CHANGES IN TAJIMA DG16.1 BY PULSE 16.1.0.7309

The latest release of Tajima DG16 by Pulse includes a large number of bug fixes and feature enhancements. The following sections summarize these enhancements.

DESIGN EDITING TOOLS

Improvements to the "Align to Segments" function

Scaling of offset values: When segments are aligned using the "Align to segment" functionality (Transform Tools – Align to segment), there will be a set of offsets (in the X- and Y-directions) assigned to them. These offset values are absolute values, given in mm or inches, depending on the unit settings. Previously, these offset values would remain fixed when the design was scaled up or down in the Design properties, leading to some problems with the relative positions of aligned segments.

In the latest Tajima DG16 by Pulse version, these offset values will be re-scaled up or down when the design size is changed, so that the design's proportions will look the same at any scale.

Aligning with Text: Align to Segment has been improved for use with the text segments. Originally, the baseline of a text was included in the calculations of the space between a text segment and another segment that was aligned with it.

This meant that when a text segment is reduced in length, the separation between the text and the segment it had been aligned with would increase, changing the overall appearance of the design. In the improved "Align to Segment" feature, the baseline is not included the alignment calculations, but rather the extent of the text string itself. Therefore, text length changes will not affect the separation between a text segment and the segment that is aligned with it.
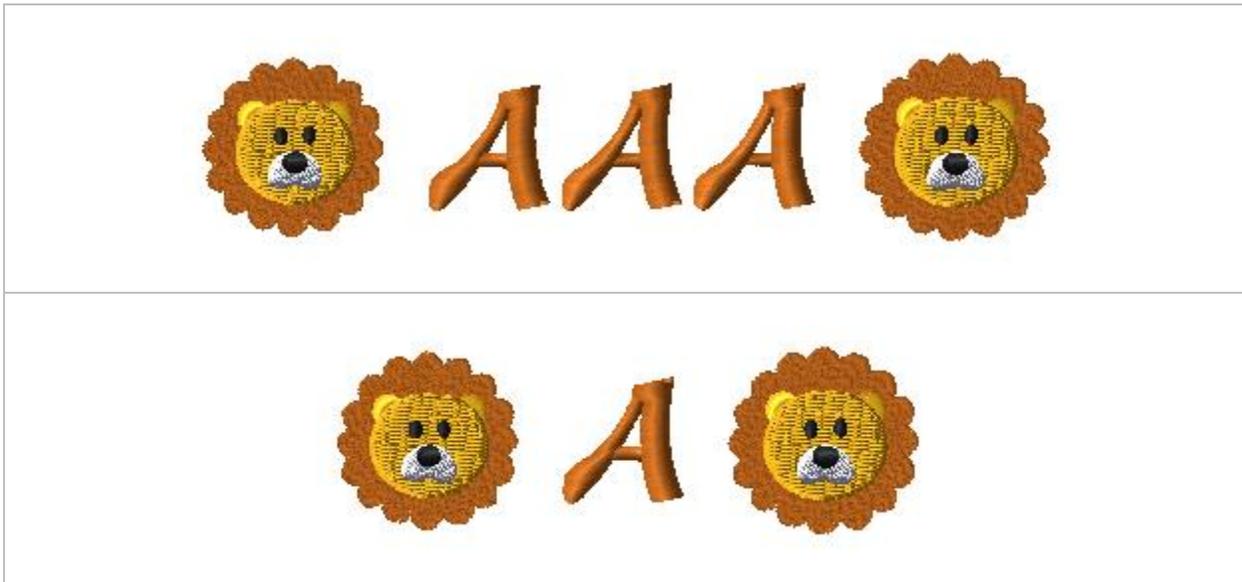
See example above – length of the text is changed between the two images, but the segment was otherwise not edited. The horizontal re-alignment occurs automatically.

Auto-Digitizer Wizard Updated

Include background in dimensions: In some cases, enabling the "Include background in dimensions" at the Image Transformations stage of the Auto Digitizer process prevented the wizard from digitizing the image at all. This problem has been repaired in the current build.

Automatic Segments page options: On the "Automatic Segments page", an option was recently added to the controls, called "Create Satin Columns and Steil segments". If disabled, the Autodigitizer will create the embroidery design using only Run and Complex fill segments. This means that the "Max Steil Width" and "Max column width" controls do not apply in this case; the controls (sliders) for these segment types are therefore "grayed out" when "Create Satin Columns and Steil segments" is disabled.
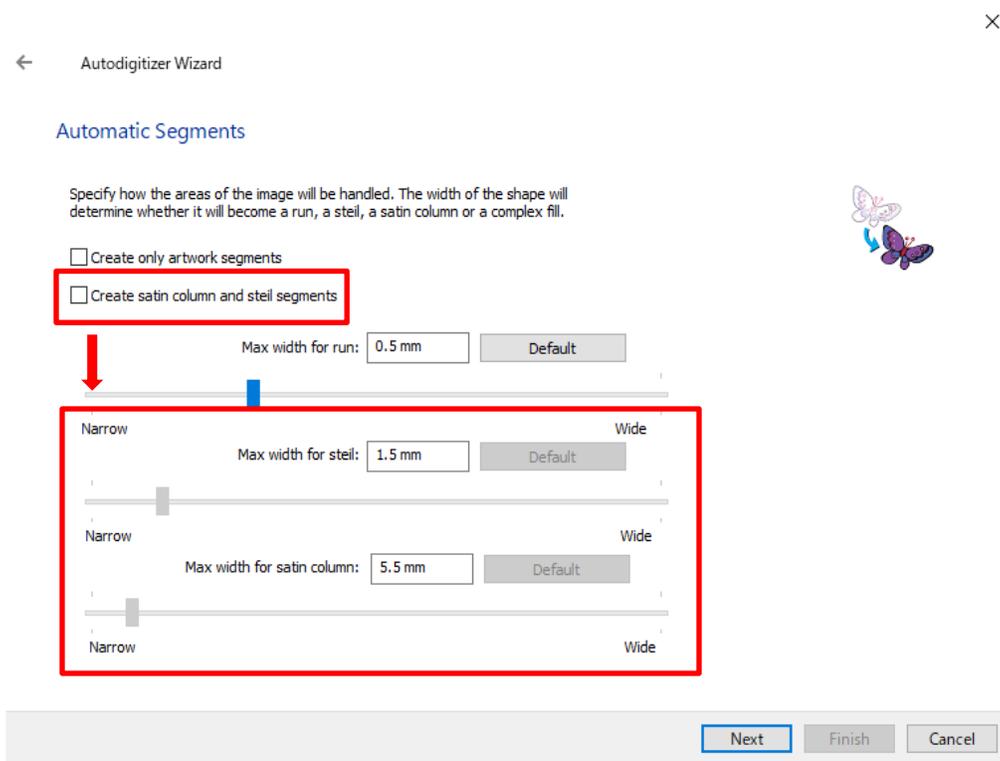
Unexpected Segment type generated: A stitch generation issue was producing a satin column in place of the expected complex fill at the "Automatic Segments" step. This problem has now been rectified.

Arbitrary Block – View Arbitrary Block settings in Stitch List

Previously, the arbitrary block settings for a design were visible only by opening the Design Properties dialog (on the Presser foot tab), or by way of the Commands dialog. In the latest version, you can open these settings directly from the stitch list. To do this, find any arbitrary block command in the stitch list and double-click it; this will open the Arbitrary Block dialog in a separate window.

Stitch List

#	X	Y	Len	Command
1	+0.0	+0.0	0.0	Begin
2	-5.5	+3.8	6.7	Jump
3	-5.5	+3.9	6.7	Jump
4	-5.5	+3.9	6.7	Jump
5	-5.5	+3.9	6.7	Jump
6	-5.5	+3.9	6.7	Jump
7	-5.5	+3.9	6.7	AB On 1
8	+0.5	-0.2	0.5	
9	+1.9	-1.9	2.7	

Arbitrary Block Settings

On

|	Block 1	Block 2	Block 3	Block 4	Block 5	Block 6	Block 7	Block 8
High speed:	☑	☐	☐	☐	☐	☐	☐	☐
Speed (RPM):	800 rpm	1000 rpm	1000 rpm	1000 rpm	1000 rpm	1000 rpm	1000 rpm	1000 rpm
Presser foot:	☐	☐	☐	☐	☐	☐	☐	☐
Lower dead point:	0.3 mm	0.3 mm	0.3 mm	0.3 mm	0.3 mm	0.3 mm	0.3 mm	0.3 mm
Stroke mode:	Auto	Auto	Auto	Auto	Auto	Auto	Auto	Auto
Fixed stroke:	0.5 mm	0.5 mm	0.5 mm	0.5 mm	0.5 mm	0.5 mm	0.5 mm	0.5 mm
Timing (deg.):	30 °	30 °	30 °	30 °	30 °	30 °	30 °	30 °

OK   Cancel

Tension control settings added

Tension Control settings are a completely new set of properties that allow the user to apply differential tensions to a thread at different points within the design. These controls can be customized for differing thread thicknesses and other factors.

File	View	Manage	Tools	Librarian	Processing	Generation	Segment	Auto	Image	Hoop

Applique Fabrics…   Fill Patterns…   Presets…   Styles…   Thread Charts…

Carved Patterns…   Font Categories…   Programmed Patterns…   Symbols…   Thread Palettes…

Color Themes…   Fonts…   Spiral Fill Shapes…   Tension Control Tables…
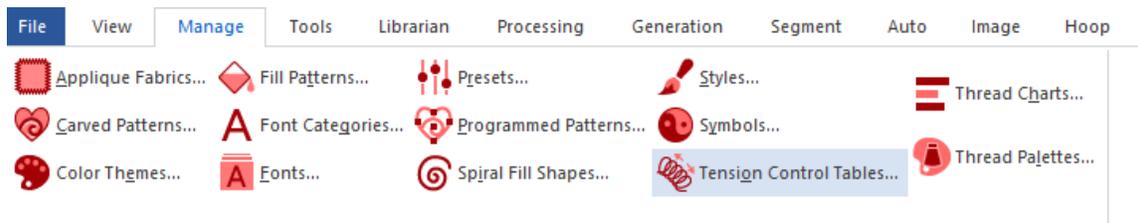
Note: This feature is only available on compatible Tajima machines with iTM technology.

Using the Thread Tension Control Settings dialog, the user will be able to create several distinct Tension Controls, and then save them into a table using the Tension Control Tables manager.

To access the Tension Control Tables manager, select the **Manage** tab and click the Tension Controls icon. This opens a new tab, which allows you to add new Tension Control settings. For each one added, you see a new row in the Tension Control table. Once all the control settings you wanted have been added, you can create a name for the table, and save it for use later use in other designs. (You can also use the Import function to open the Tension Control table on a different installation of Tajima DG16 by Pulse, if you have more than one.)
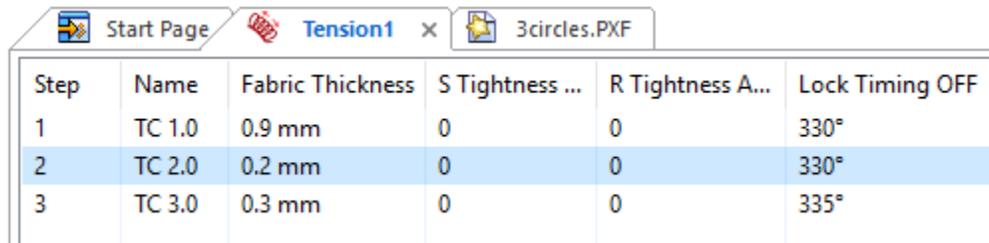
Step	Name	Fabric Thickness	S Tightness ...	R Tightness A...	Lock Timing OFF
1	TC 1.0	0.9 mm	0	0	330°
2	TC 2.0	0.2 mm	0	0	330°
3	TC 3.0	0.3 mm	0	0	335°

The Tension Control tables manager also includes controls that allow you to import an existing table, insert new Tension Controls into the current table, delete Tension Controls, and move the selected row up or down in the table to change the order.

Tension controls can also be added by right-clicking on a thread color in the color palette, and selecting the "Thread Tension" option; this will immediately open the "Thread Tension Control settings" dialog.

Note that Thread Tension settings can be applied at using the commands dialog; right-click on stitch, open the Commands dialog. Select the "Tension" radio button, and then click the "settings" button to see the Thread Tension dialog.

MACHINE INPUT/OUTPUT SETTINGS

Preserve PXF option in Spooler Settings

When your spooler is set up so that designs are read from the barcode folder, the default behavior is to convert all files to machine format, and not save the original *.PXF files. There is an option on the Spooler settings called "Preserve PXF files." Check this option if you want to retain copies of the *.PXF files along with the converted files in the folder.

Read certain information when opening TCF/TBF files

Previously, some design information that is incorporated in files saved in either TCF or TBF format was not being "read" back correctly when those files were opened again. Specifically, the "Before sewing" and "After Sewing" messages on the Design Properties-Production tab and the sewing sequence were being lost in the process.

In the latest version of the software, this information will all be "read back" correctly into the design when it is re-opened in Tajima DG16 by Pulse.

Additional Sequin Styles (3 – 8)

The number of different sequin styles that are available under the Color Change Sequin option has been increased. You can now create designs that include up to eight different sequin styles (i.e., different colors, shapes, or sizes).

For Freeplace Sequin: In linear sequin segments, this means that it is possible to insert any of the eight possible sequin types using the Freeplace Sequin tool.
For details, please refer to the User's Guide, under Tajima DG16 by Pulse Options—Sequin Editing Tools—Color change sequin.

Important note: Due to the increased number of sequin styles that can be placed, the keyboard shortcuts used to switch between the different sequin styles have been changed; the following table lists the new shortcuts:

Sequin Style	Key combination
Sequin 1	Alt+1
Sequin 2	Alt+2
Sequin 3	Alt+3
Sequin 4	Alt+4
Sequin 5	Alt+5
Sequin 6	Alt+6
Sequin 7	Alt+7
Sequin 8	Alt+8
Sequin 1–2	Alt+9
Sequin 2–1	Alt+0

Sequin Patterns: You can also use any (or all) of these additional colors when creating sequin fill patterns in the Sequin Pattern Manager dialog. To open the Sequin Pattern Manager, select the Manage tab—Sequin Patterns…

PRESSER FOOT SETTINGS

The Presser foot settings are a group of settings that can be applied to customize the behavior of the presser foot/needle stroke in a design. These settings can be applied in two ways – either to individual segments, or globally to each needle/color in a design (for the purposes of Presser Foot adjustment, each needle/color will also be known as a "step").

Note: This feature is only available on compatible Tajima machines with DCP technology.

The following parameters can be adjusted in the Presser Foot settings:

- RPM (i.e., limiting machine speed)

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- Lower dead point
- Stroke Mode (choose either "automatic" or "fixed")
- Timing.

If the stroke mode is set to "fixed", an additional parameter, the "Fixed Stroke length", becomes editable.
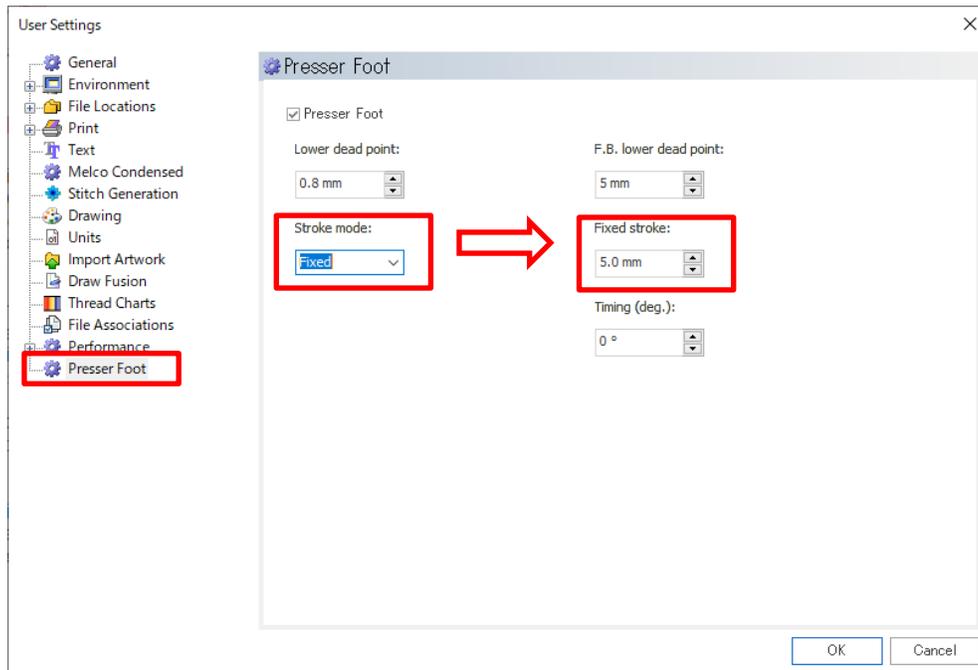
Setting the Presser Foot default values: There are default values assigned to each of the Presser Foot parameters. These default values can be adjusted and then saved. To do this, go to the Tools tab and open the Tools-- User Setting– Presser Foot page. Click OK to save the changes.
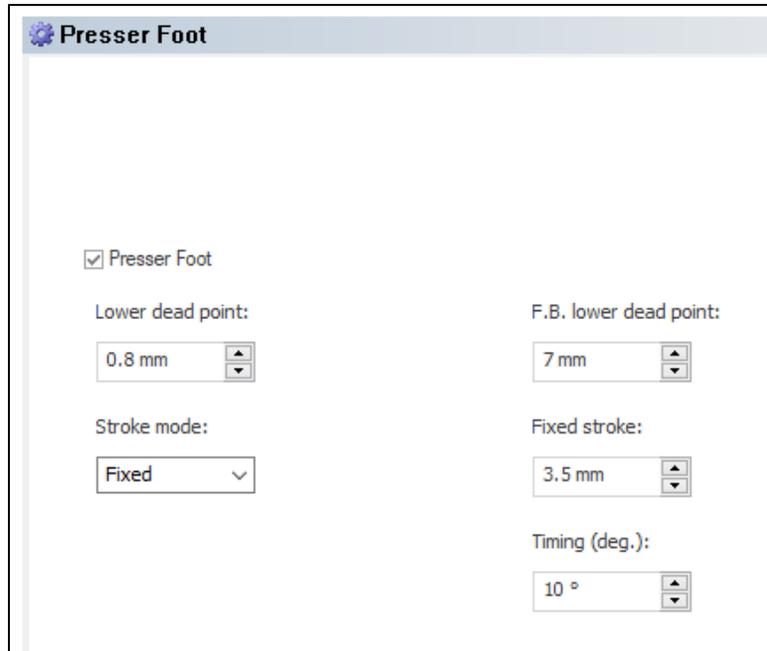
As mentioned above, Presser foot settings can be configured at two levels: either at the individual segment level, or for each needle used in the design.

To apply Presser Foot settings to individual segments: Presser Foot settings can be adjusted in the properties panel on the Commands ✖ tab. Ensure that the "Presser Foot" box is checked, so that the settings fields become editable.
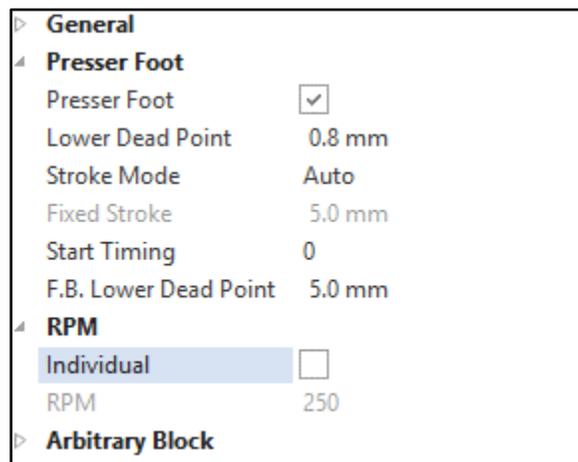
Presser foot settings for individual segments can also be adjusted on Segment settings dialog; click the ⚡ icon to the open this dialog, and then select Commands – Presser foot.

To apply Presser Foot settings to color steps on the Design Properties Dialog: To set Presser Foot settings globally for each thread color in the design, you can do so in the Design Properties dialog, on the Presser foot tab. This dialog will display a column for each Step, or needle color, in the current design.

To apply Presser Foot settings using the Commands dialog: It is also possible to apply the Presser Foot settings to each step while editing a design in Stitch mode.

To do this, select a stitch, then right-click and select **Command**. In the Commands dialog, click the **Color change** radio button, and then select the needle from the combo box to the right. Click the **Settings**… button, which will open the Step Settings dialog.
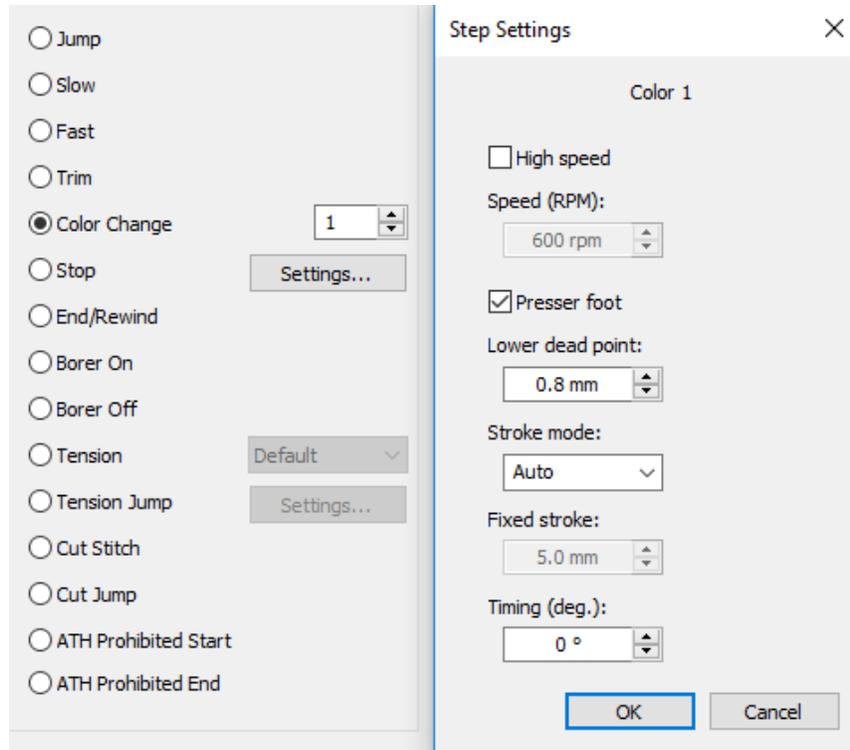
On this dialog, select the RPM settings and/or Presser foot settings check boxes to adjust these settings for that needle number/color step. Note that, as in the case where Step adjustments made in the Design Properties dialog, these settings will be applied to all instances when the needle is used, not just the segment that is currently selected