Challenge 3 — Create your own Embroidered Fabric

We are excited to introduce to you Challenge 3 of the Embroidery Software Challenge 2024! Now that you have mastered the basics and started creating stunning designs with raised satin and velvet embroidery, it is time to explore a powerful feature of your embroidery software, Auto Digitise. This challenge focuses on using auto digitising tools to streamline your design process and achieve professional results with ease.

Auto digitizing is a feature that allows you to convert images or graphics into embroidery designs automatically. This tool can save you time and effort, making it easier to create complex designs quickly. However, understanding how to optimize and refine auto digitised designs is key to achieving designs of high-quality embroidery.

Create your own embroidered Fabric

Watch this informative video on [Overview of Auto Digitizing]
Download the [Free Cosmetic Pouch] Pattern.

For this exercise the following is used:

- **Artwork to Use –** Own choice
- **Digitise tool to use –** Auto Digitise tool

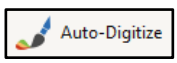
Choose an image or graphic of your choice that inspires you, and convert it into an embroidery design, keeping in mind you want to create a piece of fabric. Small objects which you can put together to create a solid fabric through embroidery.

Tips:

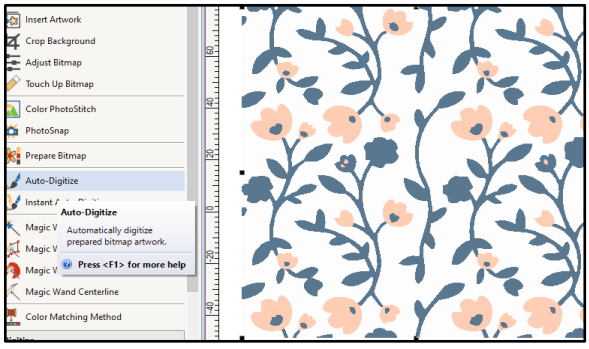
- *Choose high-quality images with clear lines and colours for better auto digitizing results.*
- *Experiment with different auto-digitizing settings to see how they impact the design.*

1. Use Auto Digitise

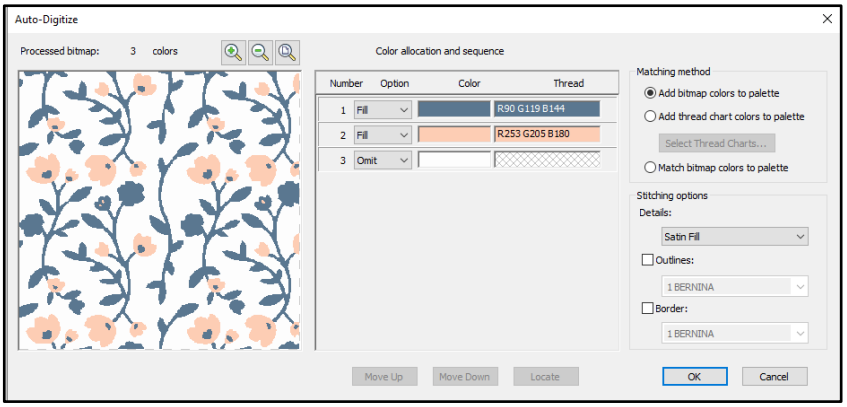
Utilize the auto digitizing feature in your embroidery software to convert the selected image into an embroidery design. This tool can recognize shapes in artwork, bitmap or vector, and choose suitable stitch types to use. Follow these steps:

- **Insert the Artwork:** 

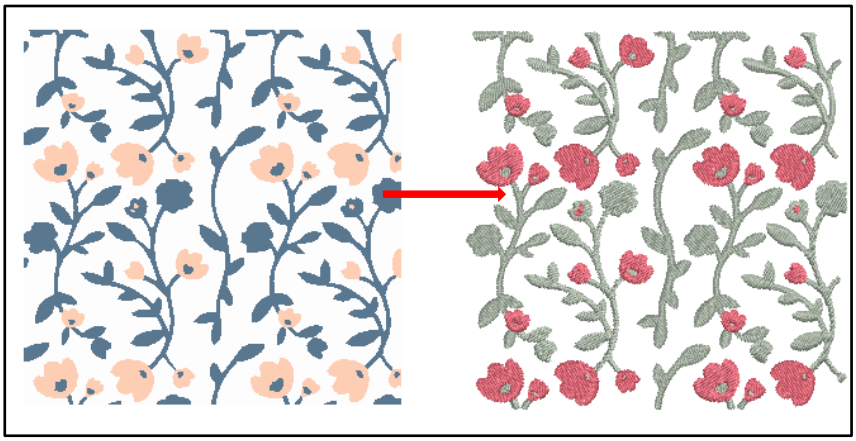
  Open your embroidery software and insert the artwork. Select the artwork and click on the Auto-digitize tool.
- **Adjust Settings:**



Set the parameters for auto digitizing such as stitch type, density and color mapping. Omit the background colour. Experiment with different settings and see how they affect the final design.



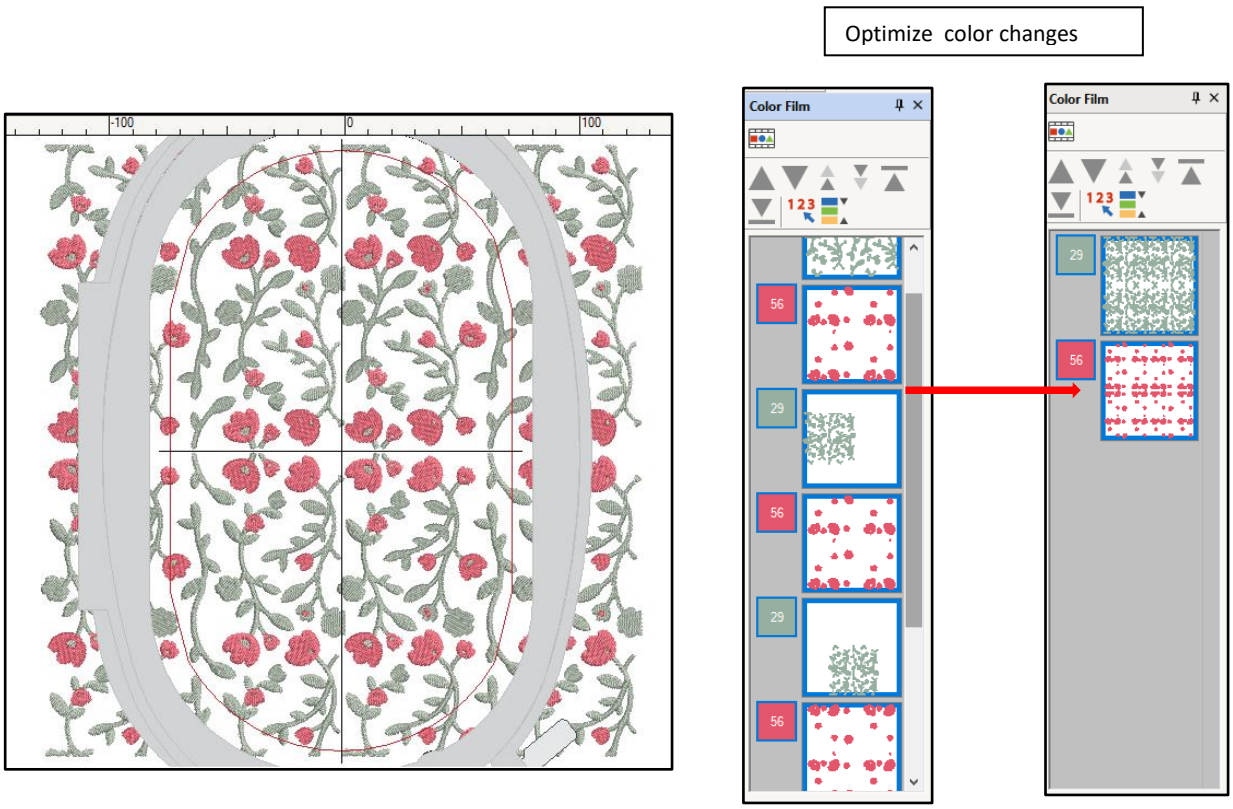
- **Convert the Image:**
  Use the auto digitizing tool to generate the embroidery design from the image



2. Refine the design

Once the initial design is created, refine it to ensure it meets your quality standards:

- **Edit Stitches:**
  Adjust stitch types, lengths and densities to enhance the design. Select and delete any parts of the design you don't want.
- **Optimize Pathing:**
  Ensure efficient stitch pathing to minimize jumps and trims.
- **Add Details**
  Manually add any details or elements that may have been missed or need any enhancements.



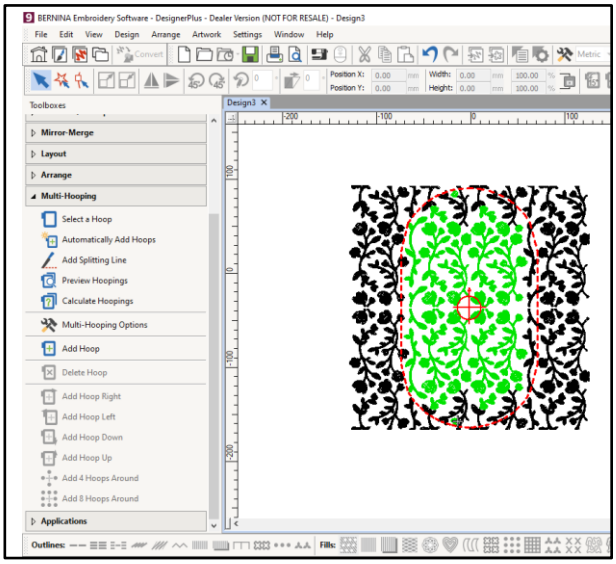
Before finalizing your design, do a test stitch on a similar fabric to your final project. This allows you to see how the digitized design translates into actual embroidery and make any necessary adjustments.

Multi-Hooping

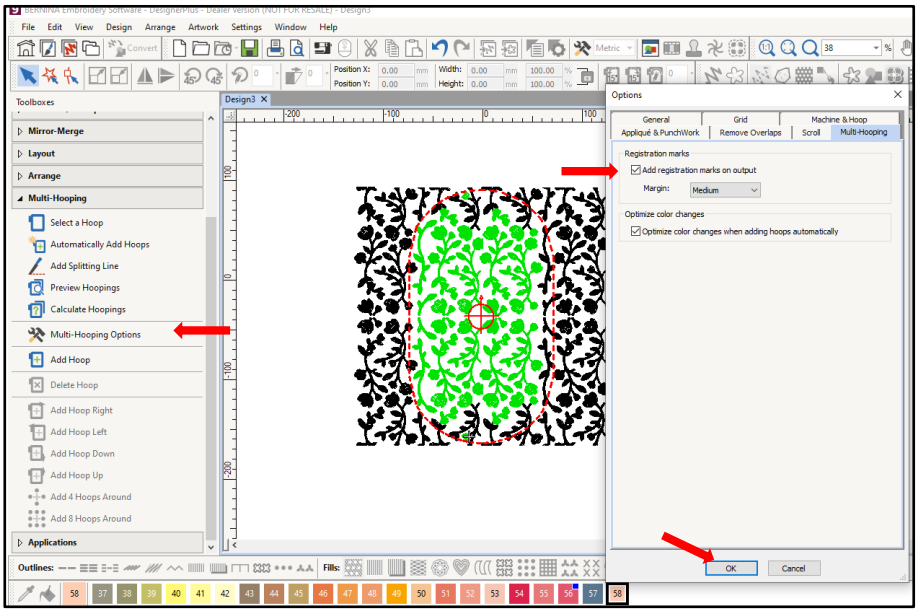
Watch this informative video on Automatic Multi-Hooping, Manual Multi-Hooping.

Because we are creating an embroidered fabric with Auto-digitizing, and maybe your design will be larger than your embroidery hoop? Not to worry multi-hooping is the solution! This technique involves splitting your design into sections that fit within your hoop, then aligning and stitching these sections together to create a larger, cohesive design.

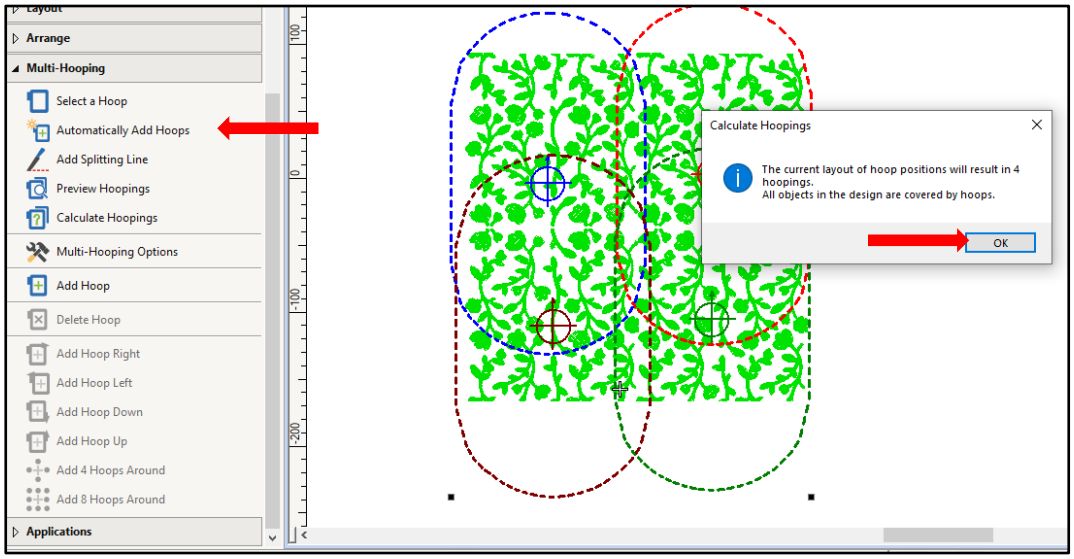
- Select the ***Multi-Hooping Tab*** and wait a few moments while it loads.



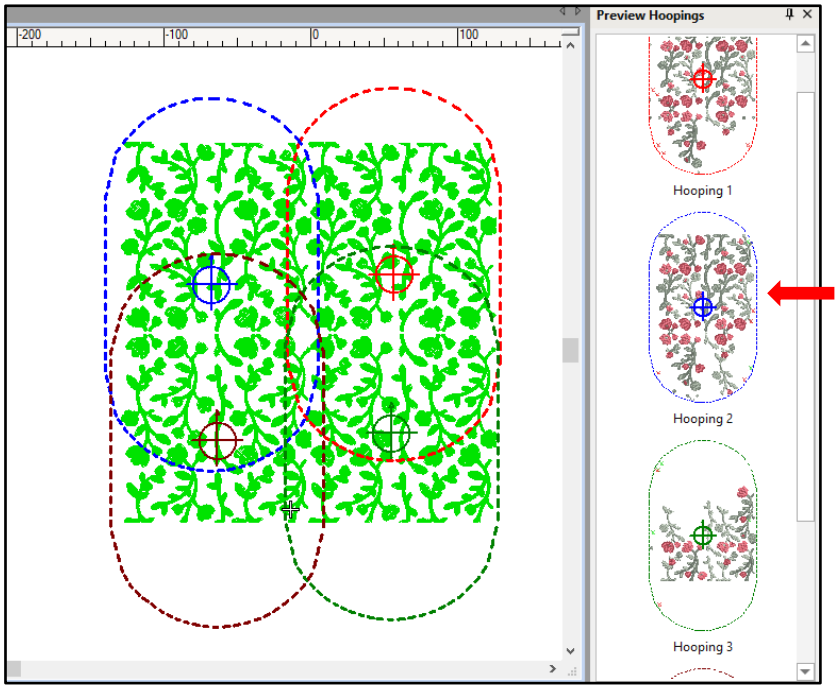
- Click on ***Multi Hooping Options*** and tick the box to add registration marks. “The larger the margin, the greater the distance between the registration mark and the maximum embroidery area of the hoop. This makes it easier to align but there may be some trade-off in precision”



- Select ***Automatically Add Hoops*** and click OK on the pop up message.



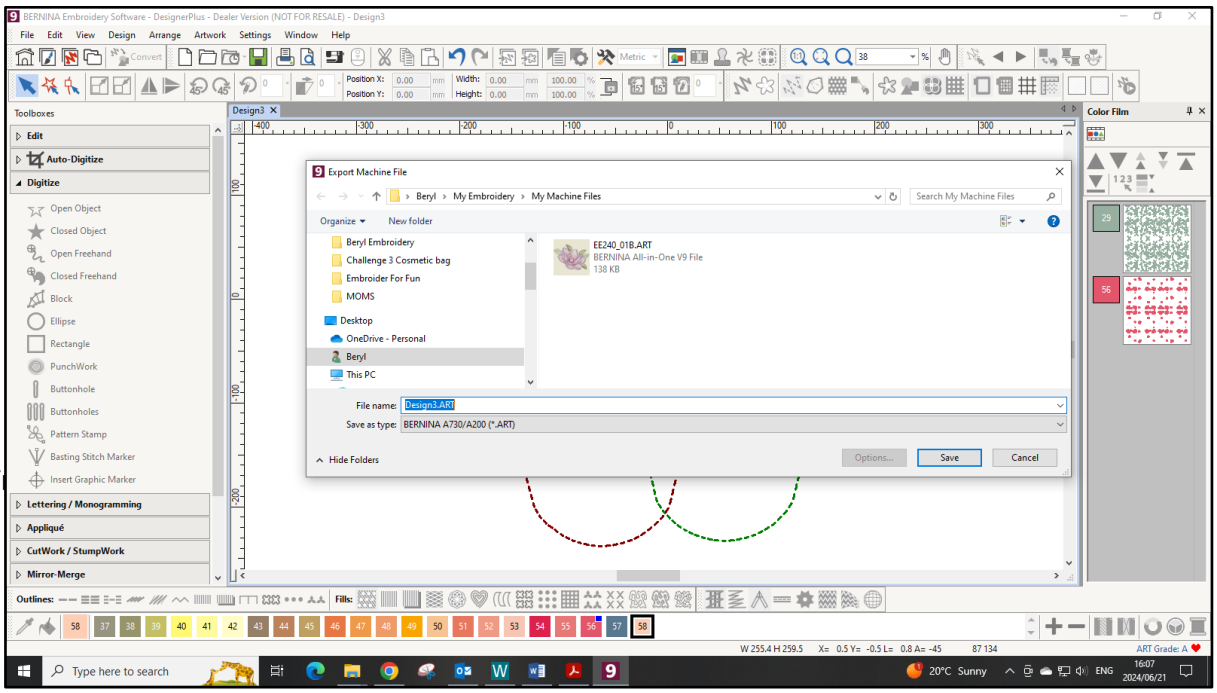
- Click on ***Preview Hoopings*** to see how the design will be split between the hoops and move the hoops if necessary.

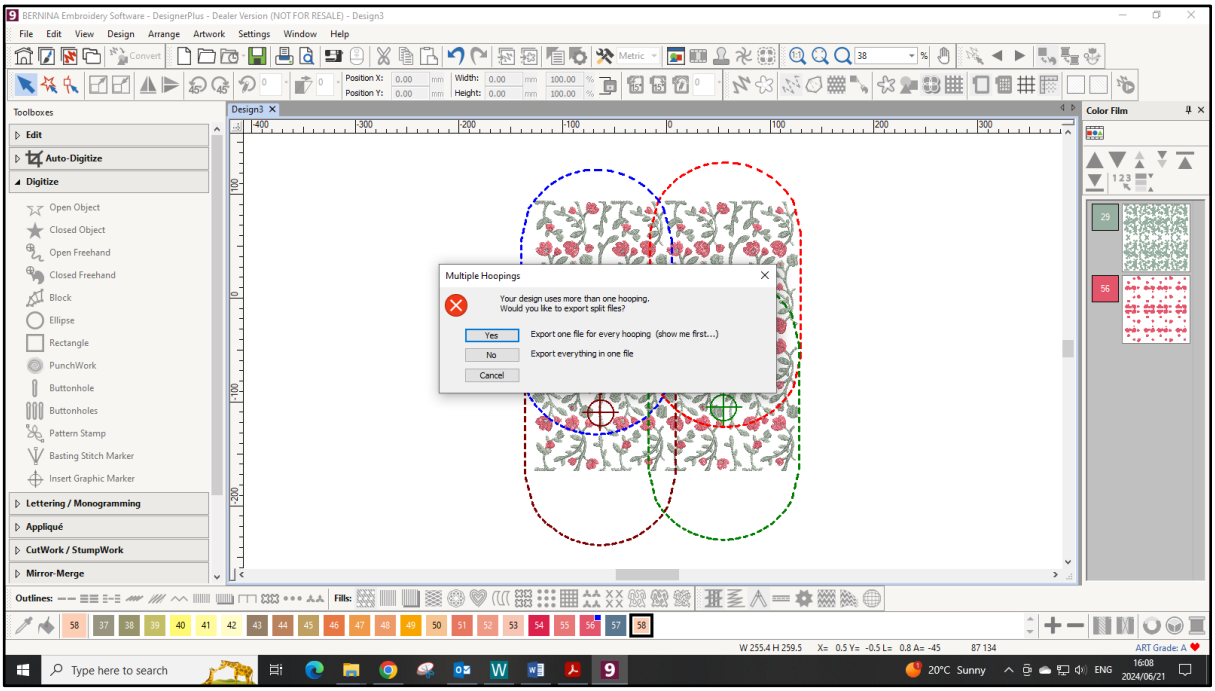


Finishing Off

While still in the Multi-Hooping mode, click on the ***File*** and ***Save*** or ***Export Machine File.***
Export the machine file to the chosen destination and rename the file.
If there are parts of the design that are black, it means it won't be included in the hoop and therefore won't be embroidered
Then edit the placement of the hoop so that all parts of the design are in green. Click on the hoop line, hold the mouse down and move it.

"If you receive a prompt that the designs are not covered by hoops, so they will not be included. Do you want to continue? Click NO"




BERNINA Embroidery Software - DesignerPlus - Dealer Version (NOT FOR RESALE) - Design3
File Edit View Design Arrange Artwork Settings Window Help
Toolboxes
Edit
Auto-Digitize
Digitize
Open Object
Closed Object
Open Freehand
Closed Freehand
Block
Ellipse
Rectangle
PunchWork
Buttonhole
Buttonholes
Pattern Stamp
Basting Stitch Marker
Insert Graphic Marker
Lettering / Monogramming
Appliqué
CutWork / StumpWork
Mirror-Merge
Design3
Color Film
Multiple Hoopings
Your design uses more than one hooping.
Would you like to export split files?
Yes
Export one file for every hooping (show me first...)
No
Export everything in one file
Cancel
Outlines:
Fills:
Type here to search
20°C Sunny
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16:08
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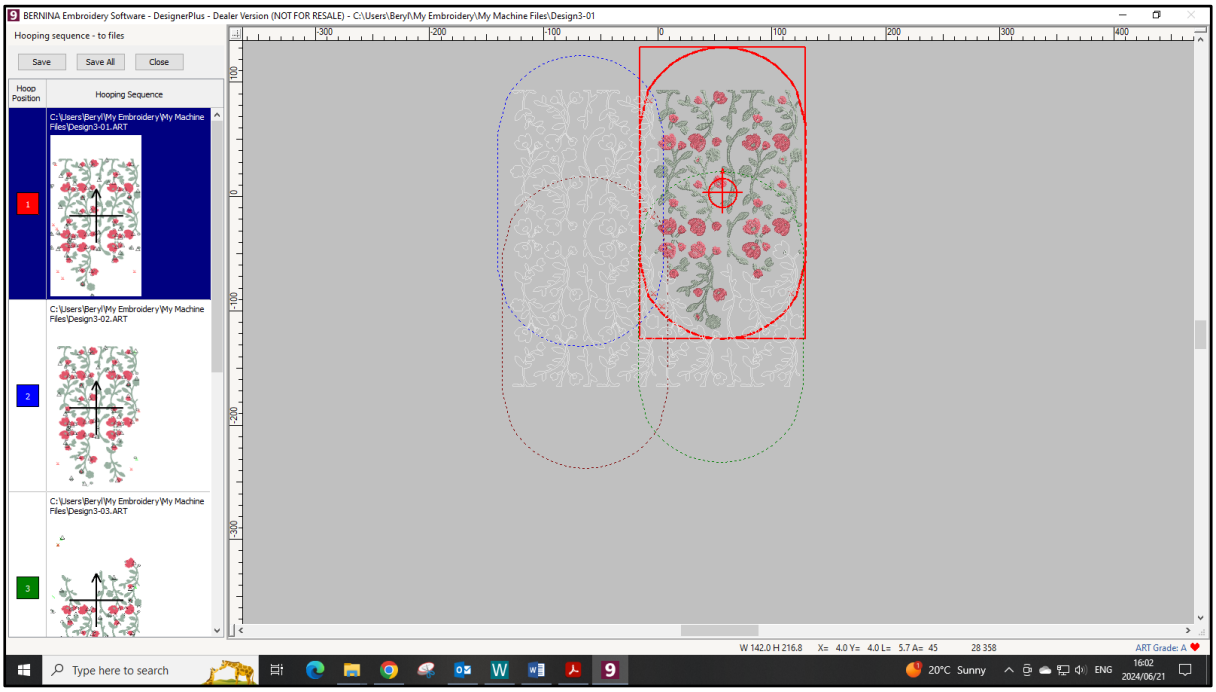
BERNINA Embroidery Software - DesignerPlus - Dealer Version (NOT FOR RESALE) - C:\Users\Beryl\My Embroidery\My Machine Files\Design3-01
Hooping sequence - to files
Save
Save All
Close
Hoop Position
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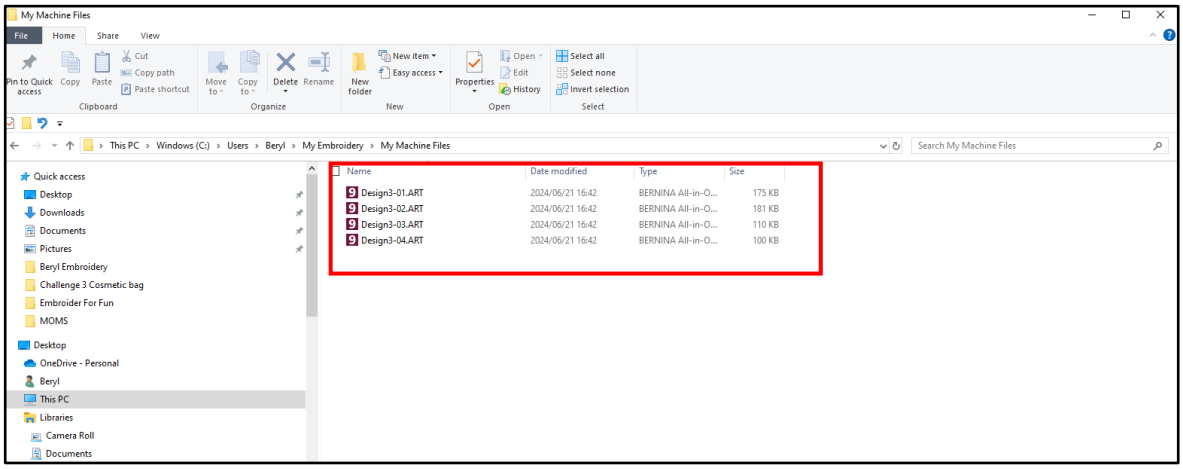
2024/06/21

When you go to the folder where you exported the machine files, you will see that the embroidery designs are split in to different files. These file will be sent to the USB via your software ready for you to embroider.



Please keep in mind that as this embroidery design is relatively simple for multi-hooping, it was simple to make use of the ***Auto Hoop tool*** when digitizing. It is relatively straight forward to embroider with the multi-hooping technique. Of course the larger the size or shape of the embroidery design, the more challenging multi-hooping becomes. This is merely an introduction to multi-hooping.

Some Inspiration

Trust you have enjoyed this exercise and looking forward to your next challenge – **Digitise Tools**

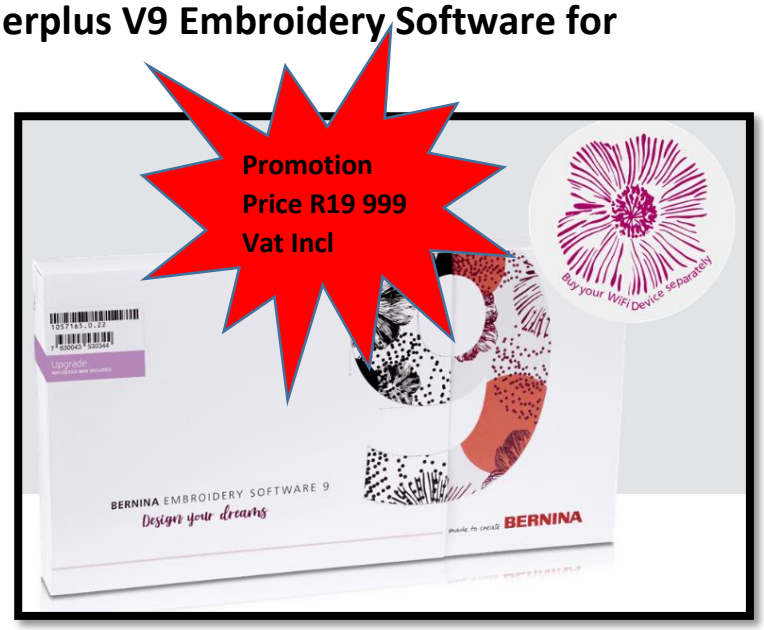
Special Offer for Participants

We are happy to announce a special offer exclusively for particpants of the Embroider For Fun Challenge for the Month of July. If you are interested please email Beryl Slabbert at beryl@berninasa.com

Upgrade from Creator to Designerplus V9 Embroidery Software for all embroidery Enthusiasts

Upgrade V9

SRP R23 299 Vat Incl



Magnetic Embroidery Hoops for bernette machines

Magnetic Embroidery Hoop Snap Hoop Monster.

bernette 70/79 embroidery Machines

The Snap Hoop Monster magnetic embroidery hoop is your strong helper when embroidery gets tricky.

SRP R4 249 Small Hoop

SRP R4 871.60 Med Hoop

SRP R5 882.49 Large Hoop

Small Hoop 100mm x100mm

Med Hoop 130mm x 180mm

Large Hoop 140mm x 260mm

Tutorial – Magnetic Snap Hoop Monster

Clamp Hoops for BERNINA machines

Small Clamp Hoop
SRP R4 556 Vat Incl

Medium Clamp Hoop
SRP R4 834 Vat Incl

The BERNINA Small and Medium Clamp Hoop is the ideal embroidery hoop for quilters. The square shape perfectly accommodates square designs common for quilting. This saves both embroidery stabilizer and fabric compared to oval hoops.

BERNINA 5/7/8 Embroidery Machines

Tutorial – BERNINA Small Clamp Hoop