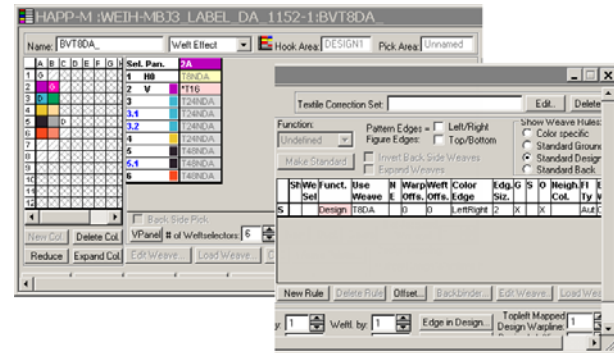


# MÜCAD

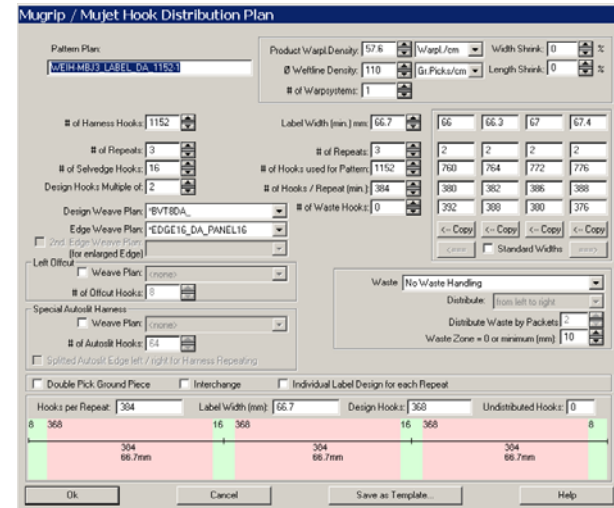
## Weave pattern with rules

A clear improvement in quality can be achieved through the possibility for the definition of the weaves, backing weaves and any pattern rules per weft selector.



## Jacquard plan

This menu provides the allocation of the programmed Jacquard data to the control functions of the desired weaving machine.



# Software for pattern design and programming

# MÜCAD

for electronically controlled Jacquard machines

## Additional MÜCAD versions

- MÜCAD MINI Warp patterning for heald and jacquard machines with up to 896 control functions
- MÜCAD MICRO Warp patterning for heald and jacquard machines with up to 200 control functions
- MÜCAD NANO Warp patterning for healds (heald programming)

## Additional MÜCAD software

- DIGICOLOR For the creation of high-resolution, digital weaving templates
- MÜNUMBER-MASTER For producing individually woven, unmistakable and forgery-proof labels with consecutive or free numbering.
- MÜBARCODE For the production of labels with visible code types (with QR code)
- MÜNAME-MASTER For the production of small, customised series such as name tapes and individualised labels

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**Fascination of Ribbons and Narrow Fabrics  
Innovation in Machinery**

Rep.:



**Jakob Müller AG Frick**  
5070 Frick Switzerland  
Tel +41 62 8655 111  
Fax +41 62 8655 777  
www.mueller-frick.com





The MUCAD software developed by Jakob Müller AG has been designed for the creation of patterning using up to 6,144 control functions. It is the result of long-term experience in the realisation of graphic data in the form of control information and also supports the latest Müller machinery advances in optimum fashion.

MUCAD software functions perfectly on Microsoft operating systems and is available in German, English, French, Spanish, Italian, Turkish and Chinese.

**Special features**

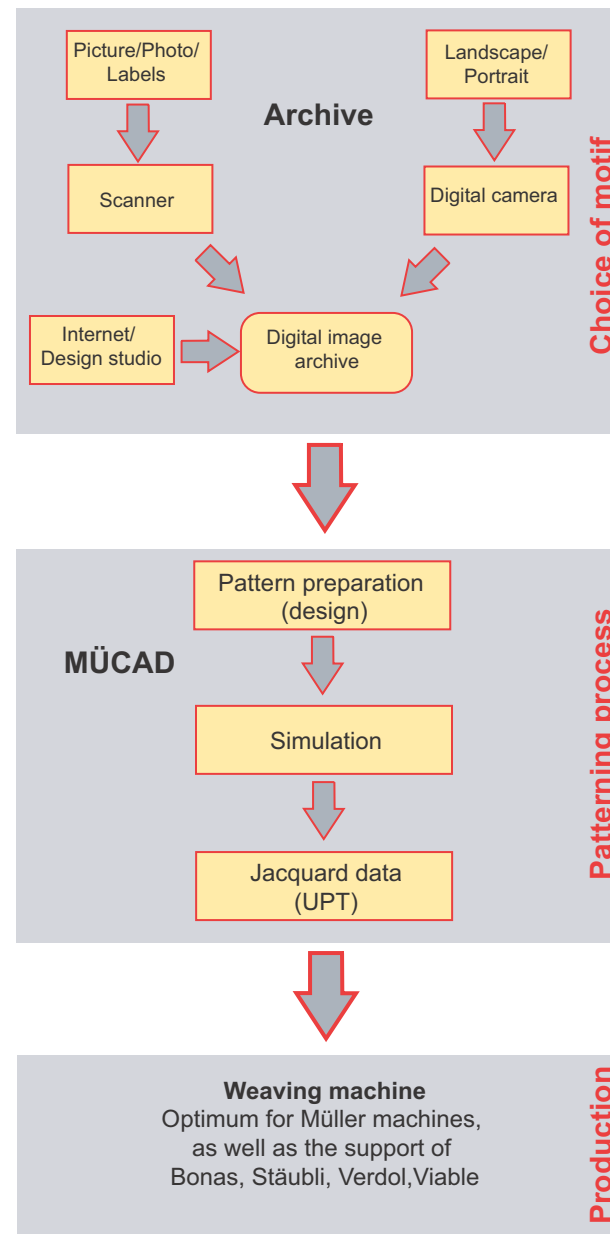
- Jakob Müller AG developed loom software that guarantees smooth process sequences
- 64 bit architecture
- Ensures the creation of designs and weaving patterns, also for future versions of Microsoft Windows operating systems
- Increase in computing power, higher productivity
- The processing of very large design patterns
- The user-friendly processing of the design and weave patterns with all peripheral conditions for first class labels
- A central database for patterns and all documentation
- Database access via the Internet
- Direct archiving with back-up function

**Technical implementation for textiles**

- Increased cost efficiency due to drawing in and weave templates for every textile product (weft, warp-weft and warp effects)
- Input and logging of own weaves and rules for basic, pattern and backing weaves, as well as for all warp systems
- Coloured representation of shadow weaves, as well as the designation of mix and double weft, and panel functions
- Automatic double weave function including a possibility for the individual scanning and import of the front and reverse sides
- Optimum selvage technology for all Müller machines
- Automatic point correction for improved labels (textile correction set)

**Patterning process**

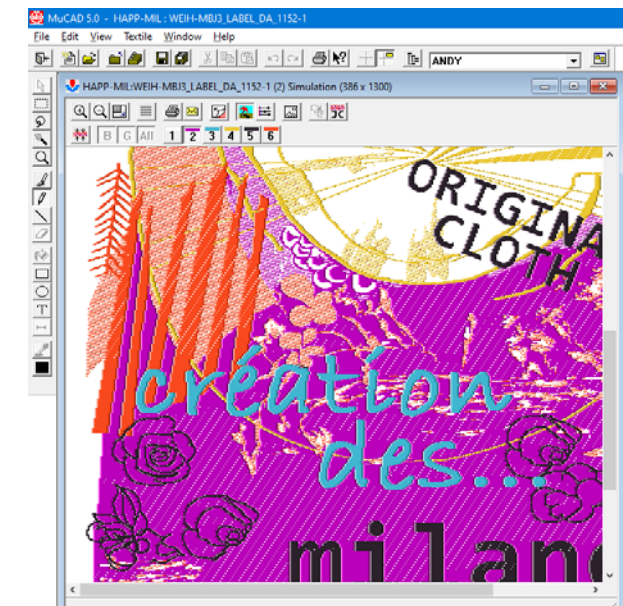
The actual patterning process using MUCAD commences following motif selection and involves pattern preparation, the choice of weave, the simulation of the woven product and its transfer to the jacquard controls of the loom.



Patterning process

**Pattern preparation (design)**

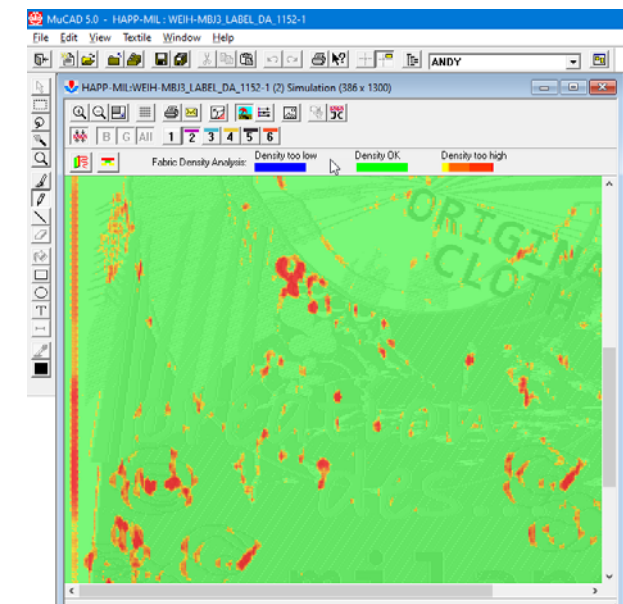
- Graphic designs from a scanner, image data file or digital camera
- Optimised colour reduction and efficient filter techniques
- Use of texts in standard typefaces, as well as the possibility for the creation of in-house textile fonts and symbol sets
- Graphic representation of basic, pattern and backing weaves
- Simultaneous interaction between the pattern (design), weaving pattern (Pdesign) and weave simulation



Pattern preparation (design)

**Simulation**

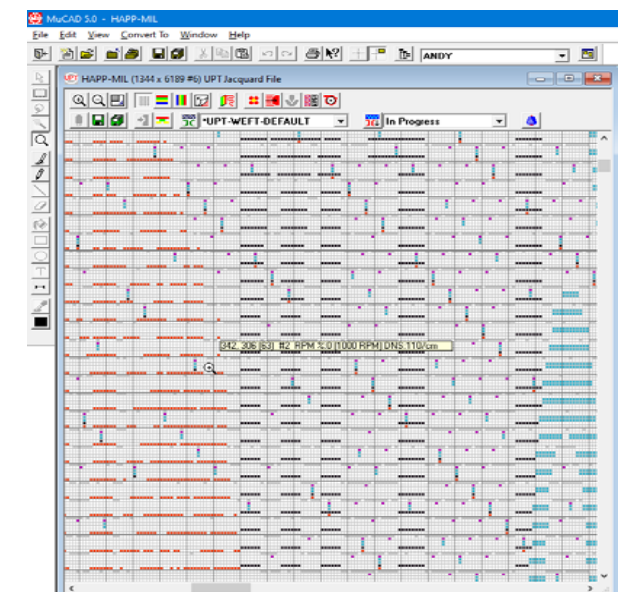
- Simulation of the weave thickness on the basis of the number of thread interlacing points per area unit, weft, warp and thread thickness. The density ("pressure") is shown in different colours thus making the zones with excessive weave density clearly visible. This facilitates a decision as to whether or not weaving of the pattern is feasible.
- Point correction with ON-LINE translation
- Erasure of manual corrections per weft selector



Simulation

**Jacquard data (UPT)**

- Issue of jacquard data for all Müller machines and standard, external products (Bonas, Stäubli, Verdol, Viable) via a USB data carrier, a network with a MUCAD Direct transfer option and/or a MUCAN server



Jacquard data (UPT)