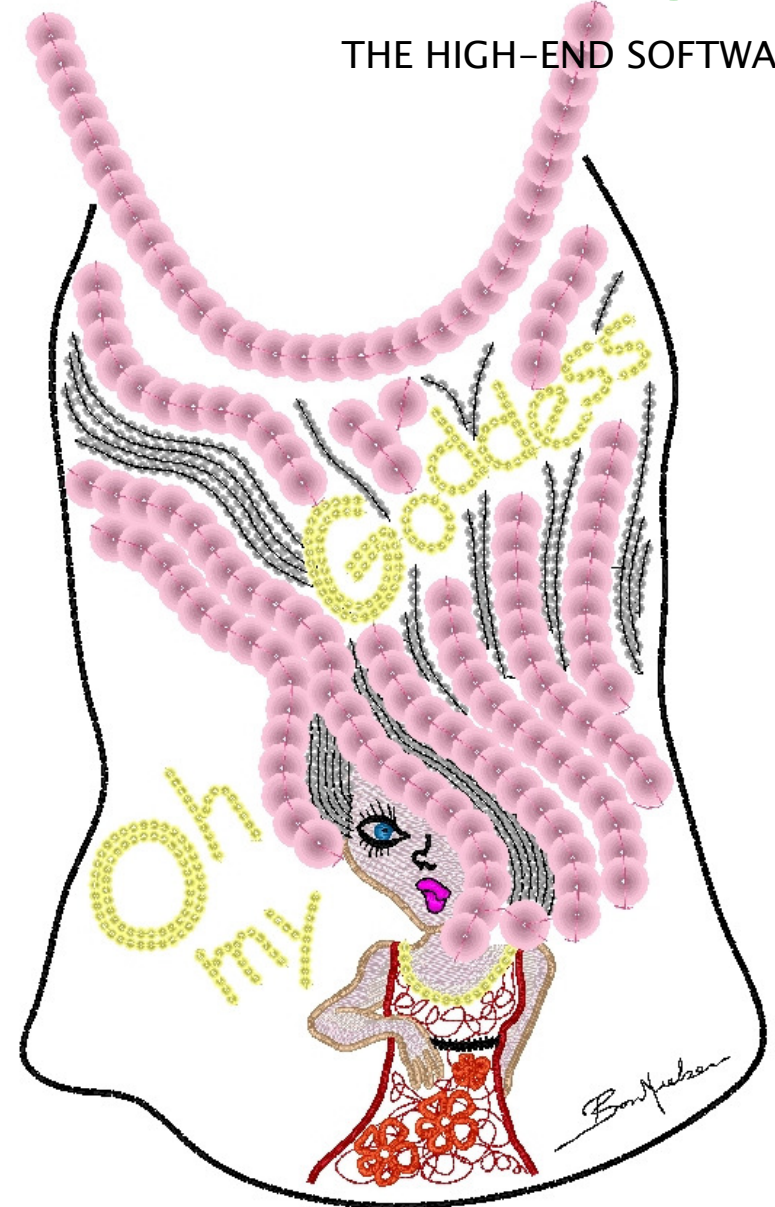


EPCWIN

THE HIGH-END SOFTWARE



News History

Version 1.10 – bis 4.00-07



Embroidery Software Partners

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News and Improvements from Version 4.00-06 to Version 4.00-07

- Windows 7 is now supported.
- The time limited passwords works now, when the password request has been mailed to ZSK from the EPCWin.
- **Sequin**
 - Vereinfachte Bandumschaltung beim Punchen. Mit [A] und/oder [B] kann während des Punchens das Band temporär umgeschaltet werden. Dazu muss die entsprechende Taste gedrückt werden. Beim Loslassen der Taste wird automatisch auf das vorherige Band zurückgeschaltet. Es sind auch beide Tasten möglich für AB.
 - Simplified change-over of the tape when punching. With [A] and/or [B] you can exchange temporarily from one tape to the other while punching. Therefore you must press the corresponding key. When releasing the key, the last used streamer will be activated automatically. Both keys are also possible for AB.
 - The „Print and Statistics“ Option support also the Twin Sequin and the different sequin forms. Equally support is the Twin Sequin and sequin forms when TC-Exchange between the GIS Base Pac and EPCWin.
- **Block**
 - The error when loading a block in a new design is corrected. An additional stitch has been inserted, when in the design head the Start point has been applied in the center of the design.
 - The function Delete Block has been totally revised. There were sometimes errors in the data structure when deleting blocks.
 - Already copied or loaded designs, when F2 (copy block) the first stitch of the block has not been copied. Instead of that a 0-stitch has been added.
 - Graphical errors when using the bounding-box have been corrected.
 - The block creation under Object [F3] [6] works now also when the first object of the design has been selected.
 - When a block has been loaded with [Strg] + [V] you can now directly load the block again with [Strg] + [V] without confirming the one before.
 - When a block has design lines with repeat rules, these will be correctly processed.
 - In the function “ assign repeat rule “ [4][4][4] punching data’s will be now processed.

- **Program 34 TrueType-Monogram**
 - The order of embroidery inside the letters has been improved, particularly on overlaps.
 - The dialog for parameters can be confirmed with the right key and cancelled with the middle key of the mouse.
 - The zero-stitch has been eliminated when doing thread trimming.
 - There is a new TT-Font Editor.
- Replace outline : The outline in Program 14 and 15 will be closed.
- The calculation of an additional move at the design start- and end point has been corrected.
- If there are two or more needle changes directly in a row, each needle change can directed be deleted.
- The parallel function has been revised. Superfluous points on straight lines have been deleted.
- An error when creating contours in combination with [Alt] and Straight has been corrected.
- **Input/Output**
 - When reading from Tajima (DST) there was a displacement when there was a move in the STOP function.
 - When output on TC, you can adjust the maximal needle quantity. This should avoid problems on the machine when having needles on the design that doesn't exist on the machine. E.g. needle number higher then 15. These needle changes that are higher then the maximal needle adjustment will be converted into Stops. To get a needle change, you can adjust now a needle assignment when output on TC. E.g. Needle 16 -> Needle 1.
 - In the function „ Print and Statistics, the dialog „ Attitude on functions “ doesn't appear anymore.

News and Improvements from Version 4.00-04 to Version 4.00-06

- You can activate at most 2 computers with 1 CodeMeter. So far only one computer could be activated.
- **ZSK Twin-Sequin**
- In the Editor you can exchange the tape [a] or [b] while running, without selecting the stitch before.
- In the design head, in the dialog for the definition of the sequin, it is now possible to exchange the tape and the sequin device. The design will be automatically adjusted to that change.

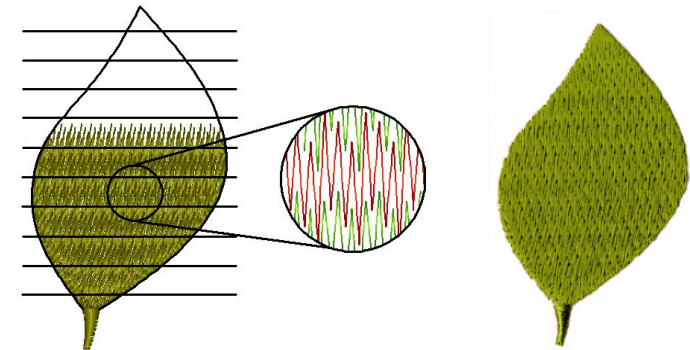
- In the statistics, the quantity of sequins for tape a or b will be separately counted.
- The filter in the editor finds now again sequin belonging to objects, e.g. from Program 35.
- **Repeat Rule**
 - When Program 42 is called for the first time, an automatical refresh will be done. The neighbor repeat will be drawn. The same will be considered when changing parameters inside a repeat rule.
 - Default values for the numerical creation of repeat rules, will be saved, e.g. Total high, quantity above/below.
 - When creating a vertical repeat rule, the X offset can be adjusted to half a repeat.
 - When changing a design, the right repeat rule will be activated.
 - The repeat rule will now also passed on to calculated lines that have been done with a drawing automatic (e.g. Honey comb). The same will be considered for both new lines on the function cut line.
 - When a punchdata block is copied based on a repeat rule, then the thread trimming is adjustable at the block borders.
- In geometry the default value will be considered when clicking on the right key of the mouse, also when a supporting point has been already defined.
- The error in the parallel program has been corrected. It appears in corners with a straight outcome, which occurred mainly at the end of a straight line function.
- The length of a drawing line will be shown at the input and in the editor.
- The last block selection can be reactivated with [3][7] . The condition is, after abandoned the block function, that nor editing nor inserting has been done in the design.
- The adjustments for the repeat grid on multi head designs with head selection has been simplified.
- In the Output „ General Path „, the file can also be written directly in the root directory of the drive e.g. D:\. This was before only possible in a subdirectory.
- The EPCwin dialogs are also now available as a Chinese translation.

News and Improvements from Version 4.00-01 to Version 4.00-04

- Old designs that contains Pro 34, will be opened now correctly.
- No Zero Stitch will be inserted at the begin of a design when the start point has been setted automatically, e.g: Start in the center.
- The automatical arc [4] [4] can be now designed to the left and to the right. Until now it was only possible on the top or on the bottom.
- The sequin size in Prg 35 will be shown correctly at the assistant menu.
- An error on the satin stitch underlayer has been corrected.
- The last used repeat number (or rule) will be adjusted automatically when opening a design.
- Now the sequin tape of the ZSK-Twin sequin can be change in the editor without an error.
- No error during the activate process of the CodeMeter

New features and improvements from version 3.61-09 to version 4.00-01**Punch**• **Program 14**• **Interlocked Satin stitch**

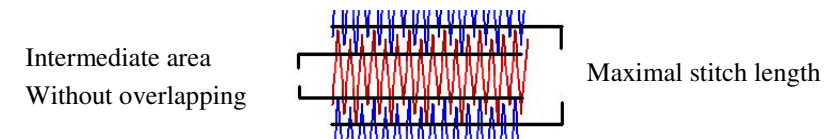
With the help of this new stitch type, you can easily fill areas with an interlocked (Iceberg stitch) satin stitch. Up to now, this was only possible with the punching of complex sequences of manual stitches.



An already defined area is split into many rows and one by one processed. According to an adjustable interlocked sequence the rows will be interlocked. The interlocking method can be influenced by parametres like overlapping and displacement.

The interlocking rows or regions can be generated manually or automatically.

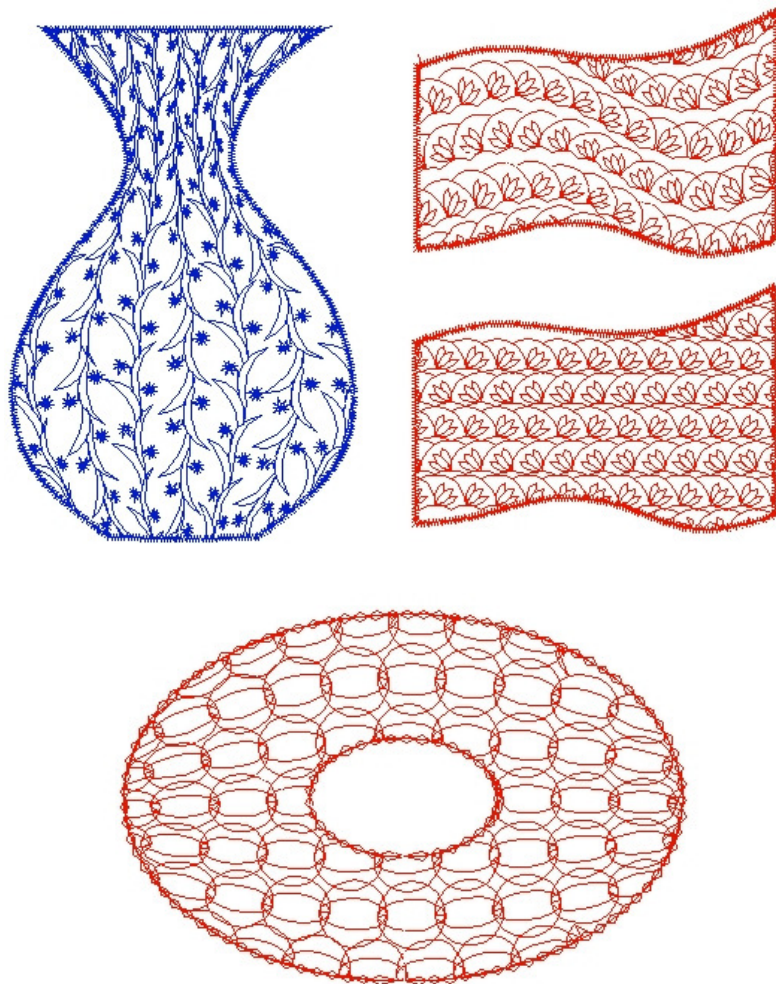
- With the manual input, each interlocking line will be defined manually.
- With the automatic creation of interlocked stitches, you input only one interlock line. With the adjustable parameters *Maximal stitch length* and *intermediate area*, parallel lines will be created automatically to the defined interlock line, so that the complete object area is covered. Each individual line can be manually optimized in the editor. Moreover, the parameters can also be modified. For this you select the interlock line and by [F11] you have access to the dialog of parameters.



- **Macro**

This new stitch type of program 14 replaces program 13. The stitch macro will be selected from the EPCWin block directory. With parameters like block distance, line distance, shift and mirror, you can influence the way of spreading of the macro inside the area.

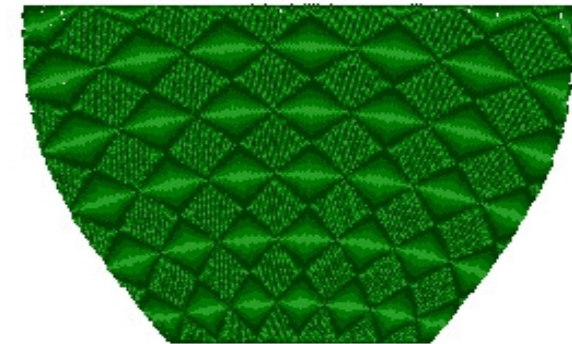
On curved stitch directions, size adaptation of the macro will create a 3D effect. On small locations the blocks are made proportionally smaller and on large they will become bigger.



- **Stencil (Stitch pattern for step stitch fill)**

The already existing stencils from program 10 will be also applied in program 14. In the calculation, the basic rhythm, which divides long stitches, can be activated or deactivated. Thereby will be distinguish effect inside and outside of the stencil. This creates e.g. a satin stitch effect inside the stencil and a step fill effect outside of it. (See image). In program 14 there is no distortion function for the stencil. The size of it will always be proportional.

Through a curve stitch direction, you can reach 3- dimensional effects in the stencil fill. (See image)









- **More improvements in program 14**

- The overlapping is now adjustable as an absolute value. According to the adjusted quantity, the stitch rows will be embroidered double, when two areas have a contrary course.
- From rhythm 1 – 8, the result of the stitch rhythm effect can be mirrored.
- The covering stitches can be provided with a “swing“ (light zigzag). The stitches will be moved to left and right of the running line according to the adjusted value.

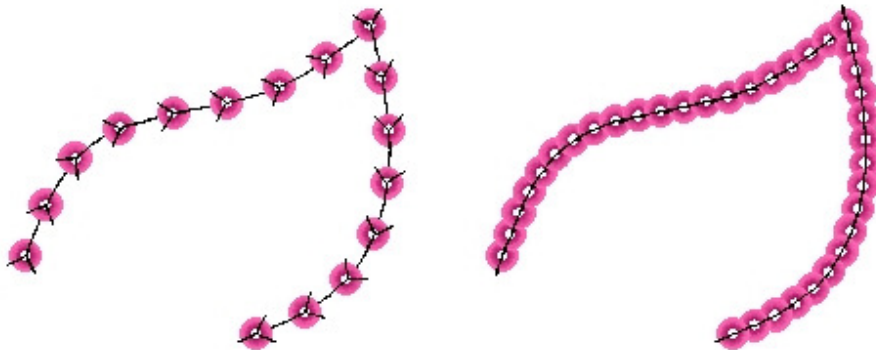
- **Program 35 Automatic Sequins on a contour**

6 different stitch variations are available. Other parameters have further influence on the stitches which fix the sequin. The result is a variety of stitch effects, which can be controlled in the parameter set in the preview. Sequins can be spread overlapped or with a distance between them.

	2-point row		3-point row
	Y-Stitch		I-Stitch
	E-Stitch		V-Stitch

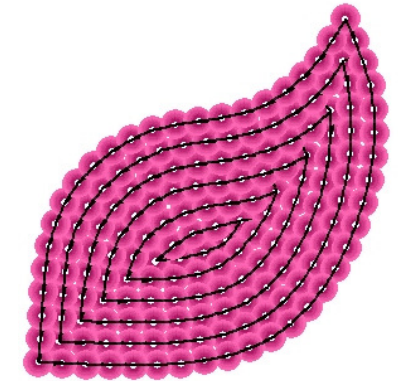
While generating the stitches, the program ensure, that the last stitch before setting the sequin is set in the upper respectively in the back area. (09:00 - 03:00 hs). Consequently a 'shoot' of the sequin against the thread will be avoided.

This method demands more stitches, but its necessary to reach a high and trouble-free production.




The end point can be selected freely. If it is settled in the middle of the contour, the contour will be automatically divided and calculated in two segments. Between the segments, pick up running stitches will be performed automatically.

Surfaces with sequins can also be filled fast and individually. Therefore you can draw with the drawing program parallel lines with the desired distance. With Program 35 you just snap those lines and they will be filled automatically with sequins. Advantage: You can optimize and modify each and every line in the editor.



- **Support of the new ZSK Twin Sequin Device**

With the help of this new developed ZSK Twin Sequin, it is possible to embroider for each sequin device two different types of sequin, which will be conducted alternately on top of each other (a and b). To punch designs for the Twin device, you have to adjust this sequin definition in the design head.

With  the setting dialog will be opened. Now you can define separately for the right respectively for the left sequin device for lower tape and for upper tape. Size, colour and sequin shape are adjustable.

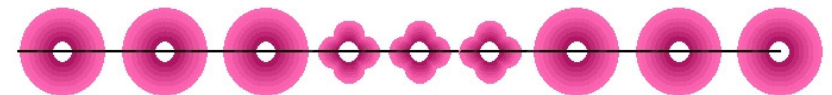
While punching, with special function 50 respectively 51 you activate the sequin device. Each tape can be selected with the following key combinations:

[F9] [1] = Activate tape a (lower)

[F9] [2] = Activate tape b (upper)

[F9] [3] = Activate tape a and b (both sequins will be set at the same time).

Works only with the same sequin size, but with e.g. different shapes.



Note: With EPCWin 4.0, the denomination of the sequin device has been changed. From **1** to **R** (right) and from **2** to **L**(eft).

- **Support of sequin sizes up to 22mm**

A sequin size until 22mm can be selected.

More improvements in punching

- With [Alt] manual stitches will be set incrementally angled. The stitches will be set e.g. in 90° vertically or horizontally. With [F4] you can adjust the angle, like 15° and 45°.
- With [F4], the length of the manual stitches can be limited. According to the adjusted value and the cursor direction a manual stitch will be set. The limitation will be shown by a small line on the rubberband.

Definition of contour (Spline) in Punching and Drawing

- If you are working with the Arc Mode [4] [4] and a point of the arc has been set, with [Strg] a semicircle will be shown. Depending on the position of the cursor the semicircle will be open on the upper or the lower side.

Editor

- After changing parameters in the parameter set, the object will be automatically calculated without pressing [Return] . This option is adjustable under *Default Setting/Editor*.

Block

- The block tools [F4] has been revised.

-  **Alignment**

With this new function any design part can be aligned left,- right or centred related to a preassigned block (Master block). The block can also be adjusted into the same height, width and size of the master block.



Likewise an alignment line (horizontal or vertical) can be defined, on which blocks can be aligned.

These alignment lines can be activated/deactivated under the View function [F2].

Block tools

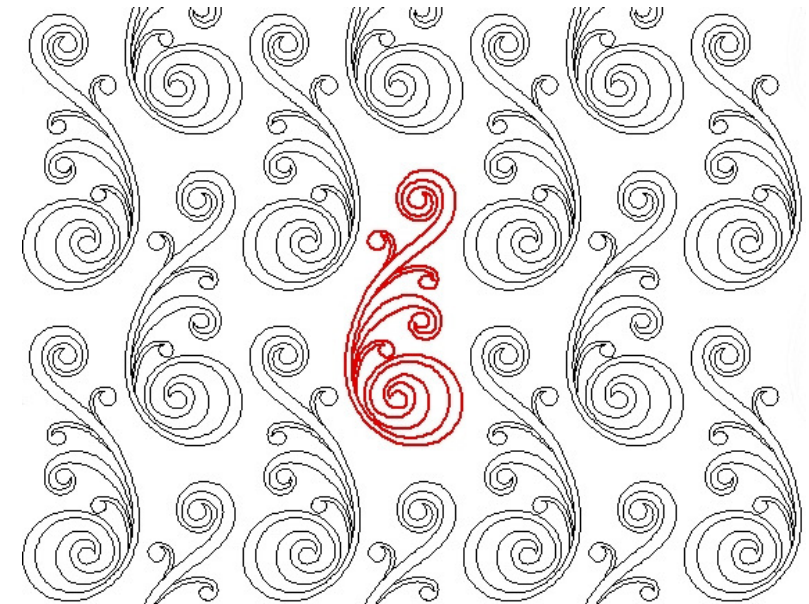
-  **Automatic repeat in the X and Y axis**

This new function allows to repeat drawn and punched design parts with a repeat rule. There are vertical-horizontal- and circle repeat rules. The horizontal and vertical rules can be combined.

An assistant helps while adjusting the parameters. Therefore e.g. a design part can be repeated n-times oriented to an adjusted total height. The distance between each part will be calculated automatically. At the same time an alternate mirror of each part or of the whole design can be adjusted.

Using the graphical creation of the repeat rule, the parameters will be automatically generated while moving and distorting the repeat-block. The repeat of drawing lines is virtual; it can't be selected. When a drawing line of the main repeat is edited, the repeat lines automatically change at the same time. Thus a repeat connection in all four directions is easily to control and to optimize.

If punching data's are in the block, they will be copied according to the repeat rule.



- **Blocktools**



- **Marking**

Apart from the marking of the centre of the block, the block dimension can be marked with corners and /or edges. Size and colour of the marker lines can be adjusted.



- **Load block in new design**

With this function a new design will be directly opened into which the selected block will be automatically copied.



- Punched stitches and contours will be converted into drawing lines.

Drawing

Program 42

Program 42 serves now to select and activate repeat rules which were assigned before in block tools. New drawing lines are drawn with the activated repeat rule. The former functionality of program 42 will be simulated with a repeat rule. If there is no repeat rule defined in the design, this special norm will be defined automatically at the first call of program 42. Respectively left and right a repeat of the head distance or Shuttle repeat will be shown.

Design Administration

- **Print and Statistics – New program option**



This new program option offers considerably more possibilities to print designs as the former standard print program.

The main new functions are:

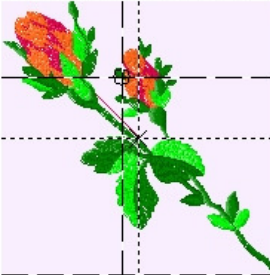
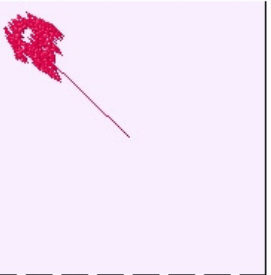
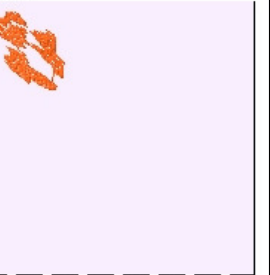


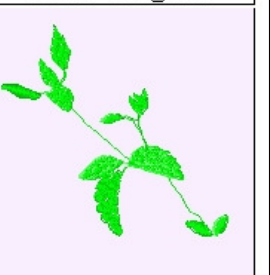
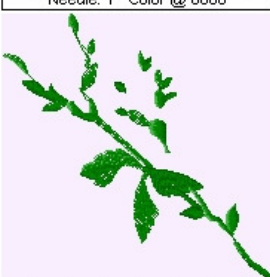
- Needle sequence in embroidery order – a design part between each needle change, in its colour and chronological order, will be printed out as pictograms (see picture on next page)
- Print of colour catalogue – up to 16 different colour settings of one design can be printed on an A4 size page
- Print of directory catalogue – up to 16 different designs can be printed on an A4 size page

- Specific filter functions for:

- Histogram of special functions (chronological order of special functions)
- Statistical summary for e.g. consumption of thread

ZSK EPCwin Page 1/1
 Number: 1141.01 Design name: Roses Customer:

starting point: ----- ending point: ----- Factor: 0.59

 Factor: 0.59	 Needle: 1 Color @ 0000	 Needle: 2 Color @ 0000
 Needle: 1 Color @ 0000	 Needle: 2 Color @ 0000	 Needle: 3 Color @ 0000
 Needle: 4 Color @ 0000		

Date : 24. 2.2009	Time : 9:55	Prize : 0.00 EUR
Size : 102.6 / 102.4 mm	Startneedle : 1	Trimming : yes
starting point : 51.3 / 51.2 mm	Needles per lex 4	Boring : no
ending point : 45.1 / 74.4 mm	No. of Stops : 0	Sequins : no
	max. Stitch : 12.4 mm	Stitches : 5823

Design head

- The start – and end point can be independently of each other adjusted in the design head. Until now the function “start at centre” has been used. Therewith, the start point was always in the centre of the design. The endpoint was always controlled with the special functions: 60,61 and 62.
The new functions summarize both. In a dialog, the start point can be placed e.g. at a right lower and the end point at a right upper position. When saving the design, a jump stitch will be inserted at the beginning and the end of the design. An additional offset movement can be added to the start- and endpoint.

Display

- Under View [F2] the dialog for the repeat representation [*] has been revised. Now we distinguish between the representation of only one repeat and a full repeat. The repeat can be shown in original colour or the repeat colour. Other adjustments are:
 - Separate activation of the left and right representation
 - Number of heads in full repeat respectively number of needles for Shuttle embroidery
 - For complex designs with head selection, there is a special representation, in which the stitches of every head will be shown in a different colour. With the help of a repeat grid or help lines, you can control during the creation of the design, if the head is exceeding its allowed working area. Please note, that the “real” side movement of the frame is shown in the design head. When calculating , repeat jumps will be accordingly considered.

In general

- **Support of the wheel of the mouse**
Zoom function with [Ctrl] + <Wheel>. Rolling the wheel to the back, means [Page up] and to the front [Page down].
In the Editor [F6] the rolling of the wheel causes a run through the stitch list. Rolling to the front means a line down at the stitch list and to the back a stitch up at the list.
- With [Ctrl] + [Tab] you can exchange between multipresent designs.

More improvements**Punch**

- In Shuttle embroidery you can always set sequins, even when in the meantime the editor has been used.

Contour

- When snapping a closed contour and thereby the startpoint is moved, the transitions between curve and straight will be correctly calculated.
- **Program 12 – Cross Stitch**
 - Until now, the start point of the grid was always at the last stitch, respectively, when cross stitch objects have been done, the start point could be taken over from that last cross stitch object. The program has been changed to the effect, that the cross stitch grid lies at the start point of the measure line, when the cross size or position has been defined by 2 points.
- **Program 31 – Chain up blocks**
 - If there are objects of program 14 in program 31, they will be now correctly chained up.

Block (Operating speed)

- In connection with block operations, the working procedure has been considerably accelerated, especially when building and processing blocks in punching. There is no calculation when saving or loading a block. Certainly it will be, when changing size or rotating it.

Representation

- The representation of designs in the True View I/II has been revised. The procedure will be executed without any interruption. Furthermore, the sequins are shown more vividly in the True View. The order of embroidering stitches is considered, in which stitches laying under the sequins are not shown.

Fonteditor

- New fonts could be created until now only based on TrueType fonts. Those fonts are converted automatically and need to be adjusted only at few points. Now the additional possibility to create Fonts from scratch is given. This can be based on a scanned image of a font. The created fonts are used identically to the fonts created from TrueType, so the fonts are scalable and can be used with shortest point connection.
With this it is now possible to create fonts where no TrueType pattern exists. The base line and the upper line are now movable for the complete font to make an overall size correction. The new red buttons are used to distort the letters at one side only. So the adaptation to embroidery specific needs is simplified.
With the new version it is quite simple to copy and paste single contours from one letter to the other to make it simple to extend letters maybe from A to Ä. The selection of the character to edit using the ASCII table is simplified.

- **New software protection with WIBU CodeMeter (CM)**

EPCwin 4.0 is protected against illegal use with a new protection system, the CodeMeter from WibuSystems. As the dongle before, the CM Stick is plugged to the USB-Connector of the computer. The necessary software drivers have to be installed in case of an update. Choose point 4 during the installation.
When updating to EPCwin 4.0, the existing dongle **must be** replaced by a CodeMeter.



Note

Updating from Version 1.x/2.x/3.x to Version 4.0. is subject to a charge. You need new passwords for Version 4.0; these are available from atelier@zsk.de.

DEMO days installed with Version 1.x/2.x/3x are retained and do not expire.

NEW SECURITY DONGLE: Starting from EPC version 3.60 it is essential, that you install the new version of the Wibu-SYSTEMS security software, to support the new CodeMeter hardware.

New features and improvements from Version 3.50-06 to Version 3.50-09

Working Speed (large designs with many stitches)

- In connection with blocks, the workflow has been speeded up in several positions, especially the composing and processing of blocks within punching. If a block is saved or loaded, it will not be calculated any longer. If, however, this block has been increased, made smaller, or turned before, it will be newly calculated.
- The drawing of designs in TrueView-Display II has been revised. The drawing procedure is carried out without interruption.
- The print out of a design section has been optimized.
Tip: If you want to print out a section in TrueView, please define the section first, and only second adjust the print view to TrueView.

Pictures

- An error treatment for non-supported *.jpg Formats has been implemented.
- The Temp folder is now automatically emptied after the converting of picture files.

Shifli Embroidery

- The placing of sequins is now also possible when the Editor was called up in the meantime in Punching.
- It is possible now to adjust the start number of repeats, even if the requested new number is the last number of repeats in the design.
- During code output Lässer, the „Acting on Functions“ is automatically adjusted on „Lässer“.

Programme

- During programme 31 and 32, the corners in the contours for the used blocks are taken over aright. Up to now, corners were not taken over, but changed into curvy supporting points.

dxf Import

- Lines with up to 2000 supporting points are duly supported now. The change from straight lines to curves has been revised.

New features and improvements from Version 3.50-05 zu Version 3.50-06**Punching**

- The default stitch direction for program 10 and 14 is memorized correctly now.
- The last used type of contour entry ([4] [2] - [4][4]) in program 14 again is activated after input of stitch
- position.
- During program 31, sequins again are worked off correctly.
- Several problems in choice of head selection have been removed.

Contour

- The limitation in length in the straight line function [4][3] is now carried out correctly.
- In the contour creation it is now possible to switch over with Alt Gr into straight line mode.
- If a contour is finished with pressed Alt-button, the next contour will not begin in the straight line mode.

Block

- The pivot in block (target) was not shown sometimes.
- Block Increasing/Decreasing/Distortion with punch data:
Until now point of reference changing data was the opposite holder of the box. In the new version you can chose whether the first stitch of the block it to be the point of reference. For this you have to click shiftably in the settings/Editor the tick in section block reference point. Then, the first stitch of the block ist the reference point for the calculation. If [Strg] is pressed when moving the holder, then the opposite holder is the reference point.

Diskette

- No more errors when editing in Tajima-Format in connection with trimming.

Misc.

- Now, further resolutions (1280x800, 1280x960, 1400x900, 1440x960, 1400x1050) are supported by
- directory- and block-pictogram depiction.
- After a new installation, the offered back-up path can really be used.
- The drawing speed of reference data of objects with many contours respectively stitch directions has been increased.

New features and improvements from Version 3.50-03 zu Version 3.50-05**Program 10**

- Stichtuft-Automatic: Under the parameters you can activate the Stichtuft function to calculate an object. The divided areas will be done one after another, without any transition stitches. Long distances between areas will be automatically trimmed.

TT-Monogram

- You can now insert stitch directions in the converted objects of TT-Monogram. An already existing or inserted stitch direction can be changed into a miter corner. For this, you click on the stitch direction line (not a point). With F3 you activate the miter on or off.
- When calculating the fixing stitch sequences, it will be consider the real width of the satin stitch, according to the adjusted pull compensation.

Satin Stitch

- The problem with centerline is resolved. In certain cases, the width was changed to 0.

Design management

- A problem with the protection in the administration of designs for Schifflli has been resolved.

New features and improvements from Version 3.50-01 to Version 3.50-03**Program 14**

- The area underlayer is always divided now when stitch length bigger 0 is chosen.
- Box -> [F11] -> Distance: The changing of stitch distance is now also applied to objects of program 14.

Program 20

- Free end point on side lines is supported again.
- Sometimes in Global Editor, the calculation was wrong and one movement too much was calculated.
- Closed side lines are now calculated perfectly. The number of movements now corresponds to the adjusted value in the parametre setting.
- Bean stitch: Shortening of stitch bigger 99 % is supported now.

Program 34

- The &-symbol is shown now in the symbol table of program 34. Please call this symbol table with [ALT] [F1]
- After inserting symbols via symbol table, the pull compensation is no longer filled with incorrect values.
- In the new version of Font Editor the special symbols & % etc. are depicted correctly.

Editor

- An absolute changment of border width for satin stitch can be carried out now in Global Editor with any number of decimal places.
- Error when breaking off function „extending contour“ has been removed.

Design

- Double wabenhoehl: an area was not filled completely when the reference point had been shifted far away from the middle.

Design Management

- The real way of proceeding in X-direction in the design header is shown now with designs with head selection respectively needle selection.

In-Output

- Tajima: The setting for „*Jump Stitches as stitches for movement*“ remains.
- Lässer: When loading in a design, no „hieroglyphs“ are entered into the area for name of design and customer.
- The setting for the picture in “view of print” remains.

Other

- The breaking off of design function in TrueView-Mode with Q is effected now without noticeable delay.
- The user surface is also available now in French and Chinese.

New features and improvements from version 3.00-09 to version 3.50-01**Note**

The update to version 3.5 is free of charge for all licensees of version 3.0.

Updating from Version 1.x/2.x to Version 3.5. is subject to a charge. You need new passwords for Version 3.5; these are available from atelier@zsk.de .

DEMO days installed with Version 1.x/2.x/3x are retained and do not expire.

New features have been added to the following parts of the program:

- Punching
- Contour (spline)
- Point/Corner/Straight Line
- Block data
- Design manager
- Input / Output
- Display
- Data capacity for punch designs
- TT monogram

The following parts of the program have been improved:

- Punching
- Point/Corner/Straight Line
- Block data
- Contour (spline)
- Design
- Schiffli design
- Link image
- Design manager
- Input / Output

New functions

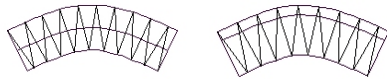
Punching

- When stitches are being input manually, grid lines, help lines and outlines or contours can now be approached with [Shift] + <Left>.
- In addition to the conventional round sequin, other shapes are now offered as well in the design head.



Satin stitch

- Circle input [F7]: The width can now be set numerically as well.
- Center line input [F8]: The ratio of side 1 to side 2 can now be varied. Until now, the division was always the same. Select 50:50 to set an equal ratio between the sides.



As before, the 9 most recently used border widths are offered. Special programming allows the system to switch between the two most recently used values when [F11] is pressed (as with program selection).

- In the parameter set of programs 6 and 10, the stitch sequences and stencils are selected in a new dialog which also permits scrolling.
- Program 14: The short-long rule can now be deselected.
- Programs 14 and 15: The jagged parameter input is now made in a separate dialog that can be called in the parameter set of the relevant program.

Contour (spline) in punch and design

- In the straight-line mode [4] [3], a length restriction can now also be set, so that you only have to stipulate the direction of the straight line. The corner is automatically placed at a distance from the preceding corner corresponding to the set length. In addition, the cursor now engages in increments of either 15° or 45°.
- When entering under [4] [1] and [4] [2], it is now possible to switch temporarily to the straight-line mode [4] [3] with [ALT].
- When entering stitch direction markers, you can now enter vertical, horizontal or sloping direction markers (15°/45° increments) with [ALT].
- In arc mode [4] [4], press [Ctrl] + <Left> to switch automatically to [4] [1].

Parallels

- The 9 most recently used parallel spacings are offered again. Special programming allows the system to switch between the two most recently used values when [F11] is pressed.
- Double-sided parallels can now be created. This function is available with drawing line creation and in the drawing line editor.
- The maximum deviation of the parallels can now be entered in $1/10$ mm increments. With lower accuracy, fewer reference points are used.


Point/Corner/Straight Line

- In the move contour function (punch/design) a reference point can now be inserted with <Right>. **Caution:** This cancels the option of moving the line into the box with <Right> in the drawing line editor. To call this function, press [F3].
- Contours and drawing lines can now be extended. For this purpose, the initial and final points must be selected in the editor, and [Insert] pressed. You find yourself in the contour definition function with the full range of options available.
- Auxiliary lines in program 20 can now be detached with [F2] for insertion at a different place. It is now no longer necessary to press [Shift] for insertion. It is sufficient to select the desired position with <Left>.
- Special function editor extended: Function [F7] allows the order of special functions in the stitch list to be changed. This function is primarily required in designs with head selection or where the head type changes (F, K and W heads), when the correct embroidery sequence depends on the order of the special functions.
- The two outer contours for satin stitch (1) and curved Ziegelhöhle (16) designs can now be swapped to obtain a different stitch calculation.

Block data

- Block names can now be edited in the pictogram directory of the block manager [3] [9].
- The *Reduction of points* [4] [,] [9] function reduces the number of points on a drawing line. The function is applied to all drawing lines in the box. The *Accuracy* (1/10mm) parameter monitors the permitted deviation from the original line. This function can be used when importing vector formats (dxf, emf), for instance, if the number of points for contours is too large.
- Blocks can be converted from multi-head to schiffli and vice versa. Special functions contained in the block are converted if possible. Functions that cannot be converted are removed during reading-in.

Design manager

- Protective mechanisms when several EPCwin systems are working at the same time on one directory:
 - This function is selected in *Settings / General / Access protection of designs and directories*. This function is deselected when Version 3.5 is installed as an update or for the first time, or re-installed.
 - A design that is currently being processed is marked by an * in the final column of the directory. This design can now no longer be opened by another user. It is barred from access. After it has been processed, it is automatically released for access again.
 - Access to the directory is barred for others while one user is loading or saving a design, or importing a design from a disk, for example, copying a design from the directory or saving an image after scanning. For this reason, the forenamed operations should be completed speedily in order to restore access to the directory to other users.
 - The  function in the text directory allows all barred designs to be released for access again manually in exceptional cases if the automatic release function has failed. This could be caused by a power failure, computer, network or software problems etc..
 - To ensure the function operates correctly, it is essential that different computer names are used.
- Conversion between multi-head and schiffli
 - Designs can now be converted from multi-head to schiffli. Special functions contained in the design are converted if possible. Functions that cannot be converted are removed.
 - During conversion from schiffli to multi-head, a thread trimming operation is now inserted with *Needle bar off*, depending on a variable jump stitch length.

Input / Output

- The read-in routines for DOS disk formats ZSK TC, Tajima and Melco have been optimized so that several designs can be read in from disk in a single operation.

- **Reading Lässer data:** The *Small thread guide*, *Large thread guide*, *Thread tension* and *Lock device* special functions can be specifically filtered out. This allows the number of special functions in a design to be reduced to allow faster working.
- **Reading and writing Lässer data:** Support for thread trimming special function
 - **Punching:** The *Needle bar off* function is punched with *Trimming* in the design.
 - **Output (MST):** During the output you define the subroutines for fixing (6 - 10) and starting (1 - 5). The selected subroutines are inserted in the correct position before *Needle bar on* or *Needle bar off* during code output to MST.
 - **Reading in (MST):** During reading-in, subroutines contained in the code are replaced by *Needle bar off* and *Trimming*. One subroutine each for starting and fixing is stored in the design and offered again during subsequent output.

General

- Widescreen TFT monitors are now fully supported as well, so that a circle, for example, is also actually displayed as a circle. For this purpose there are separate screen factors for X and Y. To determine the two factors first set both screen factors (X/Y) to 1 in *Settings / General*. Now open a new design and create a square with sides 15 cm long in *Geometrie Rectangle* (numerical input). The zoom factor must be 1. Take a ruler and measure the actual horizontal and vertical lengths of the square on the screen. Calculate *Screen factor X* as follows: 15 / horizontal side length. Calculate *Screen factor Y* as follows: 15 / vertical side length. Now enter the two values in the associated fields (3 places after the point) under default settings.
- **Data capacity for a punch design has been doubled:**
 - Maximum number of reference data/stitches/parameters = 1,200,000
 - Maximum number of programs in a design = 8000
 - Maximum number of special functions in a design = 12000
 - Maximum number of markers in a design = 4000
- **New TT Font Editor Version 2.02**
 - Support for miter corners.
 - The character height can now be entered to allow editing with realistic size proportions.
 - The measuring function can now be called with `[Ctrl][L]`.

- **New and modified fonts**

More than 90 edited fonts are now available. During the update operation, the updated TT monogram font files were installed in the directory

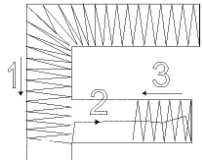
../EPCwin/GiSFonts_350_01.

If you wish to use these updated fonts in EPCwin, copy all or individual TT monogram font files to your data directory. Note that any fonts stored under the same name, including ones that you have edited, will be **overwritten**. The copy path is usually as follows: *Program Files/EPCwin/GiSFonts_350_01* to *../EPCwinData/GiSFonts*.

Improvements

Punching

- During fast jump stitch entry (**[Ctrl]**) in multi-head, each click is now recognized as a jump stitch. Previously, roughly every second click was a stitch point.
- **Satin stitch**
 - The fault occurring whereby the jagged function in satin stitch was not carried out or not executed correctly with certain underlay parameter settings has been corrected.
 - Normal stitch direction markers are now no longer drawn into the corner of a contour.
 - In the case of corners with a straight run-out (square with oblique) the corner stitch direction markers are now "pulled in" as if by a magnet as well.
 - The stitch direction markers for miter corners are drawn more reliably into the corner of a contour.
 - If an additional stitch direction marker is omitted between two consecutive miter corners, an error message to this effect is now issued.
 - Circle input **[F7]**: Object creation can now be aborted while the stitch direction marker is being entered as well.
- **Center line**
 - When entering a closed center line, corners are now accepted as miter corners as well if the opening is moved. With parallels, miter corners are also incorporated.
 - If satin stitch with center line is called for a second time, the key for miter corner **[F10]** is shown as having been pressed if miter corner is on.
 - In the event of two miter corners occurring in close succession within the center line, a stitch direction marker is now incorporated at the half-way point.

- If it cannot be calculated, a normal corner is automatically converted into a miter corner (rather like a dunce's cap).
- **Underlay prog.**
 - The last stitch of the center underlay now swings out again as it changes over to the cover stitches, so that it is longer.
 - When changing over from the underlay to the cover stitches, the minimum stitch length is now taken into account as well.
 - The failure to shorten the center underlay at the end of satin stitch objects now no longer occurs.
 - Other faults relating to satin stitch underlay have been remedied.
- **Program 20 step-lines**
 - If several lines go out from the start point and the end point lies on one of these auxiliary lines, the stitches are now calculated.
- **TT monogram**
 - Different filling sequence in the case of letters with horizontals (e.g. Arial 'E'). Now the vertical is embroidered first, bypassing the middle horizontal. The system then fills the horizontal before resuming with the vertical. 
 - In the case of satin stitch filling without division, overlapping occurs not only with filling in the opposite direction, but also for filling in the same direction if filling has been interrupted for a horizontal.
 - Various minor faults affecting stitch calculation have been corrected, in particular with underlays and changeovers to the cover stitches.
 - The font preview is no longer shown immediately when the parameter dialog is called.
 - If the used font is not present in the system (e.g. reference data are from another EPCwin), a message to this effect appears on the screen.
 - If needle 0 is set, an error message to this effect is issued.
- **Programs 10 and 14**
 - A contour in programs 10 and 14 can now also be closed with **[Shift]** for start point round and with **[Shift] + <Left><Left>** for start point square.
 - Program 14: There is now better adherence to contours during stitch filling if additional stitch paths have to be inserted in order to switch to the correct side.
 - Error messages are now issued in the event of loops and contour overlaps in program 14. In addition, the error is marked.

- **Programs 31 and 13 chain-up blocks**
 - Manual jump stitches in the block now remain as jump stitches. Previously they were converted to stitch points.
- **Cross boll**
 - It is now possible to set the stitch distance again in the parameter set.
- **Parameters**
 - If a stencil or stitch sequence is edited when a design is open, the opened design is now no longer closed when editing is concluded.
 - When working in the parameter editor, the fault arising in certain cases of all stencils being drawn on top of each other has now been corrected.
 - **Needle design/head selection**
 - Long delays no longer occur after selection when using needle designs and head selections.
 - The *View* function now operates correctly in the on-screen dialog for needle designs and head selections if one or more entries in the design column is selected.
 - If a needle design is selected, the needle design concerned is now copied into the design under another number, if the number already exists in the design but refers to a different needle design from the one selected. The same problem has also been corrected with head selection, stencil and stitch sequences.
 - Numbers in the 1000 - 1999 range are now included when a needle design number is allocated automatically.

Point/Corner/Straight Line

- **Selection**
 - If you go back from [3] [5] marker ([3] [6] object) to [3] [1] when determining the type of selection in the editor, the object/marker filter is automatically deselected again, in other words you are returned to single selection.
 - The stitch list now shows the number of the current stop, with the exception of multi-colored designs in schiffli.
 - The icon for program type is now displayed correctly in the selection list. It always shows the program type for the following selection line.
 - If the editor is called with [F6], the first stitch is now preselected. This allows a special function to be edited with [F12] or the [comma key] directly in the number pad as well.

- **Satin stitch**
 - If a corner stitch direction marker is clicked on in the editor, the relevant corner reference point of the contour is also moved at the same time.
 - In the case of center lines, the first reference points of the contour can now also be deleted without the object width changing.
 - The software no longer crashes in satin stitch with center line if the miter corner is switched on with a stitch direction point (not center line reference point).
- **Program 20 step-lines**
 - The end point is automatically moved as well if it is positioned at the beginning or end of the contour and this contour point is moved. When entering the end point the cursor color changes to green if the cursor is approaching a contour end.
- **Program 34 TrueType monogram**
 - When resolving a monogram object (34), the envelope function is taken into account.
 - All underlay parameters of a resolved object can be adjusted, also the parameters of a miter corner.
 - When an object is resolved, the contours are converted correctly.
 - The selected envelope function remains in place after a density change with Global Edit as well.
 - The stitch distance of the object is now shown correctly in the editor assistant.
- **Program 12 cross-stitch**
 - The entered cross path in program 12 is now also displayed directly in the main editor [F6], so that it can be selected reliably.
- **Programs 31 and 13 chain-up blocks**
 - The block number used is now displayed again in the object editor assistant.
- **General**
 - When inserting a point in a contour, a corner is now added directly if the insertion point is located between two corners. The same applies to straight lines.
 - If a drawing object is deleted, the reference lines of the object are now not deleted at the same time. Consequently, these lines are still available to use again.
 - After a new design parameter set number has been entered, it is now no longer necessary to confirm it again with *OK*.

• Head selection

- A repeat jump can now be edited, whereas previously it was deleted instead.
- If the head selection has been modified, the associated repeat jump is now calculated and verification requested.

Block data

- With 'load block' the last stitch in the design is now no longer moved at the same time. An additional stitch is inserted if the loaded (copied) block is moved by more than $\frac{5}{10}$ and the first stitch in the block is an insertion point.
- If a block is deleted or the loaded block is removed with [ESC], the last special function / the last marker before the block remains in place.
- If two objects are only separated by a manual stitch and the second object is selected with [3] [6], for example, this block can now be deleted correctly without generating a data structure error.
- The problem with 'shift block', whereby blocks were not shifted correctly after trimming or a needle change followed immediately by an automatic program, has been remedied.
- If the embroidery sequence in the film strip is altered, this can now be confirmed with <Right> as well.
- Box now rotates counter-clockwise (in a mathematically positive direction) when the numerical input function [F11] is used.
- When [F11] is pressed in the box, the point of rotation is now taken into account even if the box only contains drawing lines.
- Point of rotation in the box
 - The point of rotation is now shown as a target.
 - The point of rotation can now be placed deliberately with [Shift] (grid, approach help line).
- Copy/save block: If a block was distorted/mirrored before saving/copying, the objects it contains are now calculated and/or resolved.
- After distorting/zooming the stitch direction markers are now trimmed on the outer contour.
- The problems in the object editor that occurred because an end point was not inserted in objects with program 20 when reading blocks created with EPCwin version 2.5 and below have now been remedied.

Contour

- Closing a contour is now supported in the straight-line function [4] [3] as well.
- Changes to arc contour definition mode [4] [4]
 - If contour input is interrupted the unfinished contour is now no longer left behind as a green line.
 - [Delete] can now be used for deletion up to the start of the contour.
 - When one arc follows on from another, the join is executed as a corner with <Left><Left>. A smooth transition is achieved by a single click. The same applies when an arc is followed by a curve.
 - [F4] (contour mode) is now available only at the first point of the arc.
 - When [Backspace] is pressed during arc input, contour definition is now no longer blocked if the first point of the arc is deleted again.
- If the 'result OK?' inquiry is answered with 'No' when using a parallels function, you now remain in the input function for parallel spacing.
- With 'repositioning opening', types of contour point (curve, straight line and corner) are now transferred correctly.
- The function for defining contours has been reworked with regard to contour parts.
 - In drawing lines that are used to create a new contour (punch/design), a reference point is no longer added.
 - Part lines that are cut out for pasting track the original line more closely thanks to additional reference points.
 - A curve / corner is incorporated automatically when two part-lines are joined, depending on the included angle.
 - If, in contour definition, a line was accepted in its entirety by clicking on the first and last points of the original line, distortion occurred. This happened only if the original line had a small number of reference points. **Note:** If a line is to be accepted in its entirety, simply click on the line with [Ctrl] + <Left> and confirm with <Right>.

Design

- If, when defining contours for drawing lines, the first point entered is deleted with [Delete], the program now no longer switches to the object editor of the last drawing object.
- **Geometry**
 - A joining point is now applied to the objects.
 - Stabilization points are not required with full circle as this is closed round.
 - With arc the number of points now depends on the included angle (usually lower).
 - In the case of default input with [Return] or <Right>, [Shift] is now supported for approach.
- In the case of drawing stitch direction markers, the corners that are to be approached are now marked permanently in color.

Schiffli Design

- The cut bored hole is now calculated more cleanly during the changeover from arc to straight line.
- The proportional size change was canceled with [Shift] + [Cursortasten] only in programs 20 and 23. [Shift] did not work in programs 21, 22 and 24. Proportional size change is now canceled in all 5 programs with [Shift]. **Caution:** In programs 20 and 23, releasing [Shift] no longer switches over to square. The current proportions are retained.
- The preview in the design parameter sets no longer disappears if you click onto the preview field.
- Crashes no longer occur when an older design is loaded with a drawing object (program 24, sloping grid).

Link image

- The link is now confirmed with <Right>. Press [Delete] to delete the link marker.
- The *Next link* function presets the correct default position for the previously linked image, in other words if you are linking from bottom to top, the default position is reset to bottom and not, as previously, to left. This now allows several images to be linked in succession.

Design manager

- With *Create Directory* the number of the design that cannot be correctly incorporated in the new directory is output.
- When converting from schiffli to multi-head designs, drawing objects are now converted correctly.

Input / Output

- Reading Lässer data: If the maximum number of special functions is exceeded, reading in the design is terminated. Afterwards the number and distribution of special functions is displayed.
- ZSK code: Output now also supports stop instead of needle change.
- The problem within the print preview, whereby the image could not be adjusted although present in the design, has now been resolved.
- The size of a dxf design is now transferred correctly when read in.

General

- The drawing speed of the reference data has become faster.
- In the overview window only reference data are now drawn if stitch data or parts thereof are deselected. This also helps to accelerate the display refresh rate.
- With 'move grid' in a design with head selections, the position of the first head is now marked by two yellow vertical lines.
- The legibility of the head numbers specifically for designs with head selections has been improved.
- In repeat view, reference data are now drawn correctly ([2] [*] [4], [2] [*] [5], [2] [*] [8], [2] [*] [9]).
- Additional data structure errors are correctly automatically. If automatic correction is not possible, the error is displayed in the editor. The area containing the error can be deleted with [Delete].

New features and improvements from version 3.00-02 to version 3.00-06**New functions**

- When reading Tajima stitch data, STOP functions can be converted to change of needle.

Improvements**Speed**

- Working on pictures can be effected smoothly and quickly again..
- The speed of drawing of contours and lines has been increased

Contour

- When the opening of contours is shifted, one corner is retained.
- With closed contours, the corner symbol is shown, when the opening is angular.

Editor

- If a point is inserted in a sub line of programme 20, only this point will be moved after the insertion, and not additionally the connection point of this sub line.

New features and improvements from version 3.00-01 to version 3.00-02**Improvements****TT-Monogram Program 34**

- The execution of automatic connections has been optimized.
- The determination of distance between the letters has been revised. This function is vital for implementing the special function “trimming” between the letters.
- The function “stitch in the middle between two letters“ has been improved.

Copy Designs from EPCunix to EPCwin

- This function is working correctly again.

New features and improvements from version 2.50-04 to version 3.00-01**IMPORTANT**

The new version converts the contours (splines) of existing designs. Designs that were created or edited with Version 3.xx can no longer be opened with Version 1.xx or 2.xx.

Before performing the update, therefore, make a backup of your designs and blocks.

New features have been added to the following parts of the program:

- Contour (spline)
- Punching
- Editor
- Block data
- Basic design
- Schiffli design
- Import vector data
- Help tools
- Design head
- Statistics

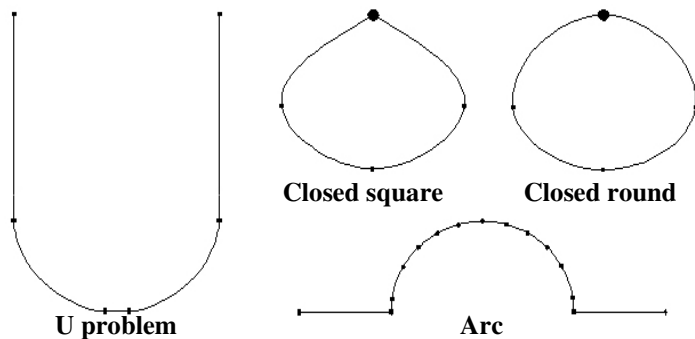
The following parts of the program have been improved:

- Punching
- Editor
- View
- Block data
- Basic design
- Graphics
- Directory
- Design head
- Input / Output
- Print

New features

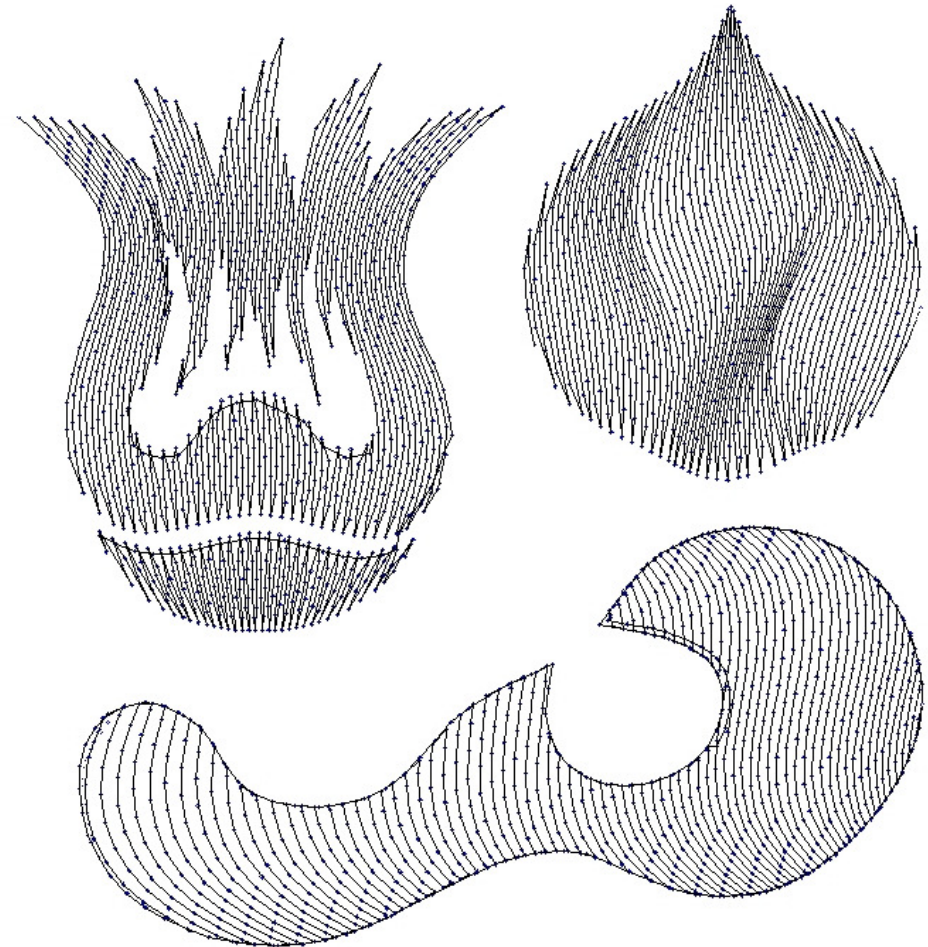
Contour (spline)

- The following options have been added to the contour function:
 - There are two new types of reference point:
 - Smooth transition from a curve to a straight line and from a straight line to a curve, e.g. U problem; the transition is selected with [4] [2] or [4] [1].
 - Straight line after a corner; this type of reference point is set in the editor.
 - Selective closing of a contour:
 - The contour is closed round with [Shift] <Left> on the contour start point
 - The contour is closed square with [Shift] <Left><Left> on the contour start point
 - Integration of arcs [4] [4] in a contour
 - In the straight-line mode [4] [2], a length restriction can be set, so that you only have to stipulate the direction of the straight line. The corner is automatically placed at a distance from the preceding corner corresponding to the set length.
 - The number of reference points for a contour has been doubled from 1,000 to 2,000. For program 10 and 20 this means that all contours together (outer counter and all holes or the main line and all auxiliary lines) can now have 2,000 reference points.



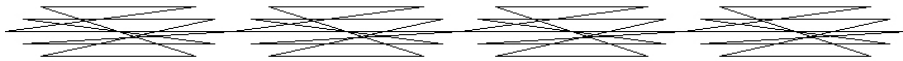
Punching

- **New program 14 for curved filling in complex areas**
 - Input of one or several curved stitch direction markers
 - Input of holes [F2]
 - Input of areas with a different stitch rhythm [F3]
 - Input of dividing lines [F4]
 - Input of secondary areas [F5]



• Program 20 Step-lines

- Free start and end point independent of main and auxiliary lines
- The main line can now have up to 5 paths (auxiliary lines up to 4 paths)
- Stitch repetition with growing and lateral deflection (swing) to give the stitch a more pronounced 3D effect (bean stitch)



• True-Type monogram 34

- Calculation of center line underlays
- Input of zero stitches ($X = 0$ and $Y = 0$ movement) in schiffli with [F7]

Editor

- Changing embroidery sequence and selection of blocks with the aid of the "Film strip" for schiffli designs.
- Insertion of zero stitches in schiffli. First select a stitch. You can then insert any number of zero stitches with [F7].
- True-Type monogram
 - Resolve object into reference data
 - Editing reference points
 - Editing stitch direction markers
 - Repositioning the end point

Block data

- While a block is being moved, the view tool can be switched on with [V]. This function is necessary because a different view is often required when selecting a block and for fitting.

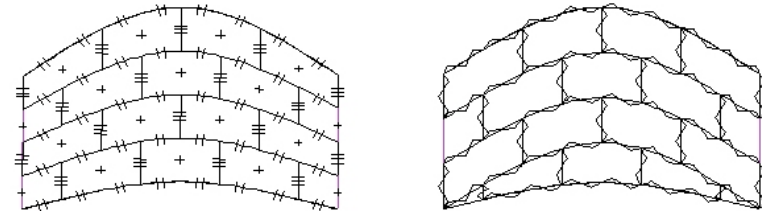
Design

- Creation of multiple parallels with the parallels function when defining contours.
- When stitch direction markers are being entered (program 40), a corner that is to be approached can now be entered directly with <Left><Left>. The corner to be approached is automatically transferred to the punch object.
- The color for the stitch direction markers is now saved separately.

Schiffli design (option)

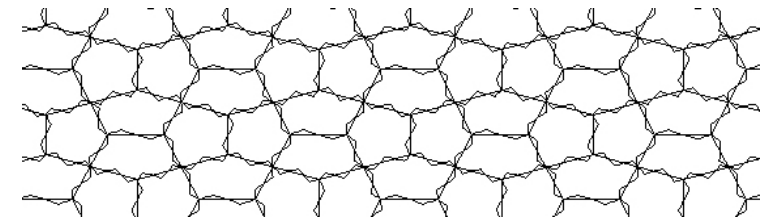
• Program 25 Curved brick filling

- Calculation with consistent number of rows; the brick height varies
- Calculation with consistent brick height; the number of rows varies
- Calculation of swing stitches



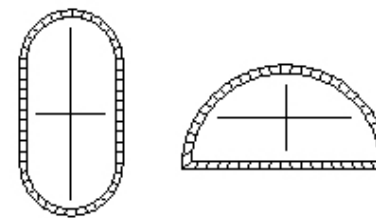
• Program 21 Wabenhoehl

- Dual execution with flexible hexagon proportions



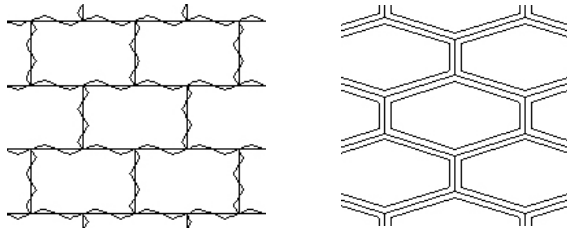
• Program 34 Oval bored hole

• Program 35 Semicircular bored hole



- Repeat fitting with hoehl-type filling (Bohrhoehl 20, Wabenhoehl 21, Ziegelhoehl 22, Stoffhoehl 23 and Grid filling 24)

- **Calculation of swing stitches or border help lines with programs 20 to 22**

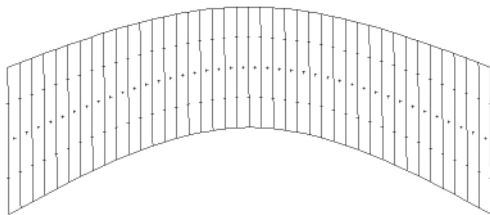


- **Program 24 Grid filling**

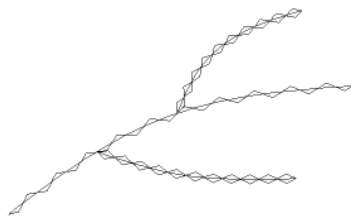
- Defining a shear angle
- Activation of punch preparation. With this function you can "snap" each individual grid line with program 20 [Strg]<Left> when punching the object. Program 20 Step-lines adopts the grid filling rhythm. This applies only if the step length set in program 20 is at least as long as the grid step length.
- Preview in the parameter set for filling programs 20 to 25

- **Program 1 Satin stitch**

- Input of dividing lines
- Any combination of step rhythms



- **Program 44 Step-lines with auxiliary lines**



Import vector data

- The import of *.dxf files has been revised.
- *.emf, *.wmf and *.ai files can now be imported as well..

Help tools / measuring

- The help tools now enable you to select a ruler with [F4].

Design head

- When making entries under *Customer* and *Group*, you can now define a selection list. The default texts are activated and defined under menu items *Utilities / Definition of lists*.

Statistics

- With the statistics function for schiffli, you can calculate the yarn consumption for each needle or each color. For this purpose, state how many needles and levels (1 or 2) the machine has. The number of special functions, bore points and sequins in the design is also counted.

General

- Screen resolutions up to 1600 * 1200 pixels are now supported.
- Integration of a warning that is triggered when the maximum number of stitches, special functions, objects etc. in the design is being approached. This function is automatically performed during interim saving and can be called from the main menu.
- Setting basic colors, e.g. for start and end points, insertion point, reference point etc. under *Settings / View / System colours*.

Improvements

Punching

- With small step-line objects, a stitch is always inserted on the contour or in the corner if *Shift* is set to ½ or ⅓.
- With program 31 Chain up objects, zero stitches are no longer calculated in corners.
- With program selection [F11] the preselected program number is now calculated correctly. The defaulted program number is different from the one that was most recently used. This fault has been eliminated in both design and punch.
- With satin stitch, a straight starting stitch is now calculated even if it is shorter than the set minimum stitch length.

- With the combination of jagged and sharp ("V") turn with programs 2 to 4 or program 5 types 2 to 8, long reversing stitches are no longer calculated. This fault occurred only in certain circumstances.
- With the combination of jagged, sharp ("V") turn and free end point with programs 2 to 4 or program 5 types 2 to 8, the running stitch line is not placed over the already calculated stitches. This fault occurred only in certain circumstances.

Editor

- The system remembers the current view setting when you exit the editor and recalls it the next time you call the editor irrespective of the entry in Settings.
- You can now switch a reference point from a curve to a corner and vice versa with the right mouse button.
- Find and replace special functions
 - The special function can be either replaced or deleted.
 - Under multi-head, if a needle change is to be edited, the stitch area for the relevant needle is depicted in color.
 - If a head selection (multi-head) or needle pattern (schiffli) is being replaced, the associated head or repeat jump can now be edited as well.
 - With the schiffli special functions thread brake and large and small thread guide, the values can now be edited.
- The border width of a satin stitch object with a center line can now be edited with [F11] in the object editor main mode as well.
- When [ESC] is pressed in the object editor, running now starts at the beginning of the object concerned.
- When a parameter set was being edited in the global editor, the global edit dialog was still visible in some cases, depending on the monitor resolution. When a button was clicked in this dialog, e.g. *Ready*, the system blocked.
- After View [F2], the marking of the currently selected stitches is once again visible.

View

- Colors can now be faded out in schiffli as well.

Block data

- When the block directories are displayed, the block path is now shown in the header.
- The size of the bounding box is now calculated correctly. In some cases the calculation gave rise to a bounding box that was much too large.

Design

- With *Geometry Circle* the numerical input for the circle now refers to the diameter, not the radius.

Directory

- When a design directory is selected, the system asks whether the block directory is to be changed as well. The block directory at the same level of the directory structure as the new design directory is the one that is activated.
- The entire text directory or only marked sections can now be printed.
- If the image of a design is deleted, the IDP identifier is now edited in the design head as well.

Graphics

- Sequins are now shown with a central hole in True View.

Input / Output

- SLC output faults eliminated, e.g. the zero stitch at the end of the design has been eliminated
- Elimination of fault associated with the output of stitches in Lässer code with more than 16,384 increments (~1.63m)
- Disks formatted for Lässer and Hiraoka can now accommodate other files as well
- Lässer code can now be output with thread trimming as well
- With ZSK old, switching the disk code between DOS(*.DSZ) and ZSK now operates correctly
- Jump stitches for trimming/needle change can now be generated when outputting to Tajima with or without movement

Print

- The syntax for the design number is now Number.Version, e.g. 12345678.01

General

- The fault that occurred when deleting designs in the backup directory has been eliminated

New features and improvements from version 2.50-03 to version 2.50-04**Improvements****Output Lässer MST-code**

- Outputting the MST-code for Lässer machines, a slight displacement of design in connection with the Lässer Editor during frequent repeat or colour changes (ATC) could happen. The EPCwin software has been adjusted now to guarantee an exact correspondence between the Lässer code output "MST" with the Lässer Editor.

Note:When "MST" design data with frequent repeat or colour changes have been output with EPCwin version 2.50-00 up to 2.50-03, and those design data are read back in with the new EPCwin version 2.50-04, a slight displacement of design is possible. In this case we recommend to newly output this design on the basis of the original reference data with EPCwin version 2.50-04 onto Lässer code "MST".

Rearrange sequence of blocks

- Thread trimming in moved blocks will remain

Copy blocks

- Problem with resolve of objects has been solved.

New features and improvements from version 2.50-02 to version 2.50-03**Improvements****Punching**

- TT-Monogram
 - The running underlayers have been improved.
 - The problems which occurred during *Connection way: Original* have been solved.
- Improvement of stitches at the contour under program 10.
- It is possible now in Shiffli to enter a normal stop function without colour change for designs with colour stop.

Editor

- When activating filter [F6] in the Editor, the first filtered stitch was not pre-selected;
„Stitches shorter than“, „Max“ and „Marker“ did not function in Shiffli.

- With fill objects (Prg 10), it was possible to open holes and contour.
- In Shiffli, [F11] (jump stitch) will not be evaluated anymore.
- TT-Monogram: No more crash, when the line is edited after [F4].
- From now on, a TT-object can be deleted in object editor with [Delete].

Block

- When crossing from Editor design line to Box (with [F3]), the contour now jumps back to its original position.
- *Chain up* and *Spread* is functioning again when the last geometric object, or the last edited design line has been loaded into the block with [F3] respectively.
- During loading a block, revs number 0 is no longer put in at the partial block limits now.

Design

- All design lines got the colour of the last line in the Shiffli design, after converting a Shiffli design to Multi-Head.

Measuring

- When the function measuring is chosen in the main menu, there is no more immediate scrolling.

Graphics

- In the presentation of rapports for designs with interchange, the needle colour in the rapports left of the main rapport is correct now.

Input / Output

- Incorrect writing of needle pattern has been resolved in NC.
- Shifting between ZSK old and TC is functioning now.

TT-Monogram Fonteditor

- Now, it is possible to chose another language in the TT – Fonteditor.

New features**Punching**

- Now, it is possible to enter more than 9 repeats under program 20.

Graphics

- From now on, screen resolution 1200 * 800 will be supported.

New features and improvements from version 2.00-01 to version 2.50-01**New features have been added to the following parts of the program:**

- Punching
- Editor
- Block
- Design
- Graphics
- Directory
- Design head
- Input / Output
- Printing

The following parts of the program have been improved:

- Punching
- Editor
- Block
- Image
- Design
- Help tools / measuring
- Design head
- Input / Output

New features**Punching**

- The image section remains unchanged in case of [Backspace] if the stitch is deleted after a trimming operation or color change.
- In the default settings for the *Editor* tab you can now decide whether the object is to be calculated immediately after the reference data have been entered.
- TT monogram
 - An envelope box is now available with one-line monograms.
 - The letters' start and end points are now freely definable in the TTFontEditor.
 - New transition variants are available between letters.

Editor

- The options available for *Enable barred objects* are *Yes*, *All*, *No* and *None*.
- Drawing lines can now be copied with [F2] without relocating them first with <Left>.

Block

- The selection parameters for rectangle and surround are now:
 - *Single stitches too*: block sections can consist of a single stitch.
 - *Only complete drawing lines*: only complete drawing lines are selected.
 - *Only complete design objects*: only complete design objects are selected.
- You can now switch between *Move block* and *Rotate block* with [F5] as well.
- Moving a box with the cursor keys can now be accelerated with [Ctrl].
- In the default settings for the *View* tab you can now decide whether the center mark is to extend as far as the block limits.

Design

- In *Spread* the *Mirror* parameter is now available as well.
- Both repeat types can now be used in a design at the same time. The full repeat (design program 42) now pays due regard to lines for which an individual repeat (executable in the block toolbox [F4]) was selected. These lines are not repeated. With *Delete repeat* in program 42 the individual repeat can now be deleted as well. Thereafter all lines are repeatable again for program 42.

Graphics

- Design repeat lines can be selected and deselected under *View*.
The shortcut is [2] [,] [,].
- *Repeat view* can now be selected with the shortcut [2] [*] as well.

Directory

- Schiffli designs can now be converted to multi-head designs.

Design head

- The total work time expended on each design is now stated in the header of the design head dialog. This information is also exported with *Export design info* under *Input/output*.

Input / Output

- In the default setting you can now specify whether the computer's floppy disk drive is to be designated drive A or B.

Printing

- A print preview is now available.
- You can now print out a special function histogram as well.
- You can determine whether white drawing lines are to be printed black.
- You can initiate printing with [Ctrl]+P.

General

- The position of general dialogs (e.g. Outcome OK? Yes/No) is now retained during a session. You can therefore position the dialog unobtrusively on the screen.

Improvements**Punching**

- In the case of objects (program 20) with a lot of auxiliary lines, the system generated jump stitches to a certain position in the design; this problem has been eliminated.
- Improved snap behavior with large zoom factors.
- The satin stitch direction is now correctly determined once the contour is entered.
- The running underlay no longer "swings" to the center line on the first path with running.
- If three paths are selected with running, the final two paths now "swing".
- With *Cut out contour*, superfluous stabilization points are no longer inserted.
- The current speed display in the assistant is now correct if you go back with [Backspace].
- [Shift] for *Approach line* now operates in the parallel mode as well.
- The cross stitch grid for program 12 is retained in conjunction with the *Measuring* function if the cross parameters are zoomed or scrolled.
- A fault that affected contour definition in connection with snapping has been eliminated. If you initiated a new line by snapping, you could not start with manual points if you went back to the beginning with [Backspace]. This problem has been eliminated.

Editor

- A special function is no longer deleted if editing ([F6]) is aborted.
- If the zoom factor is smaller than 1, the red/green marker points are no longer drawn in the editor. The work is no longer "erased", therefore, if you run through the design.
- When creating a line parallel to a drawing line in the editor [F9], automatic corner formation is now executed on the first occasion as well.
- Execution of the *Cut on contour* function no longer trims masked drawing lines.
- You can now select and deselect design marker points under *View* when inserting in the editor.

Block

- The repeat copy of drawing lines within the box tools is now correct.

Image

- The problems relating to entering the dimension system with designs that contain only an image have been eliminated.

Design

- In the distribution line for the spread function, you can now enter corners with a double-click as well.
- Entered drawing lines are no longer drawn in the repeat if repeat view is selected.

Help tools / measuring

- The default values for markers are now retained.
- The color of the remarks is now updated in the assistant if the color is changed before a letter is entered.

Design head

- The grid colors are now retained and do not change back to red if you print the design.

Input / Output

- The correct percentage is now displayed when a large TC design is being read.

New features and improvements from version 1.22-01 to version 2.00-01**New EPCwin options**

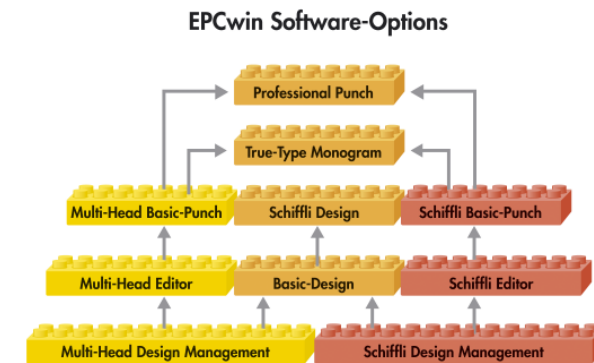
- TrueType Monogram
- Schiffli Design Management
- Schiffli Basic-Punch
- Schiffli Editor
- Schiffli Design

New features have been added to the following parts of the program:

- Punching
- Editor
- Block
- Global edit
- Design
- Measuring
- Graphics
- Directory
- Design head
- Input / output

The following parts of the program have been improved:

- Open / close design
- Punching
- Editor
- Global Edit
- Design
- Help tools / measuring
- Directory
- Design head
- Input / output



The modular program structure, matches your individual requirements ideally.

New EPCwin option: TrueType Monogram

- All Windows TrueType fonts are now available. Depending on your embroidery requirements, you can optimize an existing font with the TrueType font editor and save the result as a new font. Lettering can be applied to curves and any other form of a line. Numerous tools are provided for perfectly integrating texts in existing designs.
 - Use "Grab" to move the entire text on the curve or to correct the position of individual letters.
 - Functions are available for adjusting the text height and width; you can decide whether to adjust the width or the spacing of the individual letters.
 - You can select the position of the text on the line and the orientation of the letters.
- Numerous parameters are available for influencing the stitch calculation. The underlays are, of course, calculated automatically. You can determine the number and sequence of the area and running underlays.
- The program automatically calculates the shortest way between letters or a way defined at your choice.
- Once determined, parameter sets can be saved and reloaded at any time.

Easy designing

New EPCwin options for schiffli embroidery machines

EPCwin now offers all the benefits of scanning, drawing, punching and editing for schiffli embroidery applications as well. For this purpose, the proven functions of EPCwin have been extended to embrace new requirements. Optimum support is provided for the numerous embroidery processes associated with badges, logos, tablecloths, curtains, all-over designs and chemical lace embroidery.

Schiffli design management

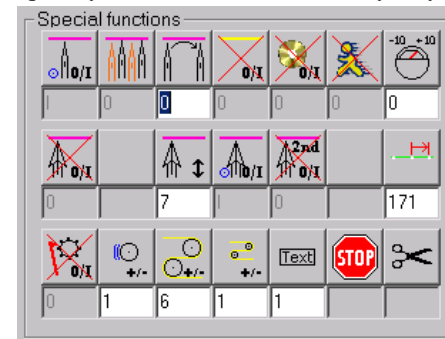
- Optimum management of designs in image and text directories
- Realistic displaying of repeats (True View) with print function
- Programmable default settings for individual design types
- Transfer of schiffli embroidery designs from EPC (UNIX) as reference data
- Input and output of design data in the following codes:
 - NC – ZSK neutral code
 - Saurer SLC (.sas)
 - Saurer SHC
 - Laesser
 - Hiraoka

Schiffli editor

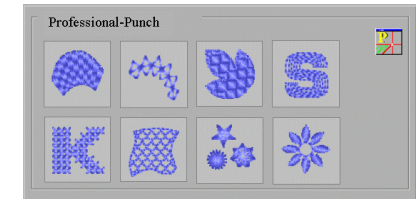
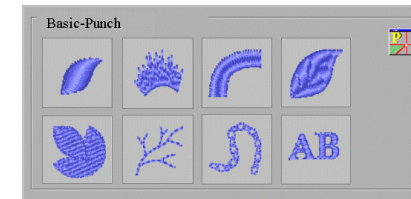
- Special editing functions for monitoring selection of special functions as well as examining and marking errors according to error type
- Controllable modification of stitch density referring to an object, a stitch type or the complete design
- Correcting and adjusting contours and stitch directions
- Editing and exchanging program parameter sets
- Cutting out, inserting and managing parts of designs
- Automatic modification of special functions when a part of a design is inserted
- Rotating, mirroring, enlarging, reducing and distorting of design parts with optimum adjustment of stitch density

Schiffli basic punch

- Five different basic design types are supported:
 - Single-color designs
 - Multi-needle designs
 - Designs with color change stops
 - Repeat and color change (R&C) designs
 - Individual needle selection
- All the special functions required for schiffli embroidery machines can be quickly selected and monitored by way of a programmable menu.



- The extensive automatic programs in EPCwin for multi-head embroidery are available here as well.

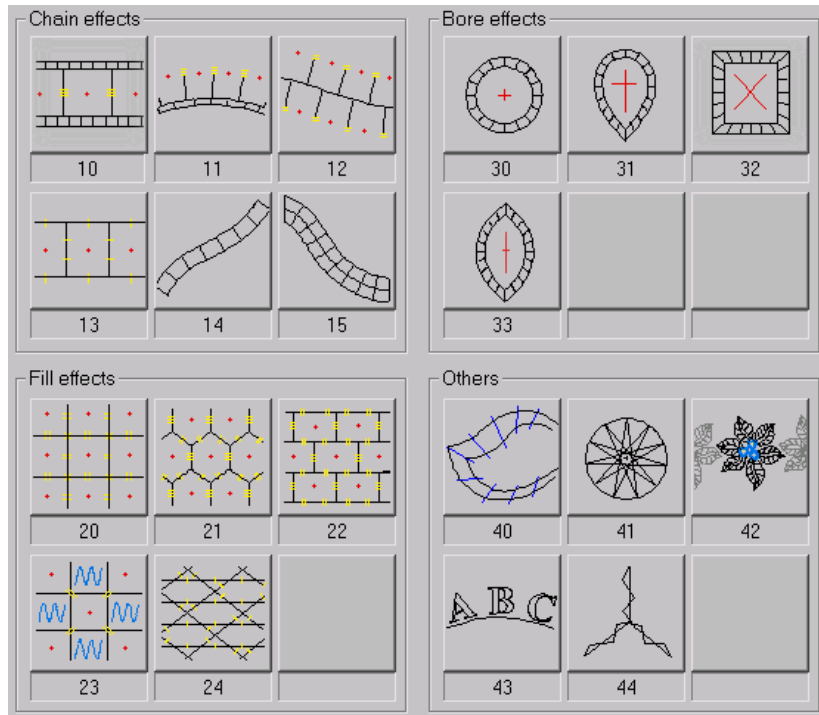


- Definition of special function start statuses for the machine in the design head.
- Special repeat grid with needle number display for each repeat. Adjustable color for main and auxiliary grid lines.
- Flexible repeat depiction: you can display either the adjacent repeats or all repeats either in the original colors or in a freely definable repeat color.
- Easy and flexible programming of needle designs for individual needle selection.
- Each needle can be assigned a color either according to a general rule or individually.

Schiffli design

The schiffli design option is an extension of basic design. It makes available all the basic functions for drawing, including free-form curves (splines), parallels, geometric figures etc.

- New automatic design options (bohrstaffel, zugstaffel, double zugstaffel, zughohl, bohrhohl, stoffhohl wabenhohl, cross boll etc.)



- You can modify parameters and contours for all automatic objects.
- Automatic repeat of design lines at the press of a key

New features

Default settings

- Four different default settings are now available for standard design heads, parameter sets, stencils, stitch sequences etc.. This allows you to save different default settings for different design types. This function is especially useful if several people within a company share a single version of EPCwin; each employee can use a different standard design head.

Punching

- When punching you can now change directly to the insert mode by pressing **[Ins]**. This enables you to determine the stitch at which you wish to make an insert and then to punch the new part of the design.
- New special functions:
 - Head type (SF 47, 48, 49): this special function allows you to choose between normal, braid and cornelli head types
 - Speed (SF 74): speed adjustment for ZSK machines
 - Fix end (SF 63): determination of stitch passages that are not to be modified in case of stitch optimization
- [Backspace]** now deletes the special functions on their own without deleting the preceding stitch as well
- New parameters in program 30: cross boll
 - The pull compensation and limit parameters are now available in this program as well.
 - Maximum stitch length: stitches are divided if they are longer than the stated value. If the value is set to 0, the stitches are not divided. This function operates as it does in program 6.
- As soon as you select the boring function, the "boring cursor" appears on the screen. You determine the size of the boring diamond in the default settings. This special cursor enables you to see the actual distance of the borer from the outer edge when you are setting the boring points.

Editor

- The filter function in the stitch list has been extended. You can now search for jump stitches and stitches that are shorter than the entered value.
- The options for editing special functions, " Exchange " [F4] and " Change" [F5], have been combined in "Edit special functions" [F6].
- You can now insert blocks from the block directory [L] or clipboard [Ctrl]+[v] while "navigating" in the editor.
- You can use [S] to set sequins directly while "navigating" in the editor. The insert mode is then automatically activated to attach the sequins.
- In the block film strip mode, animation of the block sequence can also be initiated with [F8]. You can still interrupt by pressing [Space bar] in order to adjust the interval time.

Block

- The box tools functions [F4] have been extended:
 - You can search for and replace special functions.
 - The drawing lines of a block can be repeated by way of a head selection. The color of the lines copied in the repeat can be selected in the design head.
 - The functions of global edit can also be applied to a selected block.
- A block can be slanted numerically (horizontally and vertically).
- Punch data blocks can be mirrored on a free axis.
- The number of stitches for a selected block is displayed.

Global edit

- In programs 13, 31 and 32 blocks can be exchanged for other blocks.
- You can convert objects into stitch data.

Help tools

- New parameters are available for creating a repeat grid. The head spacing stated in the design head is automatically adopted as the grid size. In addition, up to 10 divisions per repeat can be selected. The sequential number of the embroidery head can also be displayed in each repeat. The grid color can be selected separately in the design head for the main and dividing lines.

Measuring

- The measuring line remains when the second measuring point is entered. It is not removed until you enter a new first measuring point or exit the measuring function.
- You can now enter markers when measuring. Markers can be entered at the cursor position, the most recently entered measuring point or by stating an angle or distance [F11] from the most recently entered measuring point. The markers take the form of a cross and have the status of a help line. Markers created during a measuring operation can be deleted with [Backspace].

Graphics

- Stitches belonging to areas of cord, loop and braid embroidery are drawn bold. The line thickness for each of these three functions can be defined individually in the default settings.

Directory

- One or several designs can be selected with the right mouse button for sending as an e-mail, printing or deleting.
- The automatic backup function has been extended. Overarching several sessions, up to 200 backup copies are saved at fixed intervals (e.g. every 2 minutes). This gives you access to different versions of the same design; they are listed in a text directory with pictograms. The last action executed before the automatic backup is also listed. Determine the number of backups to be saved in the default settings.

Design head

- Color selection is now possible by the color tables of various yarn manufacturers.
- For repeat designs, the head spacings of all ZSK embroidery machines can be selected directly from a list.

Input / output

- The compatible formats for reading in images are "jpg", "gif", "pcx", "ppm", "ras" and "tga".
- Stitch data designs can now overwrite on floppy disk and hard disk.
- "Create design with image" allows you to import new images directly from any directory.

Online help / assistant

- In the online help and assistant, the convention for indicating action to be taken at the keyboard is now [F1], rather than :F1:.

Other

- The size limits for a drawing have been increased from 40,000 to 80,000 lines and from 300,000 to 600,000 points.
- If you obtain the new passwords by e-mail, the options can be enabled easily and without the risk of errors by way of the file attached to the e-mail. Simply follow the instructions contained in the e-mail.

Improvements**Close design**

- If several designs are open and the current design is closed, the special function status (e.g. needle color) is now correct for the new current design.

Punching

- Too many function keys were assigned when entering the reference data for a cross boll. This issue has been resolved.
- Cross boll: when the parameters are being defined and the distance entered, the number of points is set to 0 and vice versa.
- The cross stitch input grid no longer disappears when scrolling if you call measuring from the cross stitch input screen.

Editor

- In certain circumstances the scroll bar masked the film strip. This issue has been resolved.
- Locked objects are displayed after editing with the edit box and recalculation in global edit. You can now determine for each object individually whether it is to be enabled.

Global edit

- Design parameter sets (DPS) can now be selected as well with the "Change PS" function.

Design

- The most recently set spread parameters are retained during a session.
- Spreading geometric forms on a contour no longer gives rise to an additional geometry contour at the current cursor position after spreading.
- If you have switched to the box function via drawing and geometry and then called spreading, it was no longer possible to exit drawing. This issue has been resolved.

Help tools / measuring

- The joining line between the last stitch and the cursor is no longer retained when the help tools are called.
- The measuring result is now displayed correctly if the second measuring point is entered (snapped) with the shift key.

Directory

- In the pictogram directory, pressing [End] displays the last pictogram at the bottom right.

Design head

- The color values and color texts for the needles are now reset if you exit the dialog with *Cancel*.

Input / output

- You can now format DD disks under Windows XP.
- On rare occasions special function 61 for disk output in the format Tajima/Melco/ZSK DOS caused a block in the program. This issue has been resolved.
- The remarks are now transferred in transport code (TC) as well.

New features and improvements from version 1.10-01 to version 1.20-01**New features have been added to the following parts of the program:**

- Help tools
- Editor
- Input/output
- Stitch programs

Some parts of the program from which existing problems have been eliminated:

- Center line
- Block
- Stitch direction markers
- Contour
- Editor
- Design manager
- Contour
- Graphic depiction

New features**Help tools**

- The help tools have been extended and restructured
 - The new help tools consist of help lines, remarks and the familiar grid function. You can call them from the main menu or, at any time when working with the editor, design functions or punching, by pressing :h:.
 - You can position help lines horizontally, vertically or at an angle. You can also determine the color and length of the help lines.
 - You can position remarks anywhere in the design. The font is selected from those provided by the Windows operating system. You can stipulate the character height, line spacing and font color.
 - You can, of course, use the view tool to select and deselect the grid (G), help lines (H) and remarks (T) individually.
 - Tools provided by the edit box enable you to transform selected lines into help lines (and remarks) and vice versa.

Editor

- You can now move the edit box with the cursor keys. In case of a numeric input, the value is now entered with two places after the decimal point.
- With the parallel function provided by the Editor you can now generate several lines parallel to design lines at once, each with the same spacing. This function also allows you to deselect automatic corner definition.
- The dialog that follows the selection of *Total design* allows you to select the individual design levels (drawing, punch data, help lines and remarks) that are to be taken into account.
- After you have copied a block with **:F2:** in the edit box, you can now activate *View* with **:F2:** before moving the copy with the edit box.
- The block list can now be called in the editor with **:f:** and closed with the ESC key/middle mouse button.

Input/output

- You can now select a design directly from disk by double-clicking.
- The copy disk function has been extended to embrace the ZSK old, Barudan FDR III, Barudan FMC and Fortron formats as well.
- When a design is written to a disk with the ZSK old format, the access number is now output.
- Images are now depicted after scanning and other operations that involve storing an image.
- When the parameters are backed up, a subdirectory indicating the date (e.g., EPCwin_BackupParameter_11_11_2002) is automatically created in the selected target directory.

Stitch programs

- In program 33, monogram, you can now determine whether a stitch is to be inserted in the middle of the connection between two letters. The purpose of this function is to mask the connection stitch.
- Stitch direction markers entered in programs 1-6 are automatically trimmed so that they lie exactly between the two outer contours.
- When selecting a program, the list of used programs and parameter sets is now filtered so that each set appears only once.
- A new input sequence now applies to TrueType monograms in a design. You now enter the distribution line first, then the parameters, then the text.
- In programs 2 and 20 a stitch length of up to $999 \frac{1}{10}$ mm can now be selected.
- When entering satin stitch, you can now enter additional stitch direction markers with **:F6:**, in case you have omitted any, before determining the end point.

- If a *Check repeat jump* is performed in *Check design*, the design is now automatically redrawn so that you can examine it immediately.
- Designs containing up to 600,000 stitches, 6000 special functions, 4000 objects and 2000 block marker can now be processed.

Improvements**Center line**

- The center line function for satin stitch has been thoroughly revised in the new version to enable it to run much more smoothly. In the past minor program defects impaired working with what is an essentially good function. We have eliminated these problems from the new version, so that you once again have full access to this key function.
- The parallel (line) function has been improved; in particular, the opening point can no longer be incorrectly set with closed objects.
- The generation of stitch direction markers has been improved:
 - Miter corners are inserted automatically if, because of the shape of the curve, normal approach corners cannot be executed.
 - Disruptive stitch direction markers are no longer placed in segments between two corners that are especially short.
 - If corner stitch direction markers cannot be created for certain reasons, you can now enter them manually afterwards.
 - It used to be possible for automatically generated stitch direction markers to be placed on ones that were entered manually. This is no longer the case.
- Center line now allows the density to be edited before the end point is entered without blocking the system.
- If, with center line, a start/end stitch direction is selected when entering the end point and the editor indicates the occurrence of a fault, the editor is no longer blocked.

Block

- If you abort the movement of a block with the edit box, the design data are now reset correctly.
- When blocks are being read in, a descriptive error message is now issued to explain why a block could not be read in: e.g. "Too many marker", "Too many special functions" or "Too many objects".
- You can determine the mirror axis point exactly by snapping.
- A message is issued if monogram objects are stretched. They are no longer automatically converted to manual stitches.

Stitch direction markers

- The marking for an approach or miter corner is now retained once it is entered.
- If a fault prevented calculation of a satin stitch object and you sought to resolve the problem, typically by deleting or moving a stitch direction marker, pressing **:Return:** did not immediately initiate a calculation. The calculation is now performed straight away.
- Defective stitch direction markers are now displayed correctly.
- An error message indicating defective stitch direction markers is now issued in the assistant as well after entering.
- If you inadvertently pressed **:ESC:** when entering stitch direction markers in a satin stitch object and then selected "No" in response to the inquiry "Do you really wish to delete the object?", the EPCwin used to block.
- In case of intersecting stitch direction markers, the editor no longer jumps to the design start point when you seek to eliminate the fault.

Editor

- Aborting the input of a sequence of stitches gave rise to faulty reference data in the current design. This problem has been eliminated.
- Percentage editing of the stitch distance in the global editor is now effective with objects in program 31 as well.
- In some circumstances in the past the contours could be opened in program 10, so that the object could no longer be calculated.
- When the cross stitch grid parameters are entered, the grid cell size is now updated.
- Moving the grid did not operate properly in program 12, cross stitch. This problem has been eliminated.
- In some circumstances centering the object in the editor did not work. This was the case if an error was detected in the data after the reference data had been recorded.
- In program 20 the correct PS is now displayed for each auxiliary line.

Contour

- Creating contours: if a line was snapped with both ends to another line, inserting reference points sometimes caused the contour to be curved in the wrong place.
- When creating contours, a point is no longer inserted when a complete line is accepted.
- Snapping in the vicinity of an intersection of two lines sometimes caused a crash.

Disk

- A message is now issued if a disk is not formatted when it is being written.
- When loading data from disk, the standard design head is now taken into account.
- When a design is being written to a Tajima disk, the maximum stitch length is set to 121 ¹/₁₀ mm. If the maximum stitch length exceeded 121 ¹/₁₀ mm, an offset arose when the design was output.
- The offset problem associated with SF 60/61 and automatic jump stitch on/off has been eliminated.

Design manager

- Compressed reference data can now be loaded via the network as well.
- When sorting by date, due regard is now paid to the time as well.
- Punch data are now correctly deleted from the directory.
- EPCunix directories with up to 30,000 (formerly 10,000) entries can now be processed.

Graphics

- Markers are now drawn as well when redrawing with **:F5:** in the punch module.
- The icon illustrating the current basic geometric form now disappears when you exit the geometry function.
- The last special function in the design no longer disappears from the stitch list if it is followed by only a single stitch.
- If you start a new object in the punch module and then abort it, an ugly line no longer remains.
- Design lines are no longer drawn in the repeat or reference data color if repeat view is selected.
- Switching from punch to design with **:F8:** and then to the editor with **:F6:** no longer gives rise to an ugly line.

Other revisions

- Calculation of the design size has been revised. This is relevant with the printing and design head functions. In the design head the design size takes account of design lines only. Remarks and help lines are excluded. When printing, the zoom factor is now calculated only with the visible data in case of size adaptation.

New features and improvements from version 1.08-01 to version 1.10-01**New features**

- Design monogram with TrueType fonts
- All disk formats now supported with Windows 2000 and Windows XP operating systems as well
- User interface with dialogs in French
- Block list (Filmstrip): the special functions, stop and trimming, can now be set directly in the block list
- The zoom factor with centering (center design) function **:C:** now toggles between the initial factor and the calculated factor in all modes (punching, editor and design)
- The mirror function in the punching module has been revised
- With the box function, the numerical values are retained until the box is confirmed
- When determining the base point for the spread function, the point can now be entered with the snap function (Shift) as well
- When entering a circle for satin stitch, a size is now displayed
- Block selection using markers or objects can now be selected by a short-cut as well
- With the rotate (arranging in a circle) function, the center point is now marked
- The entrance and exit of a block are now marked with green and red dots
- The insert function in the editor can now be concluded with **:Insert:** as well as **:ESC:**

Improvements

- Frequent crashes when moving manual stitches in editing.
- Creating contours no longer consumes vast resources of the Windows operating system, blocks the system or causes icons to disappear
- Copying a block can now be aborted. Data are no longer superimposed in an uncontrolled manner
- Zero or very short stitches in program 10 are now suppressed
- After a special function is edited in the block list, the "film strip" no longer jumps back to the beginning
- After executing the refresh function in the block list, the "film strip" no longer jumps back to the beginning
- The move block function in the block list, executed with **:F6:**, is deactivated if no block is selected
- The function for printing the design head has been revised

- The stitch list is now updated correctly if you jump to the end of the design with **:End:** in the editor
- The offset for the copy block function (F2) is now entered in the numerical values
- Boxes' markings are retained when scrolling
- Block selection via special functions now operates even if the desired special function is not the first one in a group of special functions
- Block selection via special functions now operates even if the special function appears exactly behind an object
- Block selection with the "From stitch length" function now operates even if the stitch is situated exactly between two objects without manual stitches
- Block selection via markers gave rise to problems if the marker was at the end of the design
- Continuous selection and filtering now available for special functions, markers and stitch length at object limits in the block list
- When entering auxiliary lines in program 20, the connecting points are now found correctly
- Sorting the directory now operates after copying from CD as well
- The sorting by design name in the directory is now alphabetically correct
- Incorrect head data with BMP images no longer trigger a crash. These images cannot be read because of the missing data
- The cursor no longer disappears when the base point is entered in the spread function
- The distribution line is no longer copied in the spread function
- In the true image, jump stitches are no longer drawn with special functions 60 and 61
- If special function 60 or 61 is followed by another special function, such as stop, the rubber band is now drawn correctly
- After switching to a different language, a message now appears to indicate that the program has to be restarted
- When a new design version is saved, the current version is now displayed in the header
- The routine that backs up system parameters no longer saves and loads in empty directories
- The cross stitch grid size can now be entered with No. of stitches > 1 as well
- The start needle is now entered correctly in the TC code
- With the view function, the objects' underlay stitches can now be selected and deselected independently of the cover stitches

- When enlarging or reducing (not distorting) blocks with program 31, the chained blocks are no longer rotated in an uncontrolled manner
- When additional contours or stitch direction markers are inserted in objects, they are now drawn in the reference data color
- With the export design info function, 3 separating characters can now be entered
- The cross marking the center of a circle has been reduced in size
- The parameter set display during the input of program 20 is now correct
- When entering a line parallel to an entire line, the line can now be selected with `:Ctrl: + <Left>` as well
- When entering pairs of points for satin stitch, the corner to be approached is now correctly adopted when the corner is entered
- You can now set a marker directly with `:Div.:` when continuously marking in the editor
- When entering dividing lines, the switchover from curve to straight line with `:F4:` was ineffective
- With monogram parameter input (33), the online help is no longer called when you confirm the dialog with Enter
- If you abort editing stencils or stitch sequences with `:Del:`, the software is no longer blocked
- The help index in English no longer contains any German words