MÜCAD supplementary software

MÜCAD DIGICOLOR

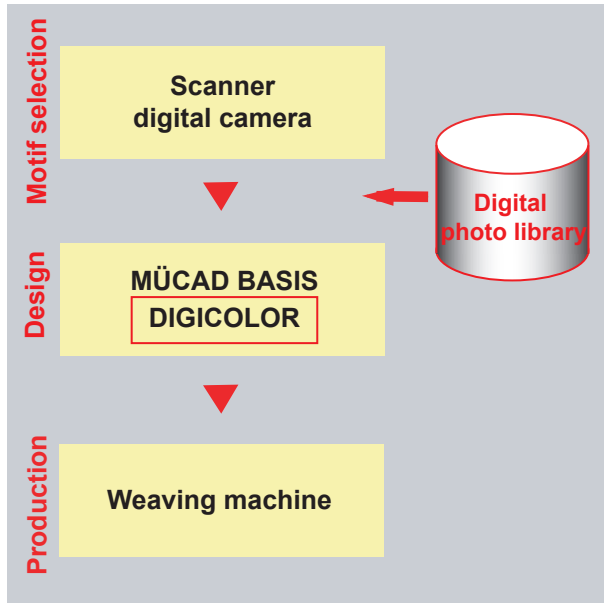**for Jacquard weaves
using the digital weaving process**

MÜCAD DIGICOLOR

MÜCAD supplementary software

With this software, motifs can be converted realistically as jacquard fabric by digital weaving. Using few weft colors it is possible to program the weaving of labels, posters and many other items with natural color effects.

The software functions smoothly using the Microsoft operating system. It is available in German, English, French, Spanish, Italian, Turkish and Chinese.

Motif selection

Scanner digital camera

▼

← **Digital photo library**

Design

MÜCAD BASIS
DIGICOLOR

▼

Production

Weaving machine

Patterning sequence: DIGICOLOR weaving process

Very simple

The multicolored original (image from scanner, graphic file etc.) is reduced by DIGICOLOR to the colors selected from the available palette. Using only 5 to 7 weft colors in the fabric it is nevertheless possible to produce the impression of numerous colors (pixel weaving). Color palettes can be altered or enlarged any time. Thus for example by using another color variant an enhanced quality can be attained, depending on the image. Further options are presented by making use of effect yarns such as Lurex etc.

Applications

– Multicolored labels with high resolution
– Labels with irregular background or simpler motifs combined with strong inscriptions (standard procedure combined with DIGICOLOR)
– Images, posters and banners in short runs or one-off
– Necktie and uniform cloths
– Fan and club scarves, even showing celebrities, pennants and badges
– Church decorations
– Wall calendars

Special features

– Economic design creation and programming of electronically controlled jacquard machines.
– Simple and speedy conversion of the inread original into the DIGICOLOR pattern for producing finished jacquard files.
– No further graphic software needed as the required functions for image adaptations are optimized for these applications and integrated in the software supplied.
– Immediate presentation of image and color changes, effected with enlargement at will or as realistic previews, saves repeated sampling on the machine.
– Full integration in the MÜCAD concept.
– Software developed by label specialists and weaving machines from the same maker (continuous process sequence).
– User-friendly processing from pattern image and weaving pattern, respecting all boundary conditions for first-class labels and posters.
– Reliable, up-to-date and user-oriented operating surface.

Advantages over the standard weaving process

– Color jacquard fabrics produced with realistic motif reproduction.
– Presentation of any number of colors with small number of ground colors, so that production and stock costs are substantially reduced.
– Point-by-point, irregular structures (pixel resolution by digital weaving).
– Image quality, i.e. resolution and color brilliance, can be influenced via the number and choice of colors and their intensity and via the weft density.
– Very little effort when programming a pattern for labels and posters with DIGICOLOR, because no lengthy image processing or pattern layout is needed.
  For example: programming an image measuring about 1 x 1 mm takes some 4 weeks by the standard process, while DIGICOLOR programming takes only 15 minutes.
– No knowledge of textile technology nor programming experienced needed.
– Further presentation possibilities offered by DIGICOLOR and standard process in combination.
– Only minimal changes if any are necessary, since the principal colors are always creeled. Production sequences are additionally optimized.
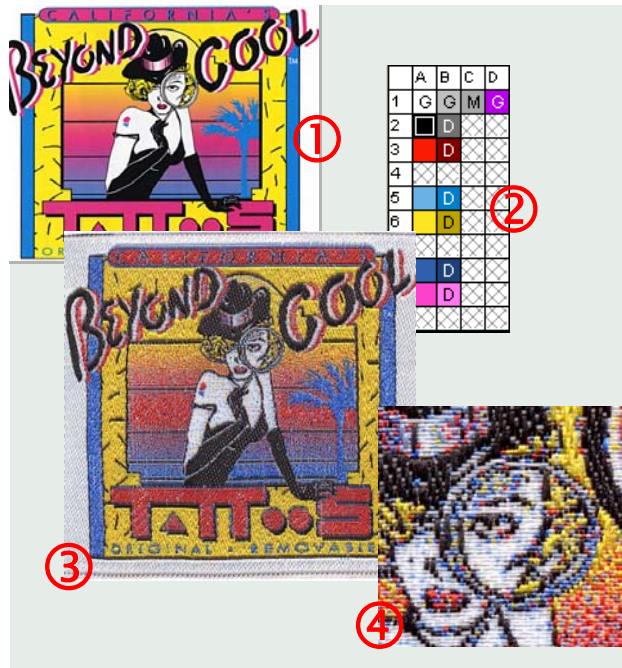
The design, e.g. a picture or a photograph (1), is first digitalised and then analysed in detail for its colour information. This data is then transferred to a colour palette with up to seven shades (2) and subsequently defined as a weaving pattern. The woven label, width 50 mm (3), and the detail as a magnification (4).

Prerequisites

– MÜCAD BASIS or PARALLEL station
– Attendance at MÜCAD BASIS course

Contained in the software package

– DIGICOLOR Standard
  For posters and labels with high weft density and standardized colors.
– DIGICOLOR Label
  For labels with low weft density and small number of weft colors for cutting production costs. Standard yarns (50 dtex) can be used also with needle weaving machines.

– DIGICOLOR Photolabel
  For labels with better color brilliance despite lower production costs using continuous monofilament warp.

DIGICOLOR Standard   DIGICOLOR Label   DIGICOLOR Photolabel
The various design realisation possibilities are shown on the PZ 5063.

MÜCAD DIGICOLOR

Any motif can be created in a previously unattained image quality and with impressive colour brilliance. The textile character and 3D effects result in a high artistic value.

A wealth of applications are possible and new applications open up fresh sales markets, e.g. for…

Fan clubs, associations, event or concert organisers, sporting occasions, festivals, private events and celebrations...

– Fan scarves
– Cushions
– Fan cushions
– Pennants
– Flags, banners, posters
– Touchline advertising
– Sewn-ons
– Ties

... publishing houses, printers, stationer's, large companies...

– Artistic cards
– Congratulations cards
– Individually designed birthday cards and invitations
– Calendars
– Woven pictures
– Posters of all types

... chain stores, wholesalers, speciality shops, tailors...

– Labels with high-definition images
– Gifts such as pictures, woven photos, cushion covers, mouse pads
– Articles for children as bibs, woven game boards, etc.
– All types of bags with pictures
– Table decorations
– Wallpapers, roller blinds, shutters
– Wreath ribbons, sashes
– Theatre scenery

All pictures of woven samples in this leaflet show unsaleable exemplary models and serve exclusively to illustrate possible applications

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

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