



# Vetigraph:

Digitising, Nesting and Cutting options for your industry

Vetigraph has been developing and implementing CAD and PLM solutions for more than 35 years. During that time, we've set impressive new standards for high-end software and hardware products which increase productivity in a wide variety of sectors including composite materials for the automotive and aviation industries, upholstery, furniture, and other textiles.

“20% increase in cutting room productivity – 15% reduction in material waste”

Vetigraph Customer

Whatever industry you're in, efficient design and production processes as well as seamless connectivity are vital to your success. Our robust, reliable software and hardware options can be adapted to all your needs.



## Compatibility with CAD files

All our software and hardware solutions are compatible with Adobe Illustrator, AutoCAD, SolidWorks and Corel Draw via DXF, HPGL, CUT-Files or PDF.

# Optimised nesting

## Vetigraph Automarker Quick and Expert

### Savings of up to 7% on fabric consumption

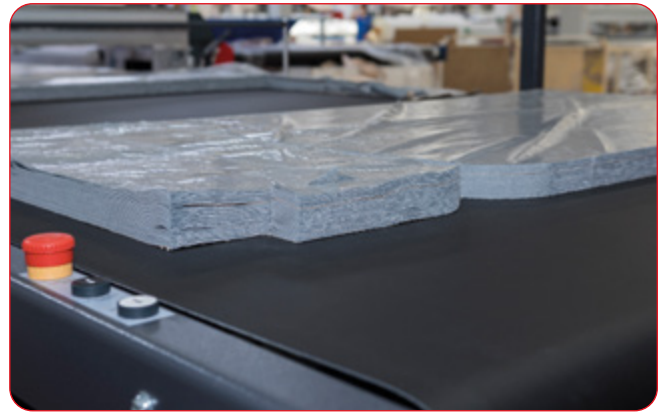
Our automated marker-making and lay-planning software makes your piece costing much more accurate and efficient. It uses AI to calculate the highest yield of fabric on the marker.

### Training and Support

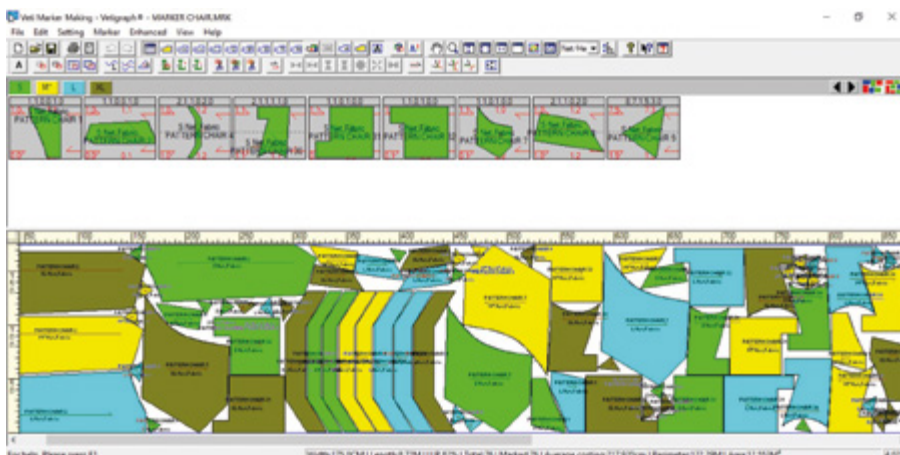
Our products are extremely robust and need little in the way of maintenance. We offer great value support and training. We can either come to your premises and train you there, or you can take a course at our Skills Centre. Whichever method you choose, you will receive plenty of high-quality support afterwards. We'll be in touch regularly to see how things are going and make sure you have everything you need to make the most of our products.

With **Marker Optimum® Quick**, the user sets the required fabric width and buffer spacing between pieces, adding specific reference lines to indicate splicing and a grid for checks and stripes. Pieces can be automatically flipped and rotated either individually or as a group and displayed according to size or by style reference.

**Marker Optimum® Expert** is specifically associated with the automation of fabric cutting. This module uses a timer and continually achieves the highest percentage of fabric use, instantly displaying the result as a virtual representation of the cloth.



### Efficient Nesting and Costings...



# Optimise time, quality and sampling costs with Vetigraph

## GraphCut: Digital Cutting Room from Vetigraph

Our cutting machines really are cutting edge! GraphCut is our range of single-ply and high-ply automated cutting machines and they make light work of cutting fabrics and materials for a variety of applications. We've spent more than 20 years developing these machines to our exacting standards.



### Versatility and Compatibility

Our applications support some of the most common and neutral file formats, enabling you to easily share design projects with collaborative teams using DXF, HPGL or CUT-files.

Whether you're a design studio, an in-house team or a manufacturer, the versatility of Vetigraph's solutions will provide you with all the tools you need to allow your business to take full advantage of your digital journey.

### Compatibility with CAD files

All software and hardware solutions are compatible with Adobe Illustrator, AutoCAD, SolidWorks, Corel Draw via DXF, HPGL, CUT-Files or PDF.

### GraphCut MonoPly and MultiPly

We know that you want highly customised products – and you want them quickly. You need robust hardware that can stand up to your customers' demands, while also helping you improve efficiency.

The GraphCut range of auto-cutters offers a wide array of cutting options, making use of AI to connect the design department and cutting room with the whole enterprise, tracking your orders and ensuring greater agility and transparency in your businesses processes.

The **GraphCut MonoPly** machine is ideal for producing small to medium-scale product runs and samples. Our high-ply **GraphCut MultiPly** auto-cutter will cut lays ranging from 25mm to 90mm depending on the machine configuration.

### Nomique Seating

Based in Telford, Shropshire, Nomique is a British designer and manufacturer of quality seating and furniture for the contract market. Templates are digitised on ScanGraph and nested on Veti Marker, prior to being cut on the Graphcut MonoPly automated cutter.



### GraphCut MonoPly

#### Ideal for single-ply cutting and on-demand manufacturing

Whether you're manufacturing custom-made sofas or personalised sportswear products, the **GraphCut MonoPly** auto-cutter will increase efficiency by reducing material wastage whilst improving your cutting quality.



A cutting speed of up 2,000mm/sec helps you meet your clients' expectations and will reduce time to market. Compatibility with a wide range of file formats means you can import templates and cut files from most CAD applications.

For longer lays and large batches, choose the GraphCut Dynamic, which moves material forward to cut and then offload.



### Cut a wide range of materials to suit multiple industries

Automotive and aviation upholstery, composites, leather and textile upholstery, car mats, ballistic equipment, graphics, insulation textiles and gaskets. Tents, caravans and other outdoor leisure equipment, motorcycle and cycling: our applications are without limits.

### Key specifications - GraphCut MonoPly

- Cutting width: 1,860mm to 2,500mm
- Cutting length: 2,100mm
- Table size: 2,640 x 2,250mm
- Material thickness: up to 20mm
- Cutting speed: 1,500 to 2,000 mm/sec
- Acceleration: 1G
- Either conveyORIZED (dynamic) or fixed (static) cutting bed
- Accuracy: ±0.1%
- Repeatability: 0.1mm
- Interface: auto-nesting, optical print recognition, dxf, CUT-Files
- Cutting tool options: oscillating knife, drag knife, powered rotary knife, static rotary knife

## GraphCut MultiPly

### Work productively and cut to the highest standards

In a demanding production environment, you need robust hardware with flexible and connected processes that can do what's demanded of it while helping you work as efficiently as possible.

Our **GraphCut MultiPly** range of medium to high volume automated digital cutters offers a selection of cutting options and pre-programmed parameters. They are designed to handle a wide variety of materials from lightweight fashion or home interior fabrics to heavy duty materials such as carpet and Kevlar.

Our knife intelligence software, common line management and zero buffer option enable you to make critical material savings. Crucially, the low average power consumption of our solutions will help to reduce the carbon footprint of your cutting room.

When implemented with Vetigraph's nesting solutions and **Stylepack PLM**, you will use AI to connect the design department and cutting room with your whole enterprise. You'll be able to track your orders and ensure greater agility and transparency in your business's processes.



### Key specifications - GraphCut MultiPly

- Cutting width: 1,600mm to 2,400mm
- Max. cutting window: 2,400mm x 1,800mm
- Machine footprint: 2,415mm to 3,215mm x 4,495mm
- Cutting thickness: from 25mm to 90mm depending on configuration
- Either conveyORIZED (dynamic) or fixed (static) cutting bed.
- Reversible bristle conveyor
- Cutting speed: up to 8,000mm/min
- Average power consumption: 7 kW
- Noise: <70 dB
- Lateral travel kit (optional)
- Knife intelligence
- Air cooler (optional)
- Re-sealer
- Interface: auto-nesting, dxf, CUT-Files



# Digitising made simple

## ScanGraph: Photo Digitising System

Want to make your templates and patterns digital?

Our simple yet powerful ScanGraph software package is a business-transforming automated photo digitising system which converts images from jpegs to digital pattern files. You can use either a wide format upright scanner or an ordinary digital camera.

### Respond quickly to demand

ScanGraph will improve your design productivity and empower your business so you can swiftly digitise batches of hard copy templates.

The software automatically identifies the outline of the templates and converts them into Vetigraph pattern files or other generic file formats. ScanGraph accurately captures the full set of templates simultaneously, giving you a much speedier option than manual digitising.




### Quick and easy to use

It's so straightforward! Using the camera, simply position the templates on the calibrated board, take a photo and activate the image capture tool to digitise.

ScanGraph allows you to input templates in many forms: paper, card, plastic and fabric. It automatically recognises the pattern outlines and all internal lines, as well as angles, notches, drill holes etc. Templates are ready to be checked and nested to determine their optimal fabric consumption.



## Get in touch

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