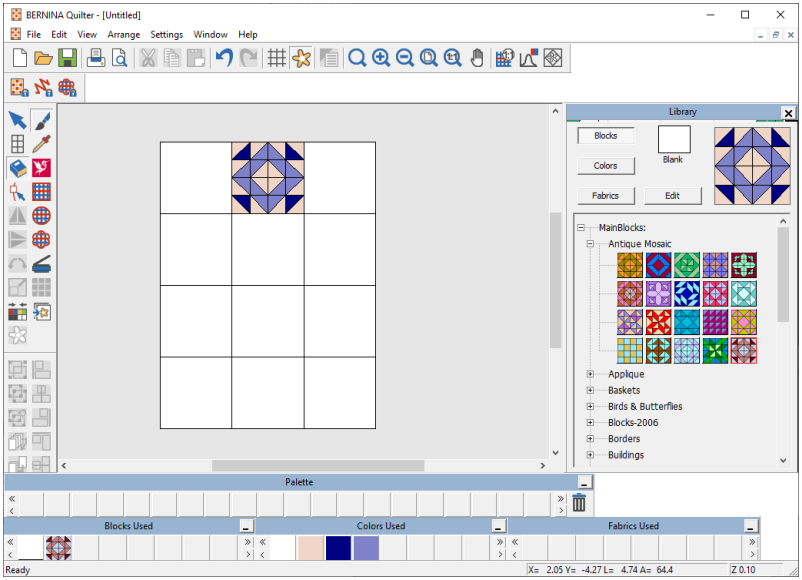
4 Click **+** in the listing to display the contents of a category.



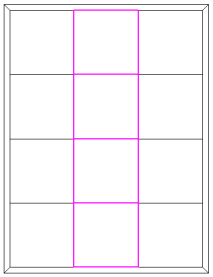
5 Select a block or blocks on the quilt. To select multiple blocks, either:

- Drag a bounding box around a group of patchwork blocks, or
- Holding down the **Ctrl** key, click to select the blocks you require.

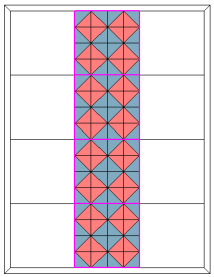
6 Select a patchwork block from the library. The patchwork block is copied to the design window.



If more than one block is selected, the patchwork block is copied to all selected blocks.



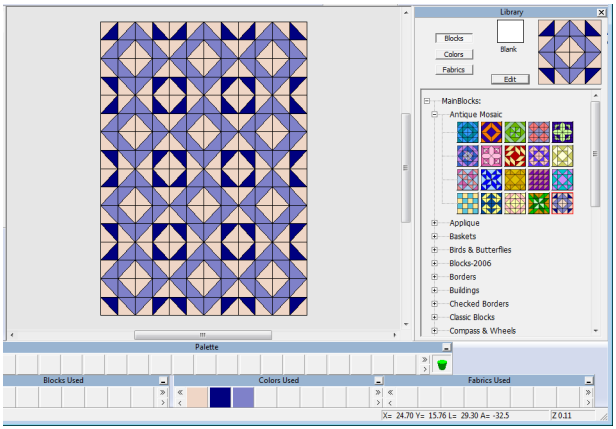
Selected blocks highlighted



All filled with the selected patchwork block from the library

7 Continue selecting patchwork blocks as required.

Tip To add a single patchwork to all blocks in the quilt, hold the **Ctrl** key and click any block in the quilt.



Related topics

- Setting up quilt layout
- Add patchwork blocks to quilts

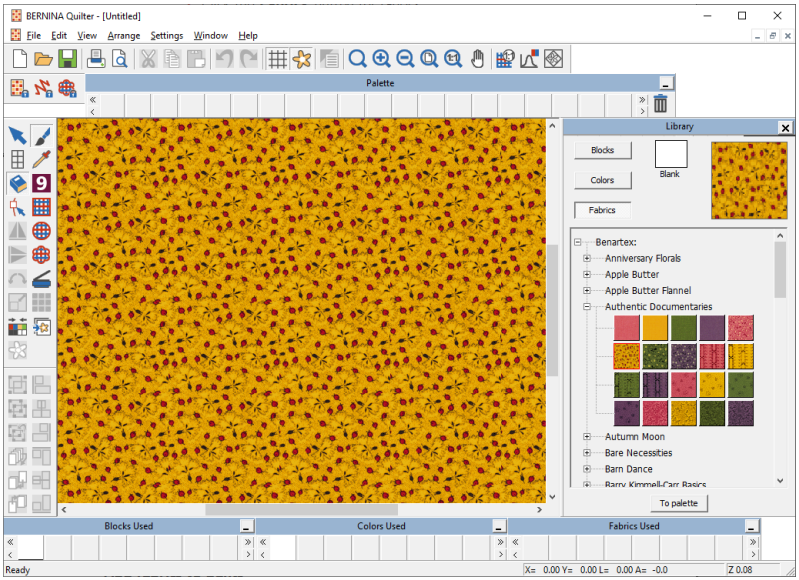
Preview fabrics

The fabric samples in the library are small and it is hard to get an idea of what they would look like in a large area. You can display a large sample of any fabric at actual size to help you choose your favorite fabrics.

To preview a fabric

1 In the library, select a fabric:
   - Click the **Colors** button for solid colors.
   - Click the **Fabrics** button for fabrics.
2 Press **Alt** and hold the mouse button down while you click a fabric sample.

A large display of the pattern fills the whole design window, at a zoom factor of 1:1. When the mouse is released the display returns to normal.

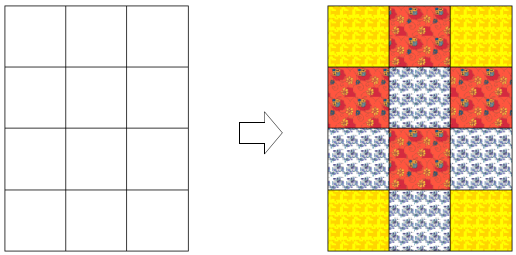


Add fabrics to quilts

Use Edit > Library to display and choose solid or fabrics to the quilt.

Use Edit > Paintbrush to select and add fabrics to the quilt.

Add solid or pattern fabrics to individual blocks or to the whole quilt.



To add fabrics to the quilt

1 Open a quilt design.

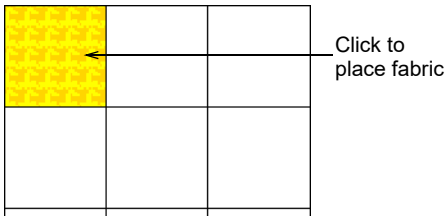
2 Click the **Library** icon.

3 Select **Colors** or **Fabrics** in the **Library** dialog:

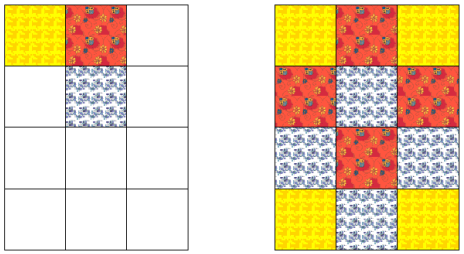
- For solid colors, click the **Colors** button, then select a tone, light, mid or dark.
- For fabrics, click the **Fabrics** button, then click **+** to display the fabrics.

4 Select the color of fabric you require.

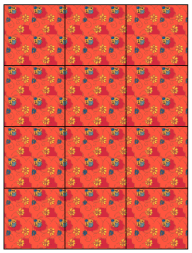
5 Click the block where you want to place the fabric.



6 Continue until all the fabrics are added.

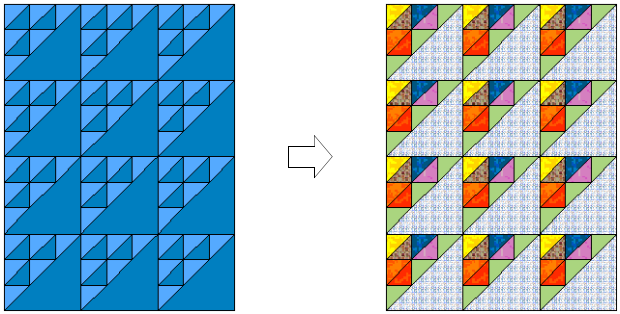


Tip To add a single fabric to all blocks in the quilt, hold the **Ctrl** key and click any block in the quilt.



Add fabrics to patchwork pieces

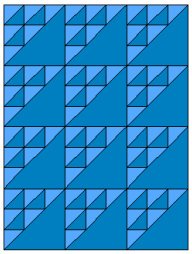
You can add fabrics to patchwork pieces individually or as a group.



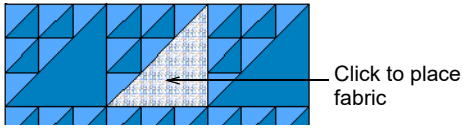
To add fabrics to a patchwork piece

1. Open a quilt design.
2. Add your patchwork blocks.
3. Click the **Library** icon.
4. Select **Colors** or **Fabrics** in the **Library** dialog:
   - For solid colors, click the **Colors** button, then select a tone, light, mid or dark.
   - For fabrics, click the **Fabrics** button, then click **+** to display the fabrics.

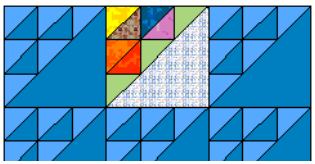
5 Select a color or actual fabric.



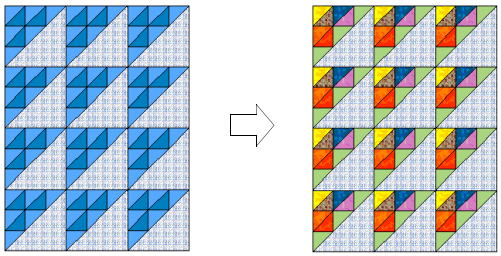
6 Click where you want to place the color or fabric.



7 Continue until all the fabrics are added.



Tip To add the fabric to all geometrically equivalent patchwork pieces, hold **Ctrl** as you click.



Related topics

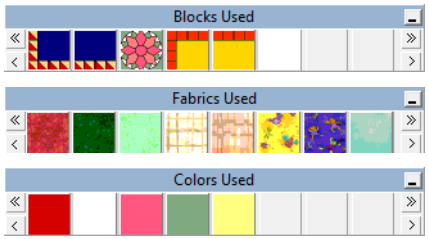
- Add patchwork blocks to quilts

View blocks & fabrics used in design

Panels at the bottom of the design window each display up to eight patchwork blocks, colors, or fabrics used in the quilt.

To view blocks and fabrics used in the design

- Use the scroll buttons (< or >) to move the display one tile to the left or right.



- Click the double scroll buttons (<< or >>) to move the display to the end left or right.

Note The blocks are shown in their original library colors, orientation and shape, even if the blocks on the quilt have been recolored, rotated and/or skewed.

Viewing quilt designs

BERNINA Quilter provides many viewing modes to make it easier to work with your design. Zoom in on an area to see more detail, view the design at actual size or zoom out to see the whole design. Pan across the design instead of scrolling, and quickly change between one view and the last. You can show or hide design elements with a variety of display settings. You can turn object outlines on or off. You can show a line drawing representation of the quilt blocks together with any appliqué or embroidery as well as a blended color version.

Pan across designs

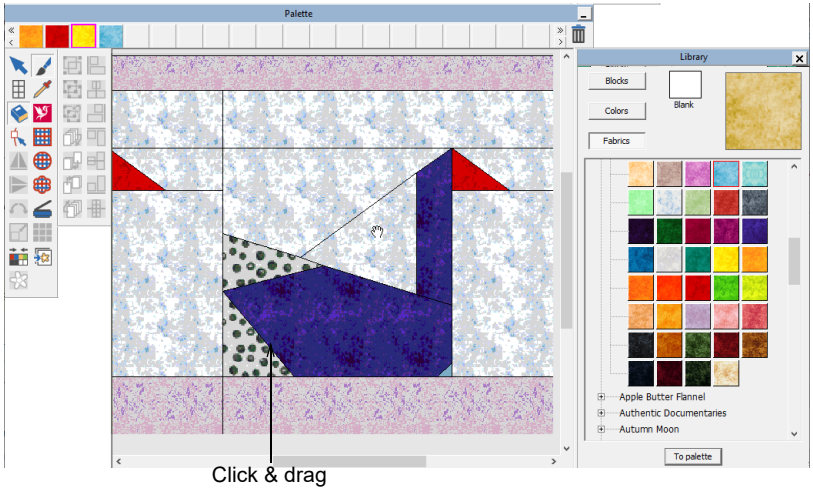
Use Standard > Pan to pan the quilt design.

In addition to the scroll bars, panning provides a quick way to view parts of a design which are not currently visible in the design window. Panning is typically used after zooming in on an area.

To pan across a design

1 Select the **Pan** icon.

2 Click and drag the quilt until it is in the correct position.



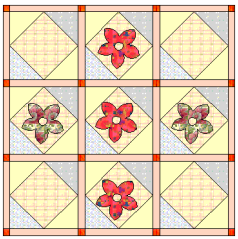
Display black & white outlines

Use Standard > Show Outlines to show only black outlines of the quilt blocks.

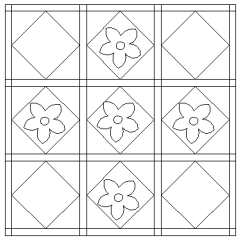
If the quilt has a busy pattern, it is useful to hide all the fabric colors and show the design as only black and white outlines. All blocks, appliqué shapes and embroidery designs are reduced to outlines only. This technique can also be used to view appliqué objects more clearly when reshaping.

To display black and white outlines

- Click the **Show Outlines** icon. Only outlines display.

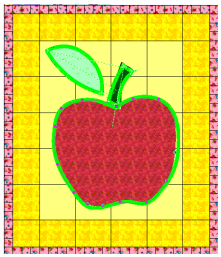


Show Outlines OFF



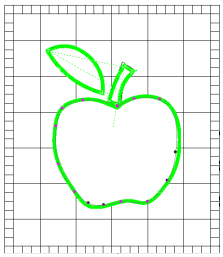
Show Outlines ON

- Click the **Show Outlines** icon again to toggle outline view.
- Show color blocks with no outlines to create a more realistic view of the finished quilt by pressing **Ctrl+L**.



Whole quilt showing

Only appliqué showing



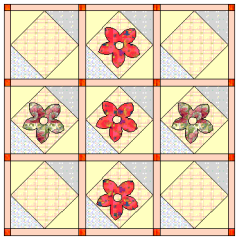
View fabrics at actual size

Use Standard > Show Fabric 1:1 to show fabrics in actual size.

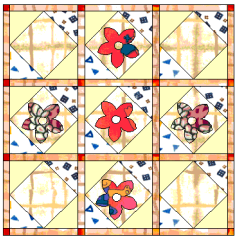
Sometimes it is useful to show fabrics at their actual size. It is easier to differentiate between fabrics, particularly if you are using a number of similar fabrics. The blocks themselves do not change size, only the pattern in the fabric.

To view fabrics at actual size

- Click the **Show Fabric 1:1** icon. When the tool is selected, fabrics are displayed at actual size.



Show Fabric 1:1 OFF



Show Fabric 1:1 ON

- Click the **Show Fabric 1:1** icon again to reduce the fabric pattern to the same proportions as the quilt.

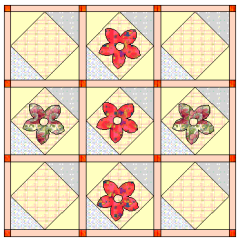
View averaged colors

Use Standard > Show Fabric Average Color to show fabrics with averaged colors.

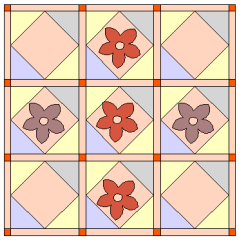
When you are choosing fabrics for a quilt, it is important to select the balance of light, medium and dark tones which will produce the effect that you require. Use the **Show Fabric Average Colors** tool to blend each fabric into one averaged color, allowing you to check that you have achieved the correct balance of tones.

To view averaged colors

- Click the **Show Fabric Average Colors** icon. When the tool is selected, fabric in each block is blended into one averaged color.



Show fabric average colors OFF

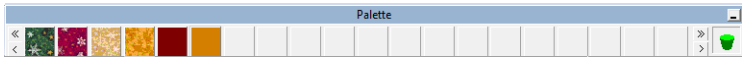


Show fabric average colors ON

- Click the **Show Fabric Average Colors** icon again to display actual fabrics.

Organizing fabrics on the palette

You can place a selection of fabrics on the **Fabric Palette** for easy recognition and access. You can use it to select and display a number of possible fabrics for use in a quilt, for example, a selection of green fabrics. It can also be used if you have one quilt design which is being used to create a number of different quilts with different fabrics or colors.



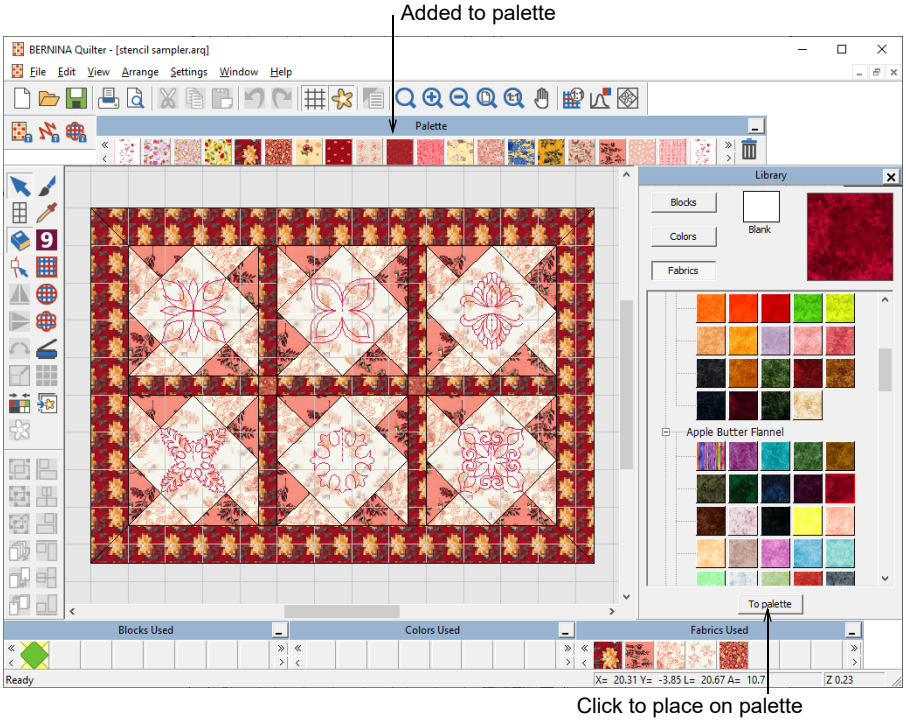
Move colors and fabrics around the palette by clicking and dragging. Swap fabrics by dragging and dropping one to another. Double-click a color in the palette to open the **Color** dialog.

To organize fabrics on the palette

1 Select a solid or pattern fabric from the library.

Note The **Paintbrush** icon is automatically selected and changes to an eyedropper when the cursor is over the library.

2 Click the **To palette** button. A copy of the selected patchwork block or pattern is placed on the **Palette**.



Adjusting colors

When you have added patchwork blocks and fabrics to your quilt, you can easily adjust the hues or the brightness in the whole quilt. You can also mix and save your own colors.

Adjust hue or brightness

Use Edit > Adjust Hue/Brightness to adjust hue or brightness.

The **Adjust Hue/Brightness** dialog can be used to:

- change the colors or hues of the whole quilt or selected objects
- adjust the brightness of the whole quilt or selected objects.

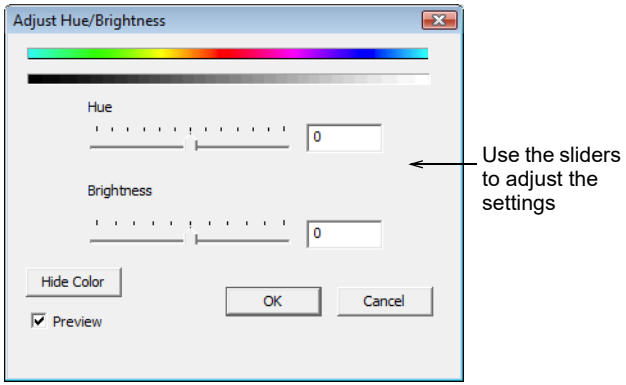
Note Embroidery designs are not affected by **Adjust Hue/Brightness**.

To adjust hue or brightness

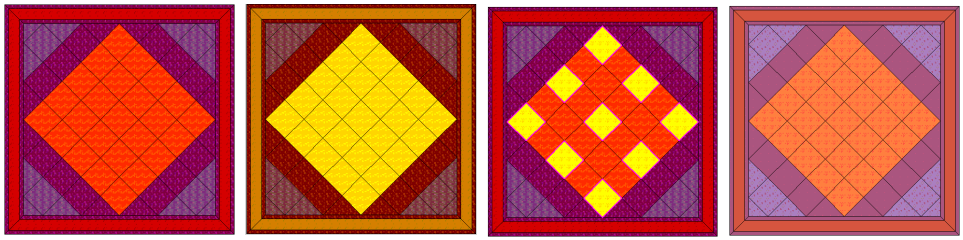
1 Open a quilt design.

2 Select an area to adjust or deselect all to adjust the whole quilt.

3 Click the **Adjust Hue/Brightness** icon. The **Adjust Hue/Brightness** dialog opens.



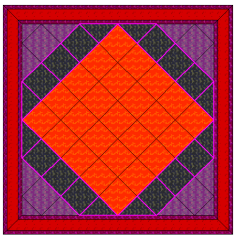
4 Move the slider to adjust hue and/or brightness.



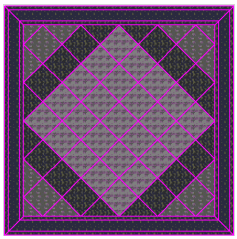
Original colors | Hue adjusted | Hue adjusted in selected areas | Brightness adjusted

Tip Select the **Preview** checkbox to update the display as you adjust the settings.

5 Click & hold **Hide Color** to remove all color from the selected area or the whole quilt if nothing is selected. This helps to show the balance of light and dark in the quilt.



Hide color selected blocks



Hide color all

6 Click **OK**.

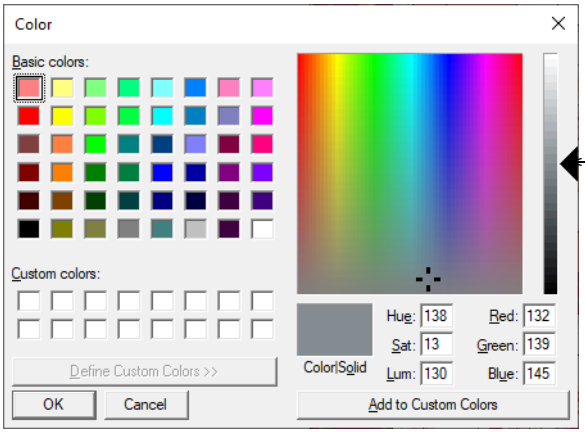
Mix your own colors

From the **Palette**, you can change the color of any plain fabric, or create and save new fabric colors using the **Color** dialog.

To mix your own colors

1 Click and drag a plain fabric to the Fabric Palette.

2 Double-click the fabric. The **Color** dialog opens.



3 From the **Basic colors** table, select a color that closely matches the color you require.

4 Click and drag the cross hairs on the color spectrum to get the exact color you require.

5 Drag the slider on the right of the color spectrum to adjust color brightness.

The HLS and RGB values appear in the bottom right-hand corner of the **Color** dialog. Enter these values directly to define exact colors.

6 When you have mixed the required color, click **Add to Custom Colors**.

7 Click **OK**. The new color appears in the Fabric Palette.

Printing quilt designs & blocks

Use Standard > Print to print the current design using the current settings.

Use Standard > Print Preview to preview the current design and change settings before printing.

Create a hard copy of your quilt design as required. The printout shows the name of the quilt and author. Add your name in the **Quilt Properties > Summary** dialog. See View quilt design information for details.

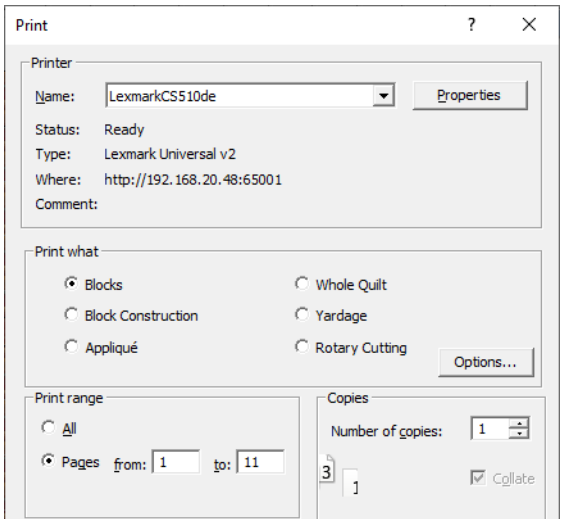
Print quilt designs

The printout contains a preview of the quilt as well as essential production information, including quilt size, blocks and their construction, any appliqué as well as cutting instructions and yardage.

Tip Preview the printout before you print to check whether it is correct.

To print quilt designs

1 Select **File > Print**. The **Print** dialog opens.



2 Select the printer you want to use.

Note To change the print settings, click **Options**, and change the settings as required.

3 In the **Print What** panel, select the information to include:

Print...	Refer to...
Blocks	Print patchwork blocks
Block construction	Print patchwork block construction
Appliqué	Print appliqué shapes
Whole quilt	Print whole quilt
Yardage	Print yardage
Rotary cutting	Print rotary cutting instructions

4 Click the **Options** button to adjust settings for each.

5 Preview a printout by:

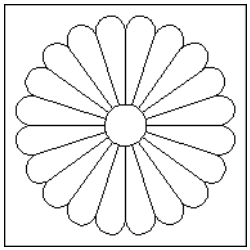
- clicking the **Preview** button in any **Print Options** dialog
- clicking the **Print Preview** icon
- selecting **File > Print Preview**.

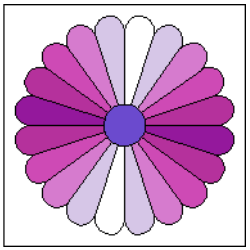
6 Enter the number of copies you require.

7 Click **OK**.

Print patchwork blocks

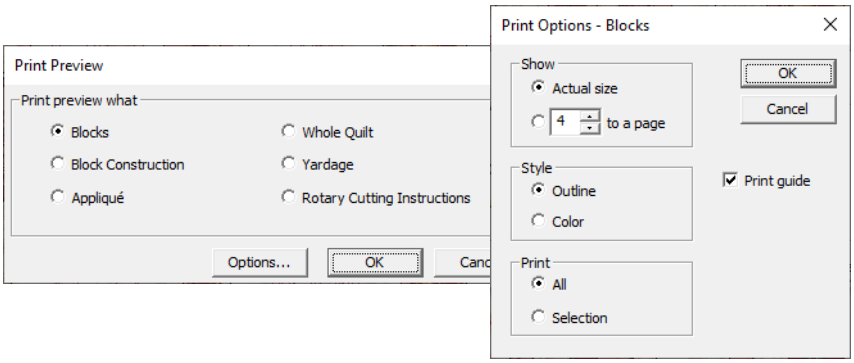
Use to print a series of whole patchwork blocks, including blocks, sashes, sash squares and border.





To print patchwork blocks

1 Click the **Print Preview** icon. **Print Preview** dialog opens.

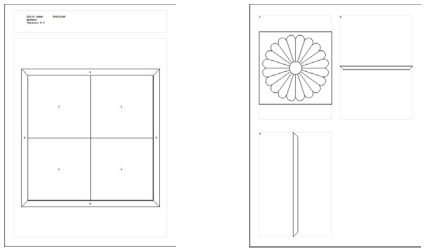


2 Select **Blocks** and click the **Options** button. The **Print Options-Blocks** dialog opens.

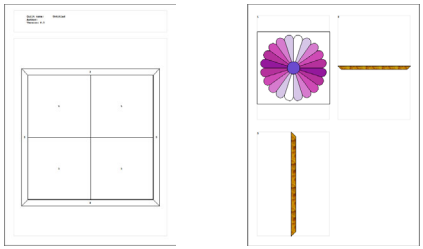
3 Select to print actual size or specify the number of blocks per page.

4 Select to print in color or outline:

- **Outline**: print only the lines around blocks and patches.



- **Color**: print blocks in color.



5 Select print range, either all or a selection.
   - **All**: print all blocks.
   - **Selection**: print selected blocks only. You must to select the blocks before printing.

6 Select the **Print Guide** checkbox to print the quilt guide.

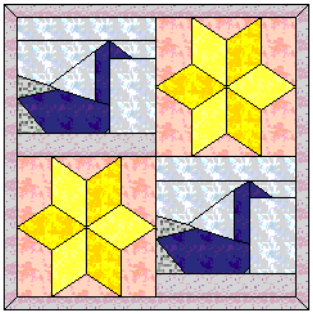
   The quilt guide includes an outline drawing of the whole quilt, with a number in each element that will be printed in the following pages. The same number appears next to the element when it is printed individually.

   Tip Press **Next Page** and **Previous Page** to move through all the pages.

7 Click **Print**.

Print patchwork block construction

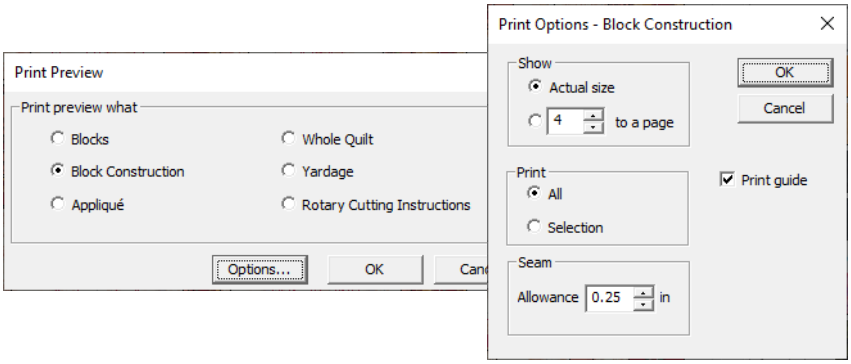
Block construction includes the individual pieces making up the blocks, sashes, sash squares and border sections. Each piece is printed with a specified seam allowance. The printout is divided into block sections, beginning immediately after the guide is printed. Each section prints everything required for one block. Each block section begins with a block guide printed at one-fifth scale, including key letters identifying the patches in the block. Use this method to print blocks that include appliqué as part of the block.



Tip To print appliqué shapes that were created using the appliqué drawing tools, see Print appliqué shapes

To print patchwork block construction

1 Click the **Print Preview** icon. The dialog opens.

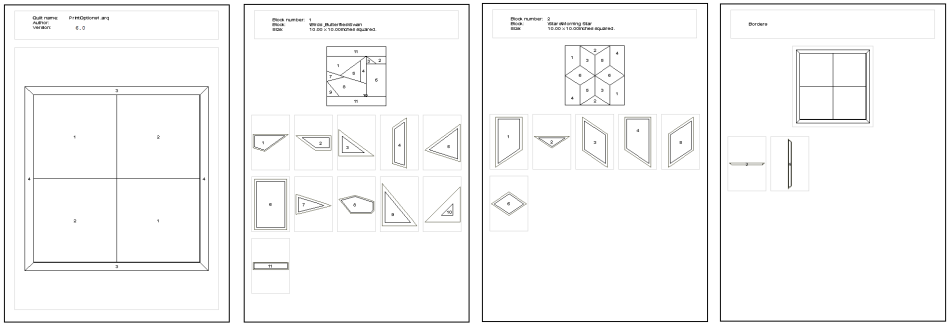


2 Select **Block Construction** and click the **Options** button. The **Print Options-Block Construction** dialog opens.

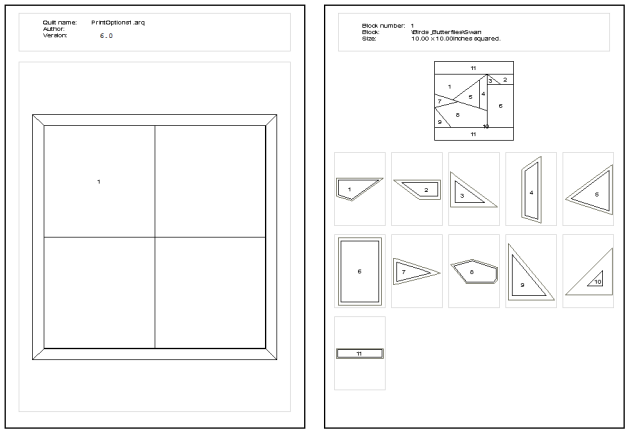
3 Select to print at actual size or specify the number of blocks per page.

4 Select print range, either all or a selection.

- **All**: prints all blocks.



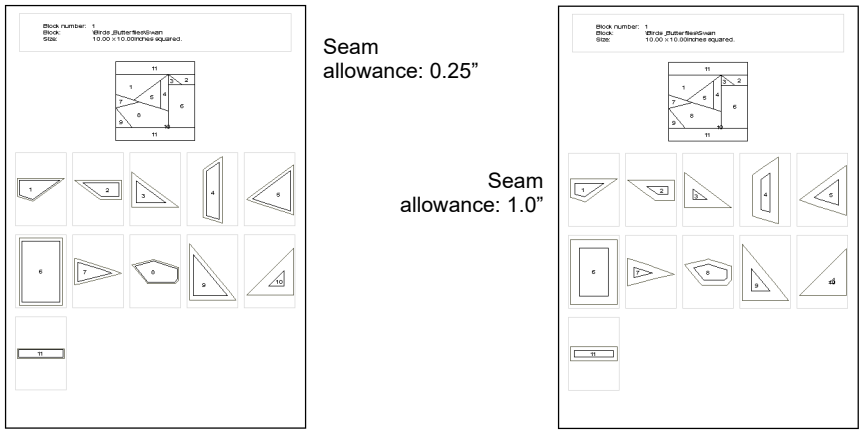
- **Selection**: prints selected blocks only.



Tip Don't forget to select the blocks before printing.

5 Enter a **Seam Allowance**.

The outside of the seam allowance is called the cutting line and is not the same as the patch outline or stitching line.



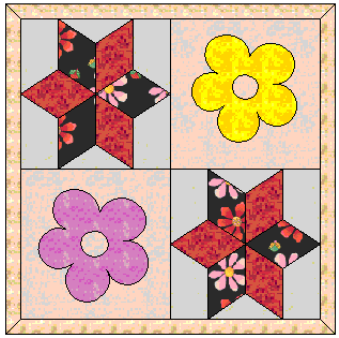
6 Select the **Print Guide** checkbox for the first page to be an outline drawing of the whole quilt, with a number in each element that will be

printed in the following pages. The same number appears next to the element when it is printed individually.

Tip Press **Next Page** and **Previous Page** to move through all the pages.

7 Click **Print**.

Print appliqué shapes



Use **Print Appliqués** to print the outline shapes of the appliqués in the quilt which can be used as templates, or as a guide to assembly. In the **Print Guide**, numbers printed in each appliqué are placed inside the image of that appliqué or outside with a line pointing from the number into the outline. If two appliqués are identical in shape they are given the same number, and printed once. Recognition of same shapes ignores rotation, but not mirroring, skewing or resizing. Appliqué can be applied to a quilt using one of two techniques:

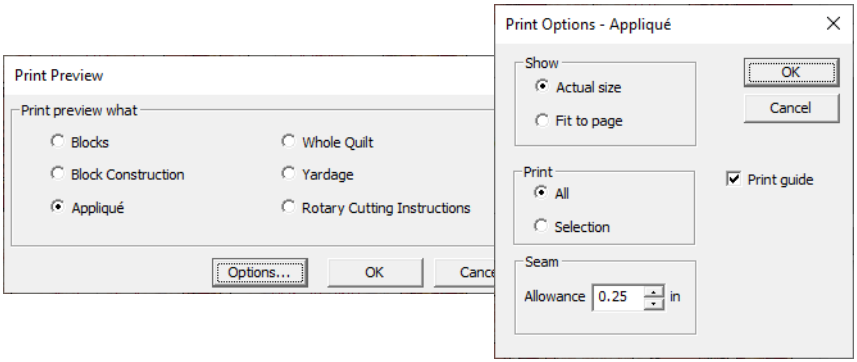
- normal: no seam allowance needed.
- turned-edge appliqué: add seam allowance.

Use this method to print appliqué shapes that were created using the appliqué drawing tools.

Tip To print blocks that include appliqué as part of the block, see Print patchwork block construction.

To print appliqué shapes

1 Click the **Print Preview** icon. **Print Preview** dialog opens.

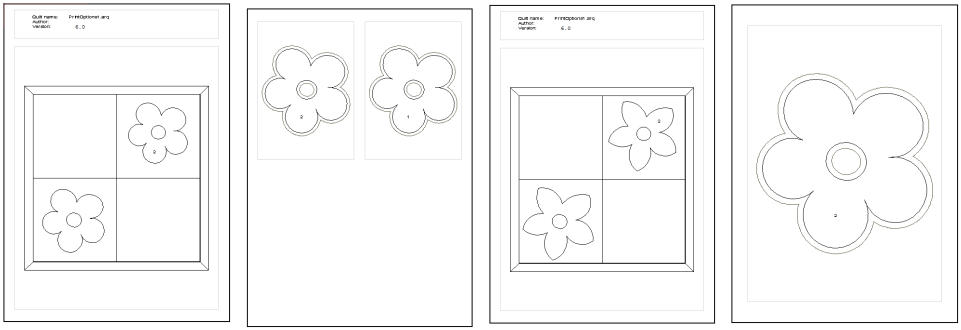


2 Select **Appliqué** and click the **Options** button. The **Print Options-Appliqué** dialog opens.

3 Select to print actual size or specify the number of blocks per page.

4 Select print options:

- **All**: print all appliqué shapes.
- **Selection**: print selected appliqué shapes only. You must select the shapes before printing.



All appliqué | One appliqué selected

5 Enter a seam allowance:

- Normal appliqué: 0

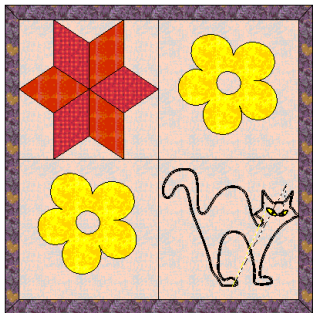
- Turned-edge appliqué: usually 0.25".

Tip Press **Next Page** and **Previous Page** to move through all the pages.

6 Click **Print**.

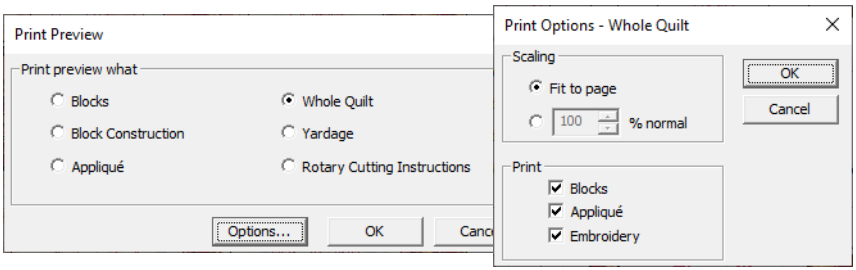
Print whole quilt

Use **Print Whole Quilt** to print the entire quilt showing blocks and/or embroidery and/or appliqué.



To print the whole quilt

1 Click the **Print Preview** icon. **Print Preview** dialog opens.

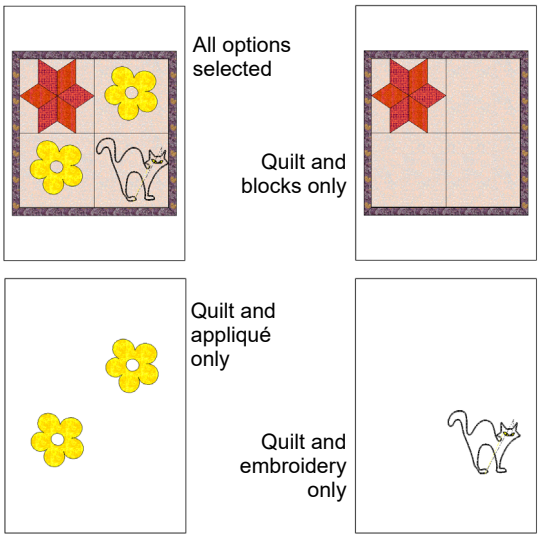


2 Select **Whole Quilt** and click the **Options** button. The **Print Options-Whole Quilt** dialog opens.

3 Select to print actual size or specify a percentage of the actual size.

4 Select which parts of the quilt you want to print:

- Blocks
- Appliqué
- Embroidery

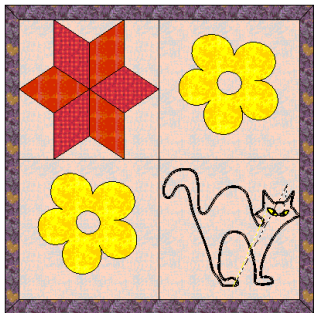


Tip Press **Next Page** and **Previous Page** to move through all the pages.

5 Click **Print**.

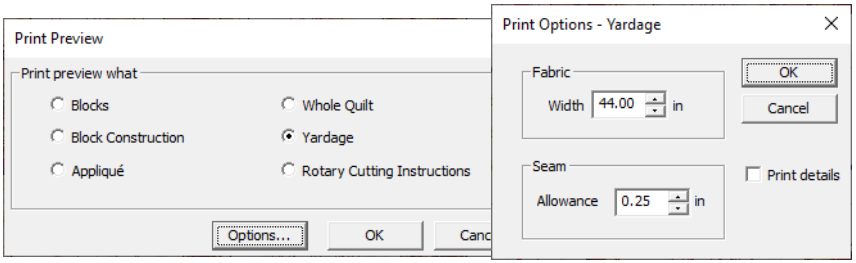
Print yardage

Use **Yardage** to calculate and print a list of the fabrics used, with an estimate of the yardage needed for each, based on the fabric width and a specified seam allowance. The list is ordered from the most-used fabric to least-used.



To print the yardage

1 Click the **Print Preview** icon. The **Print Preview** dialog opens.

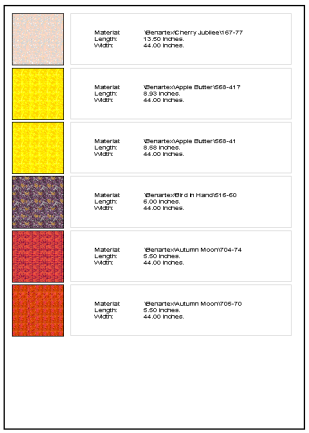


2 Select **Yardage** and click the **Options** button. The **Print Options-Yardage** dialog opens.

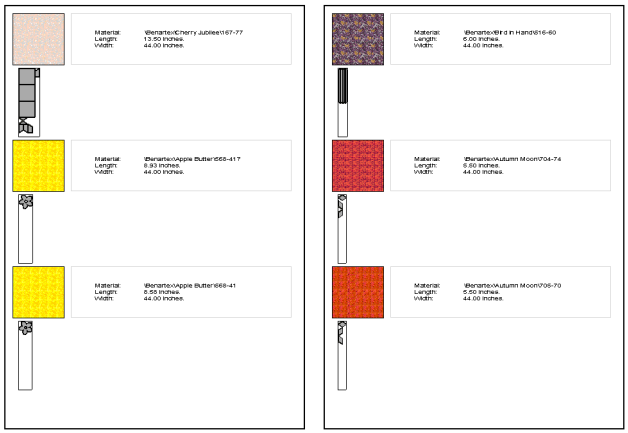
3 Enter your fabric width.

4 Enter a **Seam Allowance**. The same seam allowance is applied to all patches and appliqués.

5 Select the **Print Details** checkbox to print extra information below each fabric. Print Details shows an outline of the required fabric width and length with every patchwork piece and appliqué object shown.



Print Details OFF



Print Details ON

Tip Press **Next Page** and **Previous Page** to move through all the pages.

6 Click **Print**.

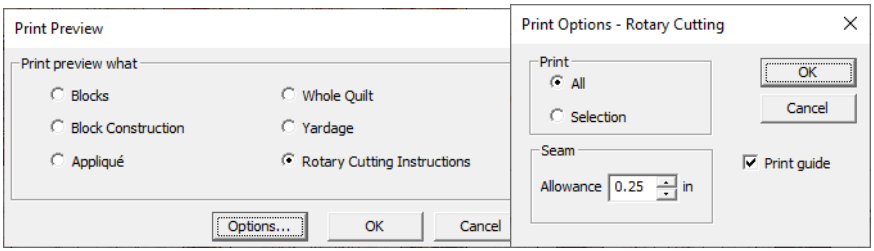
Print rotary cutting instructions

Use the **Rotary Cutting Instructions** option to print rotary cutting instructions for your own custom blocks. See also Creating custom patchwork blocks.

Note Not all patches can be rotary cut. Only blocks that are comprised of simple 3- or 4-sided shapes are suitable. Thus some patches may not appear in the rotary cutting instructions.

To print the rotary cutting instructions

1 Click the **Print Preview** icon. **Print Preview** dialog opens.



2 Select **Rotary Cutting Instructions** and click the **Options** button. The **Print Options-Rotary Cutting** dialog opens.

3 Select print range, either all or a selection.

- **All**: Print all blocks.
- **Selection**: Print selected blocks only. You must to select the blocks before printing.

4 Enter a **Seam Allowance**.

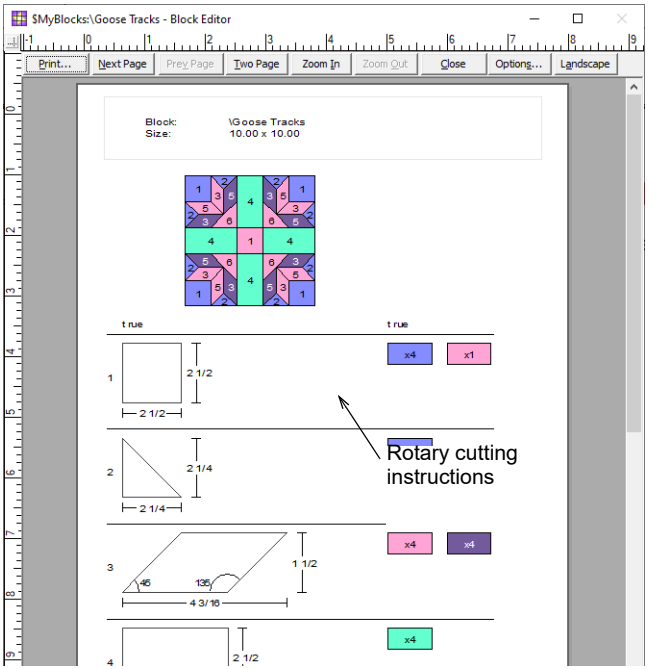
The outside of the seam allowance is called the cutting line and is not the same as the patch outline or stitching line.

5 Select the **Print Guide** checkbox to print the quilt guide.

The quilt guide includes an outline drawing of the whole quilt, with a number in each element that will be printed in the following pages. The same number appears next to the element when it is printed individually.

Tip Press **Next Page** and **Previous Page** to move through all the pages.

6 Click **OK**. The selected block/s displays in the preview window.

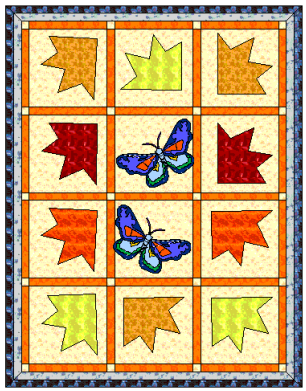


7 Click the **Print** button to print out a copy of the cutting diagrams.

Chapter 3
Quilter Editing

BERNINA Quilter provides techniques for inserting pictures and adding appliqué or embroidery to the quilt. BERNINA Quilter also allows you to copy and paste, as well as group and ungroup objects and patchwork blocks. You can also edit quilting designs, including moving, rotating, and mirroring patchwork blocks.

This section provides details of BERNINA Quilter editing features.



Adding appliqué to quilts

Use Edit > Rectangular Appliqué to create rectangular appliqué.

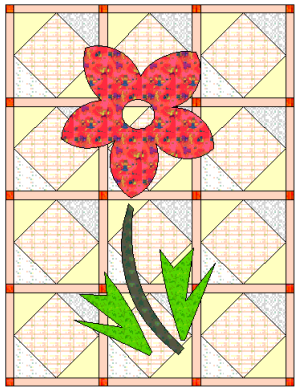
Use Edit > Draw Appliqué to create freehand appliqué.

Use Edit > Oval Appliqué to create oval appliqué.

Use Edit > Reshape Appliqué to reshape appliqué.

An appliqué is a single piece of fabric sewn on top of the quilt. There are three types: Rectangular, Oval or Draw. Draw appliqué can have multiple boundaries.

BERNINA Quilter provides techniques for adding appliqué rectangles or circles, or 'closed' free-form shapes. These appliqués are patches of fabric only. Auto Appliqué in BERNINA Embroidery Software allows you to create embroidery appliqué patches.



Note To create appliqués, you can use a bitmap image as a backdrop as in BERNINA Embroidery Software. See Digitizing with Backdrops for details.

Draw appliqué rectangles

Use Edit > Rectangular Appliqué to create rectangular appliqué.

The **Rectangular Appliqué** tool provides a quick way to digitize appliqué rectangles or squares.

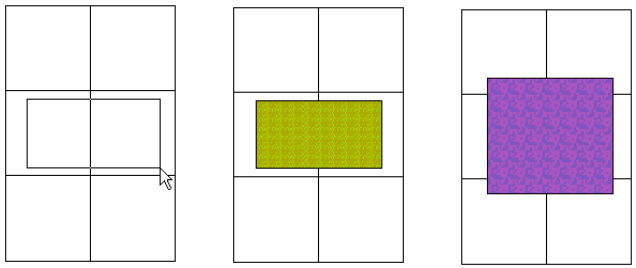
To draw an appliqué rectangle

1 Click the **Rectangular Appliqué** icon.

2 Digitize one or more boundaries as in BERNINA Embroidery Software by marking rectangle origin, then rectangle corner.

Tip Press **Alt** and mark corners to digitize a square.

3 Click to close the boundary.



Tip Reshape appliqué using the **Reshape Appliqué** tool. This is used in the same way as the **Reshape** tool in BERNINA Embroidery Software.

Related topics

- Reshaping objects

Draw freeform appliqué shapes

Use Edit > Draw Appliqué to create freehand appliqué.

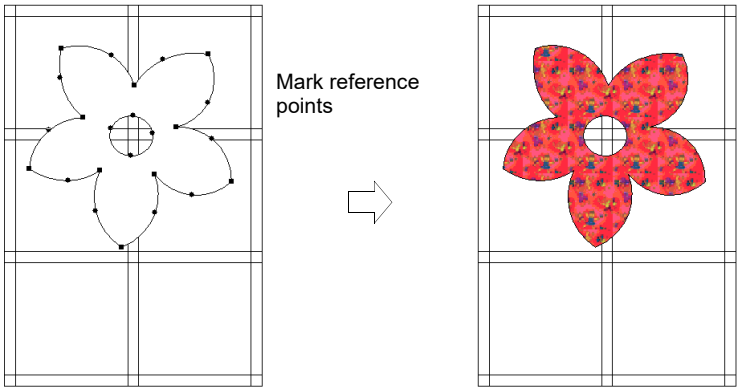
You can create freeform outlines or borders using the **Draw Appliqué** icon.

To draw a freeform appliqué shape

1. Click the **Draw Appliqué** icon.
2. Click to create points on the first boundary.
3. Press **Enter** to close the boundary.
4. To create holes in the appliqué, click to create points on the next boundary.

   All boundaries after the first one are holes in the appliqué.
5. After the last boundary has been digitized, press **Enter** again to complete the appliqué.

If a color or fabric is selected in the library, the appliqué is filled with that color or fabric. If no fabric is selected, the appliqué is filled with white color. Add fabric to the appliqué required.



6 Add colors or fabrics as with blocks.

Related topics

- Add fabrics to quilts

Draw appliqué circles

Use Edit > Oval Appliqué to create circle or oval appliqué.

The **Oval Appliqué** tool provides a quick way to digitize appliqué circles.

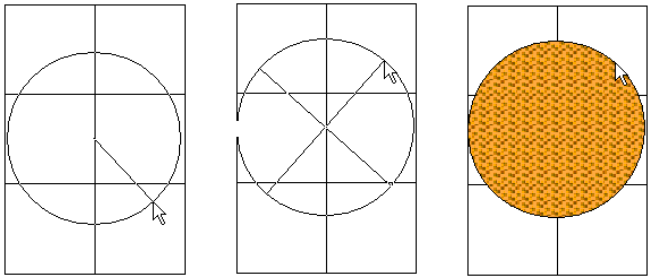
To draw an appliqué circle

1 Click the **Oval Appliqué** icon.

2 Digitize one or more boundaries as in BERNINA Embroidery Software by marking the center point then mark a point on the circumference.

- If you want a circle, press **Enter**.

- If you want an ellipse, mark a third reference point and press **Enter**.



Reshaping appliqué

Use Edit > Reshape Appliqué to adjust the reshape nodes of selected appliqué objects.

You can change the shape of an appliqué object by selecting it with the **Reshape Appliqué** icon and moving, adding or deleting reshape nodes on the outline. For some appliqué objects, you can also change reshape nodes from corner points to curves.

Reshape appliqué objects using reshape nodes

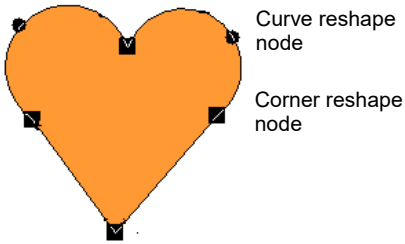
Use Edit > Reshape Appliqué to display the reshape nodes of selected appliqué objects.

Change appliqué object shapes by selecting them with the **Reshape Appliqué** icon and modifying the available reshape nodes.

To reshape appliqué objects using reshape nodes

1 Select an object.

2 Click the **Reshape Appliqué** icon. Reshape nodes appear around the object.



3 Modify the outline by adding, deleting, changing or moving the reshape nodes, depending on the object type and the required change.

4 Press **Enter** to apply the changes.

Select reshape nodes

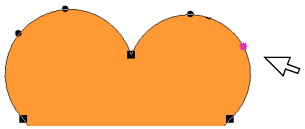
Reshape nodes can be selected individually or together, for repositioning or modification.

To select reshape nodes

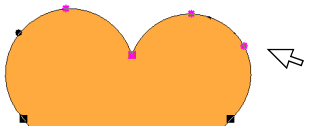
1 Select an object.

2 Click the **Reshape Appliqué** icon.

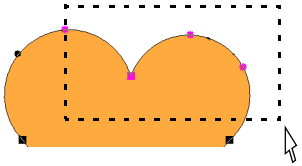
- Click to select a single reshape node.



- Holding down **Ctrl**, click to select multiple reshape nodes.



- Click and drag a bounding box around a group of reshape nodes to select.



Move reshape nodes

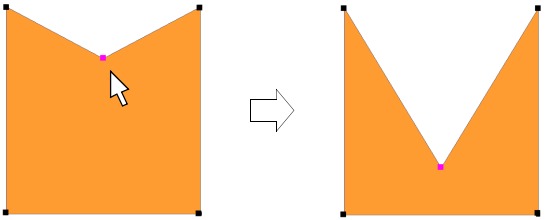
You can move reshape nodes to change an outline shape.

To move reshape nodes

1 Select an object.

2 Click the **Reshape Appliqué** icon.

- Click and drag a single reshape node to a new position.
- Similarly, click and drag multiple reshape nodes to a new position.



Add reshape nodes

Use Edit > Reshape Appliqué to add reshape nodes.

You can add reshape nodes to object outlines by clicking with the **Reshape Appliqué** icon selected.

Note You cannot add reshape nodes to appliqué objects created with the **Oval Appliqué** tool.

To add reshape nodes

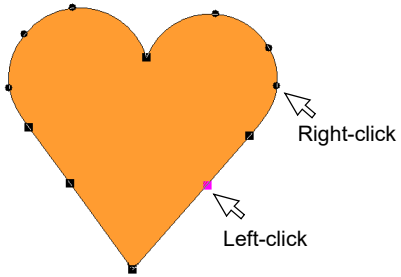
1 Select an object.

2 Click the **Reshape Appliqué** icon.

3 Position the pointer where you want to add the reshape node.

4 Click to add a reshape node.

- Left-click to add a corner point.
- Right-click to add a curve point.



5 Adjust the position of the reshape node by dragging it along the outline as required.

Change reshape nodes

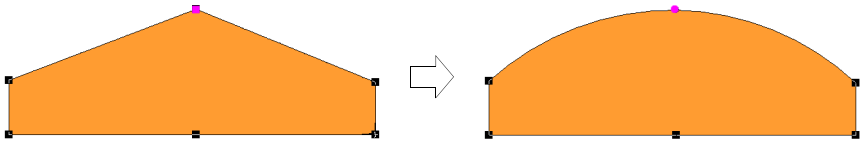
Reshape object outlines by changing corner reshape nodes to curves, or vice versa.

Note You cannot change the reshape node in appliqué objects created with the **Oval Appliqué** tool.

To change reshape nodes

1 Select an object.

2 Click the **Reshape Appliqué** icon.
3 Select the reshape node.
4 Press **Spacebar**.



Related topics

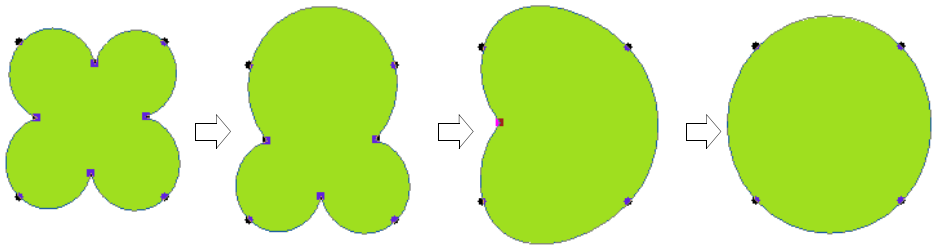
- Reshape circle appliqué objects

Delete reshape nodes

Delete unwanted reshape nodes to change an outline.

To delete reshape nodes

1 Select an object.
2 Click the **Reshape Appliqué** icon.
3 Select the reshape node or points.
4 Press **Delete**.

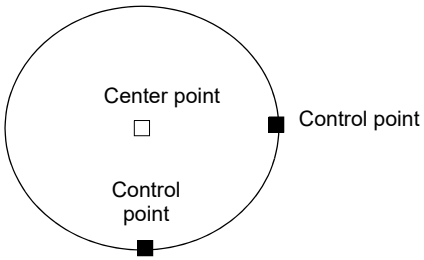


Note If the object only has two reshape nodes, deleting one deletes the whole object.

Reshape circle appliqué objects

Use Edit > Reshape Appliqué to reshape circle appliqué objects.

For appliqué objects created with the **Oval Appliqué** tool, you reshape using the existing reshape nodes only. You cannot add, change or delete control points in these appliqué objects. You can change Circle appliqué objects from circles to ovals using the **Reshape Appliqué** tool. Circle appliqué objects have two control points (used to change the radius and orientation of the object), a center point (used to reposition it), and a stitch entry point.



To reshape circle appliqué objects

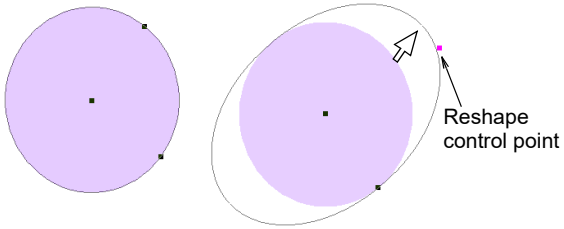
1 Select a **Oval Appliqué** object.

2 Click the **Reshape Appliqué** icon.

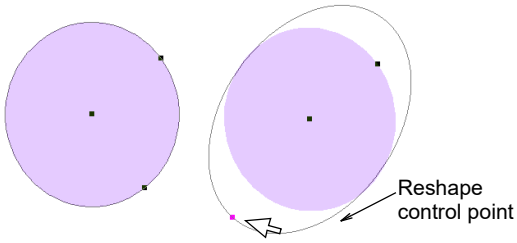
Tip To move a circle, click the control point in the circle's center, and drag it to a new position.

3 Click a control point on the circumference of the circle, and drag it to reshape the outline.

- To reshape without changing the orientation, use the higher control point.



- To reshape and spin the object around its center point, use the lower control point.



4 Press **Enter**.

Incorporating embroidery into quilt designs

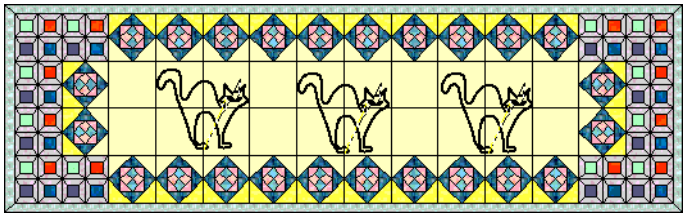
Embroidery designs can be opened and edited in the BERNINA Quilter Embroidery Window. You can also create a new embroidery design on-the-fly to add to the quilt.

Caution If your quilt design uses an embroidery design, the ARQ file will include the embroidery design file. These included designs should not be shared as this will infringe copyright laws.

Add embroidery to quilts

9 Use Edit > Embroidery Window to add embroidery to quilt designs.

Add a previously digitized design or create a new embroidery design in the BERNINA Quilter Embroidery Window. The quilt design can include more than one embroidery design.

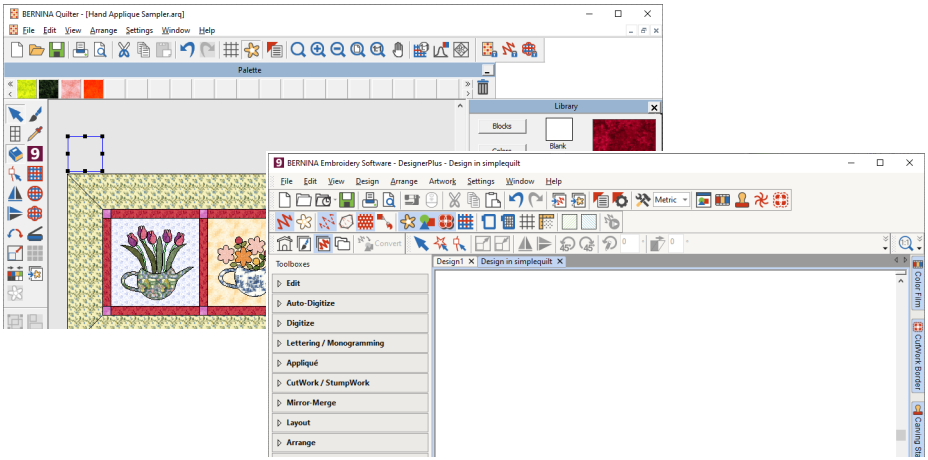


Note Embroidery designs on the quilt need to be opened and stitched using BERNINA Embroidery Software. You cannot stitch embroidery designs from BERNINA Quilter.

To add embroidery to a quilt

1 Open a quilt design.

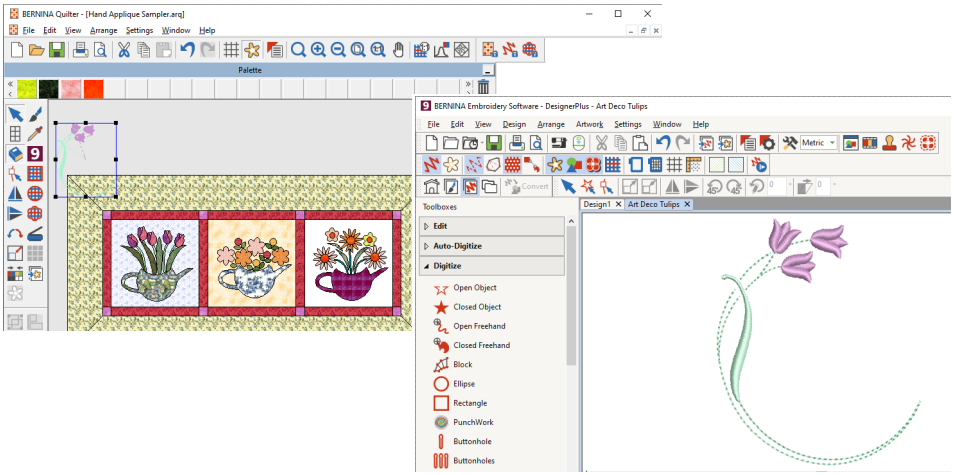
2 Click the **Embroidery Window** icon.



3 In the embroidery design window, select **File > Insert Embroidery**.

4 Select a design and click **OK**.

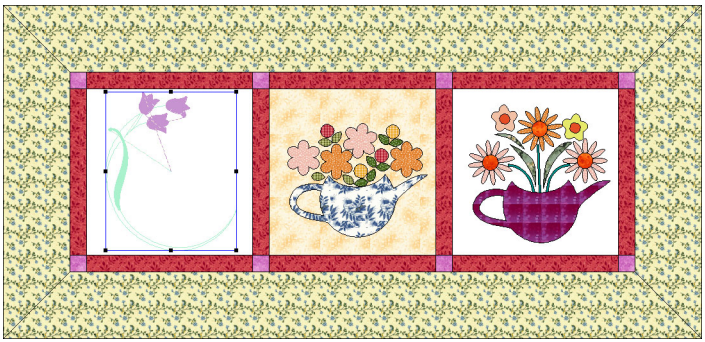
5 Make any changes required. Any edits can be seen in the quilt window.



6 Select **File > Save and Return**. The Embroidery Window closes.

Tip Use **File > Save As** to save a copy of the original design.

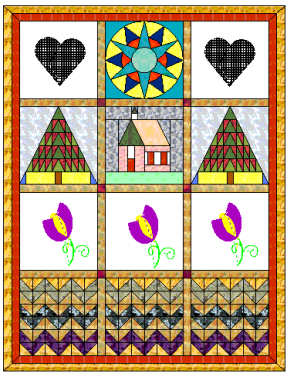
7 Select and move the embroidery design to its correct position.



Create new embroidery designs

9 Use Edit > Embroidery Window to add embroidery to quilt designs.

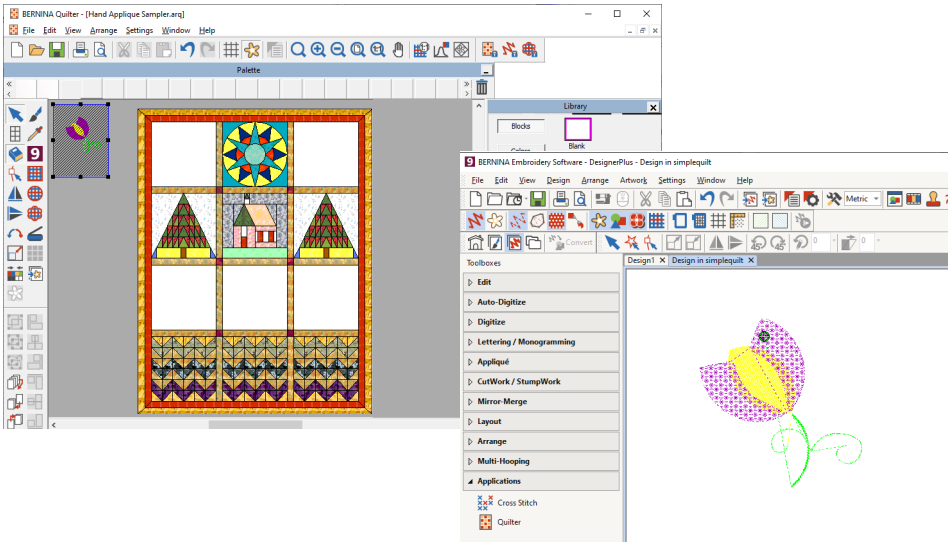
Create a new embroidery design on-the-fly to add to the quilt. As you create the embroidery design, objects with stitches and color are shown in the BERNINA Quilter window. Each embroidery design on the quilt opens in its own Embroidery Window for editing.



To create a new embroidery design

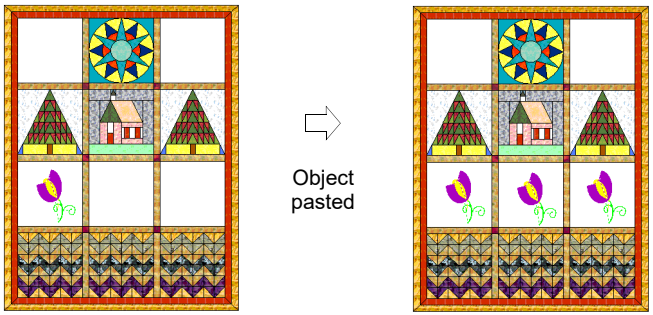
1 Open a quilt design.

2 Select the **Embroidery Window** icon. The Embroidery Window opens.



3 Use the digitizing tools to create an embroidery design as in BERNINA Embroidery Software.

4 When the design is complete, select **File > Save and Return**. The embroidery file is stored with BERNINA Quilter, and opens when the BERNINA Quilter file is re-opened.

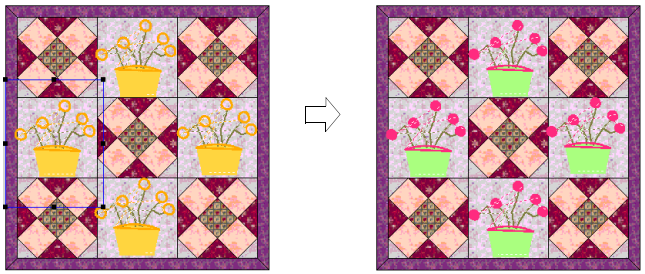


Edit embroidery designs in Quilter

Use Edit > Embroidery Window to edit embroidery in quilt designs.

You can edit embroidery designs in **Quilter**. Any changes you make show up as you work.

Note You cannot open the **Embroidery Window** if you have selected multiple or grouped embroidery designs.



To edit an embroidery design in Quilter

1 Open a quilt design.

2 Select an embroidery object.

Object selected

3 Click the **Embroidery Window** icon.

4 After editing, select **File > Save and Return**. The embroidery file is stored in the Quilter application, and forms part of the file when saved to disk.

Object edited in BERNINA Embroidery Software

Editing blocks & objects

In order to edit an area of a design, you must first select it. BERNINA Quilter provides a number of ways to select blocks. It also lets you lock blocks in a complex design so that they are not selected and moved by accident.

You can group, or ungroup any combination of blocks, pictures, appliqués and embroidery designs in the same way as in BERNINA Embroidery Software. A special **Regroup** tool lets you regroup all objects that were previously grouped. See Grouping & splitting objects for details.

Note **Regroup** does not work if an object has been edited after ungrouping.

An embroidery, appliqué object or picture can be aligned to any block by selecting the object and block, and using the alignment tools as in BERNINA Embroidery Software. The layering tools help you position appliqué and embroidery objects in the correct layer order. See Arranging objects for details.

Select quilt blocks

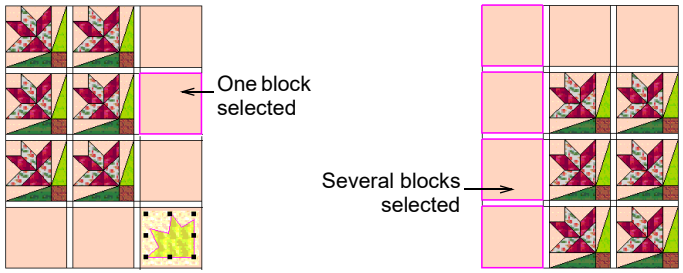
Use Edit > Select Object to select blocks or objects.

Use Edit > Eyedropper to select patchwork blocks or fabrics.

The **Select Object** tool works in a similar way to BERNINA Embroidery Software. The difference is that in BERNINA Quilter you work with blocks or areas rather than design objects. Alternatively, use the **Eyedropper** tool to select a patchwork block or fabric that has already been used in the quilt or is stored on the Fabric Palette.

To select a quilt block

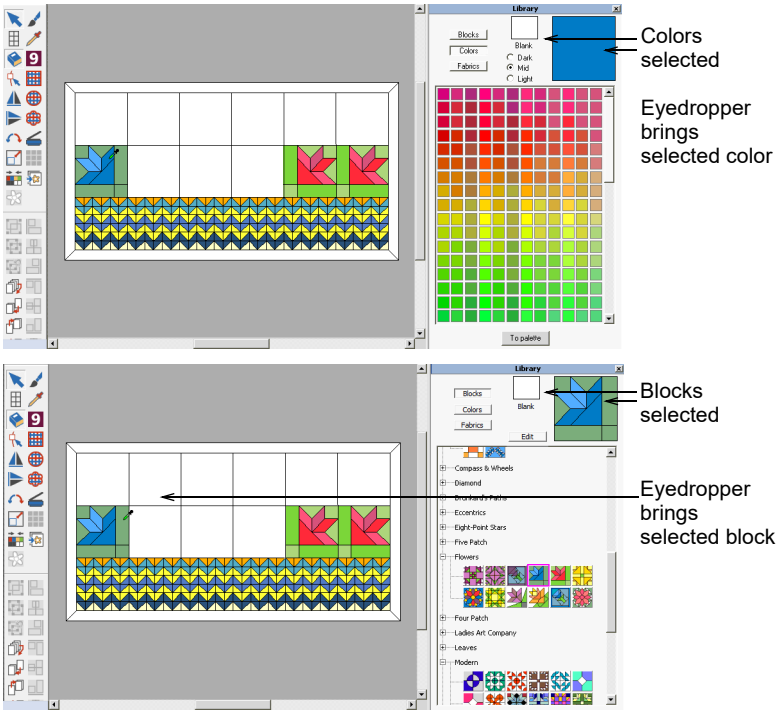
- With the **Select Object** tool selected, click a block.



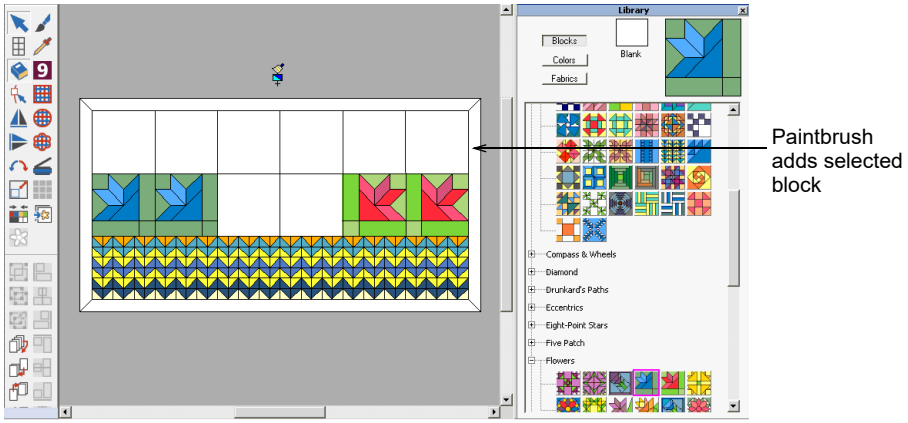
Tip Hold down **Ctrl** to select multiple blocks.

- Alternatively, click the **Eyedropper** icon and select either a patchwork block or fabric:
  - Click the **Blocks** button for patchwork blocks.
  - Click the **Colors** button for plain fabrics.
  - Click the **Fabrics** button for patterned fabrics.

- Select the color, fabric or patchwork block from the quilt or one of the **Palettes Used**. A preview is shown in the **Library Preview** panel.



- Use the **Paintbrush** tool to add a patchwork block or fabric to the quilt.



Lock areas of the quilt

Use Lock > Lock Quilt to lock the whole quilt.

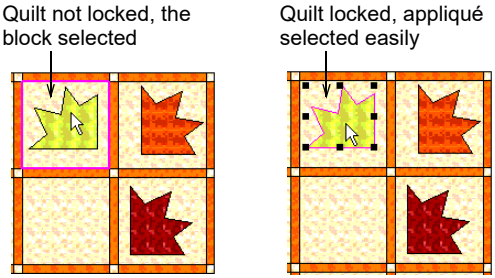
Use Lock > Lock Appliqué to lock the appliqué shapes.

Use Lock > Lock Embroidery to lock the embroidery designs.

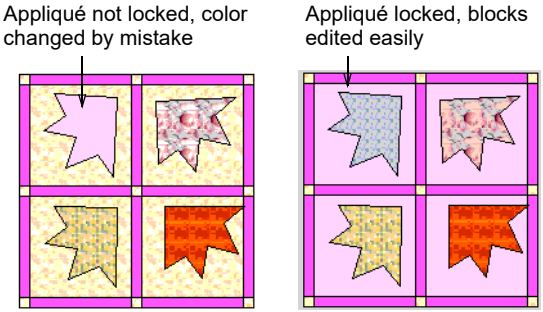
When the quilt is complex, it is easy to select and move parts by accident. Locking the quilt enables you to work on appliqué or embroidery objects without accidently selecting and changing the quilt. Blocks, sashes and borders cannot be selected or moved by accident.

To lock areas of the quilt

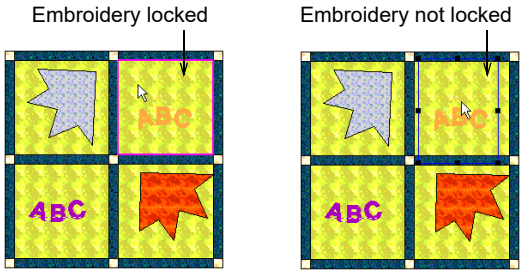
- Select the **Lock Quilt** icon.



- Select **Lock Quilt** again to unlock the quilt.
- Click **Lock Appliqué**.



- Select **Lock Appliqué** again to unlock the appliqué.
- Select **Lock Embroidery**.



- Select **Lock Embroidery** again to unlock the embroidery.

Regroup objects

Click Arrange > Group to group selected objects.

Click Arrange > Ungroup to ungroup selected objects.

Click Arrange > Regroup to regroup previously grouped objects.

Group or ungroup any combination of blocks, pictures, appliqués and embroidery designs in the same way as in BERNINA Embroidery Software. Use the **Regroup** command to regroup all objects that were previously grouped. For example, if you have some appliqué objects that have been grouped, and then ungrouped for editing, you can group them again without having to re-select them. It only works if new objects have not been added to the group.

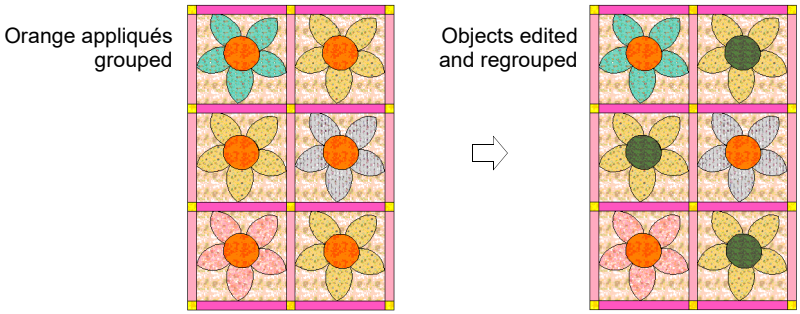
To regroup objects

1 Select a grouped object and ungroup it.

2 Edit the objects if required, then do one of the following:

- Select **Arrange > Regroup**.
- Click the **Regroup** icon on the **Arrange** toolbar.
- Press **Ctrl+R**.

The objects are grouped again.



Related topics

- Grouping & splitting objects

Arrange objects

Use Arrange > Bring to Front to move the selected object to the front.

Use Arrange > Bring Forward to move the selected object one layer forwards.

Use Arrange > Send to Back to move the selected object to the back.

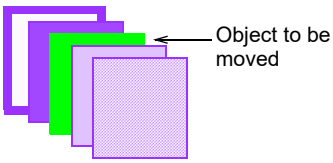
Use Arrange > Send Backwards to move the selected object one layer backwards.

When using embroidery or appliqué objects, it is important to organize them in the correct order so that embroidery, for example, is on the top and background appliqué is on the bottom. Move objects directly to the back or front, or move them backwards or forwards, layer by layer. The front is the top layer, and the back is on the bottom.

Tip Use the layer tools to keep a picture at the front when tracing appliqué objects.

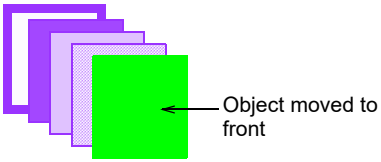
To arrange objects

1 Select the embroidery, appliqué object, or picture.

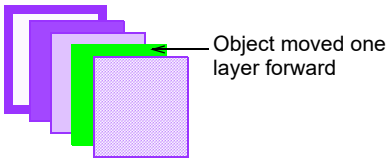


2 Click one of the Layer tools:

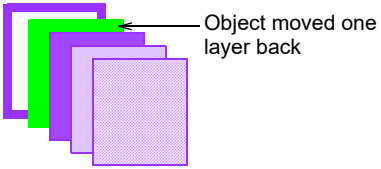
- Bring to Front



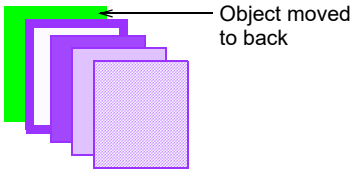
- Move Forwards



- Move Backwards



- Send to Back



Tip An embroidery, appliqué object or picture can be aligned to any block by selecting the object and block, and using the alignment tools as in BERNINA Embroidery Software.

Related topics

- Arranging objects

Duplicating blocks & objects

You can change copy, cut and paste selected blocks, appliqué or embroidery at any time. The difference is that in BERNINA Quilter you can work with patchwork blocks and fabrics, as well as appliqué and embroidery objects.

Copy, cut, paste quilt blocks

Use Edit > Select Object to select blocks or objects.

Use Standard > Copy to copy selected blocks to the clipboard.

Use Standard > Cut to cut selected blocks to the clipboard.

Use Standard > Paste to paste copied blocks from the clipboard.

Use the **Select Object** tool to copy and paste blocks, appliqué or embroidery and the **Paintbrush** tool to copy and paste fabrics.

Note If a block is pasted from one quilt to another, and the quilts have different sized blocks, the pasted block will be resized to fit the new quilt.

To copy, cut & paste quilt blocks

1 Click the **Select Object** tool.

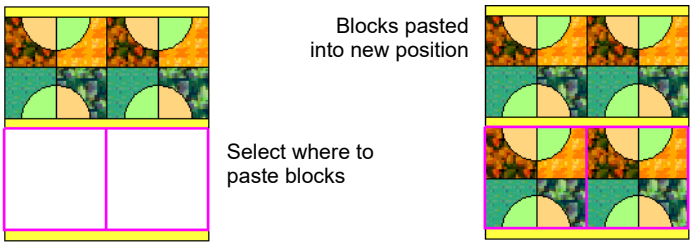
2 Select the block, embroidery or appliqué to be cut or copied, then do one of the following:

- Click the **Cut** icon.
- Select **Edit > Copy**.
- Click the **Copy** icon.
- Press **Ctrl+C**.

- Right-click the object and select **Copy** from the popup menu.

3 Click where the block is to be pasted, then do one of the following:

- Select **Edit > Paste**.
- Click the **Paste** icon.
- Press **Ctrl+V**.
- Right-click the object and select **Paste** from the popup menu.



Add blocks & fabrics to quilts

Use Edit > Paintbrush to add patchwork blocks or fabrics to the quilt.

Use the **Paintbrush** to add patchwork blocks or fabrics from the library to the quilt.

Note Patchwork blocks cannot be added to sashes, sash squares or parts of borders that are not in **Blocks** style.

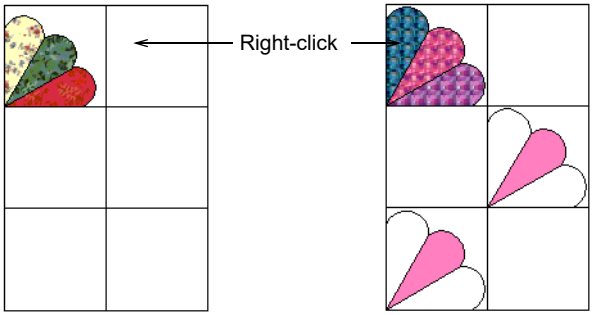
To add blocks and fabrics with Paintbrush

1 Select the **Paintbrush** icon.

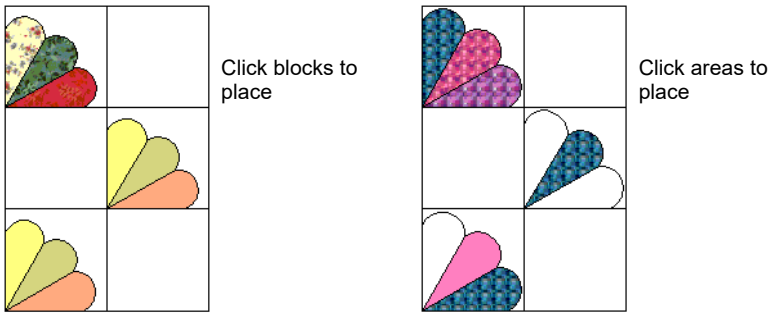
2 Select to add either a patchwork block or fabric:

- Click the **Blocks** button for patchwork blocks.
- Click the **Colors** button for plain fabrics.
- Click the **Fabrics** button for patterned fabrics.

3 On the quilt, select and right-click to copy a patchwork block or fabric.



4 Move the cursor so that it is inside a block on the quilt, then click to place the patchwork block or fabric.



Tip To copy a block or fabric to the whole quilt move the cursor inside a block, then press **Ctrl** and click to copy the picked up design into all blocks on the quilt.

Transforming blocks & objects

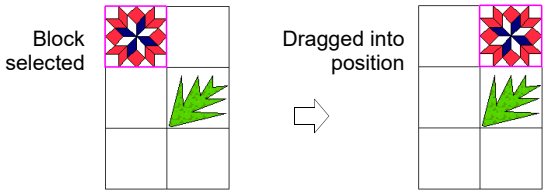
BERNINA Quilter lets you perform various transformations on selected blocks. You can move them, rotate them in a clockwise or counter-clockwise direction. You can also mirror blocks either horizontally or vertically.

Move blocks & objects

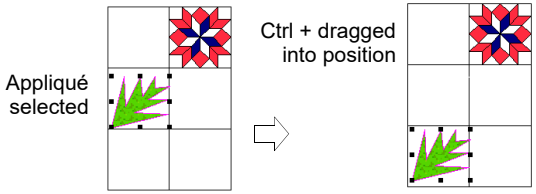
You can move patchwork blocks at any time. Pictures, embroidery or appliqué objects can be moved in the same way.

To move a block or object

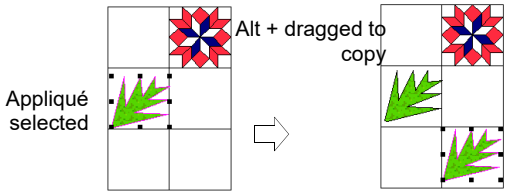
1. Click the **Select Object** tool.
2. Select the block or object to move.
3. Click and drag to a new location.



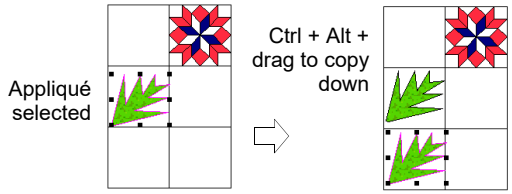
- Use **Ctrl+Drag** to constrain movement up or down.



- Use **Alt+Drag** to copy the object to the new position.



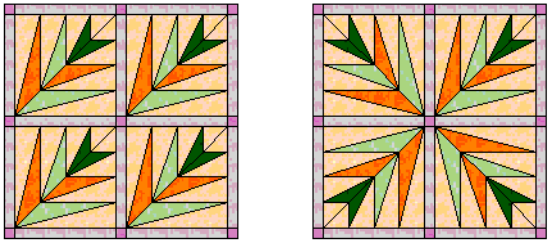
- Use **Ctrl+Alt+Drag** to copy the object to the new position, up or down.



Rotate blocks & objects

Use Edit > Rotate 90°CCW/CW to rotate selected blocks. Click to rotate counter-clockwise. Right-click to rotate clockwise.

You can rotate blocks or objects in a clockwise or counter-clockwise direction. When multiple blocks are selected, each is rotated in its own place.



Any selected picture, embroidery or appliqué can be freely rotated by clicking and dragging its rotate handles.

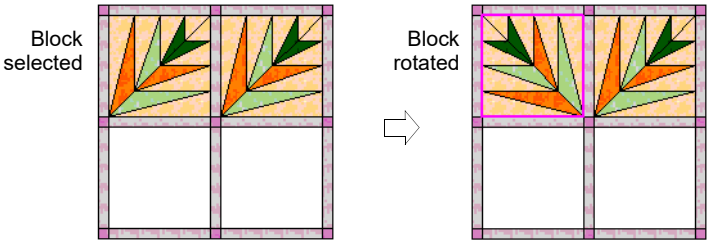
Tip Hold the **Alt** key when rotating an object using rotate handles to create a rotated copy of the original.

To rotate a block or object

1 Select the block or object to rotate.

2 Click the **Rotate 90°CCW/CW** icon.

- Right-click to rotate 90° clockwise.
- Click to rotate 90° counter-clockwise.



Tip You can also rotate objects using click and drag.

Related topics

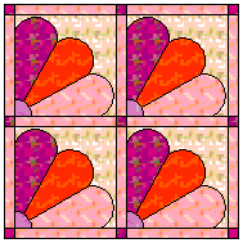
- Editing blocks & objects
- Rotate objects

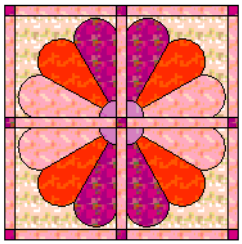
Mirror blocks & objects

Click Edit > Mirror Horizontal to copy and flip selected blocks horizontally.

Click Edit > Mirror Vertical to mirror selected blocks vertically.

You can mirror blocks either horizontally or vertically. When a single block is selected, it is mirrored about its center. When multiple objects are selected, they are mirrored about the center of the total selection.

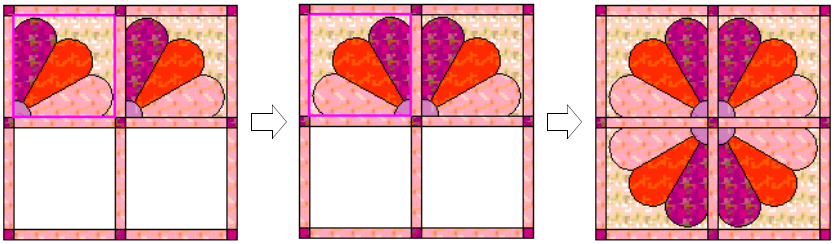




To mirror a block or object

1 Select the block or object to mirror.

2 Click the **Mirror Horizontal** icon to flip horizontally or **Mirror Vertical** to flip vertically.



Related topics

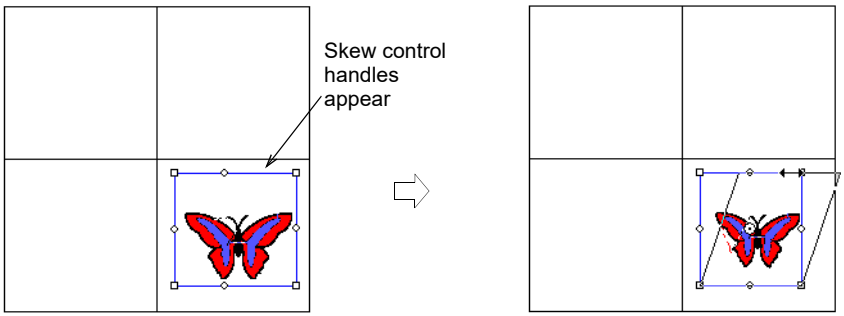
- Editing blocks & objects

Skew objects

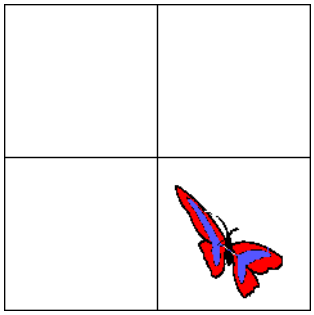
Any picture or appliqué can be skewed in the same way as an object in BERNINA Embroidery Software, except that there are two more skew control handles. Embroidery can be skewed in the BERNINA Embroidery Software design window.

To skew an object

1 Double-click the picture or appliqué object.



2 Skew the object by dragging the skew control handles.



Tip Hold the **Alt** key when skewing to copy an object and skew the copy leaving the original unchanged.

Scale objects

Use Edit > Scale by 20% Down/Up to scale appliqué or embroidery objects.

A picture, embroidery or appliqué can be resized by dragging its resize handles. Any selected picture, embroidery or appliqué object can be resized 20% from its current size by using the **Scale by 20% Down / Up** tool.

To scale an object

- Select the object.
- Click the **Scale by 20% Down / Up** icon to scale down 20%.
- Right-click the **Scale by 20% Down / Up** icon to scale up 20%.

Deleting blocks & objects

You can delete fabrics from individual patchwork pieces using the 'blank block' in the Library. Patchwork blocks can be deleted from the quilt using the 'blank block' or the **Delete** button. Appliqué or embroidery objects can be deleted from the quilt with the **Delete** button.

Delete fabrics using blank blocks

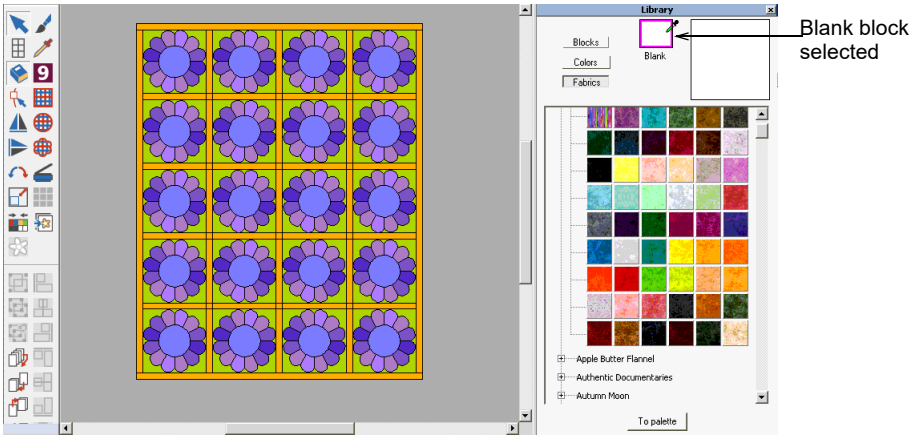
Fabrics can be deleted from individual patchwork pieces using the 'blank block' from the library. This is useful if you need to delete a selection of fabrics from patchwork pieces randomly scattered around the quilt.

To delete fabrics using the blank block

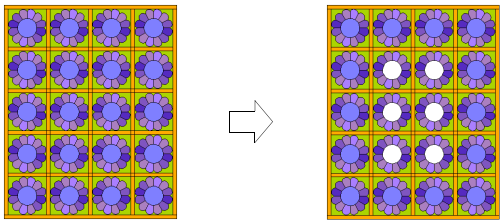
1 Select the **Colors** or **Fabrics** button.

Caution If the **Blocks** button is selected you will delete the patchwork block.

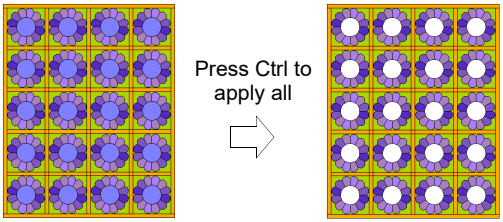
2 In the **Library** dialog, click the **Blank** window. The preview window clears.



3 Select one or more patchwork pieces. The patchwork piece is cleared.



Tip Hold the **Ctrl** key and then click the block or patch to be deleted from the quilt.



Related topics

- Delete objects

Delete blocks

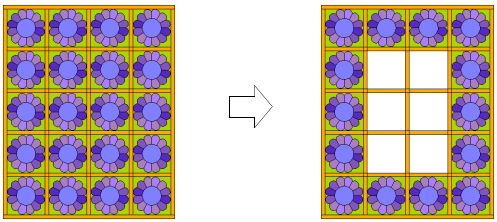
Patchwork blocks can be deleted from the quilt using the 'blank block' or the **Delete** button. This is useful if you need to delete a selection of patchwork blocks randomly scattered around the quilt.

To delete a block

1 Click the **Select Object** icon.
2 Select the **Blocks** button.
3 Select the block/s to be deleted.

4 Do one of the following:

- Click the **Blank** window in the **Library** dialog, or
- Press the **Delete** key.



Original quilt

Blocks button selected

Related topics

- Delete fabrics using blank blocks

Delete objects

Appliqué or embroidery objects can be deleted from the quilt using the **Delete** button in the same way as in BERNINA Embroidery Software.

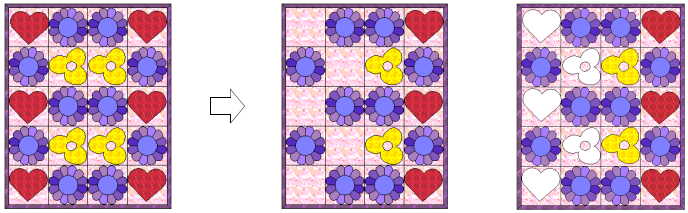
Note Use **Blank** block together with the **Fabrics** button to delete the fabric from appliqués.

To delete an object

1 Click the **Select Object** icon.

2 Select the object/s to be deleted.

3 Press the **Delete** key. The object/s deleted.



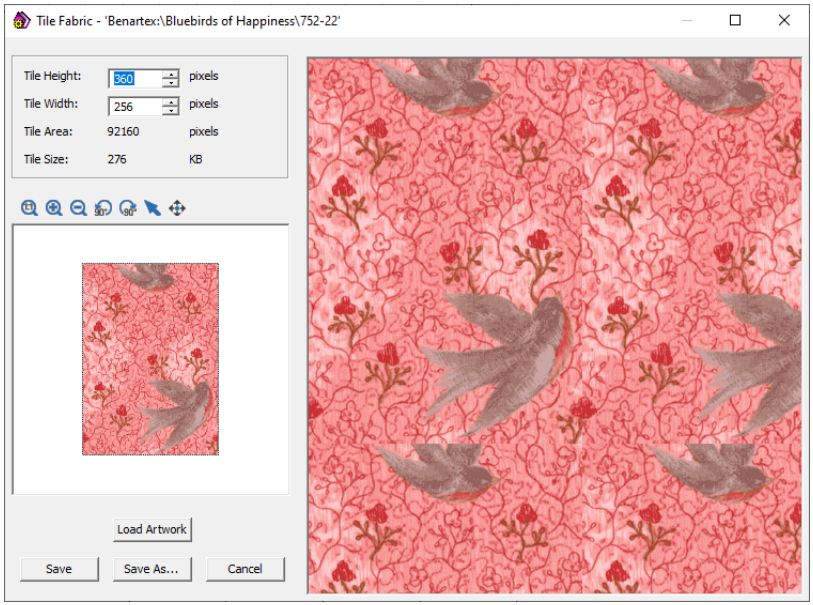
Tip Use **Lock Quilt** to prevent selecting and deleting patchwork blocks by mistake.

Related topics

- Lock areas of the quilt

CHAPTER 4
QUILTER ADVANCED

BERNINA Quilter lets you import pictures to use as patterned fabrics. From a single fabric sample you can create a number of different samples. BERNINA Quilter provides various ways to manage your patterned fabrics. It also lets you create new categories for your patchwork blocks, delete them and transfer blocks between categories.

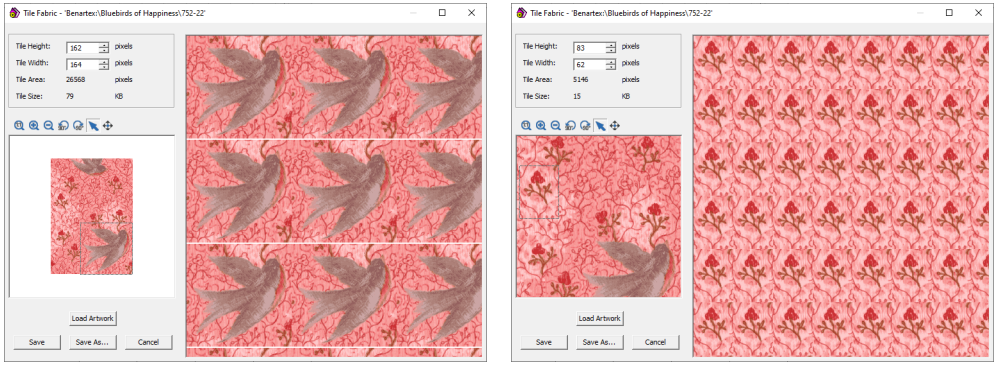


This section provides details of advanced BERNINA Quilter features including managing backdrops and fabric samples, changing the appearance of fabric samples and managing patchwork blocks.

Adjusting tiled areas of fabric

Use Tile Fabric > Select to select an area of the fabric sample.

From the one fabric sample you can create a number of different samples. Each sample can be saved with separate names and in different categories as required.



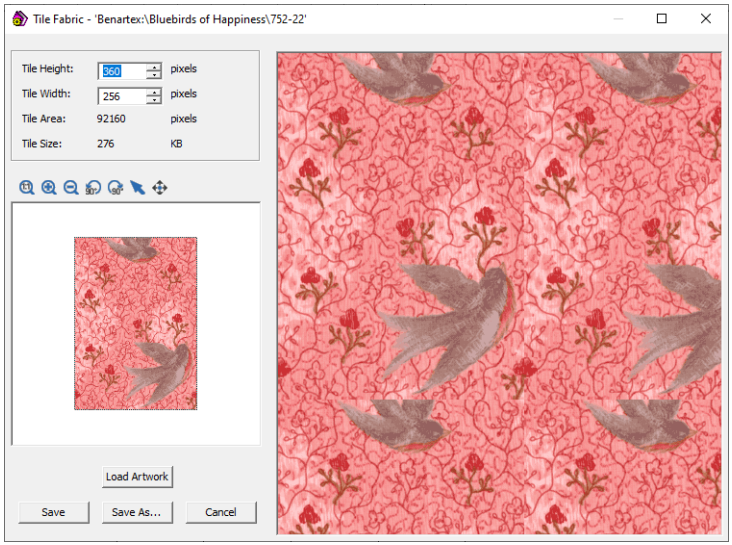
Select different areas to create different fabric samples

Use the **Tile Fabric** dialog to set up patterned fabrics in the way that suits you. You can select and save the exact area of the fabric to be tiled.

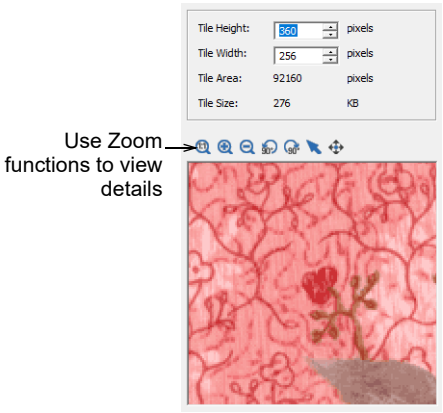
To adjust a tiled area of fabric

1 Select a fabric from the library.

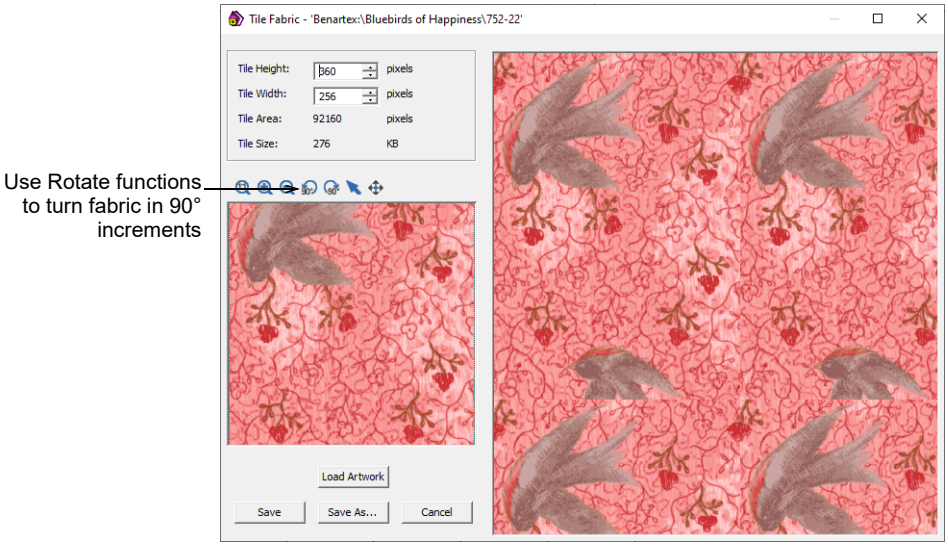
2 Double-click the fabric. The **Tile Fabric** dialog opens.



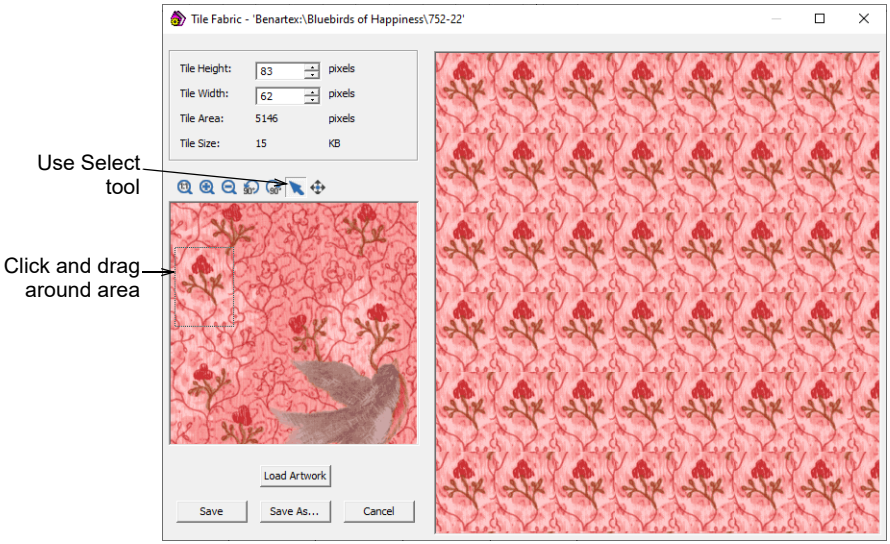
3 Use the **Zoom** functions to make it easier to view and select a small area.



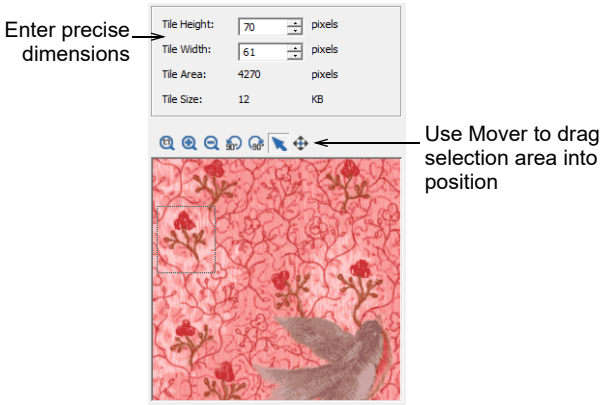
4 Use the **Rotate** tools to turn the fabric by 90°, either right or left. The preview window displays any changes.



5 Use the **Select** tool to click and drag a rectangle around the area to be displayed in the fabric sample.

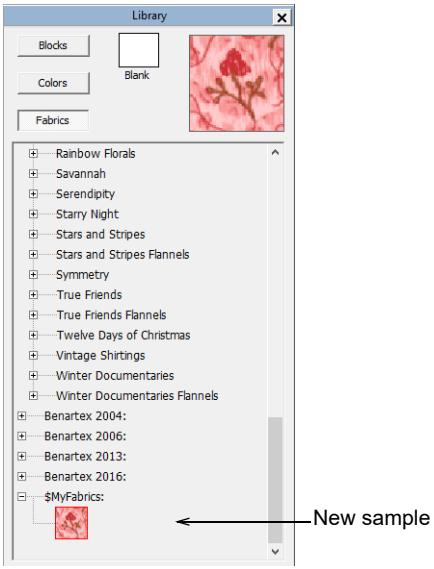


6 If you need to resize the selection rectangle to an exact size, enter the dimensions. Press **Enter** to confirm.



7 Use the **Mover** tool to reposition the selection area as needed.

Tip Click **Save As** to save the sample to a custom library.



Related topics

- Managing backdrops & fabric samples

Managing backdrops & fabric samples

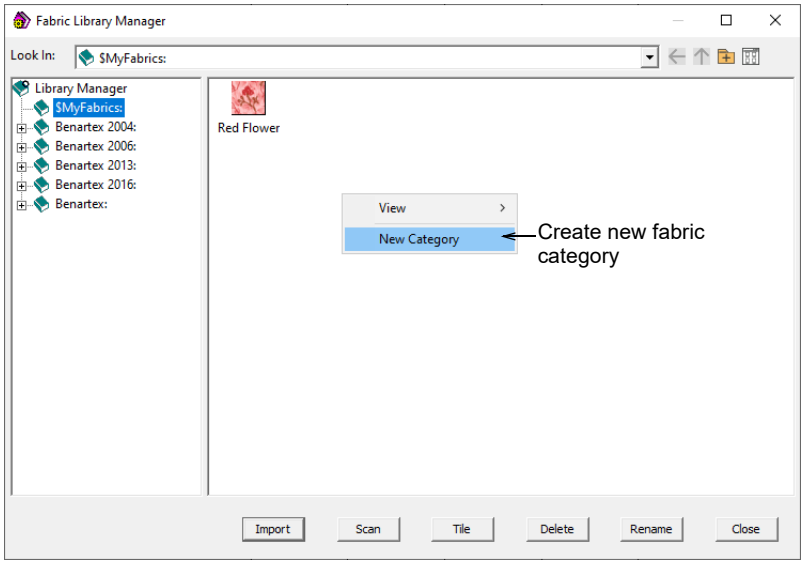
Images can be inserted or scanned into BERNINA Quilter for use as digitizing backdrops or as fabric samples. Fabrics can be either plain or patterned. Plain fabric samples are stored in the **Colors Library** and patterned fabrics are stored in the **Fabrics Library**. BERNINA Quilter provides various ways to manage your patterned fabrics. See also Scan backdrops & fabrics.

Create fabric categories

The **Fabric Library Manager** dialog lets you create your own fabric categories to organize and classify your patterned fabrics.

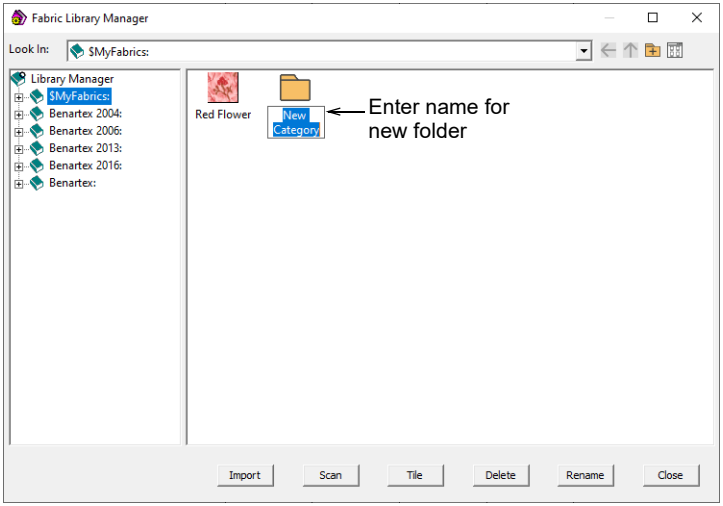
To create a fabric category

1 Select **File > Manage Fabrics**. The **Fabric Library Manager** dialog opens.



2 Browse to the location you require.

3 Right-click in the display window and select **New Category** from the popup list. A **New Category** folder is created.



Tip You can also create new categories using the **Create New Categories** icon.

4 Enter a name for the new folder.

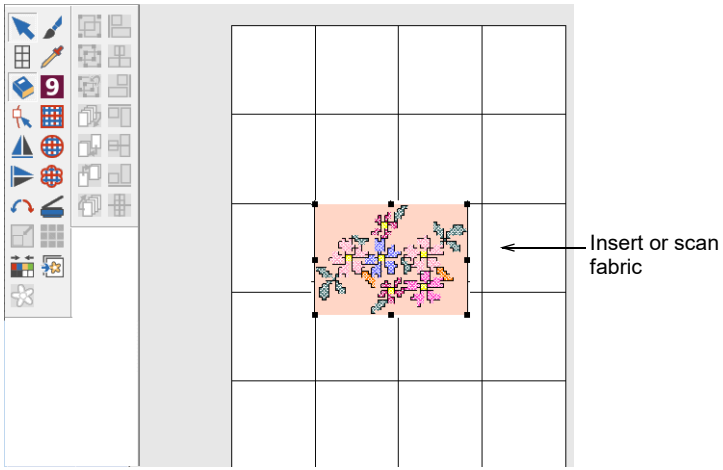
Create fabric samples

Select Edit > Tile Fabric to create your own fabric.

The **Tile Fabric** dialog lets you create your own fabric samples and save them in your own categories.

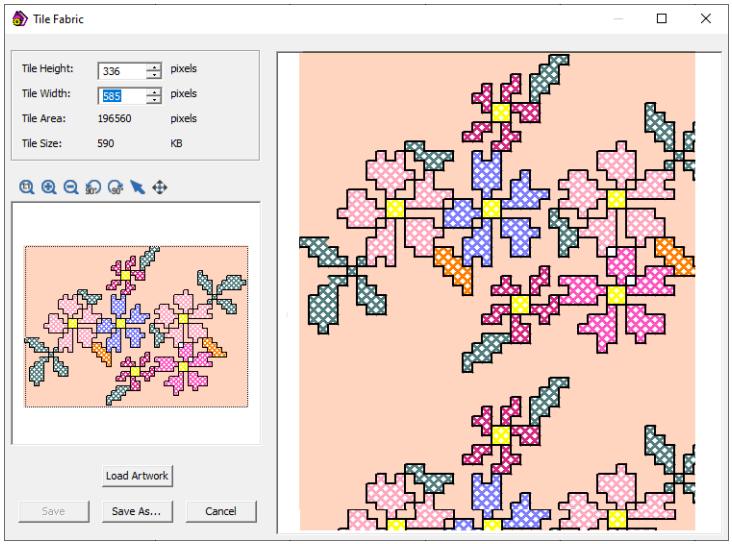
To create a fabrics sample

1 Insert or scan a fabric.



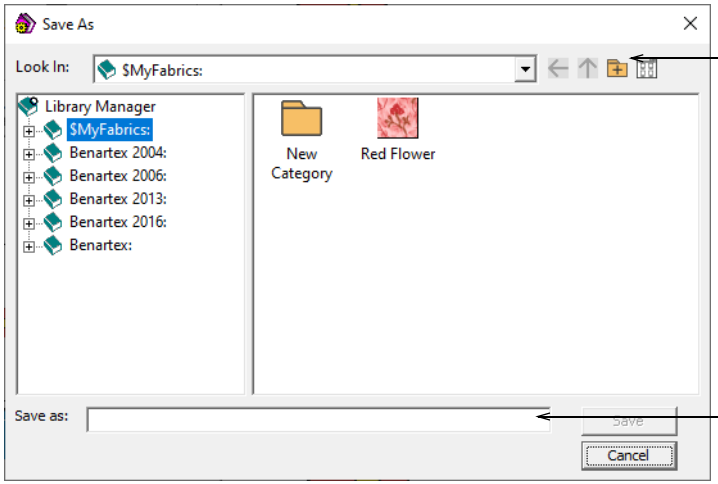
2 Select the fabric image.

3 Select the **Tile Fabric** icon. The **Tile Fabric** dialog opens.



4 Click the **Select** icon and select the area of fabric to be used.

5 Click **Save As**. The **Save As** dialog opens.



6 Select a folder from the **Library Manager** or click **Create New Folder** icon to create a new folder.

7 Enter the name of the new file in the **Save As** field and click **Save**.

Related topics

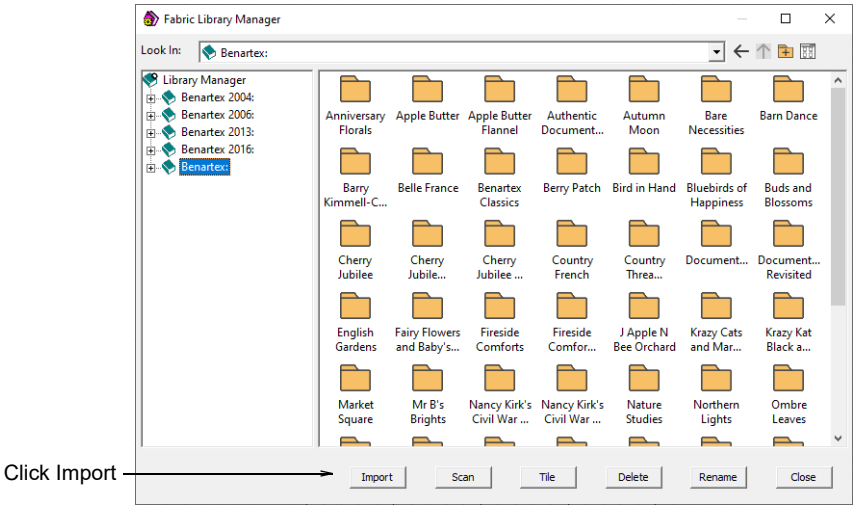
- Using images
- Adjusting tiled areas of fabric

Import fabrics

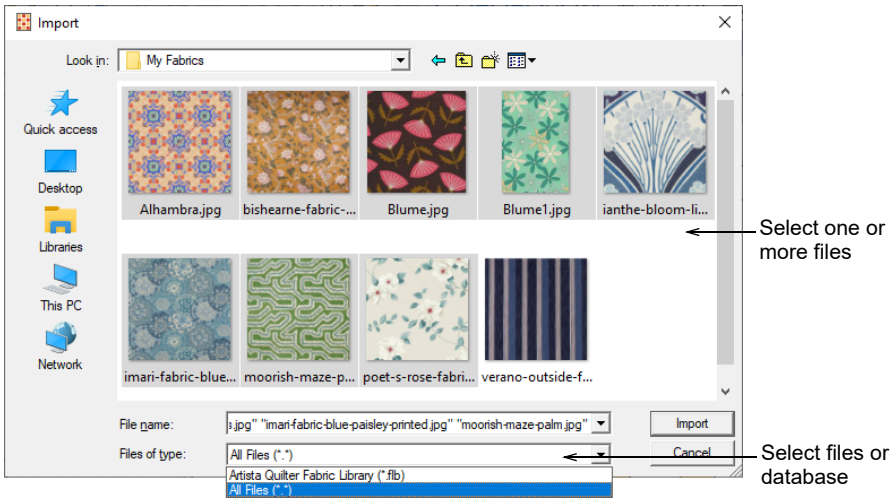
The **Fabric Library Manager** dialog lets you import BMP or JPG files.

To import a fabric

1 Click **File > Manage Fabrics**. The **Fabric Library Manager** dialog opens.



2 Click **Import**. The **Import** dialog opens.



3 Select a file type from the **Files of Type** dropdown list. You have a choice of *.FLB 'Quilter Fabric Library' files or bitmap images – e.g. JPG.

4 Browse to the file location and select the file/s to import.

Tip Batch import of fabrics is possible by selecting several files during import. A file import limit is determined by file name length. We recommend using short file names.

5 Click **Import**. The selected files are added to the library. Move new fabrics to a suitable folder or create a new folder for your own fabric samples.

Related topics

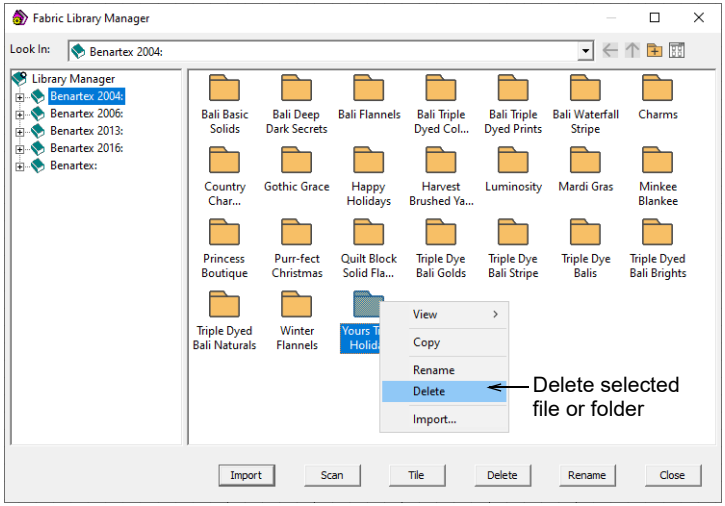
- Create fabric categories

Delete fabrics & categories

The **Fabric Library Manager** dialog lets you delete fabric categories when they are no longer needed.

To delete a fabric or category

1 Select **File > Manage Fabrics**. The **Fabric Library Manager** dialog opens.



2 Select a sample or category, right-click and select **Delete** from the popup menu or simply press **Delete**.

A confirmation message appears. Note that it is possible to delete predefined fabric libraries such as BENARTEX from BERNINA Quilter.

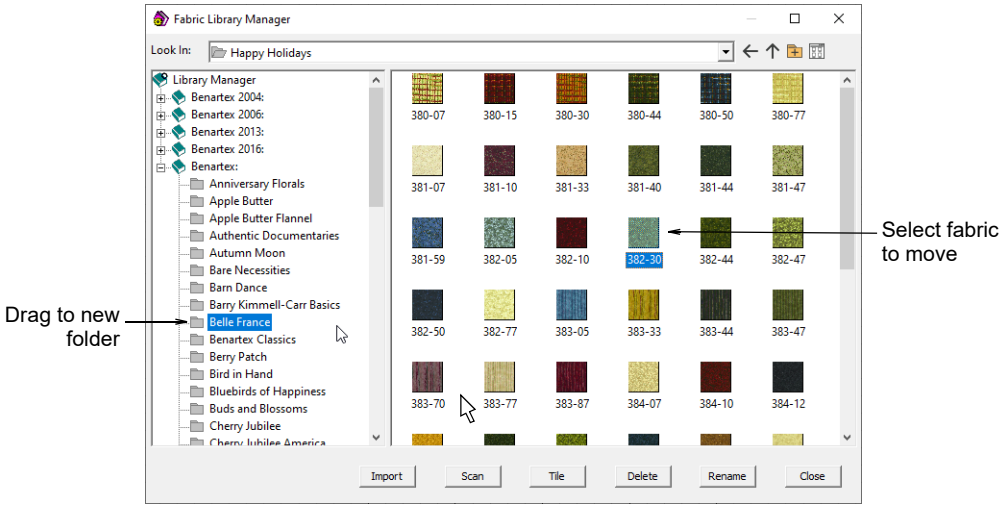
3 Click **Yes**.

Move fabrics to other categories

The **Fabric Library Manager dialog** lets you move your patterned fabrics to other categories.

To move a fabric to another category

1 Select **File > Manage Fabrics**. The **Fabric Library Manager** dialog opens.



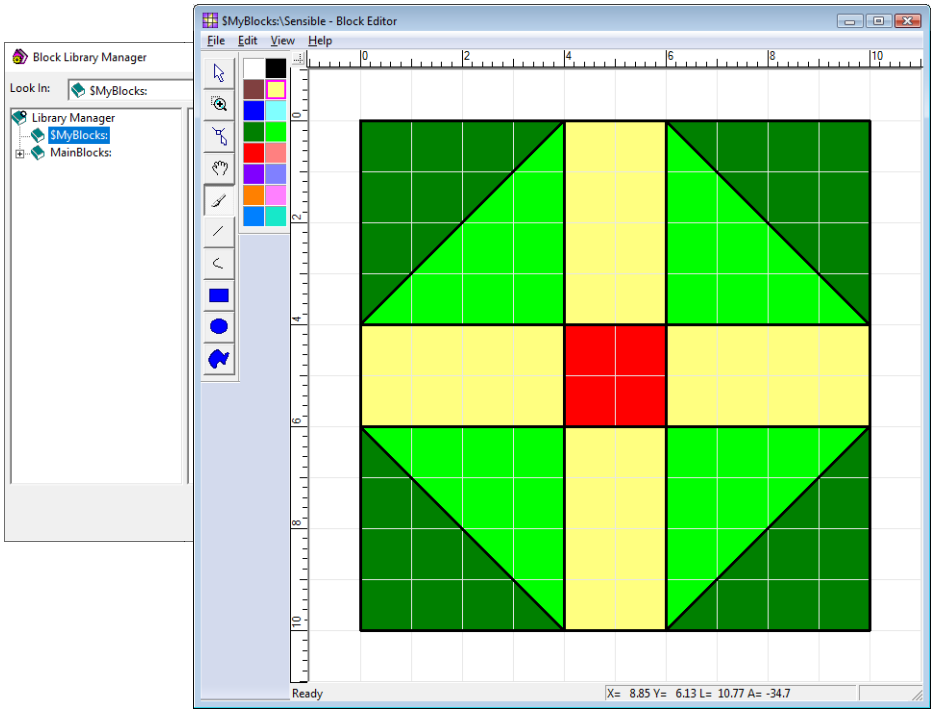
2 Select a fabric sample to move.

3 Drag the fabric sample to the new folder in the left window. A confirmation message appears.

Creating custom patchwork blocks

BERNINA Quilter allows you to create your own block libraries and import new blocks to them. It also includes a block editor which lets you define

your own square blocks. You can also create your own block categories, delete them and transfer blocks between categories.

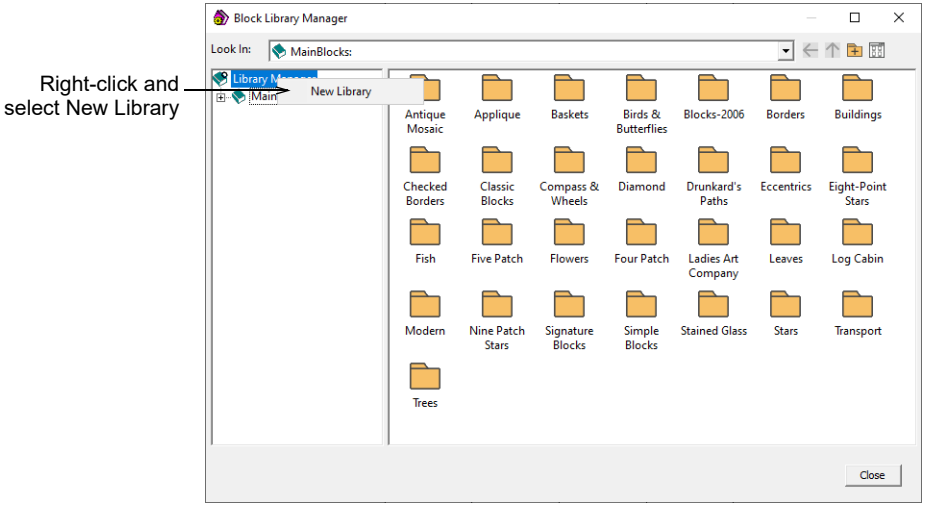


Create custom libraries

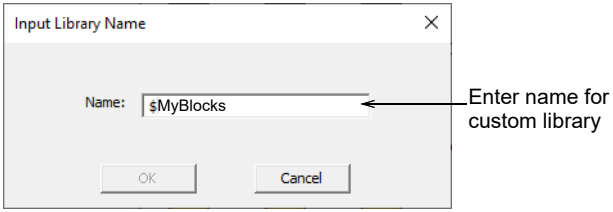
The **Block Library Manager** lets you create your own block libraries to store custom blocks.

To create a custom library

1 Click **File > Manage Blocks**. The **Block Library Manager** dialog opens.

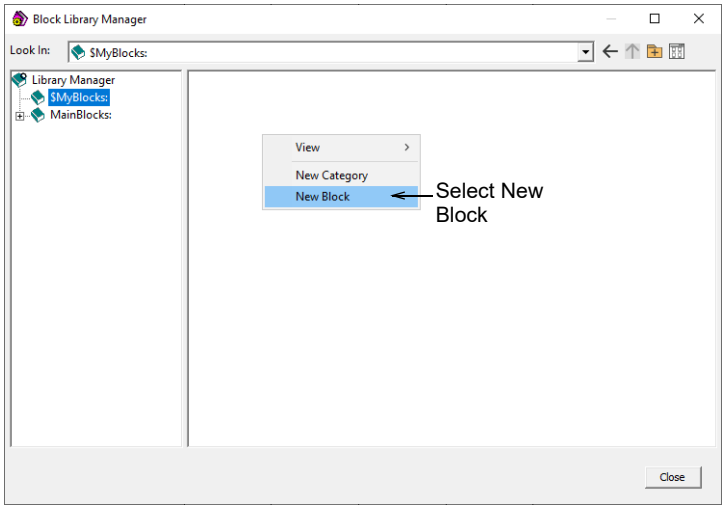


2 Right-click the **Library Manager** icon and select **New Library** from the popup menu. The **Input Library Name** dialog opens.



3 Enter a name for your library and click **OK**. The '$' sign prefix denotes a custom library.

4 Select the new library and right-click within the window.



5 Select **New Block** from the popup menu. A new blank block is added to the library.

6 Give it a name and close the block library manager.

You can now edit your freshly created blocks in the **Block Library**.

Note You can create as many sub-categories in your custom library as required.

Related topics

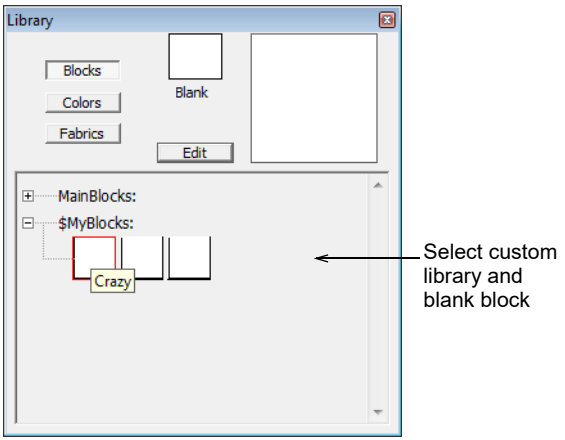
- Create custom blocks
- Organize custom blocks

Create custom blocks

Once you have defined a block library to store your custom blocks and have added as many blanks as needed, you can edit them in the **Block Editor**.

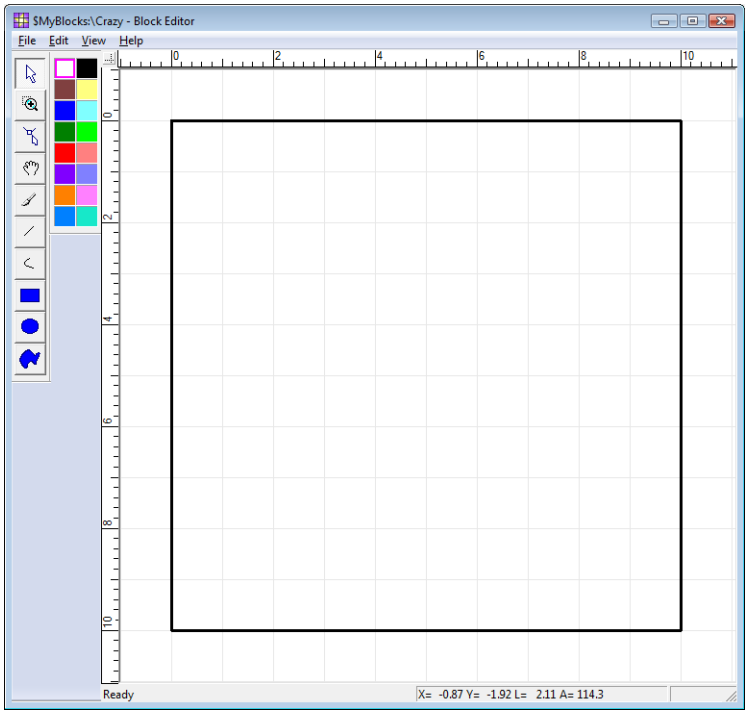
To create a custom block

- In the library, select your custom library.

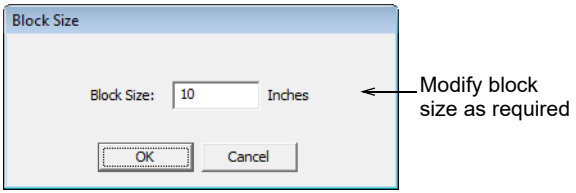


- Select a blank block and click the **Edit** button.

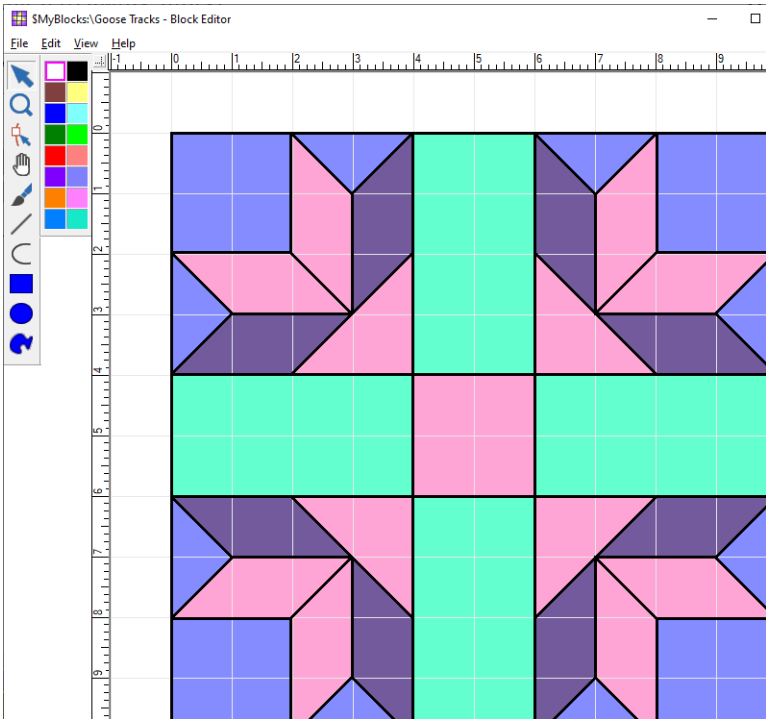
The selected blank block opens in the **Block Editor**. The blank block defaults to the 10x10 grid standard for quilt blocks.



- If required, adjust block size via the **Edit > Block Size** command.



- Use the drawing tools and color palette to edit the blank block.



Note Reshaping lines in a block causes any current colors to be removed. This is correct behavior as reshaping an area can change its geometry, making existing colors invalid.

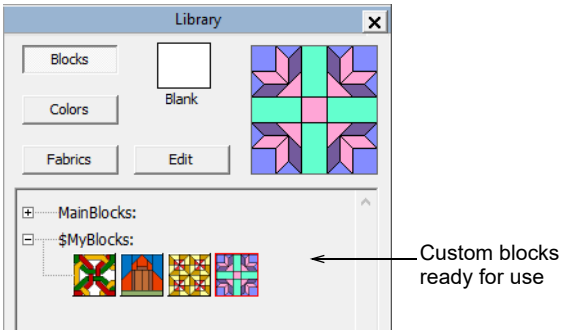
In general the drawing tools work the same way as in BERNINA Embroidery Software:

Tool	Purpose
	Use Select Shapes to select any lines drawn in the design window.
	Use Zoom Box to zoom in on details in your design. Use in conjunction with Pan.
	Use Reshape to modify selected lines in the block. Click and drag them as required. Right-click to add reshape nodes.
	Use Pan to click and drag the design within the editor window when working at high zoom factors.
	Use Color in conjunction with the color palette to color in selected areas of the block.
	Use Line to draw lines and divide up the grid as required.
	Use Curve to create curved lines.
	Use Solid Rectangle to create rectangular shapes in the currently selected color.
	Use Solid Circle to create circular shapes in the currently selected color.
	Use Solid Shape to create any shape in the currently selected color.

Tip When a block is zoomed out to the maximum, you will need to reselect the **Zoom Box** icon and redraw the zoom box in order to zoom in again.

- Use the **View > Snap to Grid** command to force the draw tools to conform to the grid.
- Use the **View > Smart Snap** command to force the draw tools to always join lines whether or not they conform to the grid.

- When satisfied with the block, select **File > Save**. The block is now available for use in the **Block Library**.

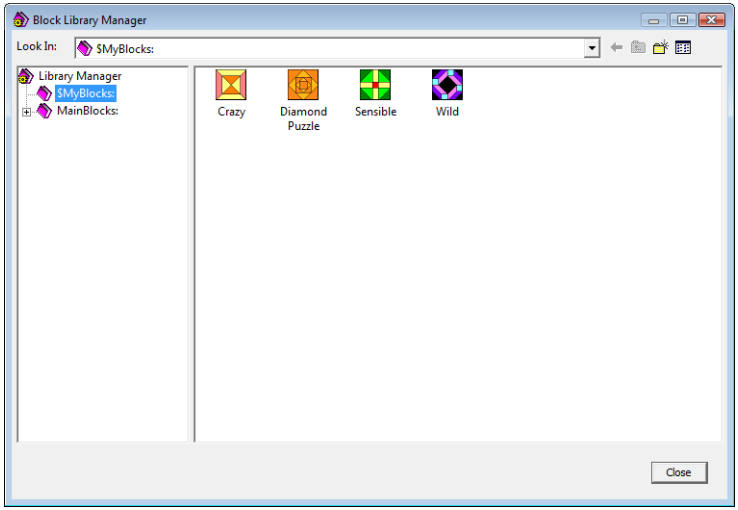


Organize custom blocks

The **Block Library Manager** dialog lets you create block categories to organize and classify your patchwork blocks. You can also delete individual blocks and block categories when they are no longer needed.

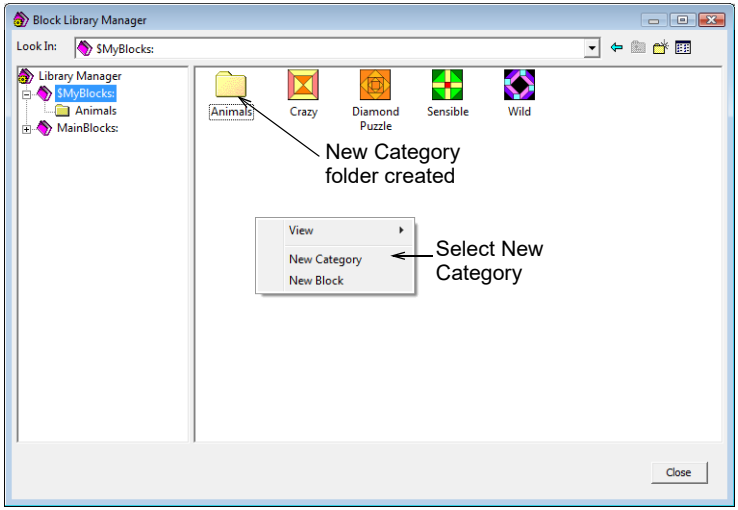
To organize custom blocks

- Click **File > Manage Blocks**. The **Block Library Manager** dialog opens.



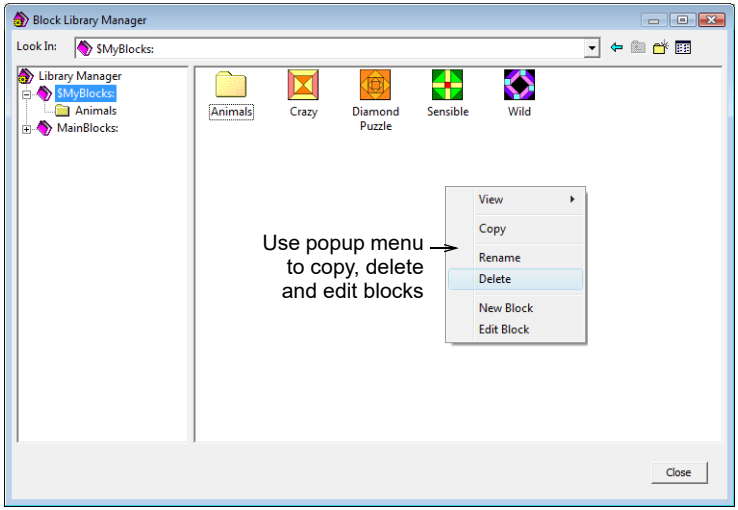
- Browse to a custom library. The '$' sign prefix denotes a custom library.
- Right-click in the display window and select **New Category** from the popup list.

Alternatively, click the **Create New Categories** icon at the top of the dialog.



- Enter a name for the new folder.

- To delete a block or category, right-click and select **Delete** from the popup menu.



- Use the same popup menu to copy and paste blocks between folders.

Tip You can copy favorite factory-defined blocks from protected folders to your own custom folders.

- Use the popup to rename blocks or edit them as required.

Related topics

- Create custom libraries
- Create custom blocks

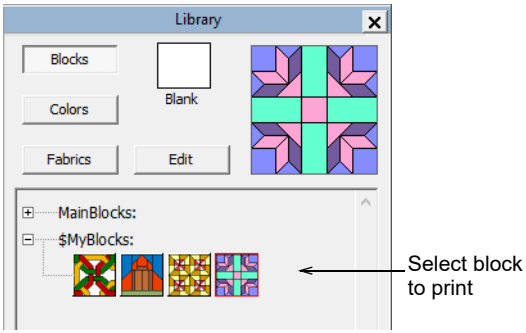
Print rotary cutting instructions

You can print rotary cutting instructions for your own custom blocks from within the **Block Editor**.

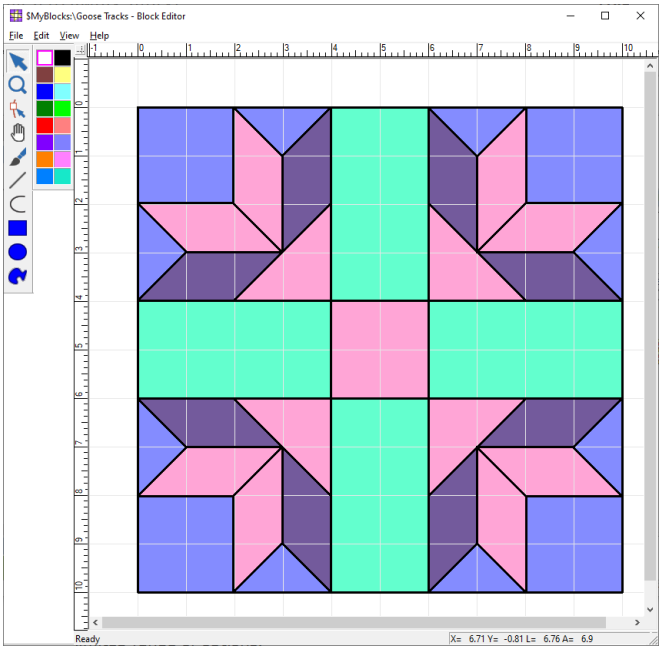
Note Not all patches can be rotary cut. Only blocks that are comprised of simple 3- or 4-sided shapes are suitable. Thus some patches may not appear in the rotary cutting instructions.

To print the rotary cutting instructions

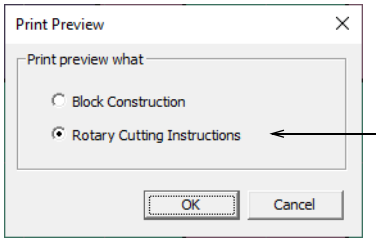
1 In the library, select the block you want to print.



2 Click **Edit** to access the **Block Editor**.

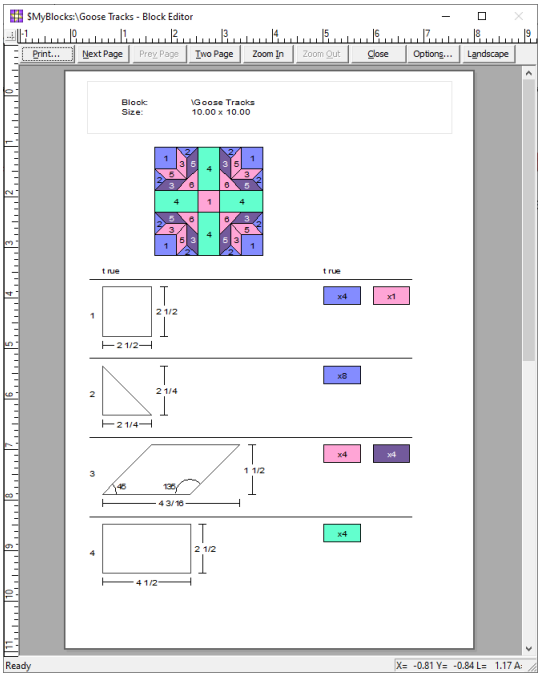


3 Select **File > Print Preview**. The **Print Preview** dialog opens with a limited range of options.

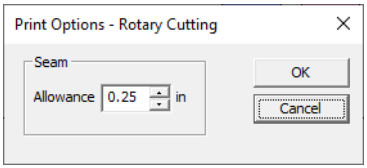


Select Rotary Cutting Instructions

4 Select **Rotary Cutting Instructions** and click **OK**. The selected block displays in the preview window.

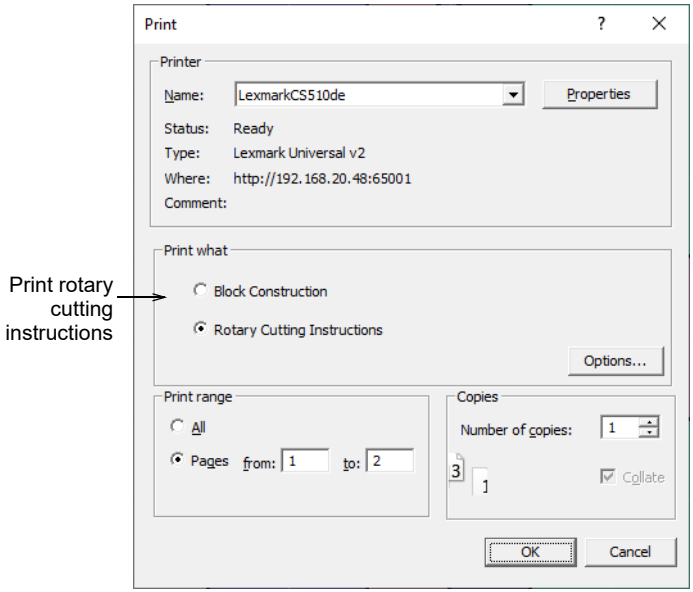


5 Click **Options** to change seam allowance.



6 Click the **Print** button to print out a copy of the cutting diagrams.

Note The **File > Print** command gives you a similar set of options.



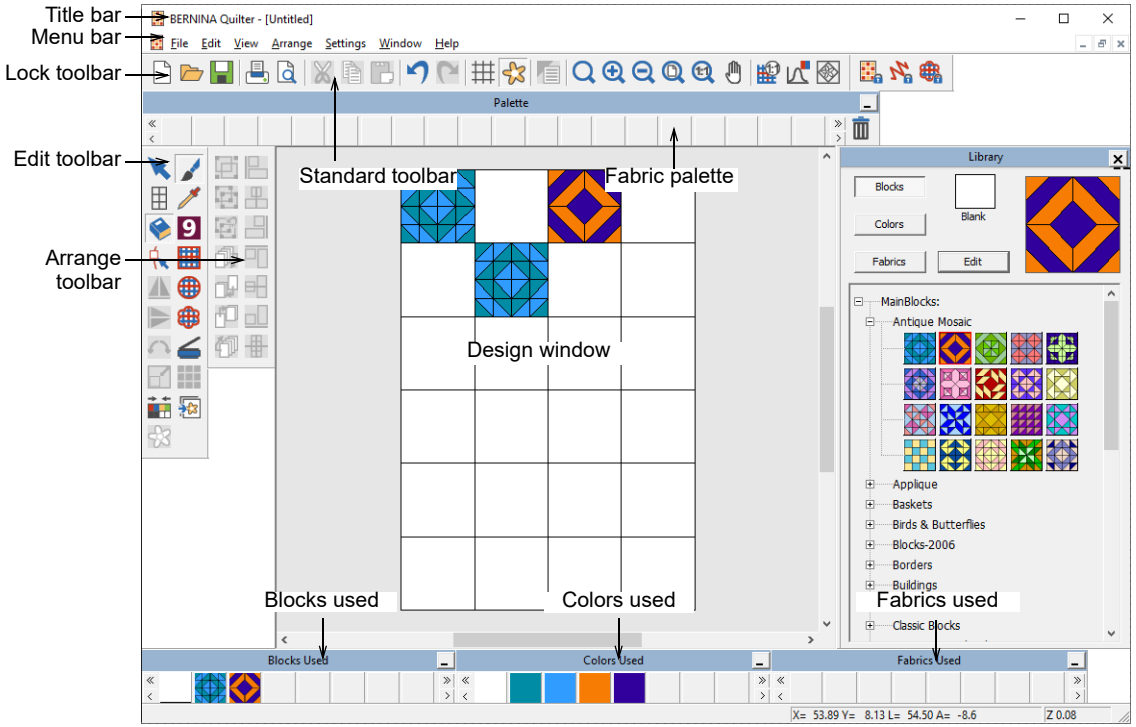
Related topics

- Print quilt designs
- Printing quilt designs & blocks
- Print patchwork blocks
- Print rotary cutting instructions

APPENDIX A
QUILTER QUICK REFERENCE

This Quick Reference details all menu options and toolbars available in BERNINA Quilter.

BERNINA Quilter design window



BERNINA Quilter window menu bar

The BERNINA Quilter window menu bar contains the pulldown menus described below. Some are also available as toolbar buttons.

Note Standard 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 Quilt	Open new empty quilt design.
Open	Open design.
Close	Close current design window.
Insert Embroidery	Insert existing embroidery design.
Load Artwork	Insert existing image.
Save	Save current design.
Save As	Save current design to with a different name, location or format.
Quilt Properties	Add comments about quilt design for printing on worksheet.
Print	Print design.
Print Preview	Show design worksheet. Print a worksheet from this window.
Tile Fabric	Opens the Tile Fabrics dialog.
Manage Fabrics	Opens the Manage Fabrics dialog.
Manage Blocks	Opens the Manage Blocks dialog.
Recent File List	List most recently used files. Select to open a file.
Exit	Close all open designs and exit BERNINA Quilter program.

Edit menu

Undo	Cancel last command.
Redo	Re-apply cancelled commands.
Cut	Delete selection and places it on clipboard.
Copy	Copy selection to clipboard.
Paste	Paste contents of clipboard to design window.
Duplicate	Duplicate selection and place it on current selection.
Delete	Delete selection without placing it on clipboard.
Select All Applique	Select all applique objects in design.
Lock Applique	Lock all applique objects so they cannot be moved accidently.
Lock Embroidery	Lock all embroidery objects so they cannot be moved accidently.
Lock Quilt	Lock all the quilt so it cannot be changed accidently.
Deselect All	Deselect all selected objects in design.
Edit Embroidery	Open the embroidery in BERNINA Embroidery Software to edit.

View menu

Show 1:1	Show quilt at correct size.
Show All	Show whole quilt.

Zoom In 2X	Zoom in to quilt by factor of two.
Zoom Out 2X	Zoom out of quilt by factor of two.
Zoom Box	Zoom selected area to full window size.
Artwork	Show or hide background picture.
Grid	Show or hide grid and sets grid size and spacing.
Measure	Measure block or object size.
Toolbars	Show or hide toolbars.

Arrange menu

Mirror Horizontal	Mirror selected object/s horizontally about center.
Mirror Vertical	Mirror selected object/s vertically about center.
Group	Group selected objects into one object.
Ungroup	Separate grouped object into component objects.
Regroup	Group previously grouped objects after ungrouping.
Bring to Front	Bring selected object to the front.
Bring Forward	Bring selected object one layer towards the front.
Send Backward	Send selected object one layer towards the back.
Send to Back	Send selected object to the back.

Settings menu

Object Properties	Adjust properties for selected shapes.
Options	Adjust settings for display window.
Display Setup	Calibrate screen.
Scanner Setup	Set scanner options.

Window menu

New Window	Open new window.
Cascade	Align open windows.
Tile Horizontally	Tile open windows horizontally.
Tile Vertically	Tile open windows vertically.
Arrange Icons	Arrange icons in design window.

Help menu

Help Topics	List online help topics.
Reference Manual	Open User Guide in Adobe Acrobat PDF format.
About	Show BERNINA Embroidery Software version information.
Bernina International Home Page	Open BERNINA® International web site.
Bernina of America Home Page	Open BERNINA® of America web site.
Embroidery online	Open Embroidery Online web site.
Access code order form	Open Access Code online order form.

The BERNINA Quilter window contains the toolbars described below. Some are shortcuts to the pulldown menu commands.

Lock toolbar

	Lock quilt	Lock the whole quilt.
	Lock embroidery	Lock the embroidery design.
	Lock appliqué	Lock the appliqué shapes.

Standard toolbar

	New	Same as File > New
	Open	Same as File > Open
	Save	Same as File > Save
	Print	Prints design using current print settings.
	Print preview	Same as File > Print Preview
	Cut	Same as Edit > Cut
	Copy	Same as Edit > Copy
	Paste	Same as Edit > Paste
	Undo	Same as Edit > Undo
	Redo	Same as Edit > Redo
	Show grid	Same as View > Grid
	Show/hide artwork	Same as View > Picture
	Object properties	Same as Settings > Object Properties
	Zoom box	Same as View > Zoom Box
	Zoom in 2X	Same as View > Zoom In 2X
	Zoom out 2X	Same as View > Zoom Out 2X
	Show all	Same as View > Show All
	Show 1:1	Same as View > Show 1:1
	Pan	View parts of a design which are not currently visible in the design window.
	Show fabric 1:1	Show fabrics at actual size.
	Show fabric average color	Show fabrics with averaged colors.
	Show outlines	Show only black outlines of the quilt blocks.

Edit toolbar

	Select object	Select object for sizing, moving, mirroring or rotating.
	Quilt layout	Set up number and arrangement blocks in the quilt.
	Library	Display and choose patchwork blocks.
	Reshape appliqué	Reshape selected applique objects.

	Mirror horizontal	Same as Arrange > Mirror Horizontal
	Mirror vertical	Same as Arrange > Mirror Vertical
	Rotate 90 left / right	Rotate selected objects in 45° increments. Click to rotate counter clockwise. Right-click to rotate clockwise.
	Scale by 20% down / up	Scale selected object in 20% increments. Click to reduce object/s. Right-click to increase object/s.
	Adjust hue/ brightness	Adjust hue or brightness of the whole quilt or selected objects.
	Dim artwork	Dim or brighten image to show quilt more clearly.
	Paintbrush	Select and add patchwork blocks to the quilt.
	Eyedropper	Select a patchwork block or fabric.
	Embroidery window	Open a separate embroidery window.
	Rectangular appliqué	Draw rectangle or square appliques.
	Oval appliqué	Draw ovals or circle appliques.
	Draw appliqué	Draw appliqué shapes.
	Scan artwork	Scans picture into BERNINA Embroidery Software.
	Tile fabric	Show the fabric tiled over the complete design window.
	Load artwork	Insert image in design window.

Arrange toolbar

	Group	Same as Arrange > Group
	Ungroup	Same as Arrange > Ungroup
	Regroup	Same as Arrange > Regroup
	Bring to front	Same as Arrange > Bring to Front
	Bring forward	Same as Arrange > Bring Forward
	Send backward	Same as Arrange > Send Backwards
	Send to back	Same as Arrange > Send to Back
	Align left (vertical)	Left-align selected objects.
	Align center (vertical)	Vertically align centers of selected objects.
	Align right (vertical)	Right-align selected objects.
	Align top (horizontal)	Aligns top of selected objects.
	Align middle (horizontal)	Horizontally align centers of selected objects.
	Align bottom (horizontal)	Align bottoms of selected objects.
	Align centers	Align centers of selected objects to design center.

Keyboard Shortcuts

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

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
Measure distances	M	
Show at 1:1 scale (100%)	1	
Show entire design	0	
Show outlines	Ctrl + L	
Draw a zoom box	B then	
Zoom in 2x	Z	wheel
Zoom out 2x	Shift + Z	wheel

Edit designs

To	Press
Redo command	Ctrl + Y
Undo command	Ctrl + Z
Cut selection	Ctrl + X
Copy selection	Ctrl + C
Paste selection	Ctrl + V
Duplicate object	Ctrl + D
Delete selection	Delete
Select all appliqué	Ctrl + A
Lock appliqué	Ctrl + Shift + A
Lock embroidery	Ctrl + Shift + E
Lock quilt	Ctrl + Shift + Q
Deselect all	X
Edit embroidery	E

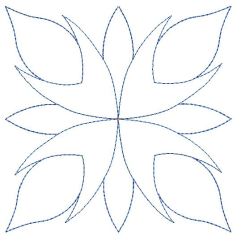
Arrange selections

To	Press
Group selection	Ctrl + G
Ungroup selection	Ctrl + U
Regroup selection	Ctrl + R
Bring selection to front	Shift + Page Up
Bring selection forward	Page Up
Send selection backwards	PageDown
Send selection to back	Shift + PageDown

APPENDIX B
STENCIL QUILT DESIGN SAMPLES

The Holice Turnbow stencil quilt design samples shown in this appendix are a sample of those included with your BERNINA Embroidery Software program. (The online manual contains the full range of Holice Turnbow stencil quilt design samples. You can access it from your BERNINA Embroidery Software Help menu.) The actual designs (ART designs) can be found in your **My Designs/Holice Turnbow Stencil Quilt Designs** folder. A number of designs are provided in both smaller and larger formats – e.g. HT105 and HT105LG.

Designs contained in the folder **Holice Turnbow Stencil Quilt Designs** were created by Holice Turnbow. These designs are protected under copyright for the exclusive use of registered owners of the BERNINA Embroidery Software software. Designs cannot be shared, transferred, sold, or copied to other electronic products, nor to anyone who does not own the BERNINA Embroidery Software software product.

ID	Sample
HT102	
HT103	

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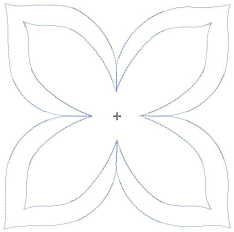
HT104	

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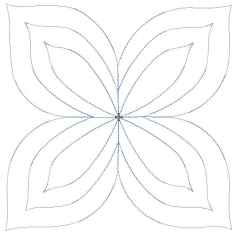
HT105	

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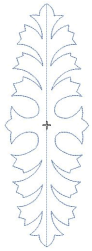
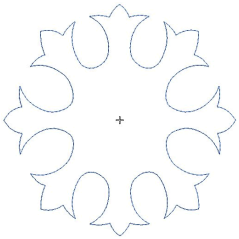
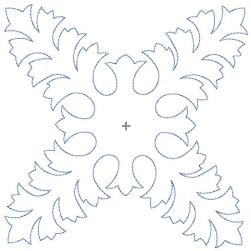
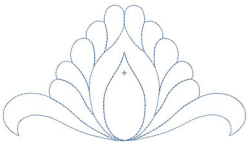
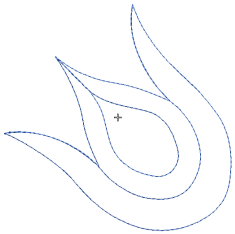
HT106	
HT107	
HT108	
HT109	
HT110	

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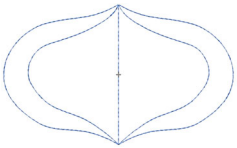
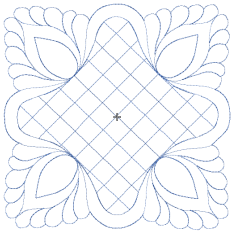
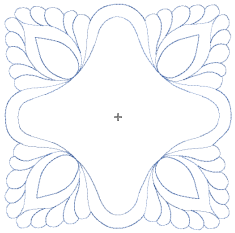
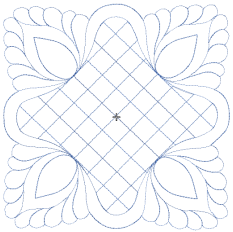
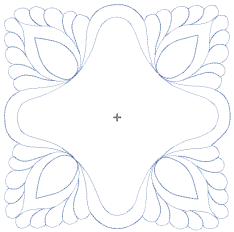
HT111	
HT112	
HT112-2	
HT113	
HT113-2	

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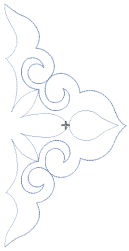
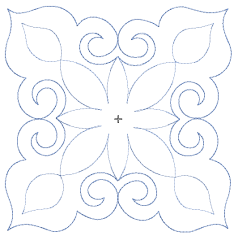
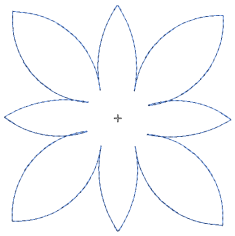
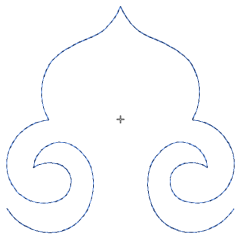
HT114	
HT115	
HT115-2	
HT116	

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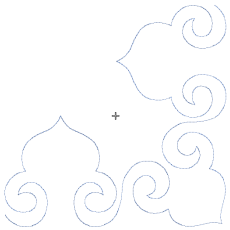
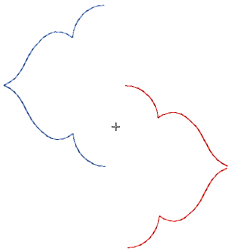
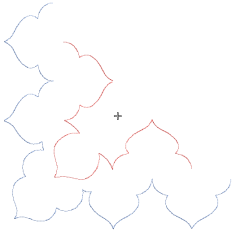
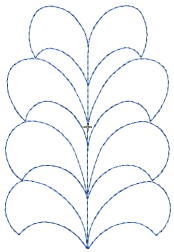
HT116-2	
HT117	
HT117-2	
HT118	

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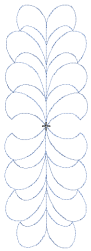
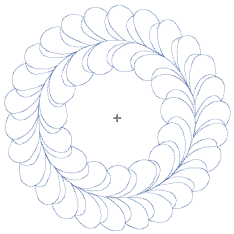
HT119	
HT120	

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