Design Jacquard J

CAD/CAM for Jacquard Woven Fabrics

History has seen mankind expressing his art on fabrics using complex weave structures to enliven forms, motifs and nature to create tapestry, carpets, furnishings. Millions of interlacements are painstakingly defined to create a weave plan which earlier took months at a stretch. **Design Jacquard** is a tribute to our predecessors wherein an array of tools is provided for creating artwork interactively and facilities to create and attribute weaves to the artwork. It goes further in simulating the fabric and transfers the design to Electronic jacquard for flawless weaving. Here goes a brief on working...

Design Editing in Grid

Allows you to edit the artwork keeping in perspective the differing warp and weft densities. You can edit the design in grid mode for greater accuracy by using a range of drawing, painting and editing tools provided.

Variable brush size with differing X, Y thickness can be used in tandem with the freehand, geometric, beizer and advanced editing tools such as auto outline, bandani, etc. with multiple UNDO & REDO functions.

Color shield facility while editing and copy paste functions enables protection of intricate motifs.

Naturally all editing features are used in the online editing mode with various repeat types such as straight, cross, mirror X, Y and X-Y.

Navigator allows easy access to different design areas while editing in zoom/grid mode gives facility to insert hooks/picks in artwork stage.
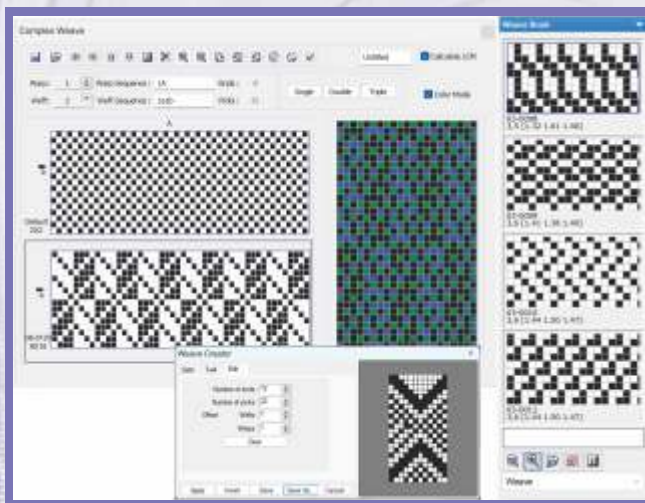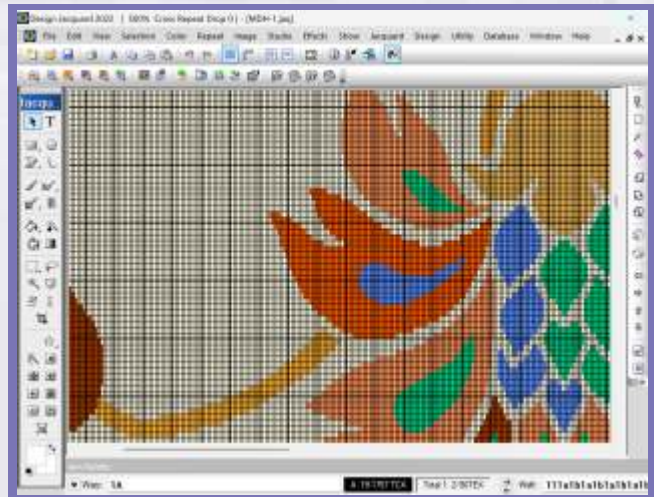
Weave Creation

Single and multi-layered weave structures can be achieved easily.

Auto satin and twill generator creates satin weaves with varying repeat and steps.

Weave library is provided for better management of weaves and simple drag and drop function in combining weaves at pre-defined intervals to create fascinating structures.

Complex weaves can be easily created by combine basic weaves by way of simple assignment to the warp and weft interlacement points and specifying the number of repeats. Thus, a otherwise cumbersome operation is simply reduced to a couple of clicks.

Auto generation of weaves by simply importing bitmaps images adds to your creative abilities.

Weave Mapper

Facilitates assigning of weaves to different areas of artwork denoted by different colors. A simple mouse click creates the detailed weave plan on graph.

Front and back weaves can be viewed simultaneously for better understanding of the final fabric quality.

Extra warp and extra weft weaves can be created to give a special touch to your dextrous creation.

Number of hooks required for the design can be varied online and the fabric effect can be viewed.

Graph can be viewed in mono, artwork, warp and weft colors for editing and evaluation.

Automatic and manual find float facilities to locate warp/weft floats exceeding specified limits. You can assign unique colors for warp and weft floats for ease of control and editing. The floats can be edited using the brush tool.


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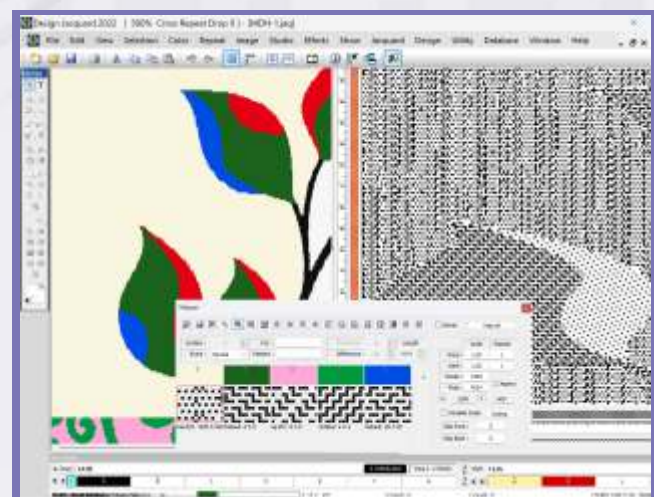
Simulation of Fabrics

Presenting your concepts in a realistic way at a click of a button and no extra cost is what this feature aims at. Be it an internal evaluation or a sales presentation, a good simulation is the acid test of your efforts.

Simulation is further enhanced by using yarns created or scanned directly into the library. The yarn editor allows you to work on parameters such as twist, colors, thickness, etc. to generate chenille, fancy, slubs, melanges, twisted, and all types of yarn effects.
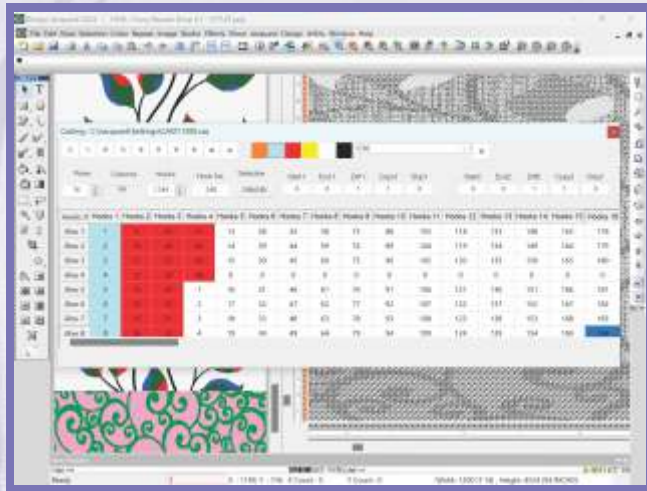
You can vary the different parameters of a design or edit the design and observe the result instantly.

The simulated output can be further tested on a 3D CAD system.
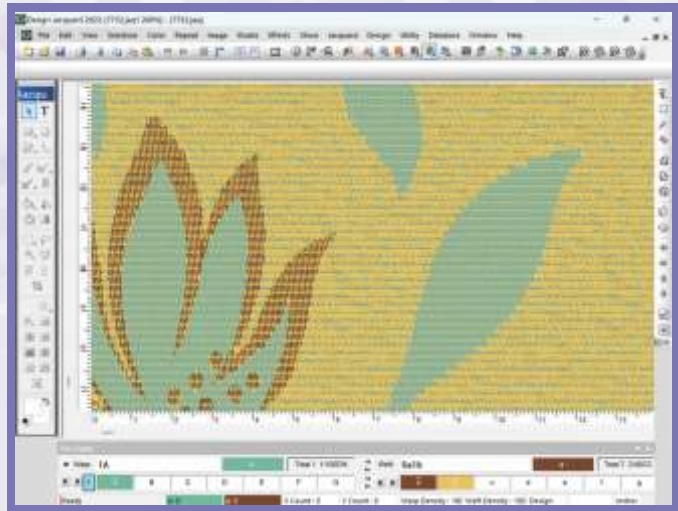
Computer Aided Manufacturing

Compatible auxillary modules for electronic jacquards like Bonas, Staubli, Grosse, etc. enables transfer of design details in the electronic form.

Graphs can be printed for manual card punching or the design information can be transfered to electronic card punching machine for punching hard card/continuous paper punched cards.
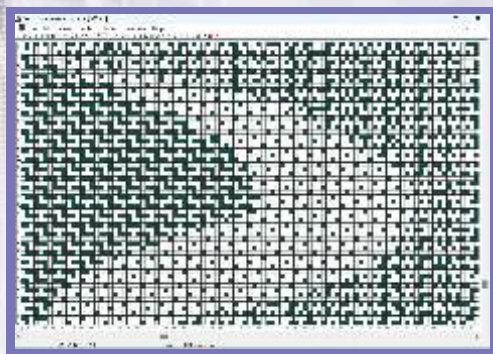
Casting

Easily configurable cast out facility for defining hooks which have been reassigned from their normal position in your harness ends.

Graphical and easy to use interface. User can define a basic casting sequence which can be replicated across the harness or user specified range, with a single click.

Casting files can be saved enabling management of different harness arrangements within the same shed.

Weft selector, cramming, terry, fringing can be defined in the function file. Variable weft density can also be specified in the electronic function file.

Contact us at:

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is devoted to continuous development of CAD technology for the textile industry.
A competent technical support team and a development team ensures that your needs are catered to well in time and to your satisfaction.