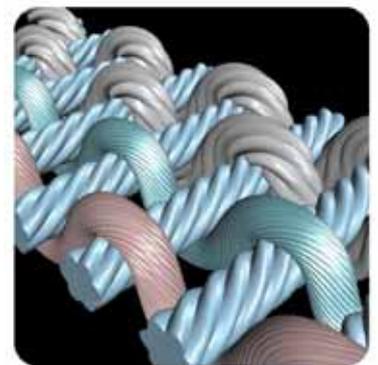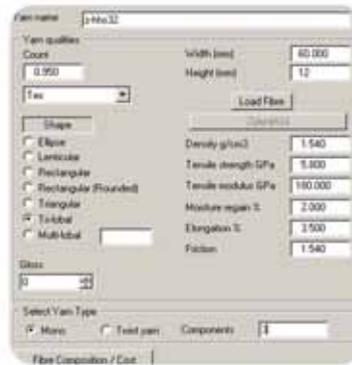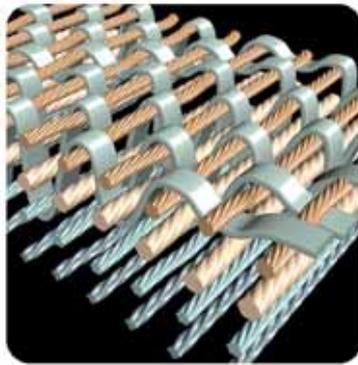**ScotWeave**

ScotWeave **Technical Weaver** is a new product within our suite of CAD programs that has been tailored to meet the exacting requirements of technical textile producers and engineers creating industrial, commercial and geo-textiles. Technical Weaver offers a complete CAD-CAM software package for creating all types of dobby or jacquard preforms where the weave architecture and performance is vital.

Weaving

For technical applications, choose ScotWeave **Technical Weaver** to create Dobby and/or Jacquard fabrics. The software supports creation of simple single cloth structures, to complex layered architectures, containing stacking orders, stuffers and variable densities. Virtually any weave on up to 64 shafts for dobby looms, or up to 12000+ hooks for jacquard can be created, and the production data sent directly to the loom.
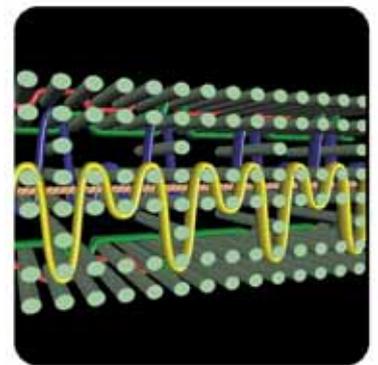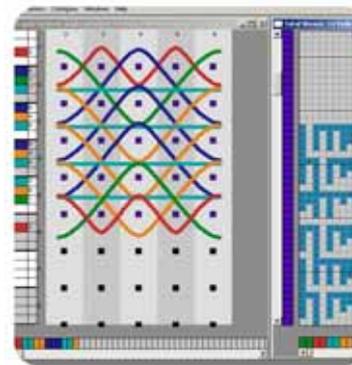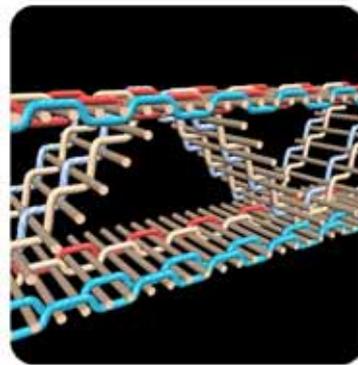
Yarns

Yarns are created in a special version of ScotWeave **Yarn Designer** which uses real yarn information including yarn count, and fibre type. Technical data including density and tensile strength can be input to allow for future calculations based on the yarn and fibre composition. The cross sectional shape of the yarn can be recorded for more accurate 3D weave schematics.

Cross Section

Creation of the most complex architectures is completed in the cross section input window. Here you can choose the number of stacking weft tows, binding warp tows, and straight stuffer warp tows required to complete a structure. If pockets of space/holes are required within the architecture, then wefts can easily be removed from the stack to visualise locations for the injection of resin, concrete, etc. When working on a large weave structure, you can break this down into "groups' (sub-sections) to aid easy input. Copy and rotation tools can be used between groups to reduce repetitive tasks. The flat weave notation (warp lifting plan) is automatically extracted and shown alongside the cross section display.

Weave 3D

The **Weave 3D** schematic allows initial assessment of architecture performance. Real time dynamic movement of the viewpoint allows the woven preform to be analysed from all angles.Rotate an individual or selection of weave groups to view interlacings from the top, through the cross-section, from beneath, in warp or weft directions or from a corner.**Weave 3D** is an ideal tool for in-house architecture development and presentation.

Production

As the overall mechanical and physical properties are directly influenced by the weave architecture, tension checking facilities are available prior to weaving. For electronic looms the production data can be passed directly to the loom or jacquard controller. Complex jacquard hook maps can easily be created. Printed loomcards can be configured by ScotWeave to closely match most existing production specification sheets.The loomcard can be printed or saved as an HTML file ready for attaching to e-mail.

For the latest information visit our website at www.ScotWeave.com
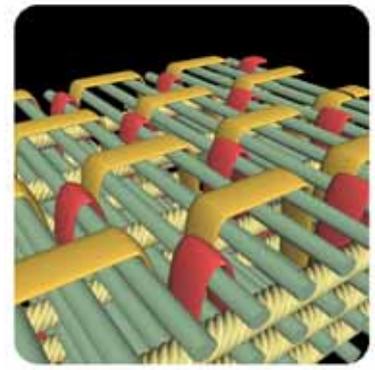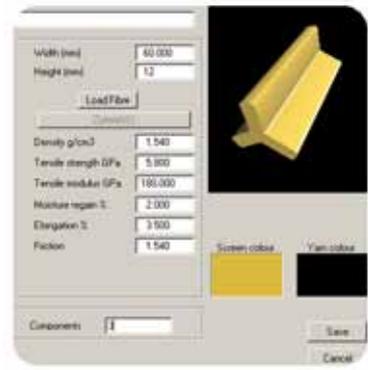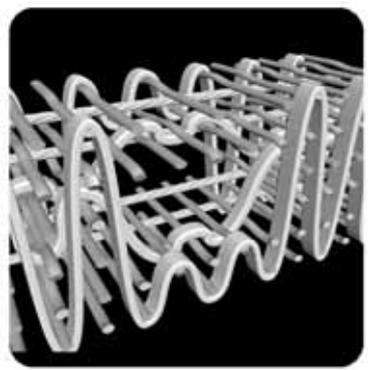
ScotWeave

ScotWeave is the most **comprehensive CAD-CAM tool** for woven textile design currently available. Using an intuitive visual design approach ScotWeave is simple to use, quick to learn, and produces stunning results on screen, on printer and direct to loom. ScotWeave software runs under all current versions of **Microsoft Windows®**, uses industry standard computer hardware, and any Windows®-compatible colour printer, scanner or other hardware.

Special Features

★ **3D Weave** schematic for dynamic viewing of woven preform.

★ **Easy Weave Cross-Section** input of angle interlock and orthogonal structures.

★ **Pockets of space/gaps** for reinforcement products are easily achieved.

★ **Weave Notation** extracted from the Cross-Section schematic.

★ **Yarn cross-section shape** held and displayed in 3D Weave.

★ **Yarn properties** held and utilised for calculations.

★ **Production Data** can be sent directly to electronic dobby and jacquard controllers.
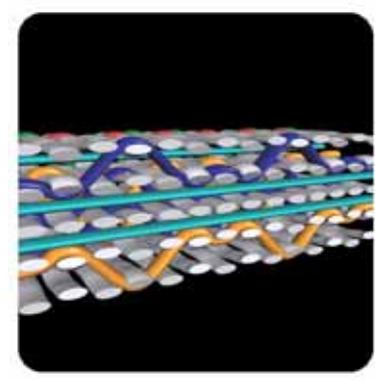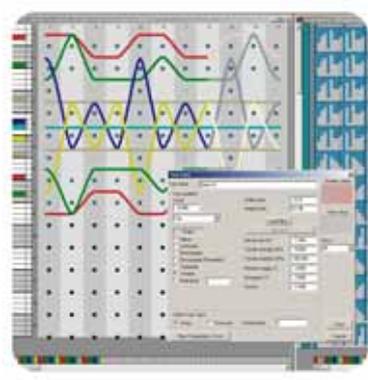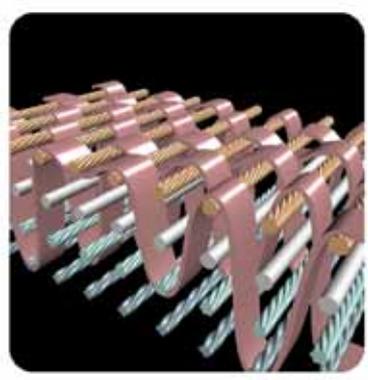
Dobby

ScotWeave **Dobby Designer** allows you to work with the draft/draw and peg/chain plan or you can work with the composite weave and let the software automatically generate the draft and lifting plan. Up to 64 shafts can be accommodated, with float checking and tie down options. Fabric costing display and warp yarn tension checker are also available. Fabric simulations are automatically generated when yarns are applied to the weave.

Jacquard

Use ScotWeave **Artwork Designer** to create an image in which each colour area represents a weave structure. This image is scaled to correct loom proportions using your weaving details (jacquard hooks and warp/weft settings). Use **Jacquard Designer** to assign weaves to artwork colours, and the total jacquard notation is generated. Advanced float checking and breaking options are available to "intelligently" break floats between specified weaves. The warp load (number of times each warp end is lifted) can be viewed to highlight areas of stress in the fabric construction and any problems identified for easy fixing.

How to contact ScotWeave

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🖱 Email: **info@ScotWeave.com**   🖱 Web: **www.ScotWeave.com**