Simulating

Customers are happy with designs when they are presented with style and professionalism. This can be achieved by texture mapping on a photographic picture to make a 3D images catalog with swatches of your dream designs that buyer expects. Designers can create design concepts with an eye on manufacturability with a high level of creativity in the shortest possible time.

Colour

Colour is something very important in making printed fabrics and fabrics with colour. A sketch with an adequate composition may not be attractive if the colours are not adequate. On the other hand a sketch with a defective composition may be attractive if the colours are well combined. The proposals for colour combinations can be made in seconds, due to the ability to create color and generate colourways. So that they can be evaluated by the sales department or by the buyer before going on to the next step of production, thus obtaining important feedback.

Virtual Prototyping (Textile Design)

Designers & merchandisers want to see and touch a fabric and/or style before it is accepted or rejected, so waiting until a production sample comes back can be a costly venture. By using the manufacturing information and creating a digital fabric of any kind like woven, knit etc., designers, merchandisers and sampling department are able to see a preliminary sample prior to production. In addition, this sample can be used for merchandising purposes in the event that the production sample doesn't come back in time for a showroom presentation, fashion show, catalog shoot, etc. It is a very cost effective way of evaluation prior to production.

Technical Design

In the creation of the physical samples several departments collaborate and in most of the cases there is no efficient mechanism of communication between them. This typically involves a two-part process consisting of both the technical "style" drawing that conveys the look of the apparel along with key manufacturing parameters and the actual pattern making process. RFS brings these two processes closer together so that they are in alignment.

They benefit from REACH Solutions

adidas, Arvind, Reliance, DK, GC, Gokaldas Images, Columbia, Lebek, my, Oldnavy, Reebok, Puma, Tom Tailor, AX Armani Exchange, Wal-Mart, Fabulina Limited, tam, Vicco Exports, Petrex India, Tesco, Zodiac, Mas, Diesel, L T Karle, Esprit, DKNY, United Colors of Benetton, Spykar, Levi's, Marks & Spencer, mfg, Nike, GAP, Esquel, Li & Fung, CMAI

Benefits:

- Reduce design cycle times and costs.
- Increase creativity and productivity of designers.
- Enable collaborative working.
- Product information integrity.
- Show your product to your farthest customer in his favorite decoration.
- Presentation can be sent and received in seconds, the three-dimensional simulation system uses the simulation of the garment in order to present it in its natural setting.
- A virtual catalogue can be prepared with thousands of proposals without having to invest either on fabrics or on the development of models and prototypes.
- REACH colour card supports over 15,000 REACH colors. Auto matching defined colour with similar REACH colour showing REACH colour code; Search REACH colour by colour name.
- The fabric simulation system, which turns the computer into an authentic virtual loom, obtains the simulation of the fabric either on the screen or on paper by means of a printer, with total realism.

"We are satisfied users of REACH CAD package and find that it compares favorably in all areas of functionality with global competitors like Lectra, while providing much better value."

Sumir Hinduja,
Director, Gokaldas Images.

"We are using REACH Cut Planner. RCP has effected reduction in end bits apart from greater process control in the cutting room".

Stephen Verghese
VP-Operations, Madura Garments

About REACH Technologies

REACH Technologies, a leader in Business Technology Solutions for the global soft goods industry, offers pre-packaged products, custom solutions, Business Process Outsourcing (BPO), consulting services and offshore development facilities.

REACH solutions enable stake holders across the soft goods value chain work collaboratively more effectively and efficiently.

REACH solutions impact the creme de la creme of companies, academic and research institutions including Calvin Klein, DIESEL, GAP, Levi's, Marks & Spencer, NIKE, TESCO, United Colors of Benetton, Tommy Hilfiger, Wal Mart, Zodiac Clothing, Madura Garments, Arvind Clothing, Gokaldas, United Nations Conference on Trade and Development, Apparel Training and Design Centre, Apparel Export Promotion Council, Clothing Manufacturers Association of India, National Institute of Fashion Technology, Regional Vocational Training Institute etc.

REACH Merchandising Manager
is tailored to ensure your competitiveness in the sewn product manufacturing and merchandising marketplace where trends are created overnight; fashions change quickly and without warning. RMM streamlines sampling, merchandising, production and quality processes, integrating customer service with optimal utilization of resources across the enterprise.

REACH CAD
REACH CAD is the software tool for pattern engineering, grading and marker planning for minimizing fabric consumption and supplying the sewing sections with accurate cut parts.

REACH CAD incorporates styling and functional features like dart intake, pleats turning and balance, grain line adjustments, flipping of patterns, pitch point placements, drill marking, size and order representation, fabric width adjustment, cutting of checks, plaids and stripes, garment balance, n-way size combinations, seam allowance adjustments, grading, nesting, etc. with user-friendly controls and applications.

REACH Cut Planner
is the proven industry standard Cut Planning tool that uses techniques in combinatiorial optimization and decision support to let you save significant quantities of fabric.

Finding the optimal allocation of plies and fabric rolls for a given set of style / colour quantities present a challenge to the best cut planners. The number of variables and possible solutions exceed normal human abilities but not that of REACH Cut Planner.

REACH Technologies

REACH Sewn Technologies & Consulting Pvt. Ltd.
www.reach-tech.com | info@reach-tech.com

REACH Fashion Studio

REACH Technologies

enabling collaborative partnerships across the soft goods value chain

3D Product Visualization

- Background, Mannequin selection & Lighting.
- Fashion style design, Modification, Combination.
- Distortion effect, Folding effect, Wrinkle effect.
- Auto match texture & color.
- Adjust texture pattern's size, angle.
- Solid line, dot line, line with arrow, stitch line, willow line etc. user defined line, zipper line, zebra line, wave line etc.
- Design & Modify stitch line.
- Design accessories like necklace, zipper etc.
- Scanned picture & 2D ornaments picture application.
- Use material library by drag & drop.
- Style library, Mannequin library, Texture library, Wrinkle Library, Surface library, Color library, Ornaments library
- Save design series in one document for easy comparison between different styles.

REACH 3D Product visualization is a fashion design application capable of recreating the fashion design production process in an entirely digital environment. It empowers you to go to market with your products in a fraction of the time. It creates photo-realistic 3D rendering of designs, colors, surfaces, textures and patterns.

A 3D image can take the place of a physical sample for early decision-making in a product line. Merchandisers and retail clients can form opinions on a product based on virtual product models.

Texture Mapping

It is fast, easy to use, and the results are incredibly realistic. The cost and time savings benefits are equally impressive. Shortened pipeline time, thanks to immediate visual communication, means that products can be created with faster response times to market changes. In a world where turnaround time is so critical, this is key to a company's success.

Preliminary ideas can be directly scanned in the software and then manipulated all within the application. With simple and intuitive set of tools, REACH Texture Mapping offers the opportunity to preview, on a model and in real time, the garments that a user designs. More so, the materials and fabrics used in the design will act exactly as they would if they were real.

- Scan image, Print image and output image in BMP, JPG, TIF and PSD formats.
- Modify image to be transparent, half transparent and hollow effect.
- Set and edit Hue, Lighting & Saturation
- Edit 2D style.
- Various pen as color pen, hue pen, clone pen, transparent pen, lighting pen etc.
- Partial fill with texture or color.
- Automatic expansion or shrinking hollow area.
- Partial editing & reshape of design
- Auto change texture for scanned image
- Reproduce scanned style and accessories into material library.
- Match different color & texture on 2D fashion design.
- Imitation of hand drawing and various effects by embedding Photoshop & Painter.

Colour Reduction & Cleaning

With REACH Colour Reduction & Cleaning tool creating, modifying and composing Printed Fabric designs by films separation is easy. Starting with scanned picture, fabric, or an imported picture file format, you can precisely reduce millions of pixels down to just the colors you specify. It features a special colour separation function which helps the designer quickly judge the colour separation with just a mouse click. The colours can be reduced manually or by the system with its inbuilt capability, automatically reducing the colours to handle flat and tonal prints or anything in between.

Once reduced, you can view your design in separate screen, which allows you to make the pattern printing creation quickly and with quality. Designer can edit current colour layer to make the texture or output for printing.

- Windows environment for the ultimate easy-to-use interface.
- Select colors manually or automatically by entering the required no. of colours.
- Preview the colour reduction. ◆ Set Pattern, Material, Hue. ◆ Scanned fabric correction.
- Popular color management and color card application. ◆ Printing pattern hollow out, half-transparent effect.

Colourways

Easily create your season's palettes and then simply drag and drop colors into place. Drag colors from multiple palettes to the design, drag from design to design, drag and drop to and from everywhere. You can also automatically make as many different designs and colourways on the screen as you like, making it easy to compare and share.

- Automatic combination for texture display and print
- Scanned fabric correction.
- Merge color and automatic color combination for fabric.
- Change & Adjust fabric color
- Popular color management and color card application.
- Various pen as color pen, hue pen, clone pen, transparent pen, lighting pen etc
- Adjust material Hue, Harness & Quality.
- Allocate colors from your color libraries automatically throughout your entire design

Colour Communication

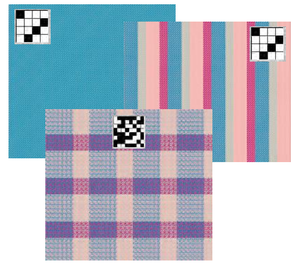
In a click, it is possible to find the nearest REACH shade of any colour scanned, or imported. Colours can be personalized by RGB, CMYK and Hue, Lighting and Saturation by mixing or entering the values. Colors, from user defined color libraries, can either be mixed individually within the design or imported from color library (REACH). Besides the creation of colour, it can be easily edited by grouping, auto-matching etc.

Design and Repeat

REACH Design and repeat is a textile and surface designing tool. The software can create all types of repeats. Convert design into horizontal, vertical, 1/2, 1/3, 2/3 repeats, copying, pasting, rotating, selecting, and resizing all changes immediately take place over multiple repeats. Select motifs, part of textures and a area of a design to create new ideas.

Fabric Design

Any fabric design begins with a creative idea. Using REACH Fabric Design creativity can be quickly translated into reality. It allows to scan, or import or to create any kind of fabric from dobby, knits to leather fabrics in the software itself with real texture effects. The quality of the simulation is recognized by prominent textile designers, which turns the software into an authentic virtual loom, obtains the simulation of the fabric either on the screen or on paper by means of a printer, with total realism. Fabrics designed here can be taken to 3D product visualization or to texture mapping for presentations in realistic and dynamic ways in just a few clicks. It leads to avoid or speed up sampling. To promote Time saving and to reduce raw-material waste during the study of the collection or sampling.



- Various fabric structure
- Adjust material Hue, Harness & quality.
- Scanned fabric correction.
- Change & Adjust fabric color
- Create Weave Texture according to yarn property and pattern.
- Easy pattern creation.
- Material reflection; Leather effect.
- Various texture in library
- Self-defined enterprise material library.
- Automatic combination for texture display and print

Spec Creation

Spec. Creation enables you to ensure product information integrity. Specifications can be spelled out in order to achieve the best possible manufacturing sample as early as possible. Correct technical specification is the key for the most accurate fit that conveys the look of the apparel garment along with key manufacturing parameters. Blocks of technical drawings can be stored and later recombined to make a new design.

- Various fabric structures.
- Vector format which helps to have shapes easy to draw and easy to edit as per requirement.
- Solid line, dot line, line with arrow, stitch line, willow line etc. user defined line, zipper line, zebra line, wave line etc.
- Design & Modify stitch line.
- Create & modify production sheet with picture.
- Create notes & measurements to design parts easily.
- User can create libraries for different types of garments and accessories.
- Perfect compatibility with word & excel.
- Insert statistics, VCD video clips etc.