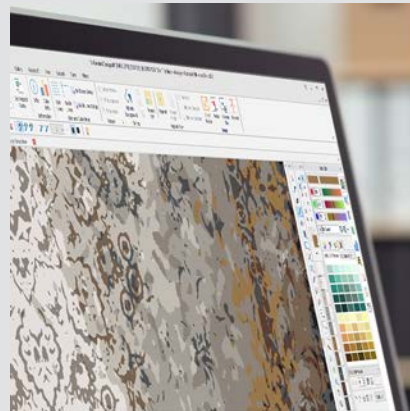


# Software Solutions



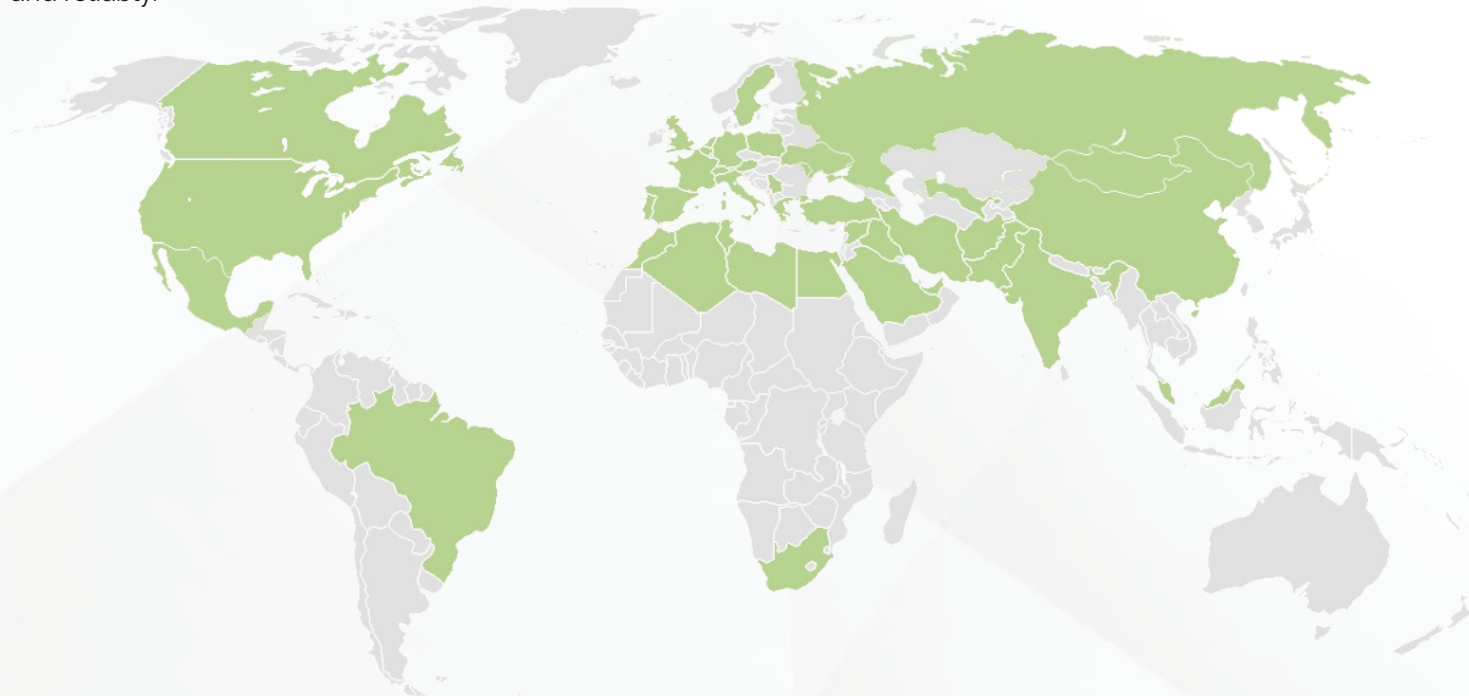
# About

**EFAB GmbH** is a high-tech company focusing on CAD/CAM software for carpets & rugs and on hand-tuft carpet robots.

Our expertise in CAD/CAM software development and industrial automation provides the competitive edge that our customers require for their carpet & rug productions. For this reason, we continuously innovate and develop our know-how, services and products.

We offer our customers both innovative and high-quality products. 100% made in Germany serves as a guarantee for best quality standards - all components for our eTuft robots are sourced, built and assembled in Germany.

Our production facility and engineering department lay close to Düsseldorf, at the heart of Europe. From there we serve our worldwide customer base flexible and reliably.



With eSolutions, EFAB provides leading software solutions to the carpet & rug industry – no matter for which type of production, be it hand-made, machine-made or hand-tufted by robot.

Our main goal is to make carpet designing easy and effective while giving a maximum of flexibility to the designer.

eSolutions software solutions are well-recognized in the market but still we are striving to improve existing features and functions. New innovative features are launched by EFAB regularly bringing technological impulse to the industry.

Based on your demand we are engineering software solutions that improve your designing processes.







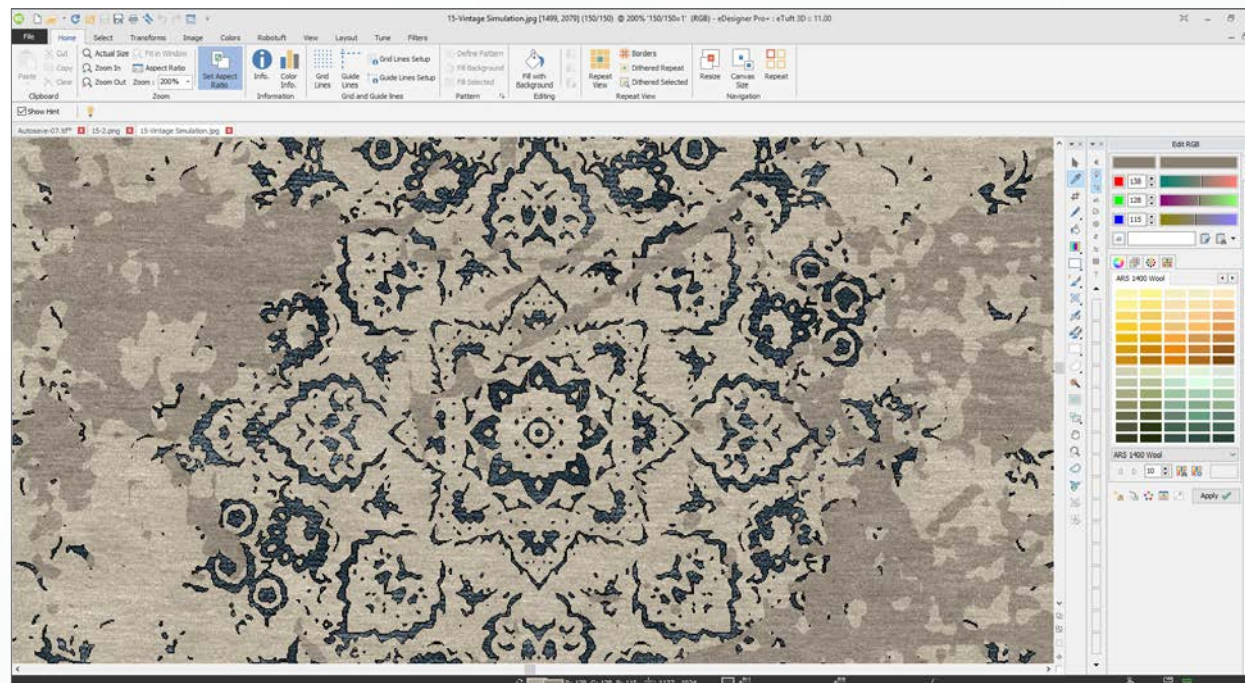
# eDesigner

## Carpet Design Software

**eDesigner** - the most advanced carpet designing software in the market - meets all demands of professional carpet & rug designers.

This comprehensive solution includes a flexible set of drawing tools and a great range of functions and features to increase design productivity. eDesigner gives you maximum flexibility and guarantees full control of the designing process. It is suitable for a wide range of carpet production methods, including: hand-made, machine-made and robotic tufting.

With eDesigner, EFAB follows the mission to provide the most powerful carpet designing solution at an affordable price for the whole carpet industry..



eDesigner version 11 with advanced GUI (Graphical User Interface)  
Compatible with Windows 10, 8.1, 7 and XP (32 and 64 bit)

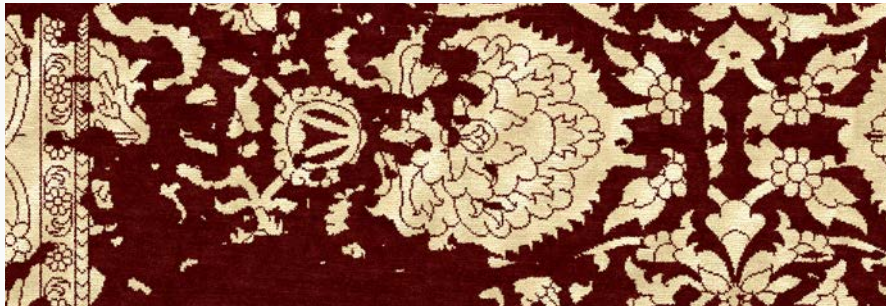


# eDesigner

## Carpet Simulation

The advanced Carpet Simulation function can simulate lifelike views of the designs before production.

With the Room Decoration Add-on, simulated carpet and rug designs can be placed in different decorative settings for an attractive presentation.

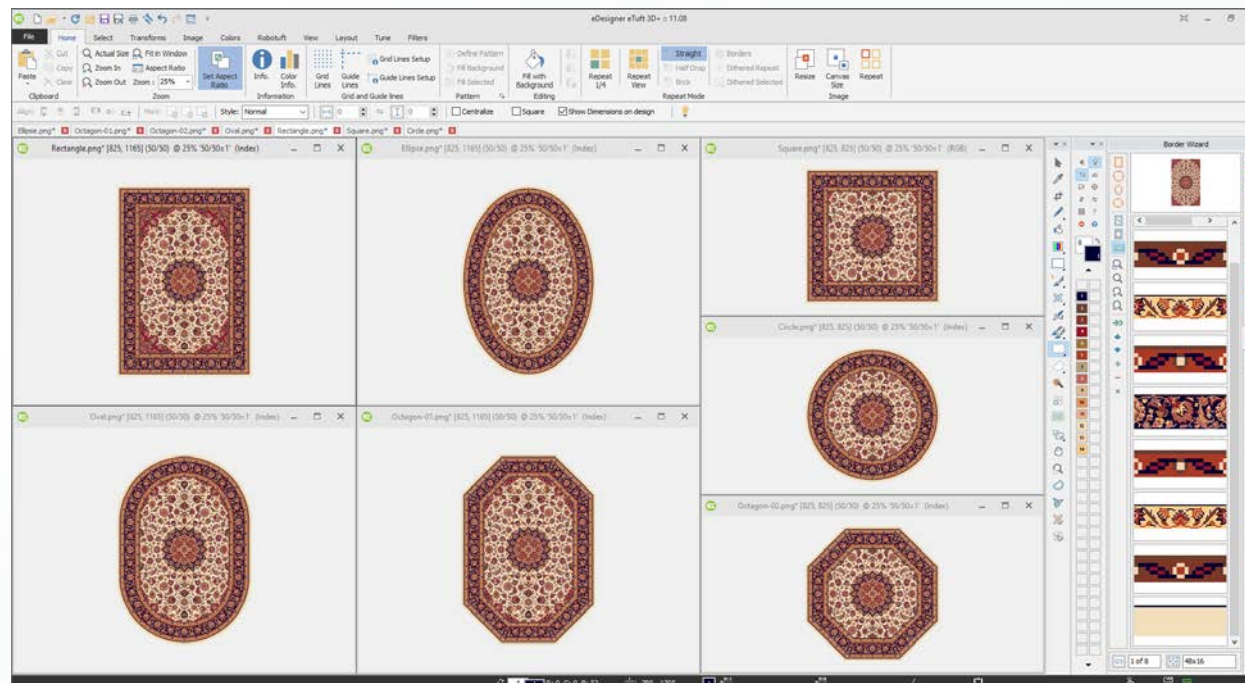


The outstanding Border Wizard function eliminates all complexities of border creation.

It lets designers create different shapes of the same design in just a few minutes. Rectangular, oval, circular, elliptical and octagonal shapes can be obtained easily in different sizes.

Complexities of different warp and weft densities (Aspect Ratio) are omitted by this function.

Border Wizard will automatically calculate the data and fill your desired border with your motifs in the best possible way.



Seven shapes have been created with the Border Wizard function with just a few clicks!



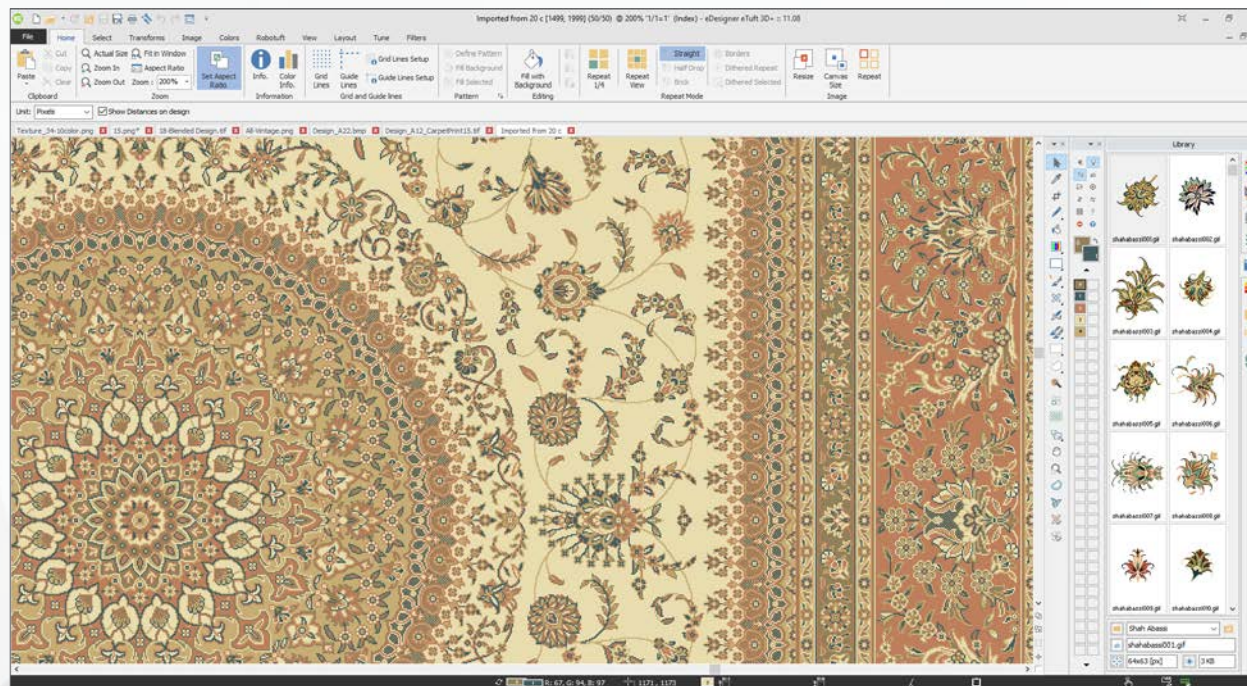
# eDesigner

## Library of 1750 Classic Motifs

The unique library of ready-to-use motifs and design repeats includes more than thousands of classic objects and ornaments. By selecting from the library, designers are able to develop the most fantastic classic designs very quickly.

This unique feature includes easy drag & drop facilities with automatic transparency setting for selected motifs.

Accordingly, your desired designs can be created at the speed of your thought.



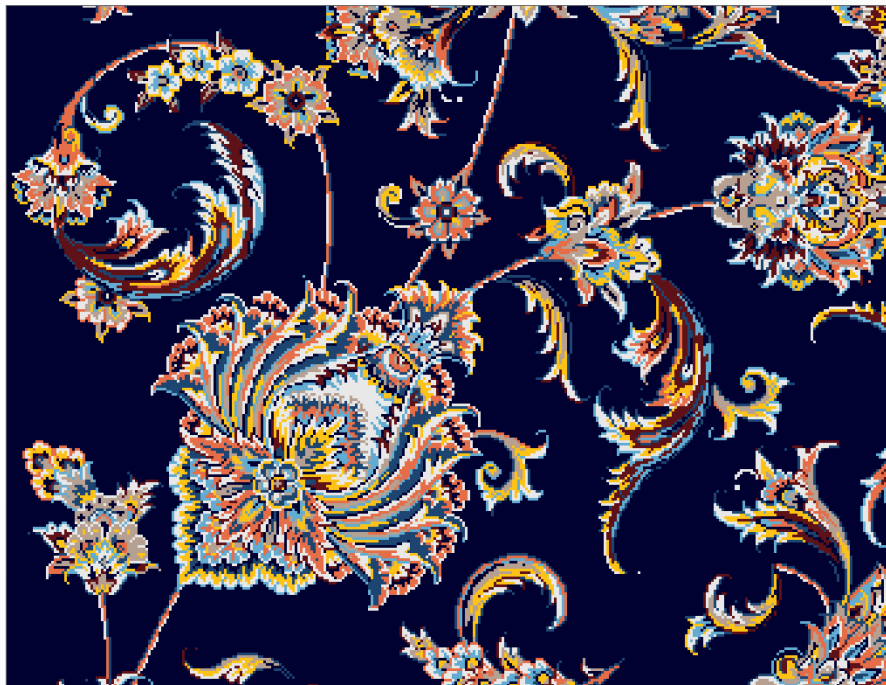
eDesigner with Library of 1750 Classic Motifs



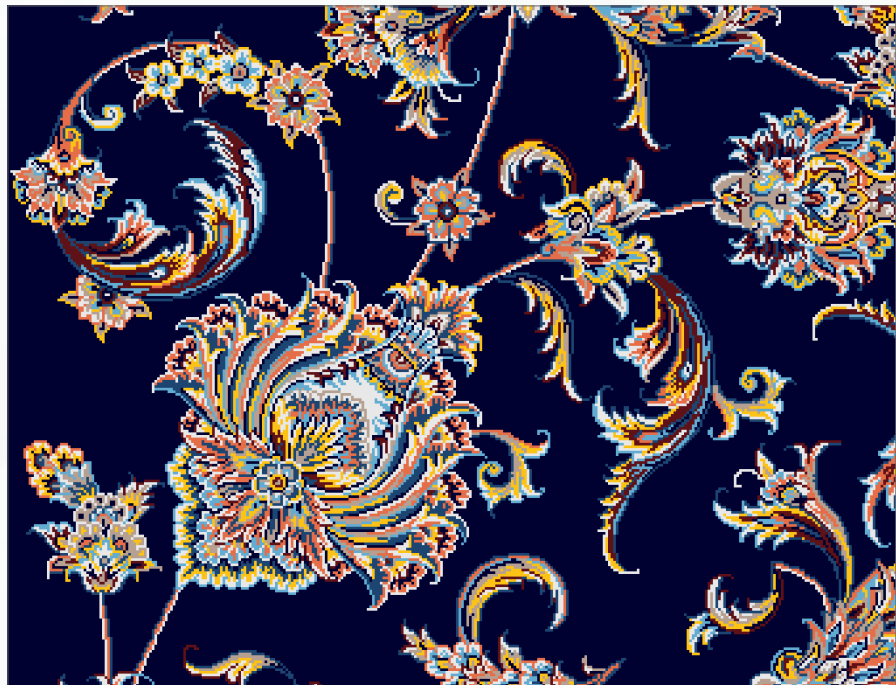
Downscaling classic carpet designs without losing detail has always been impossible ... until now. Downscale your designs with Smart Resize function (up to 70% of original design) while perfectly preserving design details and contours by eDesigner.

Smart Resize function uses an intelligent algorithm adjusted for the designs' contours and details, thus making the downscaling excellent. Contours and small details are well kept, and more importantly, the manual resizing time will be reduced by 60~70% at least.

Smart Resize can perform hundreds of calculations per pixel in your design. This results in hundreds of millions of computations for your design to ensure that most of details are resized properly. The results of this function speak for themselves.



Downscaled design by old Resize function

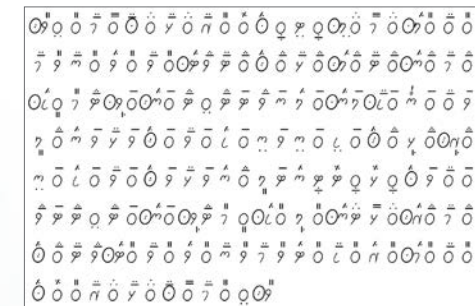
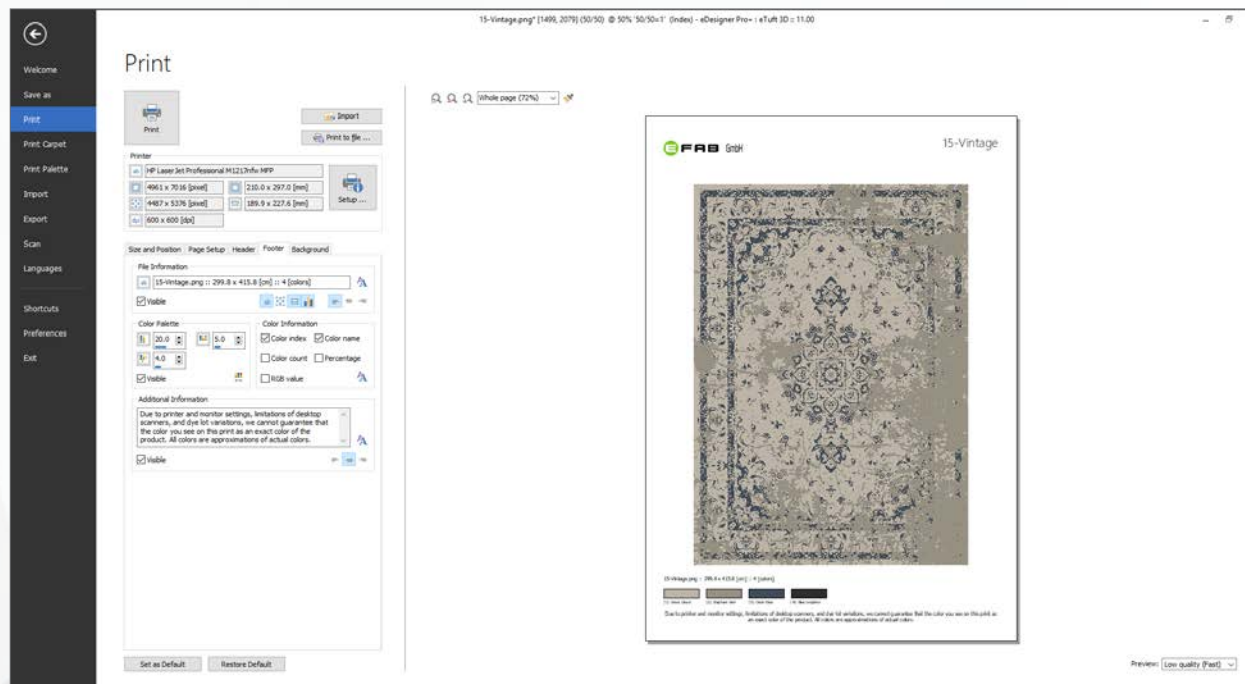


Downscaled design by Smart Resize function

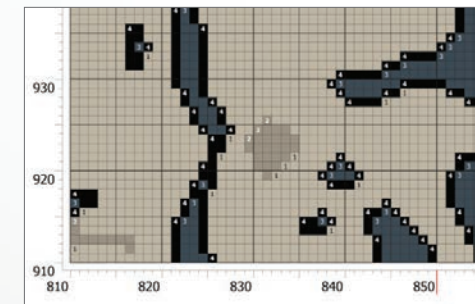
Carpet Design Printing functions are specially developed to fulfill all the requirements of hand-made carpet & rug producers.

Create your design by eDesigner and print it in the way your carpet weavers are familiar with.

Different kinds of printing methods make the software very flexible. Even special weaving codes like Talam (or Tallam) for Pakistani carpet weavers are supported.



TALAM codes



Print designs in Color or Black & White mode, with ink jet or laser printers in any size, even with a regular A4 printer.



The Photo Color Reduction function offers different color reduction routines.

It uses Artificial Neural Networks and interactive methods to reduce the number of colors of scanned images or digital photos with several dithering methods.

While offering a wide range of options, color reduction is fast and easy to use, generating perfect results for your carpet designs.

Color Reduction of digital photo by just few simple clicks:



Original photo before color reduction:  
361,407 colors.



Desired Color Palette

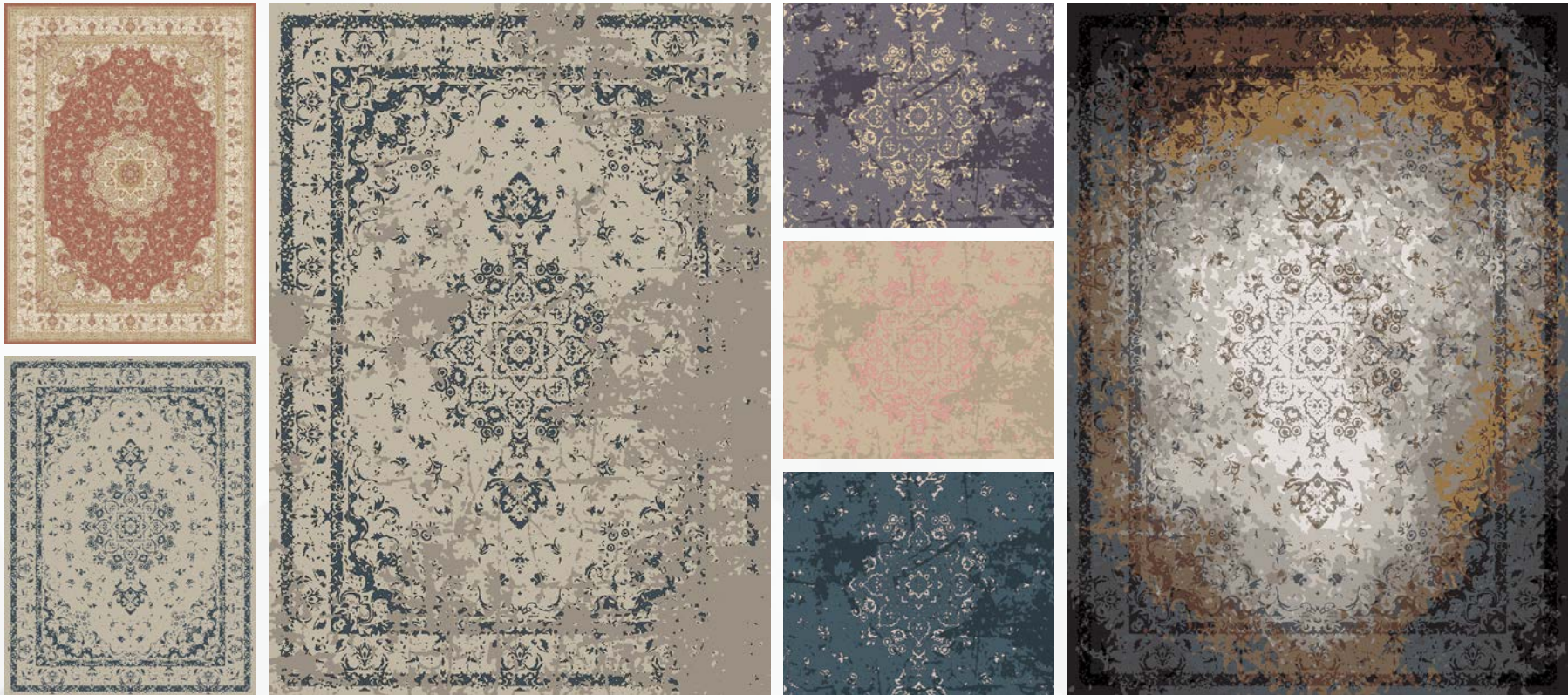


After color reduction:  
8 colors!



The Vintage Effect function has been developed to create vintage and erased designs by just one click!

It comes with 50 different predefined effects which are customizable to your demand.



Individual and modern Vintage effects created with eDesigner  
from an existing classic design



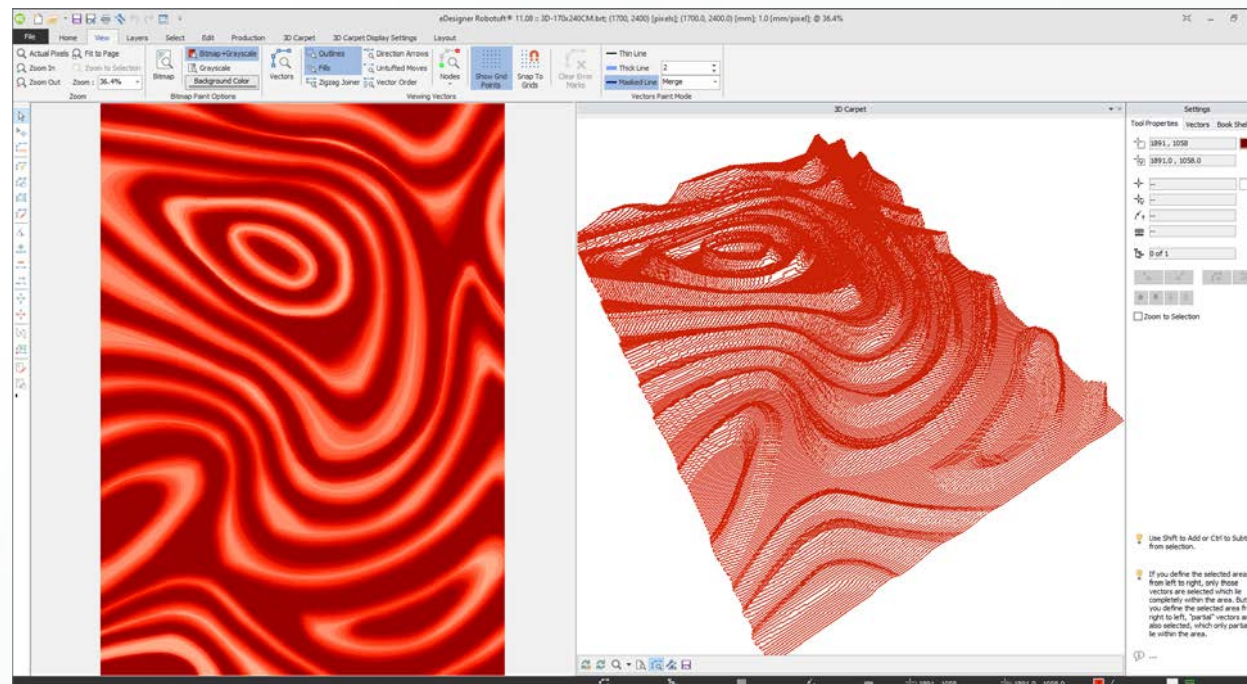
# eDesigner

## Robotuft™ Add-on

The Robotuft™ Add-on comes with a flexible set of drawing tools and a complete range of designing functions. Its features are developed to increase the speed of designing as well as the accuracy and productivity of hand-tuft robots.

This add-on can convert pixel-based designs to vector-based formats for robotic production. Accompanied with useful and handy features and functions, this revolutionary raster to vector conversion solution enables designers to create various designs easily.

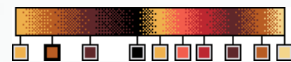
All the difficulties for hand- tuft carpet design creation are eliminated and variety comes to your production.



Robotuft Add-on with 3D view

# eDesigner

- Windows 10, 8.1, 7, Vista and XP compatible (32-bit and 64-bit)
- Background Layer with transparency support
- Pile & Loop Combiner to visualize Double-Pile and Pile & Loop combinations
- Gradient Fill scheme with 5 different tools: Gradient, Multi color Gradient, Patterned Multi Color Gradient, Color Course and Contour Gradient (supporting more than 66 different ways of gradient fills)



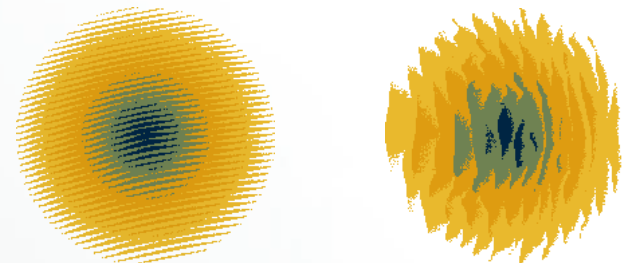
- Complete set of drawing tools (up to 60 tools depending on the software edition)
- Special drawing tools for spiral lines, symmetric motifs, DP curve tool, etc. with customized properties supporting Pen Pressure and Eraser



- More than 150 functions: resize, rotate, repeat, mirror, symmetry, color masking, contour, bookshelf, effect binding and more

## Features and Functions

- Special functions for expert usage: Cross Planting, De-Perspective, Creel Map and more
- Automatic filtering of scanned point paper designs with < 1% error
- Working at any zoom level with exact warp/weft ratio and customized grid and guide lines
- Design Browser to manage and browse design files
- Exporting color usage report to Excel file for further calculations
- Working on multiple designs simultaneously



- Locked Windows option for easier comparing of two designs
- Copy & paste design elements while protecting the selected colors
- Multiple steps of undo/redo with history of editing
- Easy color masking and unmasking
- Easy to create, modify, add, rearrange and save color palettes according to designer preferences or customizable color books
- Comes with Chromatone 1080, ARS 600 and ARS 1200 RGB color data
- Reading and writing multiple different standard file formats (BMP, PCX, GIF, TIF, PSD, TGA, PNG, JPG, PAT, DXF, SVG, PLT, BRT, HIT...)
- User definable shortcut keys
- And many more



# eDesigner

## Software Editions

### Business Edition

Developed specially for wholesalers and retailers who have their own special demands. Edit carpet designs, retrieve old designs from photos, create new coloration, change motifs, use carpet simulation and room decoration for presentation. Cost effective price, suitable for all businesses from small shops to large wholesalers.

### Standard Edition

Ideal for most medium-sized companies, home designers and carpet & rug producers.

Includes necessary features and drawing tools for designing carpets and rugs effectively.

### Professional Edition

Ideal for professional designers and producers to handle complex requirements easily and to create own masterpieces.

Includes Standard Edition plus advanced drawing tools and features.

### Professional+ Edition

Outstanding edition for expert designers and well-established companies.

Includes Professional Edition plus additional features:

- Border Wizard
- Repeat View
- Pile and Loop Combiner
- Background Layer
- Locked Windows
- Import Vector Files

- Import Weaving Data (EP, JC5 and DAT)
- Highlight Color Switches (to correct mixed contours)
- Vintage and Erased Effects
- Color Harmony
- Room Decoration
- and more

### Robotuft Edition

Unique edition for hand-tuft robots. Revolutionary Raster to Vector Conversion Solution with important features and functions to create designs for robotic hand-tufting. Includes:

- Professional Edition
- Robotuft Add-on

### eTuft 3D+ Edition

Most advanced software edition with 3D designing functions for hand-tuft robots. Includes:

- Professional+ Edition,
- Robotuft Add-on
- 3D Carpet Designing Plug-in
- Smart Cut/Loop Plug-in

### Types of licenses

All editions come with lifetime licenses.

Three packages available at attractive rates:

- Single user
- 5 users
- 10 users







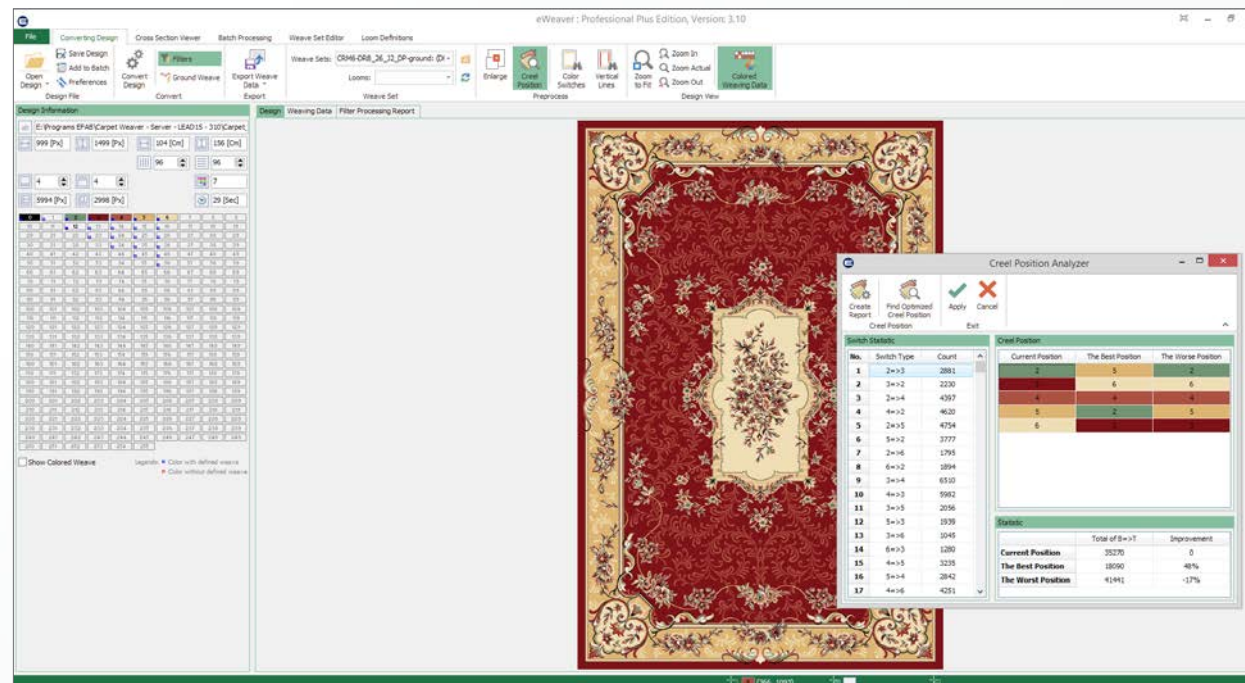
# eWeaver

## Woven Carpet CAM Software

**eWeaver** is an advanced CAM software for processing carpet designs and converting them into machine specific production data. It supports single, double and triple rapier, face to face and incorporate techniques with a large range of weave sets.

eWeaver can create customized weave sets or works with predefined ones. Its user-friendly graphical environment provides various functions for creating and editing weaving structures. The software converts the designs to machine specific production data.

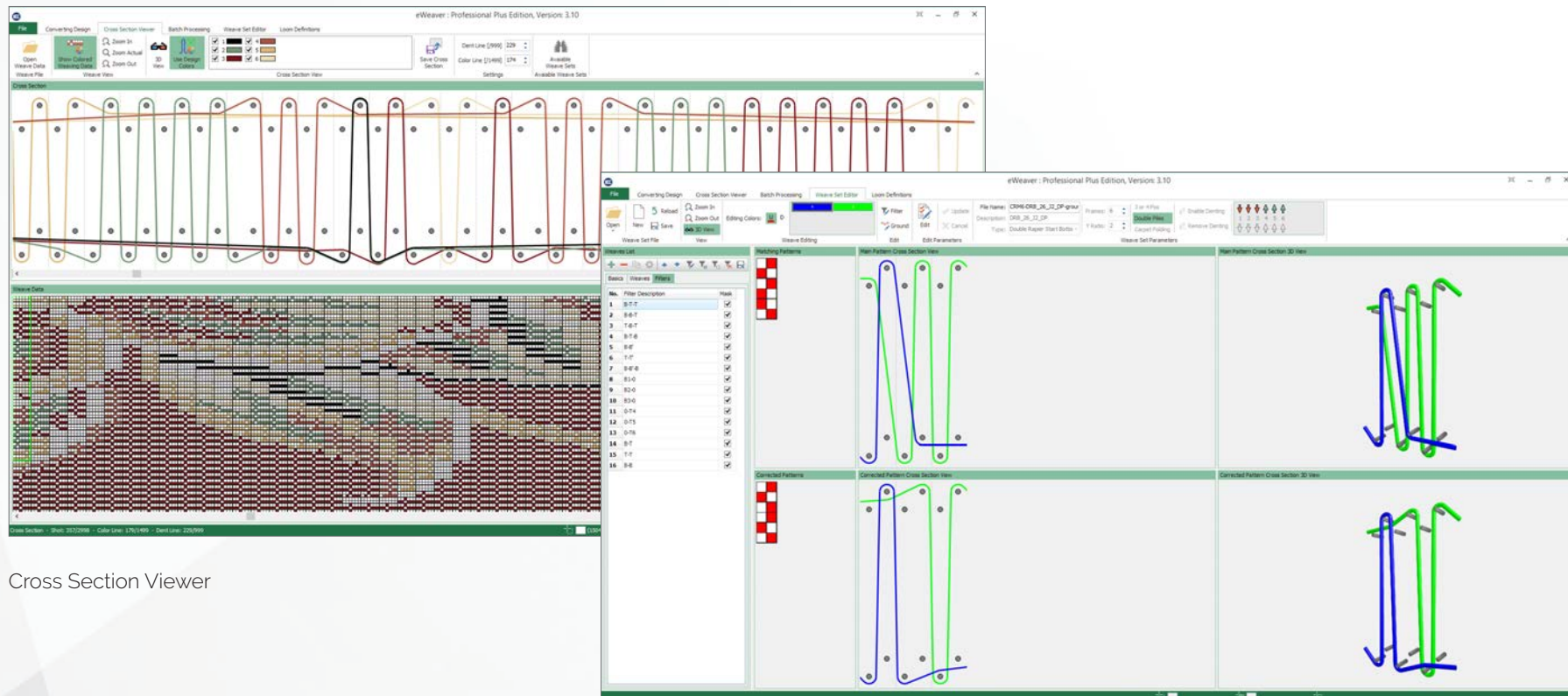
Different graphical file formats (BMP, PNG, TIF, PCX, GIF, PAT, ...) can be converted to different machine file formats, like: EP, JC5 and DAT.



eWeaver with advanced GUI (Graphical User Interface)  
Compatible with Windows 10, 8.1, 7 and XP (32 and 64 bit)

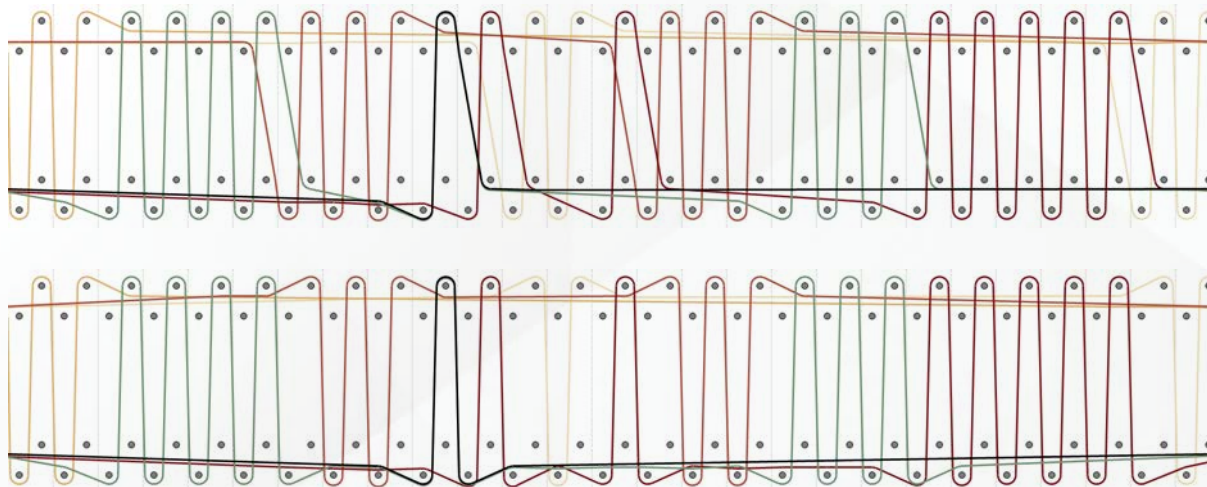
Weave Set Editor function can create and edit weave sets based on machine types, required technical specifications and design. Also supports different types of filter creation.

After design conversion, whole designs can be seen in cross section format to find out how the design is going to be woven. Scroll the dent line or enter the dent line number to find the proper position and view the cross section of the design.



Cross Section Viewer

- Powerful and user-friendly
- Supports single, double and triple rapier machine types
- Create different weave sets, basic weaves and filters
- 2D and 3D Cross Section Viewer for viewing, creating and editing basic all weaves and filters
- Supports Double Point and Carpet Folding
- Supports 3 position Jacquards
- Supports common graphical file formats (BMP, PCX, GIF, TIF, PNG, PAT, ...)
- Supports EP, JC5 and DAT
- Batch processing
- Windows 10, 8.1, 7, Vista and XP compatible (32-bit and 64-bit)



Cross Section of carpet before and after filter processing





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