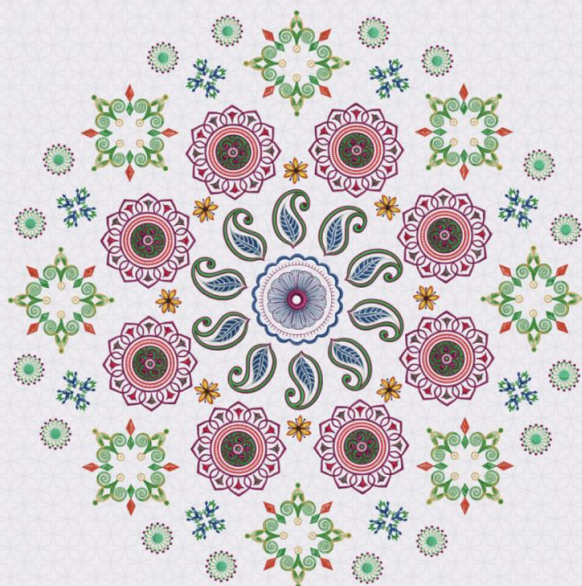


Digitizer V5.5



USER GUIDE
USER GUIDE

OUTPUT DESIGNS
OUTPUT DESIGNS

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INTRODUCTION

Using the Output Design toolbox you can output embroidery designs in a variety of ways – by printing as worksheets, as appliqué patterns, color sequence, or as thread charts. The software also allows you to save your designs as images for use with fabric and garment applications. You can also send them directly to machine for stitching. When working with designs that are larger than the available physical hoop, you can split them into parts, each containing an object or group of objects. The software automatically calculates which files are to be sent and shows you how they will look.



SAVE DESIGNS

Embroidery designs can be saved in one of two formats – ‘outline’ or ‘stitch’. EMB is the native outline format of the embroidery software. Other 'all-in-one' design file formats such as JAN are also available. The software also supports many stitch file or machine formats such as JEF, SEW, DST, EXP, and others.



Save designs



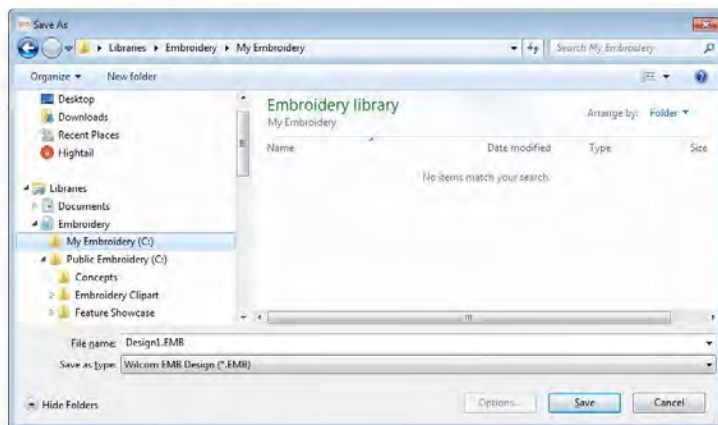
Use Standard > Save Design to save the current design.



Use Output Design > Save Design As to save the current design with a different name, location or format.

The Save options allow you to save a design to native EMB format or similar 'all-in-one' format such as JAN.

- To save changes to an existing design, simply click the Save Design icon on the Standard toolbar or press <Ctrl + S>
- To save a design changes to an existing file but preserve the original, use Save Design As.



- Navigate to the design folder and save in the format of your choice.
- Select a file format from the Save as Type list.

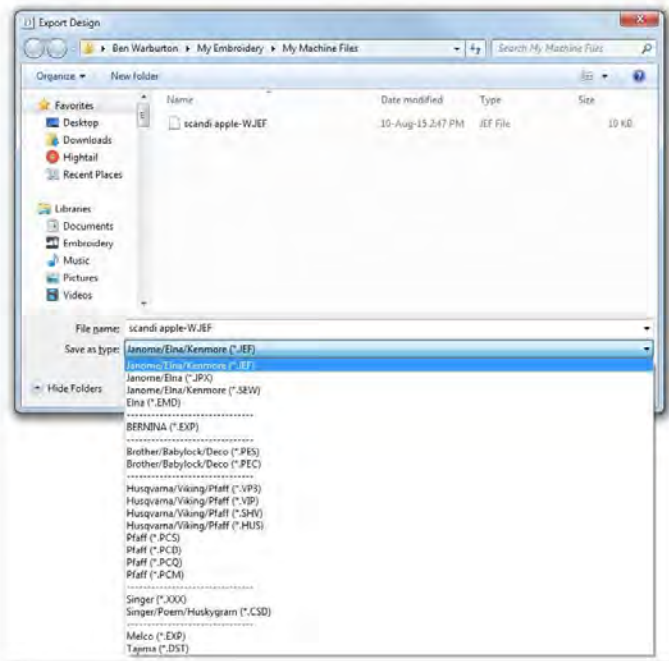
Export designs



Use Output Design > Export Design to convert current design to a format other than your selected machine.

You can export an open design to stitch file format for use by embroidery machines. The software supports stitch formats such as JEF, SEW, DST, EXP, and many others.

- Open the design you want to export.
- To export to a format recognized by your selected machine, click the Export Design icon.



- Select the stitch file type you want to convert to.
- Click Browse to locate a destination folder for the converted designs.

You can convert your EMB and other design files to and from other file formats directly from your embroidery library.

PRINT DESIGNS

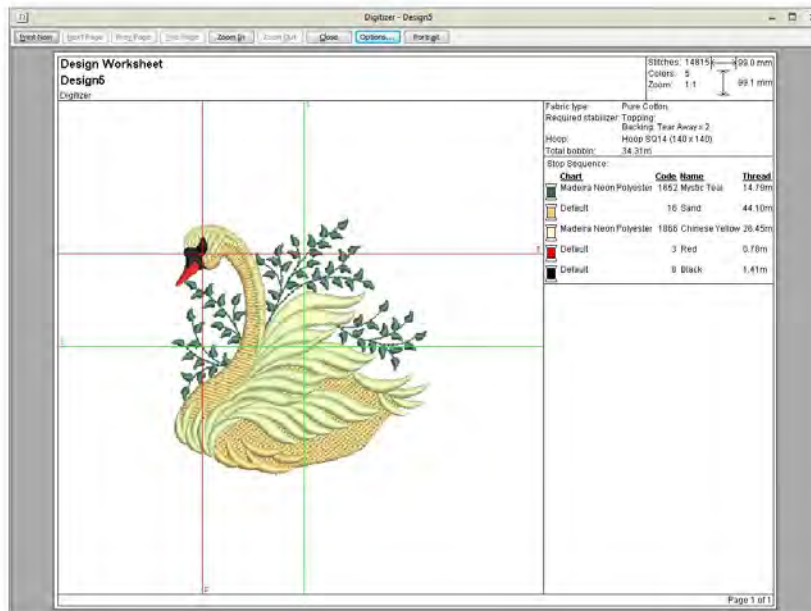
You can output embroidery designs in a variety of ways – by printing as worksheets, as appliqué patterns, color sequence, or as thread charts. Even print thread charts as a shopping reference when purchasing threads.

Print preview



Use Output Design / Standard > Print Preview to preview design worksheet. Print from preview window.

Use Print Preview to view stitching information and to check the sewing sequence. Your design displays as it will be printed. If you are using a color printer, you can print in TrueView. Large designs may be displayed over a number of pages if printed at actual size. Use the Options buttons at the top of the screen to configure the appearance of the printout.



Print options

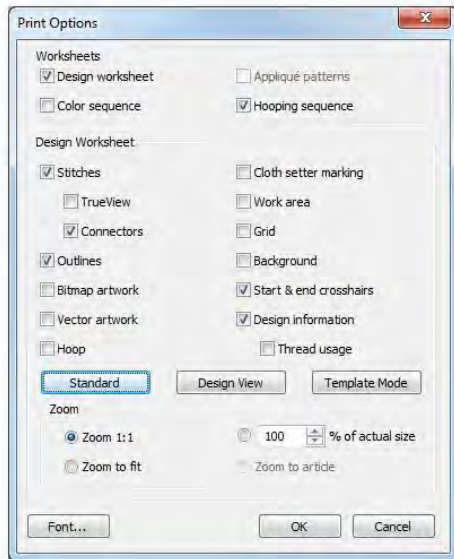


Use Output Design / Standard > Print Design to print the current design.

Print options give you precise control over your design printout. Different worksheet configurations are available for different purposes - design worksheet, color sequence, appliqué pattern, as well as hooping sequence. Each configuration can be further customized.

- Click Print Preview or Print Design.

- In the dialog, click Options to further configure print options. The default worksheet type is the 'design worksheet'.



- Set design worksheet options to show the information you want in the format you require.

Report	Purpose
Design worksheet	This provides all production-related information, such as bobbin length, design size, garment fabric, etc, is provided.
Appliqué patterns	This shows appliqué patterns – cutter information – isolated from the design. These can be used as a guide to cutting out fabric pieces.
Color sequence	Provides a list of colors in the design, together with color and stitch information for each color layer.
Hooping sequence	If there is more than one hooping in the design, this option displays hoopings in their correct color sequence.

- The Design Worksheet panel provides options for further customization. Three presets are available - 'Standard', 'Design View', and 'Template Mode':

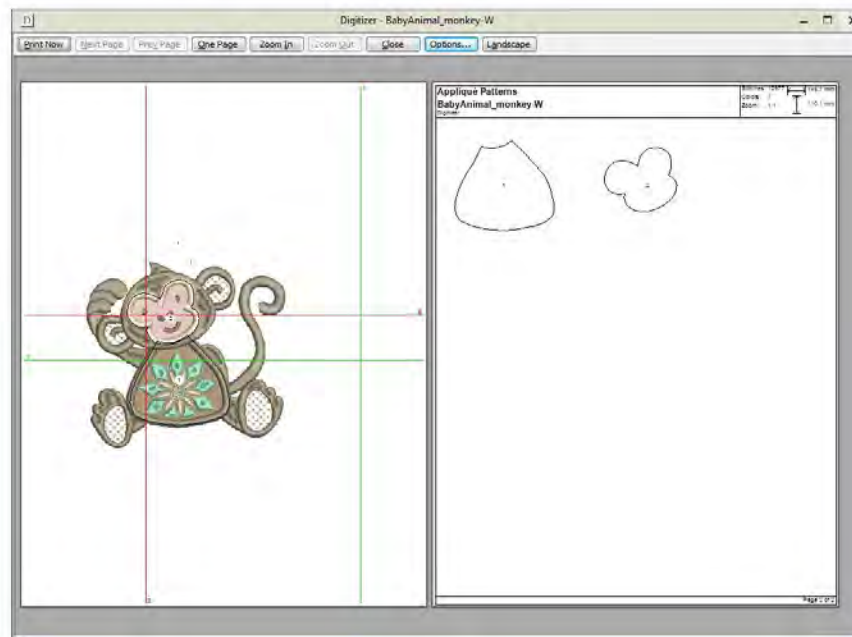
Preset	Purpose
Standard	
Design View	Shows the design as it appears in the design window.
Template Mode	Shows the design outlines with no stitches.

- Select a sizing option from the Zoom panel. When selecting Template Mode, the Actual Size option is automatically selected.

While the cloth setting marking is supported in JEF and SEW files, outlines are not. Since JEF and SEW are stitch file formats, they only contain stitch data, no outlines. The workaround is to display JEF and SEW files with stitches and cloth setter marking turned on.

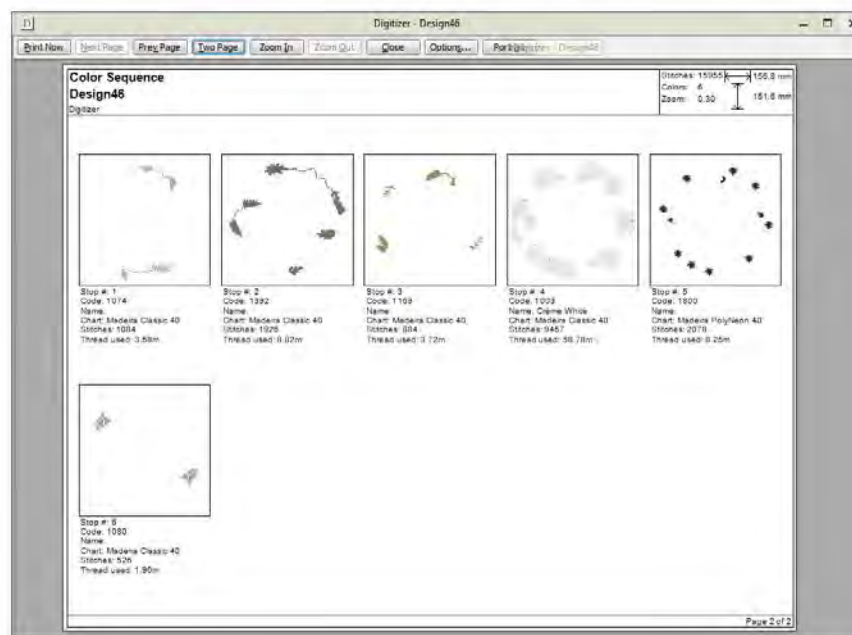
Appliqué patterns

Print a copy of the appliqué pattern to cut out fabric pieces. Each appliqué pattern piece is numbered according to the stitching sequence.



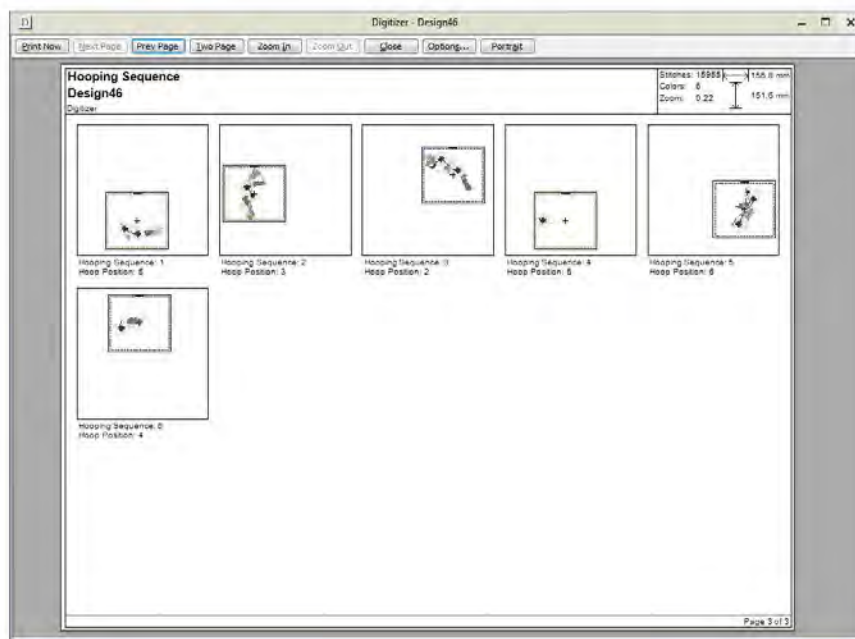
Color sequence

The Color Sequence option lets you include a list of color layers in the current design, together with color and stitch information for each layer.



Hooping sequence

If there is more than one hooping in the design, you have the option of printing hoops in multi-hooping view in their correct color sequence. The Hooping Sequence option allows you to print a color film type printout showing the objects in each hooping.



Design layouts



Use Output Design / Standard > Print Preview to preview design worksheet. Print from preview window.

You can sew embroidery out by sending the design directly to a sewing machine or saving it to removable media and stitching out using a layout template and the cloth setter. The device has a transparent plastic bar with marked cross.

CAPTURE DESIGNS

Designers frequently want to distribute designs for viewing in real colors, in TrueView or otherwise, with or without fabric backgrounds. In a commercial environment, this might be for stock design sales purposes, for approval of digitized designs, or for presentation on the web or in catalogs.

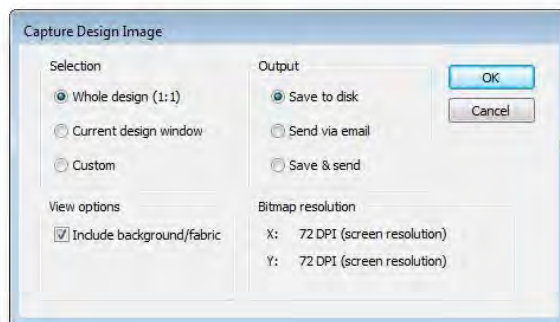


Capture & send screen images



Use Output Design > Capture Design Image to save design image as bitmap. Resulting image is as it appears on screen.

Screen images are captured in PNG format. Bitmap resolution defaults to current screen resolution. Properly calibrated, this figure should default to approximately 72 or 96 DPI (dots per inch), depending on the resolution of your monitor. Options are self-explanatory...



Selection options include:

Option	Description
Whole design (1:1)	Captures the screen image in a ratio of 1:1.
Current design window	Captures the screen image at the currently selected zoom factor.
Custom	Lets you specify a capture area. You are prompted to define the area to capture.

Output options include:

Option	Description
Save to disk	Save screen capture to disk. Select a location, name and format for the captured design image.
Send via email	A new email message opens with the image attached.
Save & send	Save to hard disk and send as an email attachment.

The quick way to email a design image is to click the Send via email option in the dialog. If you use the email option provided in the Capture Design Image dialog, you can select image size - from large (1280 x 1024 to small (640 x 480).

SEND DESIGNS TO MACHINE

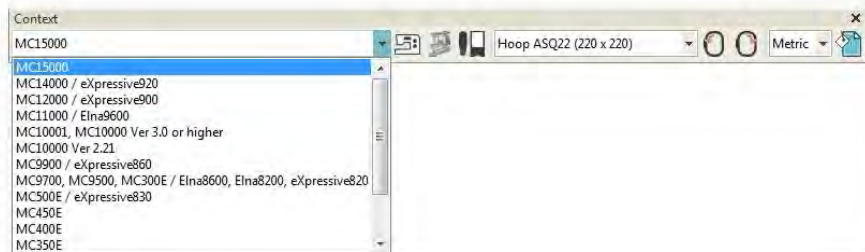
The embroidery software supports various sets of machine model. Direct-connect for new and some older machines as well as saving to ATA PC card and USB memory stick are all possible methods for outputting designs to machine. Higher level machines support direct connection, although menu options change according to machine. Newer machine models are usually supplied with machine connection software. This can be configured so that the design passes straight from your embroidery software to machine. Or you can pass the design to the machine connection software for further processing.

Earlier machine models do not support direct connection but they do read ATA PC cards and/or USB memory sticks. These are convenient portable memory devices which can hold large amounts of data in a small 'stick' or 'card'.



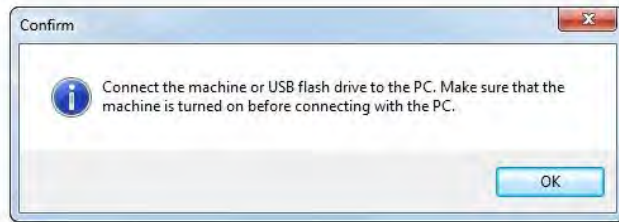
Machine selection

If you haven't already done so, you will need to select the machine you want to connect to. The choice of machine in turn determines the hoop types available from the hoop list. It also affects the output options available from the Machine menu, Output Design toolbox, or Context toolbar.



Machine connection

If your machine supports direct machine connection, make sure it is physically connected to your PC. Your embroidery software is able to automatically detect which type of supported machine is currently connected to the PC USB port. The Machine menu items are determined by the type of machine connected to the PC. If no machine is detected, all menu items will be grayed out. You will see a confirmation message if you try to send a design while the machine is unconnected.



Design destinations

Depending on your machine connectivity, you can potentially send designs individually or as a batch to three possible destinations:

- Built-in machine memory of your JANOME MemoryCraft
- ATA PC card attached to PC memory card slot on your machine, or
- USB memory stick attached to your machine.

Alternatively, you can use an external media drive to write designs in JEF format directly to card.

JPX file format

The JPX production file format includes a JPG image, in addition to the embroidery, of any graphics included in the design. This provides you with a better means for visually aligning embroidery on a printed item when hooped in the machine. Older machines display only thread codes and not the specific brand. However, the same code across two (or more) different brands of thread may be completely different colors. With the MC12000 machine, a thread brand ID identifying the thread chart is recognized and the specific thread brand displayed on the machine itself. The brand designation is written to the JPX file.

Supported machine models

The software is able to automatically detect which type of supported machine is currently connected to the PC USB port. The Machine menu items are determined by the type of machine connected to the PC. If no machine is detected, all menu items will be grayed out. Your distributor will advise you about supported machine types. The following connection types are supported:

Machine	Equivalent	Wi-Fi	MCS	DC	ATA	USB
MC15000		x	x	x		x
MC14000	eXpressive920		x	x		x
MC12000	eXpressive900		x	x		x
MC11000	Elna9600			x	x	x
MC10001				x	x	
MC10000 V3.x				x	x	
MC10000 V2.21				x	x	
MC9900	eXpressive860					x
MC9700	Elna8600				x	
MC9500	Elna8200				x	
MC500E	eXpressive830		x	x		x
MC450E						x
MC400E						x
MC350E					x	x
MC300E	eXpressive820				x	
MC200E	Elna8100					x
NS-1						x
MB-4				x	x	x
MB-4S	eXpressive940			x		x
Others						

Wi-Fi = Direct connection to machine via Wi-Fi local area wireless computer networking technology.
MCS = Machine Connection Software. When sending a design to machine, you send it via external machine connection software for further processing.

DC = Direct Connection: See Linking your PC by USB cable for details.

ATA = ATA PC card. Must be upgraded to Version 2.21. See <http://www.janome.com/> or <http://www.elna.com/>.

USB = USB memory stick.

MC10000 V2.21, MC10000 V3.x or higher, and MC10001

On Windows® 7 or later, please send designs one at a time when using a USB-RS-232C Conversion Adapter. An error is displayed when trying to send multiple designs at the same time.

MB-4 machine

The MB-4 machine supports direct connection. You can download designs to the machine's internal memory, or to an ATA Card or USB stick attached to the machine. Direct connection for the MB-4 machine is, however, only available in the Digitizer product level.

CONNECT DIRECTLY TO MACHINE

Many machines support direct connection via USB cable. To connect your PC and machine, make sure you use the USB cable provided with the machine.

Newer style sewing machines also support Wi-Fi connectivity. Wi-Fi is a local area wireless computer networking technology that allows electronic devices to a network using UHF and SHF ISM radio bands. Many devices can use Wi-Fi including personal computers, smartphones, digital cameras, and so on. Indoor connections can have a range of about 20 meters. Needless to say, the PC itself must support Wi-Fi as well as your sewing machine in order to make use of this connectivity.

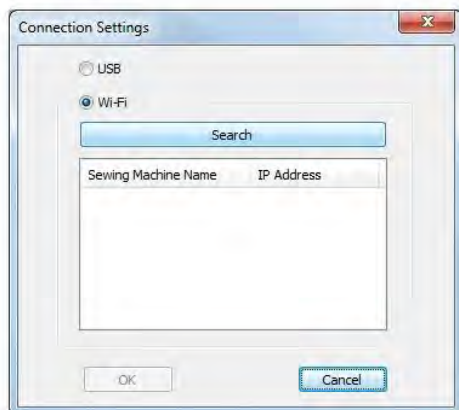


To see if your machine supports Wi-Fi or USB cable connection, see Supported machine models.

Establish connection

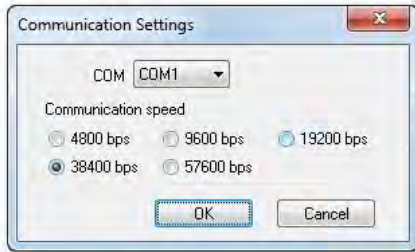
If your machine supports both options, you need to let the software know which connection type you wish to use.

- Connect your PC and machine using the USB cable provided with the machine.
- The machine itself must be set to PC-Link Mode in order to receive designs via direct connection.
- Turn on your machine and select the current model in the Context toolbar.
- Go to the Machine menu and choose Connection Settings.



- Choose between USB cable connection or Wi-Fi. If you want the Wi-Fi connection, click Search.

- Note that some older style machines use the serial port for direct connection. You will see this dialog. You will need to set the correct parameters which you will find in your machine manual.



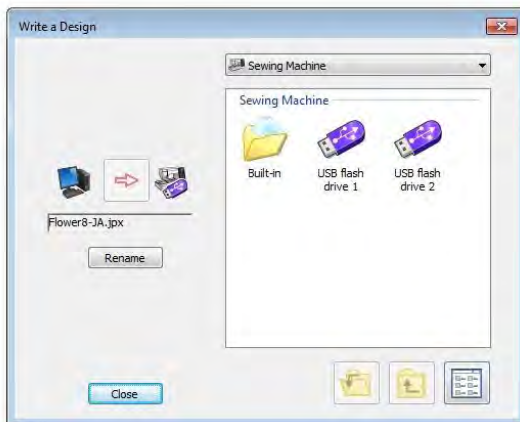
- Insert the ATA PC card or USB stick into your machine if required. Both ATA PC card and USB stick can be attached at the same time.

Send a single design to machine

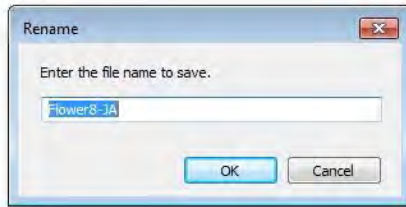


Use Output Design / Context > Send a Design to send the current design to your machine for stitching.

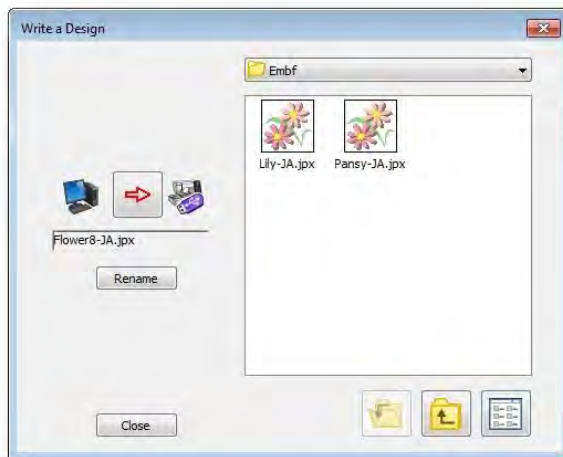
- Open the design you want to send and select a suitable hoop.
- Click the Send a Design icon in the Output Design toolbox or Context toolbar. The software will check whether the selected hoop is supported by the destination machine and advise you.
 - If the hoop is an MA Hoop, this may mean that the design must be split into more than one hoop position, and possibly more than one JEF file. See Stitching designs with multi-position hoops for details.
 - If the hoop is supported and is not an MA Hoop, the transfer dialog will open. This will vary with your machine model.



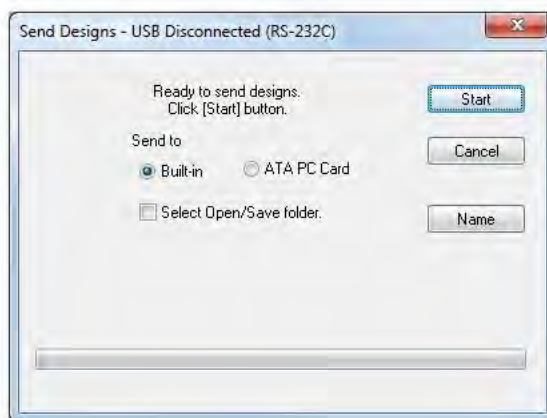
- You may have the option of renaming the export file as preferred.



- Select a storage location on the sewing machine – machine memory (built-in folder), ATA PC card if available, or USB memory stick.



- With older style machines, you may only have a choice of machine memory (built-in folder) or ATA PC card.

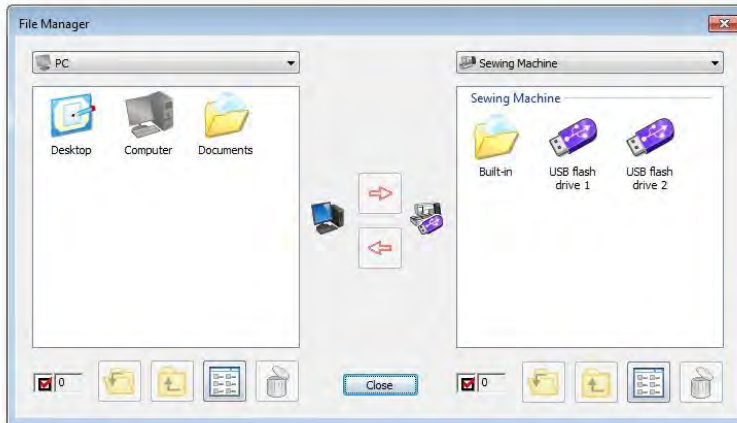


- Click Start. File transfer begins. The selected design is converted to machine file format readable by your machine and copied to the specified location. In the unlikely event that a file exceeds the limits set, it will be split into two or more files.

Send or receive multiple designs

The software allows you to simultaneously send more than one design in a file format which can be read by your machine. You can also retrieve all designs from machine memory for editing and/or to store them on hard disk or other location. Alternatively, delete all designs from machine memory to free up space.

- First of all locate and, if necessary, convert the files you want to transfer.
- Select Machine > Send Designs, Receive and Delete. The transfer dialog opens. This will vary with your machine model. The dialog is divided in two sections – source (PC) and destination (sewing machine). The machine itself must be in PC-Link Mode in order to receive designs.

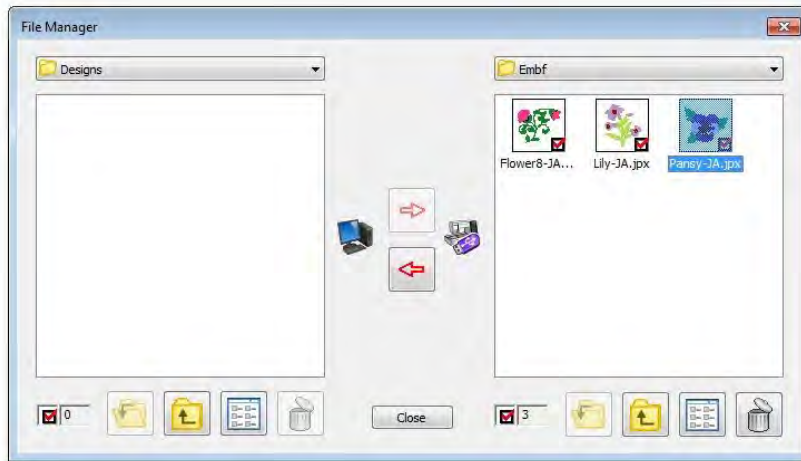


- Select a source folder from the PC list. Only files readable by your machine are displayed.
- Select the files you want to send in the viewing panel.
- Select a storage location on the sewing machine – machine memory (built-in folder), ATA PC card, or USB memory stick.



- Click Send. A confirmation box appears.
- Click Start. File transfer begins and selected designs are copied to the selected location. In the unlikely event that a file exceeds the limits set, it will be split into two or more files.

- Select any files you want to receive or delete from the destination folder.



- Choose from the available options:
- Click Receive to copy files from the machine to the current location folder on your PC.
- Click Delete to remove selected files from your machine storage location.

CONNECT VIA MACHINE SOFTWARE

Machines from the MC12000 machine onwards come supplied with their own machine connection software. When sending a design to machine, you can send it via external machine connection software. This can be configured so that the design passes straight from your embroidery software to machine. Or you can pass the design to the machine connection software for further processing.



For instance, Janome machines do not recalculate stitches when a design is rescaled or transformed in any way. Hence they are limited to $\pm 20\%$ rescaling. Machine software, however, allows rescaling to be done on PC. This means you can rescale, mirror and rotate designs and stitches will be recalculated. Machine software also lets you define new stitch types for the machine's sewing mode. Other options are available.

Machine connection software

You will have received machine software with your machine. This needs to be installed independently of your embroidery software. The specific software provided with your machine model is as follows:

Machine	Equivalent	Connection Software
MC15000		EmbLinkTool in HorizonLinkSuite
MC14000	eXpressive920	Embroidery Editor in Acutools
MC12000	eXpressive900	HorizonLink
MC500E	eXpressive830	Embroidery Editor

Establish connection

- To connect your PC and machine, use the USB cable provided with the machine.
- The machine itself must be set to PC-Link Mode in order to receive designs via direct connection.
- The machine connection software must be installed.
- Turn on your machine and select the current model in the Context toolbar.

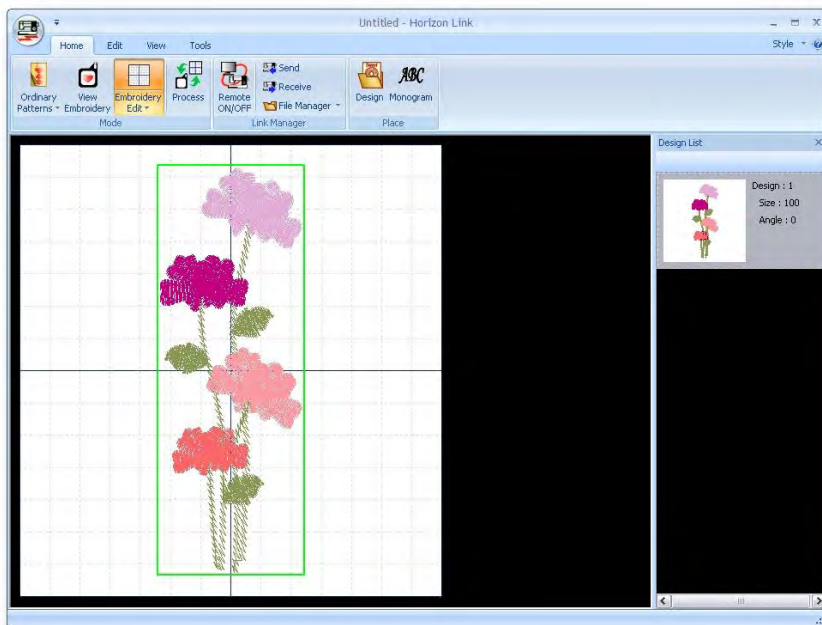
MC12000 and higher machines can also read USB memory sticks which can be written to from within the software. Alternatively, you can use an external media drive to write designs in JEF format directly to card.

Send designs to machine



Use Context > Send to Link to send the current design to machine via propriety machine software.

- Open the design you want to send.
- Click the Link icon. The design opens in the installed machine connection software. This software suite allows you to rescale, mirror and rotate designs. It also lets you define new stitch types for the machine's sewing mode. Click the Help button to access onscreen documentation.



- Click the Remote On/Off button to activate the direct-to-machine connection. This enables the design to pass directly from your embroidery software to the machine.

CONNECT VIA EXTERNAL MEDIA

All machines can read ATA cards or USB memory sticks. Some machines can only receive machine files via a card or memory stick. Even with a machine that supports direct connection, you may sometimes prefer to transfer designs by card or memory stick. Designs are written in machine file format.



To see if your machine also supports Wi-Fi or USB cable connection, see Supported machine models.

Establish connection

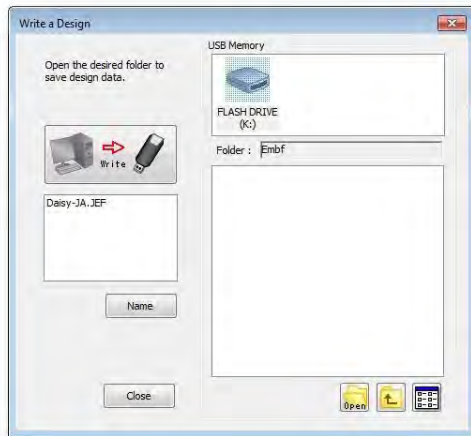
- If you haven't already done so, turn your machine on and select the current model in the Context toolbar.
- Make sure the external media - ATA card or USB stick - is securely plugged into the USB port of your PC.
- After writing your design/s, simply insert the media into the USB or ATA card slot of your machine and read in the design.

Write to USB stick



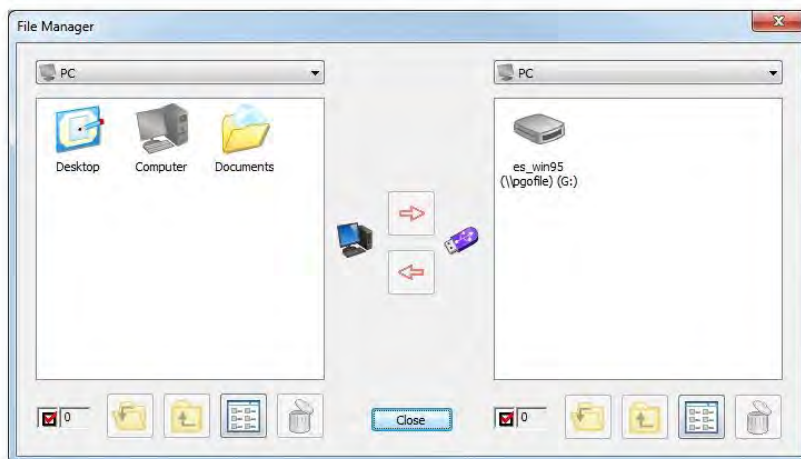
Use Output Design / Context > Write to Card/USB to send a design to an external media drive.

The procedure for writing a single design to USB memory stick is essentially the same as sending a single design file to machine except that you click the Write to Card/USB icon or go to the Machine menu.



Write multiple designs to USB stick

The procedure for writing multiple designs to USB memory stick is essentially the same as writing a single design except that you select Machine > Manage Card/USB.

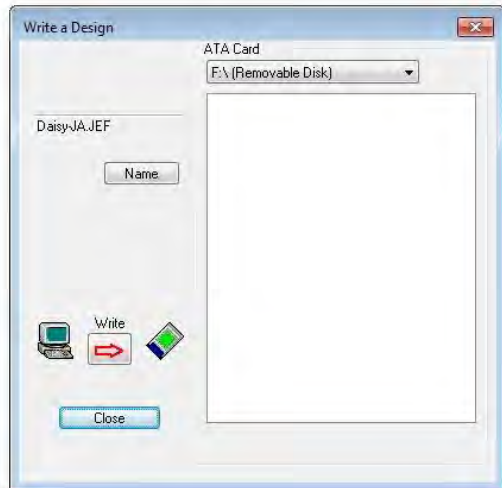


Write to ATA PC card



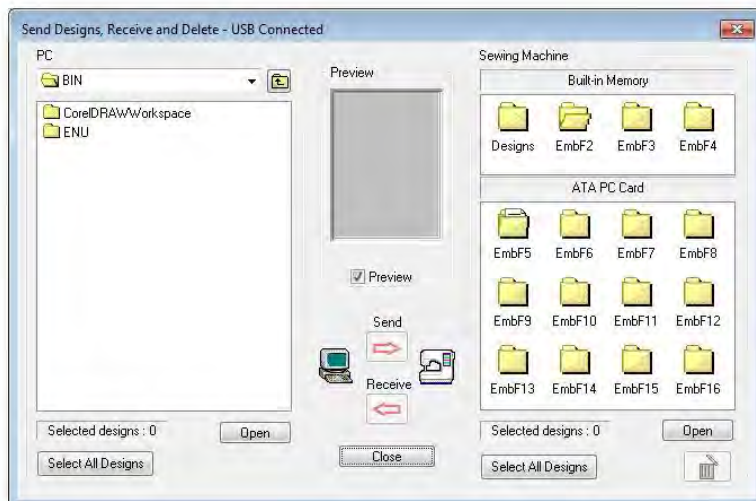
Use Output Design / Context > Write to Card/USB to send a design to an external media drive.

Many machines still support ATA PC cards. The procedure for writing a design to Flash Memory reader/writer is essentially the same as writing to USB memory stick except that some machines do not give you the option. A few may only support ATA PC cards. Transfer dialogs may differ but the procedure is essentially the same.



Write multiple designs to ATA PC card

The procedure for writing a single design to Flash Memory reader/writer is essentially the same as sending multiple design files to machine except that you select Machine > Manage Card/USB. Transfer dialogs may differ but the procedure is essentially the same.








MB-4 MACHINE FEEDBACK

If you are using an MB-4 machine, the direct machine connection option is available to you. This means you can send individual or multiple design files directly to built-in machine memory. Alternatively, you can use an external media drive to write designs in JEF format directly to card. If you attempt to send a design to machine with a hoop not supported by the machine, you will be prompted to select a different hoop.

Machine feedback is available for MB-4 machines. Up to three machines can be simultaneously attached.

- Select Machine > MB4-Status. The Machine Status toolbar appears displaying machine status for up to three connected machines. Non-connected machines display as a grayed icon.
- Optionally, dock the toolbar either at the top or the bottom of the design window. While the toolbar is displayed, machine status is updated every 5 seconds. The toolbar remains active until the Machine > Status command is toggled off. The toolbar icons are color-coded to indicate current machine status:



Icon	Description
	Grayed indicates no machine connected or not turned on.
	Green indicates machine is running normally – stitching.
	Red indicates machine has stopped – overload or thread break.
	Yellow indicates machine on standby – color change or paused.
	Blue indicates machine available – ready or finished sewing.

- To view the current status of a particular machine, click one of the toolbar buttons. The Machine Details dialog opens. The machine shown in the dialog will show the current machine status as does the toolbar icon.

