



5.0 ORGANIZATIONS
CODEMO
www.codemo-project.eu



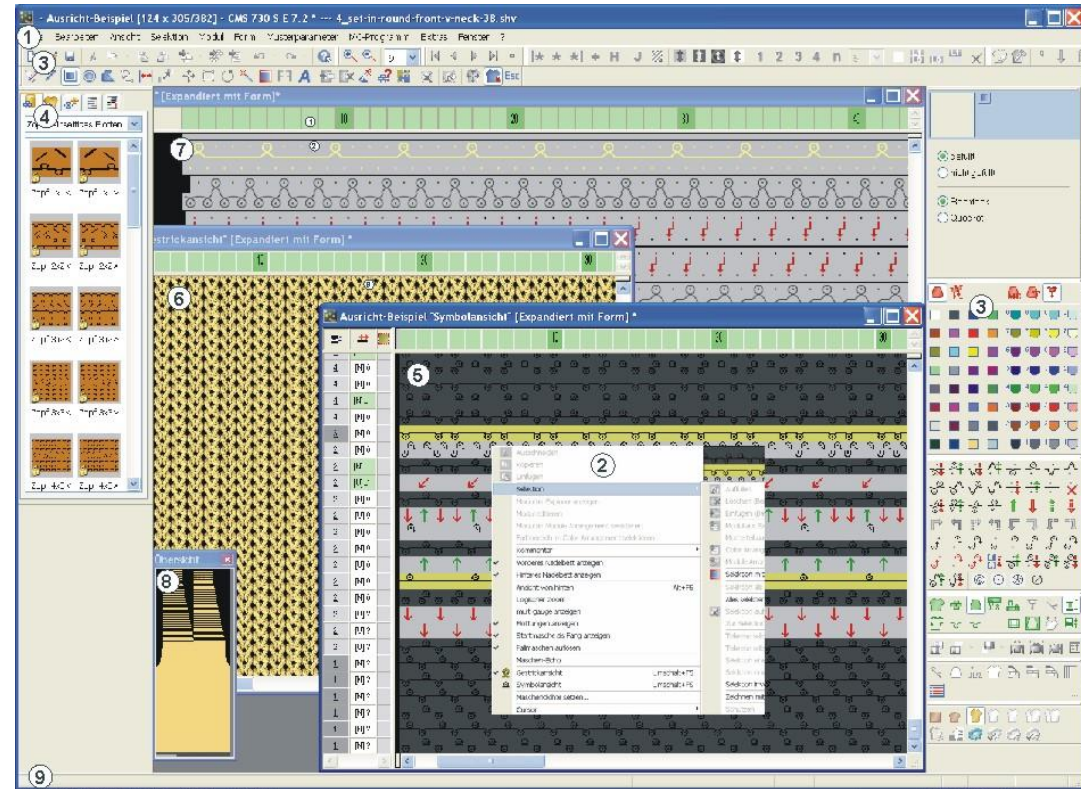
Computer Aided Design in Knitting Manufacturing

A CAD tool

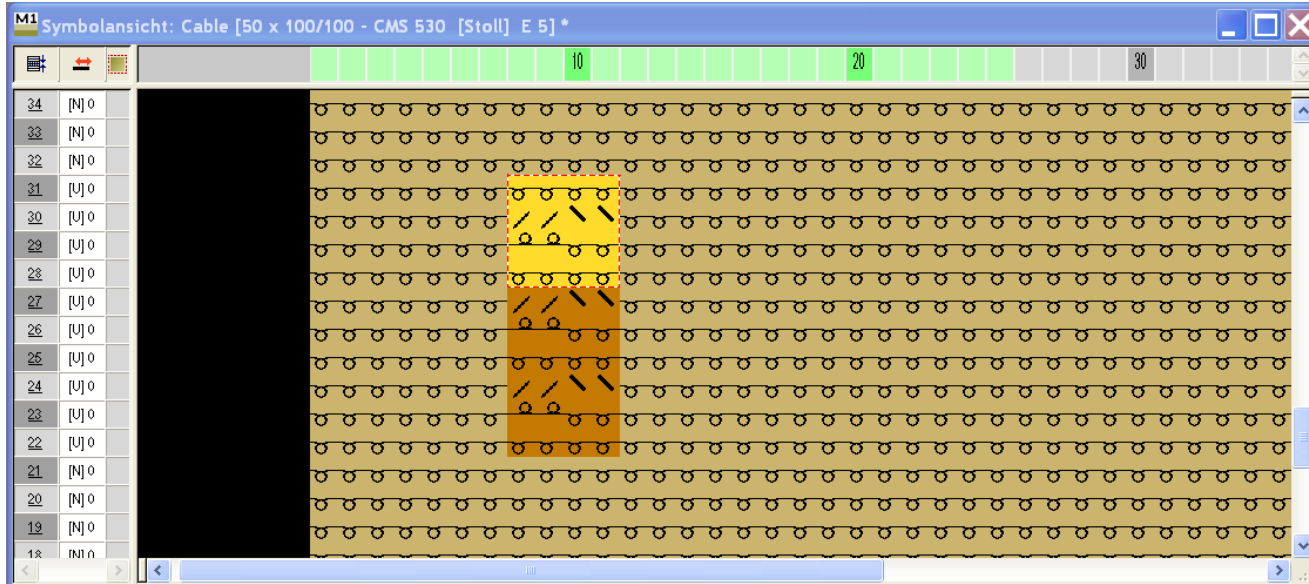
Module 4

M1 Plus Window

| Zone | Name of Field | Function |
|------|-----------------------|---|
| 1 | Menu Bar | The list of functions and commands |
| 2 | Rapid Menu | A menu that appears when you right-click the mouse and differs depending on the context |
| 3 | Symbol Bar | Buttons for drawing and programming functions |
| 4 | Module Bar | A list of modules that can be used |
| 5 | Symbol View Window | Work window with representation of the stitch row section |
| 6 | Fabric View Window | Displays the technical representation of the knit in the work window |
| 7 | Technical View Window | Displays the evolution of the threads on the needles including transfer operations |
| 8 | Overview Window | Displays a view of the entire shape in progress |
| 9 | Status Bar | Displays information about the cursor position, the status of a function or command |



Symbol View Window

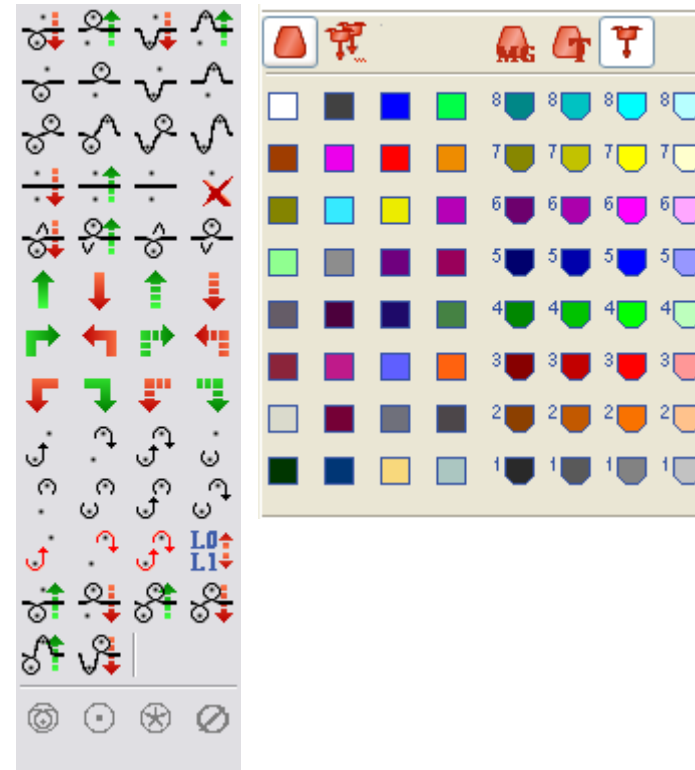


- The Symbol View window is used for graphical design of the pattern.
- On the left side, the window has control columns with row numbering.
- In this window, modules can be inserted, and drawing with colors and yarn guides can be done.

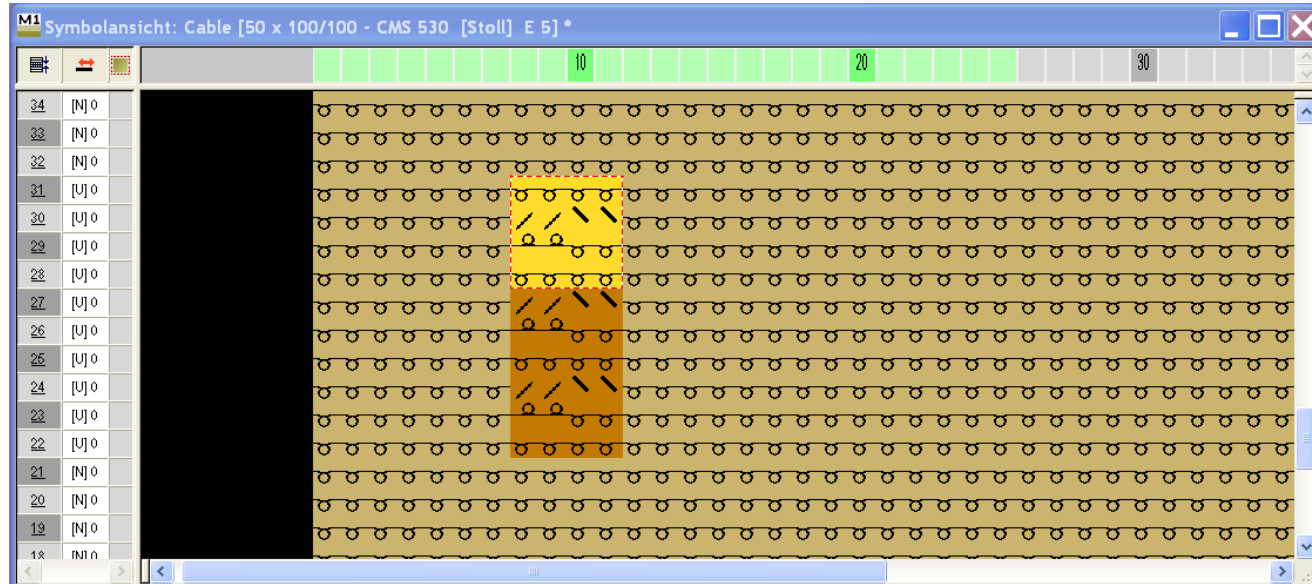
Symbol View Window

From the symbol bar, the left mouse click to choose:

- the drawing tool
- the symbol
- the color (yarn guide) for the purpose of pattern design.



Symbol View Window

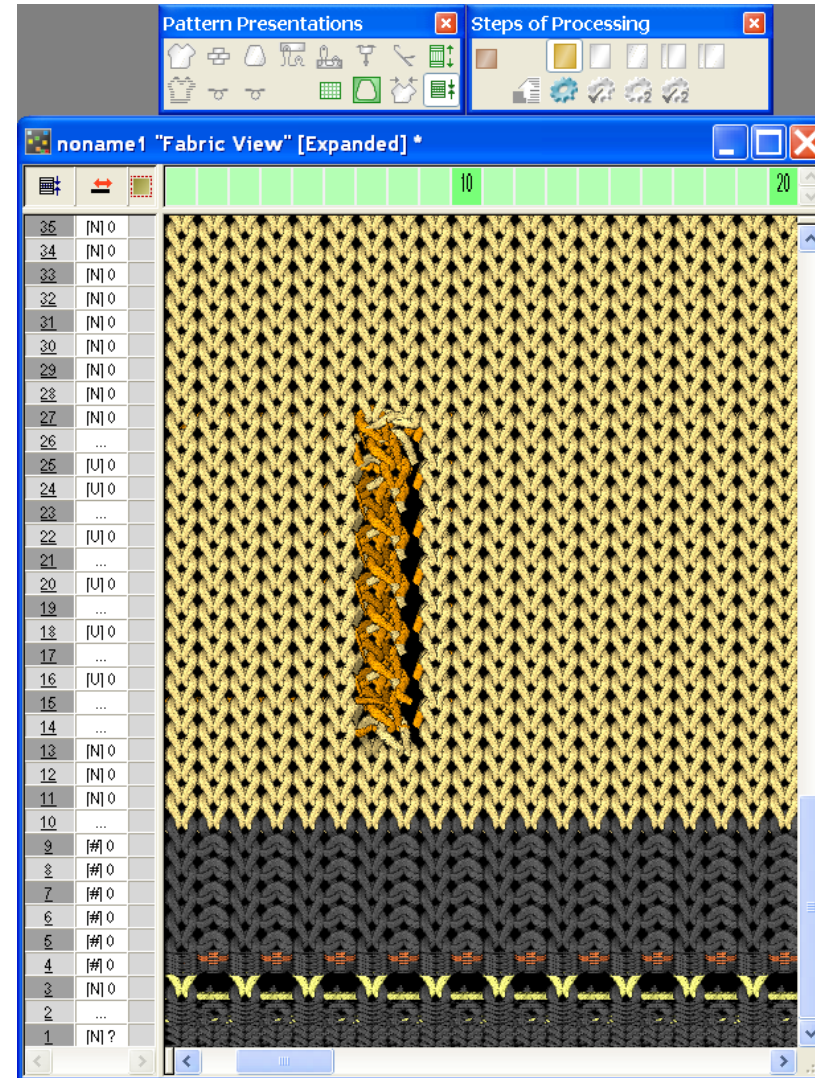


Navigation

- If the cursor is in the window, the view is repositioned in the cursor's direction by pressing the *Spacebar*.
- If Technical View and Fabric View are open, pressing the *X* key centers the cursor in Symbol View and the other windows.

Fabric View Window

- Displays a realistic representation of the pattern.
- On the left side, there are control columns with row numbering.
- This window is available after technical editing and works interactively with the Technical View.
- It is used to verify the structure and appearance of the pattern.



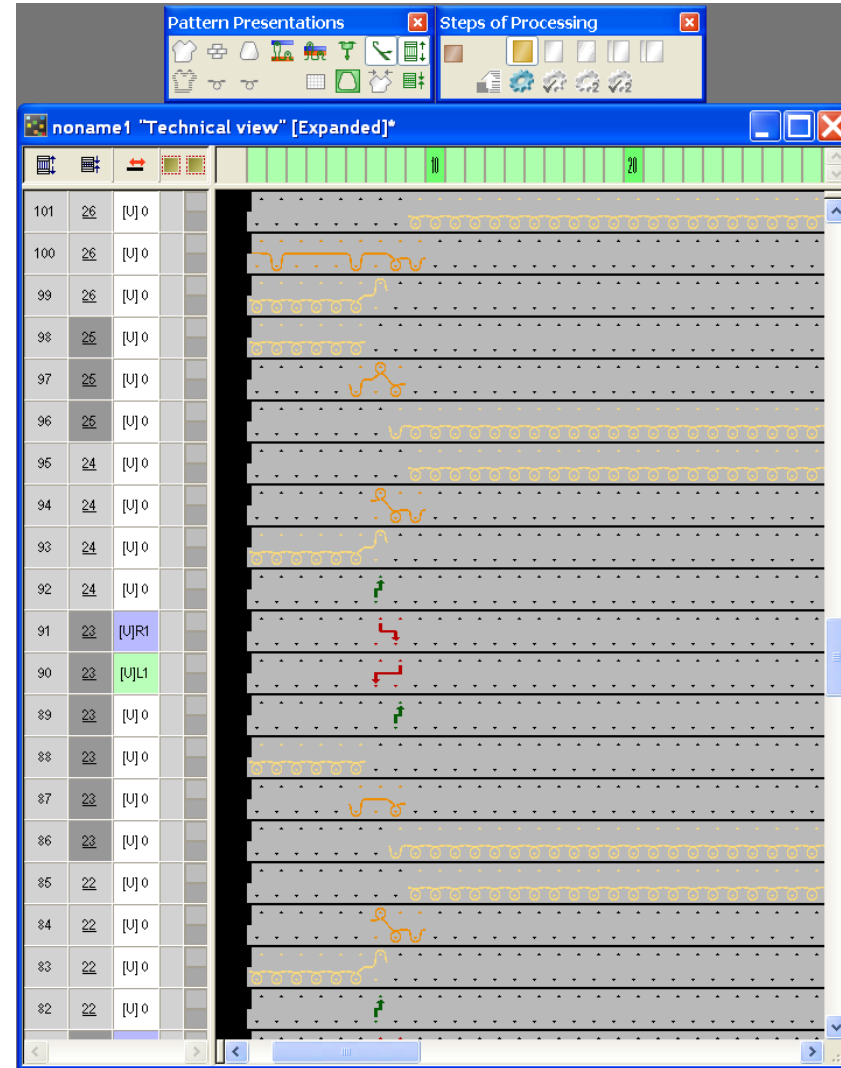
Co-funded by
the European Union

Technical View Window

- Displays graphically the movement of yarns on the needles and the related knitting operations (transfer, empty throw, tuck, etc.).

The window includes:

- Control columns with technical and pattern row numbering.
- A control bar with column numbers.
- It works interactively with Fabric View; changes are shown immediately in both views.



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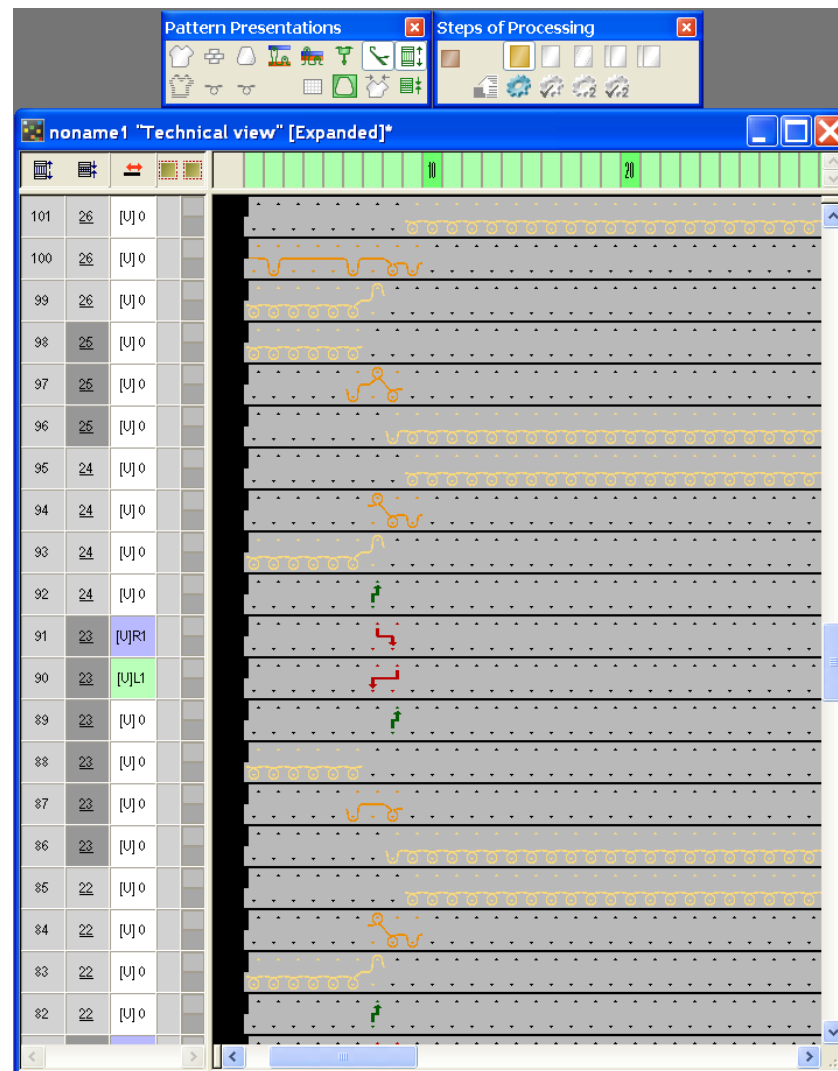
Technical row

Numbering includes both actual knitted rows and necessary technical operations (stitch transfers, empty throws, earlytucks etc.).



Pattern row

Numbering of actual knitted rows only.





New 

- Creates a new file.
- Any unsaved open design is deleted.
- Shortcut: Ctrl + N

Open 

Opens a saved design with .mdv or .shr extension.
Shortcut: Ctrl + O

Save 

Saves the drawing, module, or shape.
Shortcut: Ctrl + S

Cut



Cuts a selected area and stores it in temporary memory.
Shortcut: Ctrl + X

Copy



Copies a selected area to temporary memory.
Shortcut: Ctrl + C

The *Cut and Copy* functions can be used together with the *Paste* and *Insert Mirrored* functions from the *Edit* menu, or with the keyboard shortcut Ctrl + V to insert the selection from temporary memory into the design.

Insert 

After generating/copying, places the element with the mouse.

Insert mirror image 

Inserts a mirrored version.

Shortcut: Ctrl + I

Generate a new module from a selection 

Creates a new module from any selected area.

Undo action 

Cancels the last action(s).

Shortcut: Ctrl + Z



Larger Zoom Level



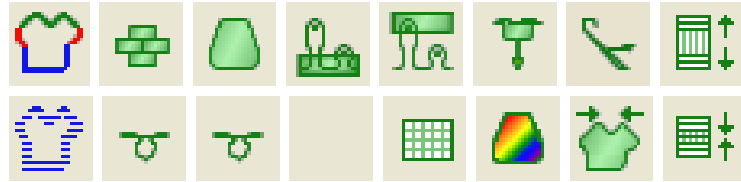
Zoom in

Smaller Zoom Level



Zoom out

Adjustable zoom factor from 1 to 13 (10 = 100%).



Shape edges 

Shows shape outlines with edge colors.

Shape Symbols 

Shows outlines with symbols.

Yarn field 

Displays active yarn carrier fields.

Needle Actions 

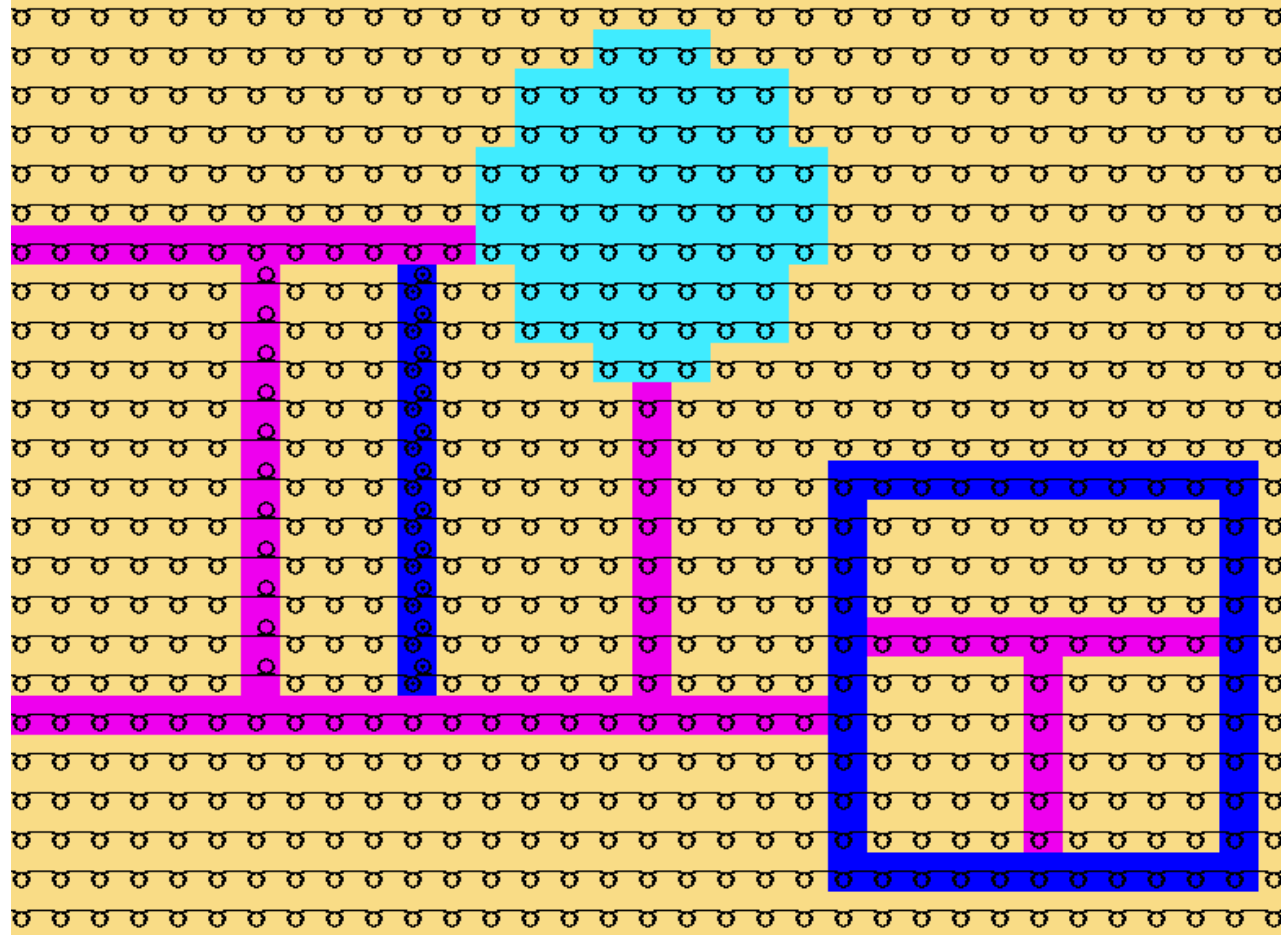
Shows/hides needle operations.

Drawing Tools Toolbar



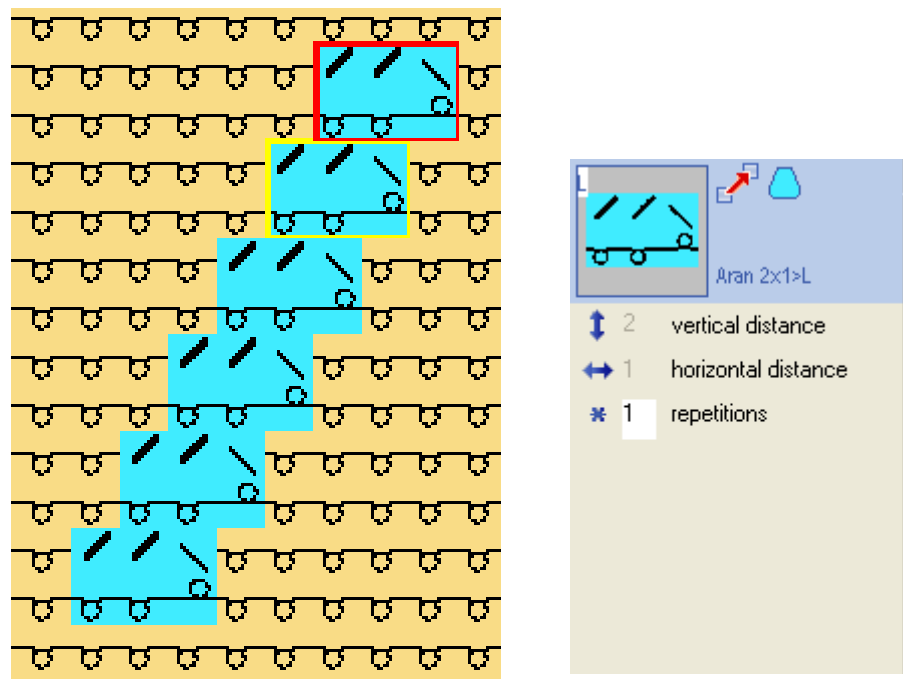
Fill line up to color change

Fills area horizontally/
vertically until a color change



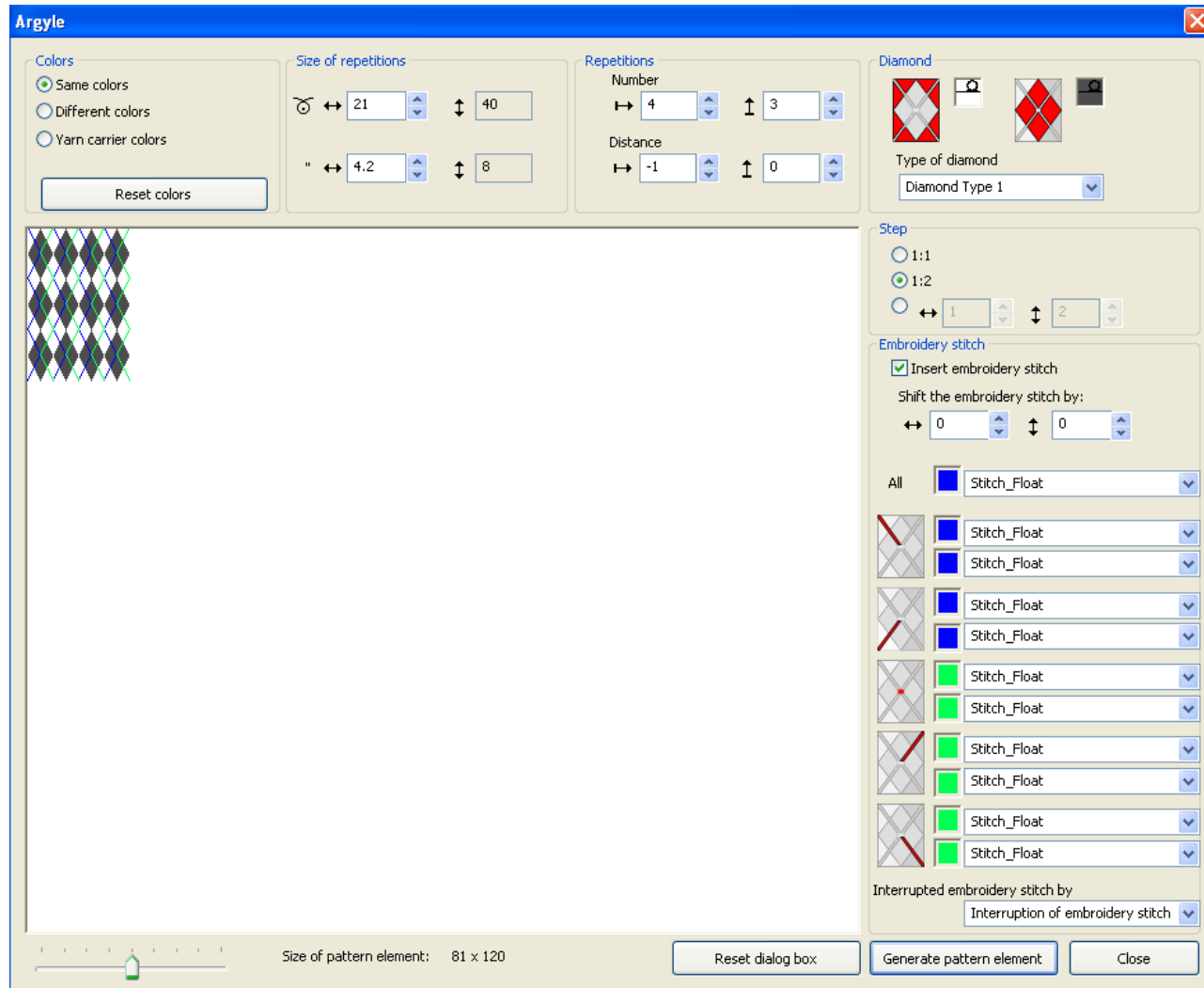
Multi-Copy 

Copies area multiple times with set spacing



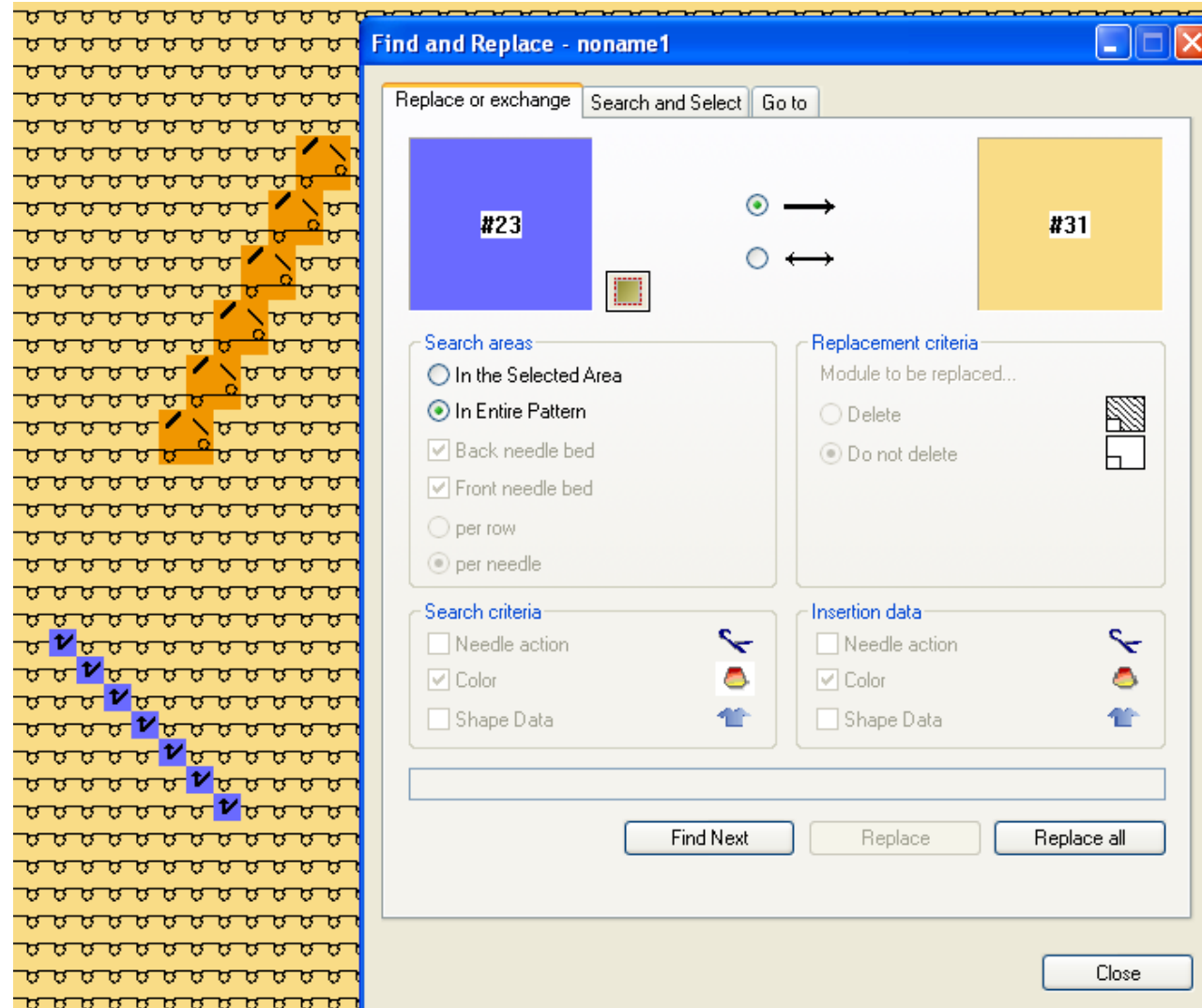
Argyle 

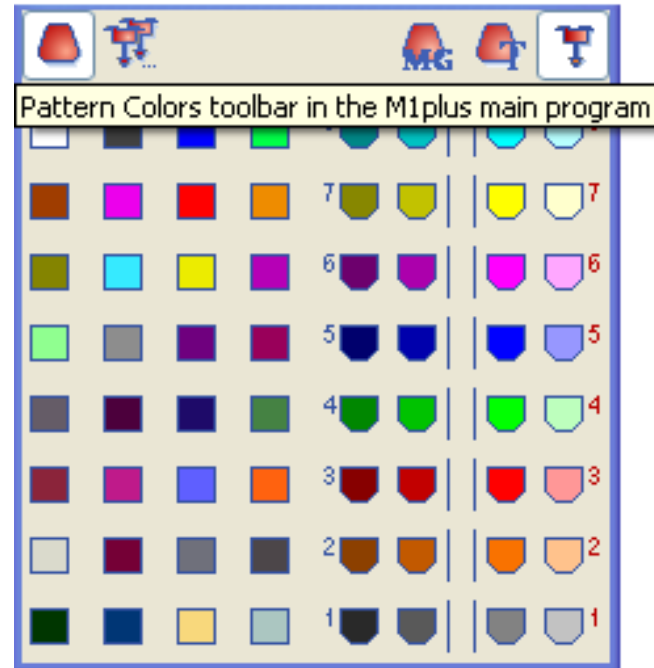
Draws diamonds with custom settings



Find & replace 






Search and replace
a symbol, color,
module, or density










- Standard colors: 32 yarn guides
- Multi gauge technique: for different stitch densities
- Technical yarns: for starting rows, transition zones, separators, elastic yarns
- Yarn guides on double rails: 8 left, 8 right

Processing Stages

- Load basic pattern 
- Load shaped pattern 
- Load Expanded Pattern 
- Load Processed Pattern 
- Load Re-processed Pattern 

- Cut-out shape 
- Expand pattern 
- Expand a Selection 
- Start Technical Processing 
- Start re-processing 

THANK YOU FOR YOUR ATTENTION!

Project coordinator:

- **Mines Saint-Etienne:** <https://www.mines-stetienne.fr/>
- **Pr. Xavier BOUCHER:** boucher@mines-stetienne.fr

Our contacts:

- **Website:** <https://www.codemo-project.eu/>
- **E-mail:** info@codemo-project.eu

Our socials:

- **Twitter:** <https://twitter.com/omilab>
- **LinkedIn:** <https://www.linkedin.com/showcase/codemo-project/>
- **Facebook:** <https://www.facebook.com/openmodelslaboratory/>



UNIVERSITATEA
LUCIAN BLAGA
— DIN SIBIU —

Dr. Eng. BRAD Raluca
raluca.brad@ulbsibiu.ro



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