

Delcam 

**CRISPIN**










Complete Footwear CAD/CAM Solutions

[www.delcam-crispin.com](http://www.delcam-crispin.com)

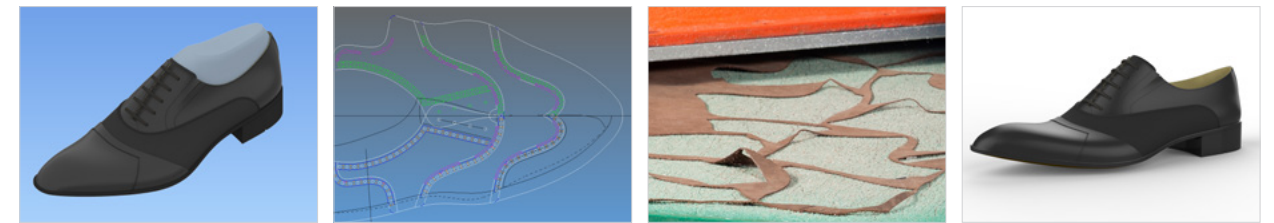




Complete CAD/CAM Solutions

-  A wholly-owned, independently-operated subsidiary of Autodesk
-  150 offices and partners in over 80 countries
-  More than 800 employees
-  The world's largest CAM development team\*
-  50,000 customers worldwide
-  40 years of experience developing CAD/CAM solutions
-  Headquartered in a purpose-built 63,000 sq. ft. facility in Birmingham, UK

Complete Footwear CAD/CAM Solutions



Delcam CRISPIN software provides all the tools you need to design, cost, manufacture and present new designs to buyers so you get to market faster. It is the only footwear CAD/CAM solution that extracts all data from a single .shoe file so you no longer have to manage multiple formats.

Choose to purchase the full solution and you will save time and reduce costs at every stage of the design and manufacturing process. Alternatively, purchase individual components and your .shoe file will contain all the information you need to make upgrading easy.

**DID YOU KNOW?**

Delcam CRISPIN software is the market-leader amongst world-leading footwear designers and manufacturers

**▶ REDUCE TIME TO MARKET**

Minimise time spent designing and manufacturing to get new designs to market faster

**▶ INCREASE PROFITABILITY**

Assess pattern efficiency at all stages of design and manufacturing to achieve your target cost

**▶ MAXIMISE PRODUCTIVITY**

Instantly flatten your 3D design into an accurate 2D pattern to get to manufacture faster

**▶ CUSTOMISE FOR YOUR BUSINESS**

We can customise Delcam CRISPIN software to meet the needs of your business

**▶ CONTINUOUS DEVELOPMENT**

Take advantage of regular updates and free tutorial videos

Connect with Delcam CRISPIN

[www.delcam-crispin.com](http://www.delcam-crispin.com) | [lz.delcam-crispin.com](http://lz.delcam-crispin.com)





# LastMaker

## 3D Last Engineering & Grading

Use accurate 3D digital lasts that you can modify quickly and simply for design purposes. This means you no longer have to wait for your last to be modified by hand, but can instead make any changes digitally to begin your design sooner.

All modifications are based on accurate measurements so you can guarantee precision at all times. Lasts can be stored in a searchable library to make finding the one you want quick and easy.

You can mill your finished last directly in 3D using Delcam PowerMILL to further reduce the lead time between design and manufacture.

To learn more about how your business can benefit from LastMaker, visit [www.delcam-crispin.com/lastmaker](http://www.delcam-crispin.com/lastmaker)



### CREATE ACCURATE CUSTOM LASTS

Dynamically modify your last around a 3D foot scan

### MODIFY LAST SHAPE

Use 2D cross-sections to edit your last with precision

### EDIT PROFILE LINES ACCURATELY

Dynamic measurements ensure you achieve accuracy every time

### USE RAPID PROTOTYPES TO REDUCE DEVELOPMENT TIME

Your last contains all the data you need for manufacture

### SPEND LESS TIME GRADING

Enter key values to produce a set of graded lasts in seconds

### CREATE A CUSTOM LAST BOTTOM

Modify the bottom of your last to fit any 2D foot scan

### ADD A NEW TOE SECTION

Blend the new toe to the original last automatically

#### BUSINESS BENEFITS

##### ▶ REDUCE TIME TO MARKET

Your finished design contains all the data you need for manufacture so you can produce your final last quickly

##### ▶ REDUCE RELIANCE ON THIRD PARTY LAST MAKERS

Remove the need for last manufacture before designing your shoe so you have more creative freedom

##### ▶ ACHIEVE ACCURACY AND CONSISTENCY

All modifications are based on accurate measurements to make achieving precision and repeatability easy

##### ▶ EASY LAST MANAGEMENT

Use powerful search criteria such as style and size to find the last you need

##### ▶ SPEND LESS TIME GRADING

Grade your last to a custom specification accurately

### DID YOU KNOW?

Even new users can use LastMaker with confidence after only a few hours training



# ShoeMaker

## 3D Concept Design & Visualisation

ShoeMaker provides sophisticated yet intuitive design tools so you can produce realistic 3D digital models. This allows you to approve designs in less time and reduces the need for expensive physical prototypes.

Your digital model contains all the data you need for manufacture such as margins and markers. Open your model in Engineer, our 2D pattern engineering solution, and you can automatically flatten your design to further reduce development time.

With ShoeMaker's built-in rendering software, you can use your laptop, tablet or smartphone to show realistic renders of your designs to prospective buyers. This reduces the need for physical samples so you reduce costs and get to market faster.

To learn more about how ShoeMaker can help get your designs to market sooner, visit [www.delcam-crispin.com/shoemaker](http://www.delcam-crispin.com/shoemaker)



### ADD STITCHES WITH PRECISION

Sketch decorative stitches anywhere or add to a part edge automatically

### REDUCE PROTOTYPE TIME AND COSTS

Export to a 3D printer to produce rapid prototypes

### CREATE PANELS QUICKLY

Create with a single click and change thickness dynamically

### INSERT PUNCHES QUICKLY

Add punches individually or apply them to a line

### ADD LACES IN SECONDS

Simply select eyelets and choose pattern to lace automatically

### ADD COLOURS AND TEXTURES EASILY

Choose from the extensive library or scan your own

### DESIGN THE WAY YOU WANT

Use a digitiser, touch screen or mouse

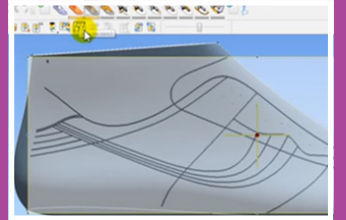
### ADD ACCESSORIES EFFORTLESSLY

Import in a range of formats and position dynamically

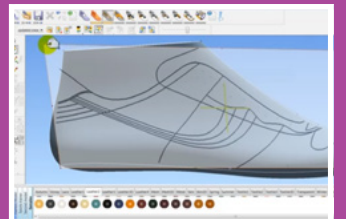


### Turn 2D vectors into 3D style lines in seconds...

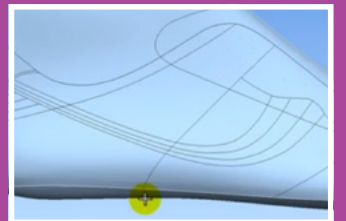
Convert 2D vectors from Adobe Illustrator™ or Acrobat™ into editable 3D style lines automatically



#### 1. Import your .ai or .pdf file



#### 2. Dynamically resize style lines to fit your last



#### 3. Wrap style lines and start editing instantly



#### ... or use JPEG images

Import your design and trace style lines directly onto the digital last



JPEG



### BUSINESS BENEFITS

- ▶ **SELECT NEW DESIGNS QUICKLY**  
Replace 2D sketches with realistic 3D digital models to make design reviews more efficient
- ▶ **REDUCE PATTERN DEVELOPMENT TIME**  
Automatically generate an accurate 2D pattern from your 3D design to reduce time to manufacture
- ▶ **MINIMISE PHYSICAL SAMPLE COSTS**  
Use built-in rendering software to present digital models to prospective buyers
- ▶ **CREATE MORE CHOICE FOR BUYERS**  
Experiment with material variations so you can present buyers with more choice
- ▶ **USE WITH MOST CAD SYSTEMS**  
ShoeMaker uses Parasolid™, the world's most widely used 3D kernel



# SoleEngineer

## 3D Sole Unit Engineering & Grading

Create complex sole units effortlessly with a unique combination of wireframe, surface, solid and triangle modelling techniques. A set of shoe specific tools make engineering and grading easy so you get to manufacture faster.

SoleEngineer's versatile modelling tools mean you can create any shape including heels, custom accessories or even moulded footwear such as wellington boots without the need for additional software.

You can mill your completed sole directly in 3D using Delcam PowerMILL to further reduce the lead time between design and manufacture.

To discover more ways for your business to get sole units to manufacture faster, visit

[www.delcam-crispin.com/sole-engineer](http://www.delcam-crispin.com/sole-engineer)

### CREATE COMPLEX MODELS OR IMPORT FROM ELSEWHERE

Import meshes, surface or solid models in a wide range of formats

### CREATE EVA MOULD FROM FULL SIZE MODEL

Scale different areas of the sole and blend automatically

### FIX KEY FEATURES WHEN GRADING

Use automatic blending and sealing to fix positioning of logos, cleats, studs and other features

### ENGINEER HEELS QUICKLY

Change heel size and shape dynamically

### REDUCE PROTOTYPE TIME AND COSTS

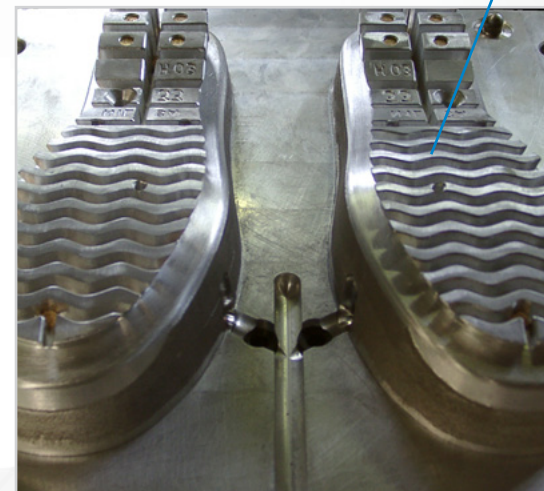
Export to a 3D printer to produce rapid prototypes

### DESIGN SOLE OR TOOLING

Use specialised mould-making tools to design tooling from the sole model

### MAKE COMPLEX EDITS

Apply complex local and global edits easily



#### BUSINESS BENEFITS

- ▶ **CREATE COMPLEX SOLES WITH EASE**  
Easy-to-use yet sophisticated tools mean you can create complex soles quickly
- ▶ **SPEND LESS TIME GRADING**  
Use shoe specific tools to grade your heel or sole unit accurately
- ▶ **TRANSFORM YOUR SKETCH INTO A 3D DESIGN**  
Trace JPEG, BITMAP, AI or PDF files to create wireframes so you can engineer your sole quickly
- ▶ **SPEND LESS TIME MAKING REVISIONS**  
Automatically apply changes to specific areas of your sole unit to save remodelling time
- ▶ **GET TO MANUFACTURE QUICKLY**  
Comprehensive manufacturing tools give you total control over your final product and tooling costs

### DID YOU KNOW?

SoleEngineer ensures the final sole unit exactly matches the original last and design features



# ShoeMaker

3D Concept Design & Visualisation

WITH

# SoleEngineer

3D Sole Unit Engineering & Grading

ShoeMaker can seamlessly integrate with the advanced 3D design tools of SoleEngineer. This allows you to model the upper and sole together, and gives you access to a suite of advanced design tools for total creative freedom.

Create elaborate bows and ruches, and design using fur or moulded objects such as beads and plastic. Integrating ShoeMaker with SoleEngineer means you will spend less time and money in product development and get your designs to market sooner.

To see how you can integrate ShoeMaker with SoleEngineer to design any shoe you can imagine, visit [www.delcam-crispin.com/completesolution](http://www.delcam-crispin.com/completesolution)

**CREATE 3D TEXTURES FOR BOLDER MORE REALISTIC DESIGNS**

Wrap 3D textures such as spikes or emblems for radical designs



**DESIGN CUSTOM ACCESSORIES**

Use market leading 3D design tools to create any accessory

**GUARANTEE THE BITE LINE MEETS PERFECTLY**

Use the same geometric kernel to model the upper and sole together



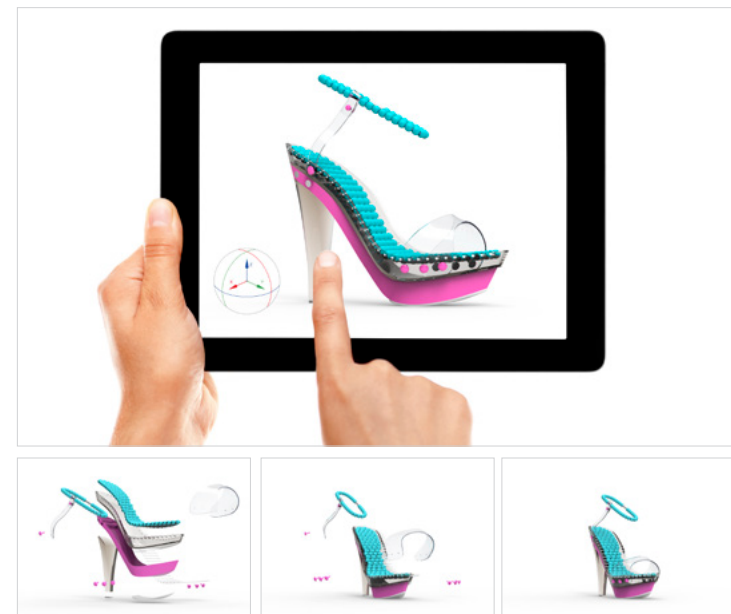
**CREATE ELABORATE AND COMPLEX DESIGNS**

Create elaborate features such as fur, ruching and bows

**DESIGN WITH MOULDED MATERIALS**

Design with any material for endless possibilities

**CREATE PHOTO-REALISTIC STILL AND ANIMATED DIGITAL RENDERS**



Use built-in 3D rendering software to create photo-realistic images and add optional upgrade for impressive animated renders of your shoe

**DID YOU KNOW?**

ShoeMaker's rendering tools were used to create all images on this page

**BUSINESS BENEFITS**

- ▶ **UNRIVALLED FUNCTIONALITY**  
This is the only solution on the market that allows you to model the upper and sole together
- ▶ **GENERATE PHOTO-REALISTIC MODELS**  
Use a combination of bump mapping and rendered 3D textures for unrivalled model realism
- ▶ **CREATE MORE COMPLEX AND ELABORATE DESIGNS**  
Use advanced modelling tools to create elaborate features to make your design as radical as you want
- ▶ **AVOID MANUFACTURING ISSUES**  
Model your upper and sole together to ensure the bite line meets every time
- ▶ **MINIMISE COMMUNICATION PROBLEMS**  
Your design contains all data for manufacture so that everybody knows exactly what is required



# Engineer

## 2D Pattern Engineering & Grading

Engineer is the international market-leading pattern engineering CAD software used by both worldwide brands and small manufacturers. Years of feedback and development make it the most comprehensive and powerful yet easy-to-use 2D pattern engineering solution.

With Engineer, you can draw patterns from scratch, import from sources such as AI and transform them to fit a forme, or digitise manually-created patterns. Once created, you can edit them faster, with greater precision than you could by hand, minimising the time and iterations for lasting and fit trials. Another major benefit of the digital approach is that it's easy to quickly grade and group-grade your patterns, so you no longer need to rely on a third party.

Together, these features give you total control over tooling costs and remove the need to make compromises in production so you get your designs to manufacture faster.

For many more ways Engineer can save you time and improve pattern quality, visit

[www.delcam-crispin.com/engineer](http://www.delcam-crispin.com/engineer)

### CREATE DESIGN VARIATIONS RAPIDLY

Automatically adapt your pattern to fit a new last forme

### FAST AND ACCURATE PATTERN CREATION

Drag and drop edge-types onto a net boundary edge to create margins, markers and notches quickly

### MODIFY YOUR DESIGN FASTER AND WITH PRECISION

Update associated pieces automatically

### MAXIMISE PATTERN PIECE EFFICIENCY

Use Assessment to see how pattern parts interlock and modify parts to increase efficiency



### REDUCE TIME CREATING PATTERNS

Open a model you have designed in ShoeMaker to create your 2D pattern automatically

### CREATE PARTS INSTANTLY

Create boundaries with a single mouse click

### ENSURE ACCURACY EASILY

Output to most cutting systems for prototypes

## BUSINESS BENEFITS

- ▶ **ACCURATE PATTERNS IN LESS TIME**  
Edit digital patterns with precision quickly so you do not have to make compromises in production
- ▶ **REDUCE TIME TO MANUFACTURE**  
Fast creation of new patterns by simply editing the existing pattern
- ▶ **SPEND LESS TIME GRADING**  
Accurately grade and group grade patterns to reduce reliance on third party services
- ▶ **INCREASE PATTERN EFFICIENCY**  
Get an instant pattern efficiency rating so you achieve an appropriate manufacturing cost
- ▶ **SHARE PATTERNS WITH COLLEAGUES**  
Download the free 2D viewer from our website and your colleagues or suppliers can add notes from anywhere in the world

## DID YOU KNOW?

You can use Engineer with a range of formats including DXF, IGES, AI and PDF



# ShoeCost

## Complete Footwear Costing

ShoeCost provides the tools you need to appropriately cost your design every time. Capable of working with hides and synthetic fabrics, ShoeCost requires no financial knowledge so you can cost any shoe with ease.

ShoeCost can automatically nest pattern pieces efficiently. If you work with leather, you can create quality graded zones quickly to ensure you make the most efficient use of any individual hide. A detailed breakdown of parts and components makes meeting your target cost easy. As you modify nesting or cost of parts and components, the cost of your shoe will change automatically so you know how close you are to your target.

Already used by leading footwear manufacturers, ShoeCost gives you enhanced control over the profitability of your business.

For more detail about how your business can use ShoeCost to minimise waste and increase profit margins, visit [www.delcam-crispin.com/shoecost](http://www.delcam-crispin.com/shoecost)

### STAY WITHIN YOUR TARGET COST

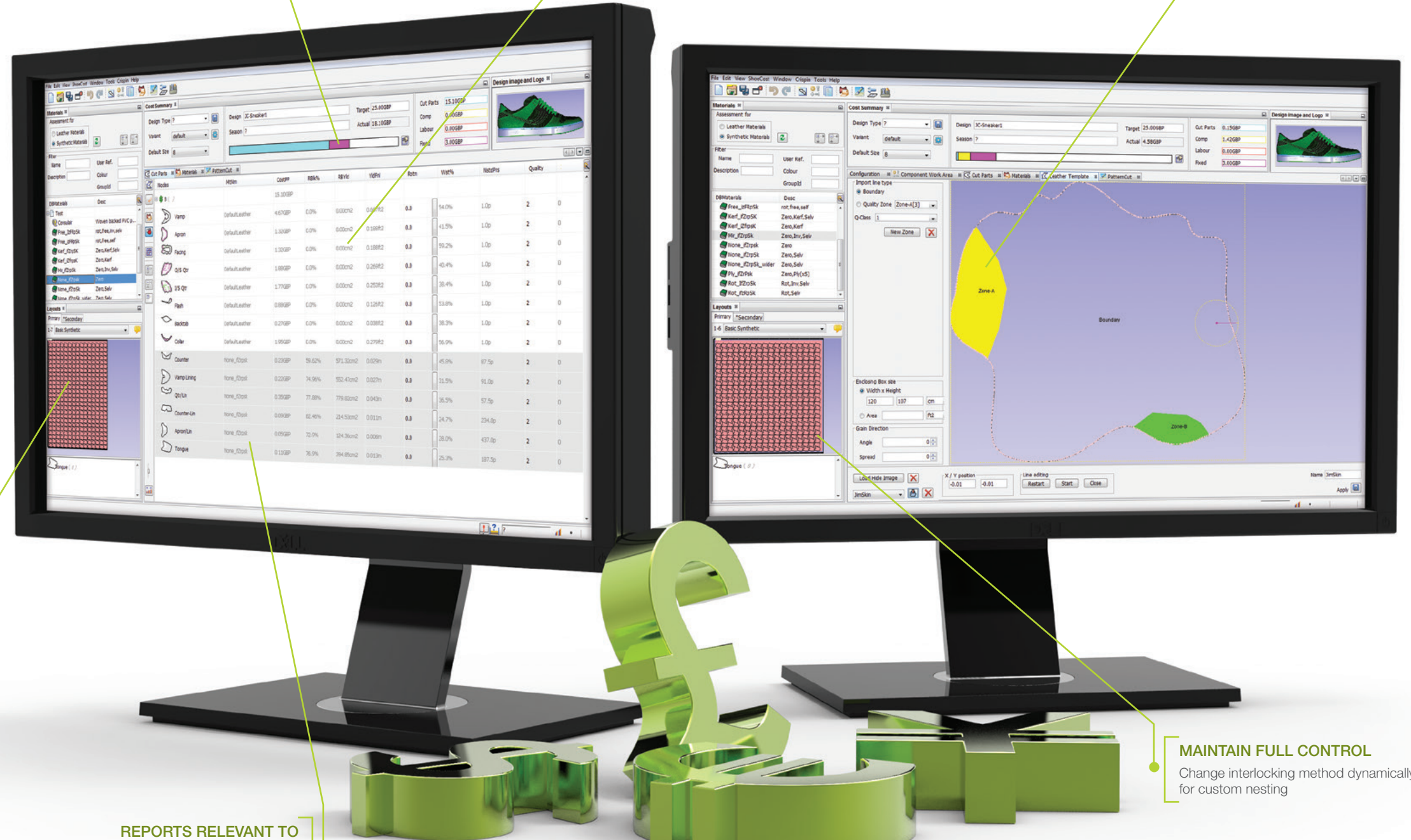
See how overheads, labour, components and parts affect unit cost

### MAXIMISE PROFIT MARGINS

Experiment with alternative materials and components

### PRODUCE LESS HIDE WASTE

Place pattern pieces in an appropriate quality zone automatically



### MAXIMISE SYNTHETIC YIELD

ShoeCost ensures you can always select the most efficient nesting strategy

### MAINTAIN FULL CONTROL

Change interlocking method dynamically for custom nesting

### REPORTS RELEVANT TO YOUR BUSINESS

Customisable information columns display only the information you need

### BUSINESS BENEFITS

- ▶ **ACCURATE COSTING QUICKLY**  
Use shoe specific costing tools to create automatic yet detailed costing reports
- ▶ **STAY WITHIN YOUR TARGET COST**  
Instantly see how changes to material, component, labour costs and overheads affect the cost of your shoes
- ▶ **MAXIMISE MATERIAL YIELD**  
Automatically nest your pattern pieces to guarantee a maximum yield every time
- ▶ **USE WITH YOUR EXISTING PATTERNS**  
Import parts in DXF to make implementation easy
- ▶ **EASILY CUSTOMISE TO MEET YOUR NEEDS**  
Customise your workspace for a costing analysis relevant to your business

### DID YOU KNOW?

ShoeCost can produce a costing report for all types of footwear in any size or fitting



# ShoeCloud

## Data Storage and Lifecycle Management

ShoeCloud is a product lifecycle management system produced specifically for the footwear industry. It helps people, data and processes work seamlessly together so you reduce time spent taking new designs to market.

By storing your files securely in the cloud, you will not have to deal with multiple copies stored on several computers. Instead, all teams can access everything they need from a central location wherever they are in the world.

Set up entire projects, assign tasks and delegate responsibilities so all teams know who is working on what at all times. You can add comments and revision notes to help you complete your project on time.

Integrate ShoeCloud into any Delcam CRISPIN product or access it via your web browser. This makes it cost-effective, quick to install and easy to maintain.

To learn more about how ShoeCloud can help manage your projects efficiently, visit [www.delcam-crispin.com/shoecloud](http://www.delcam-crispin.com/shoecloud)

### BUSINESS BENEFITS

- EASY AND SECURE FILE MANAGEMENT**  
 Access all your files from a secure central location so you can find the data you need from anywhere in the world
- EFFICIENT PROJECT MANAGEMENT**  
 Use a transparent communication system to make collaborating with other departments easy
- IMPROVED PRODUCT QUALITY**  
 Be sure you work on the latest version at all times so you eliminate errors
- ENCOURAGE CONTINUOUS IMPROVEMENT**  
 Show everybody how their tasks contribute to a project so you can encourage a co-operative culture
- EASY TO IMPLEMENT**  
 Integrate seamlessly with any Delcam CRISPIN product or run in your web browser for efficient implementation

**STAY UPDATED AT ALL TIMES**  
 Receive automatic updates via email

**EASY CO-ORDINATION BETWEEN DEPARTMENTS**  
 All amendments, comments and updates are visible to all

**USER ACCESS CONTROLS**  
 Access controls ensure all users see only the data they require

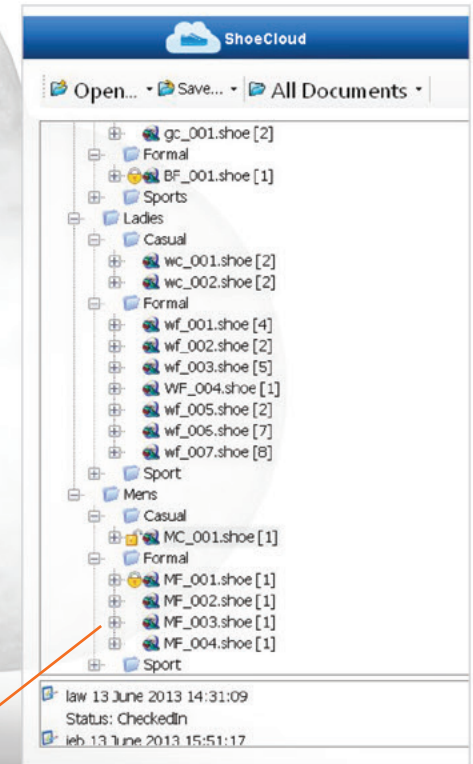
**ENCOURAGE A CULTURE OF CO-OPERATION**  
 Show everybody how their tasks contribute to project success

**COMPLETE PROJECTS SOONER**  
 Assign specific files and tasks to individuals or teams

**IMPROVE PRODUCT QUALITY**  
 Prevent more than one person from making changes at the same time

**RESPOND TO UNPREDICTED CHANGES QUICKLY**  
 Alter start dates, due dates, change assignees and reprioritise tasks at any time

**STORE FILES SECURELY**  
 Uses the same SSL encryption as the banking sector



**DID YOU KNOW?**

Delcam currently uses ShoeCloud technology to project manage its international business operations



# ShoeStyle

Style Line Engineering and Manufacture

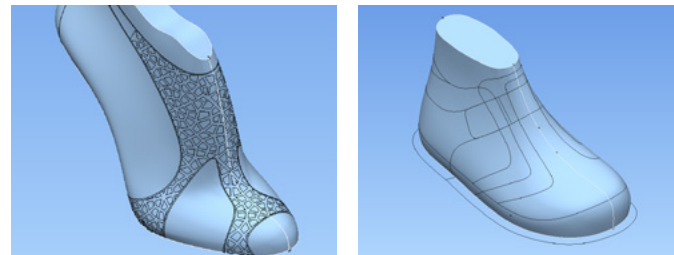
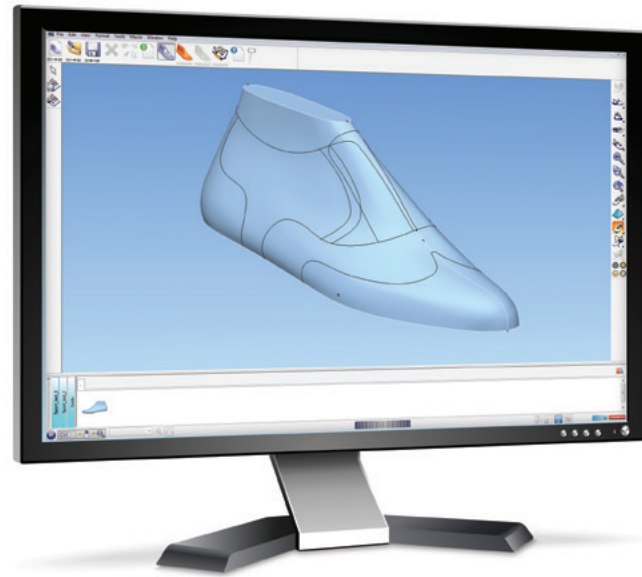
ShoeStyle is an easy to use solution for drawing, sketching and editing 3D style lines so you spend less time trying designs on different lasts. It enables you to flatten style lines into 2D patterns automatically.

Many companies already use ShoeStyle to standardise their flattening process.

To see ShoeStyle in action visit  
[www.delcam-crispin.com/shoestyle](http://www.delcam-crispin.com/shoestyle)

BUSINESS BENEFITS

- ▶ **SELECT THE BEST LAST QUICKLY**  
Try your design on multiple lasts so you can select a suitable one every time
- ▶ **REPEATABILITY**  
Save style lines and use again without the need to repeat any work
- ▶ **REDUCE TIME TO MARKET**  
Create style lines digitally to reduce time spent transforming an initial sketch into a completed product
- ▶ **WORK WITH YOUR EXISTING LASTS**  
Import digital lasts from your last manufacturer or scanning software
- ▶ **REDUCE PATTERN DEVELOPMENT TIME**  
Use Engineer to automatically create 2D patterns from your 3D style lines
- ▶ **MORE EFFICIENT FLATTENING**  
Use automatic flattening to standardise your flattening process



## TechPac

2D Technical Assembly Diagrams

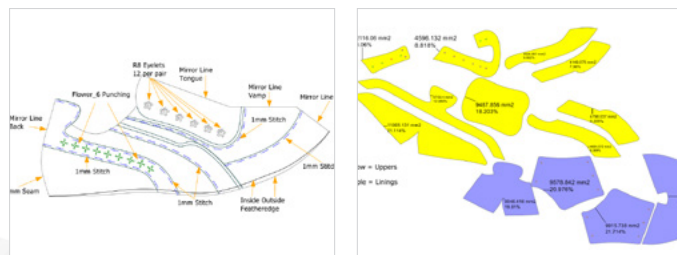
Produce technical packages for footwear manufacturing operations and assembly sequences quickly. Using customisable templates, you can create a series of diagrams to provide a pre-lasting assembly guideline for your factory operator.

Each diagram provides technical detail about the upper, components, type of machine to use and operation sequence. Publish your reports in HTML or PDF so you can choose to print or make it available on your local area network.

To learn more about how to produce detailed reports quickly, visit  
[www.delcam-crispin.com/techpac](http://www.delcam-crispin.com/techpac)

BUSINESS BENEFITS

- ▶ **PRODUCE ACCURATE REPORTS**  
Report templates mean you can focus on ensuring technical information is accurate
- ▶ **EASY TO IMPLEMENT**  
Import existing pattern pieces in DXF or almost any image file
- ▶ **INCREASE PRODUCTIVITY**  
Create a technical package quicker than with manual methods and with less resources
- ▶ **REPORTS RELEVANT TO YOUR BUSINESS**  
Create templates that display only the key information you require
- ▶ **REDUCE THROUGHPUT TIME**  
Use a detailed visual guide and technical information to manage the sequence of operations efficiently
- ▶ **CREATE TECHNICAL REPORTS AUTOMATICALLY**  
Extract data from other Delcam CRISPIN software to create reports quickly



## KnifeCut

2D Projection Nesting & Cutting

An easy-to-use solution for leather nesting and synthetic material layouts to minimise time spent producing footwear samples.

- ▶ **REDUCE COST OF SMALL RUNS**  
Cut directly from the required material to save the cost of unnecessary tooling
- ▶ **INCREASE THROUGHPUT**  
Nest parts and begin cutting whilst you start your next task
- ▶ **MAXIMISE EFFICIENCY**  
Create automatic layouts for synthetic materials

## PatternCut

2D Pattern Nesting & Cutting

Quick and easy-to-use but powerful solution for cutting graded sets of pattern parts in card or plastic from Delcam CRISPIN Engineer or other 2D CAD software.

- ▶ **FAST AUTOMATIC NESTING**  
Choose 'bounding box' nesting for speed or 'interlock' nesting to minimise material waste
- ▶ **RECORD UNUSED SHEET AREAS**  
Uncut areas of materials are recorded to minimise material waste.
- ▶ **WIDELY COMPATIBLE**  
Compatible with most flatbed cutting tables. New models, supporting HPGL, can easily be added.

## StitchTec

2D Stitching Pallet Engineering

Design pallette layouts and create stitch paths so you can fully utilise your auto-stitching machines.

- ▶ **CREATE PATTERNS QUICKLY**  
Precise engineering tools ensure conventional, sports and fashion upper components fit perfectly into the pallet layout
- ▶ **MINIMISE TIME TO PRODUCTION**  
Design complex layouts quickly and easily
- ▶ **REDUCE COSTS**  
Fully utilise your auto-stitching machine to reduce lead time and save labour costs

To learn more, visit [www.delcam-crispin.com/completesolution](http://www.delcam-crispin.com/completesolution)

## Better designs and increased productivity

Combine with other industry leading Delcam software for optimum results



Use Delcam ArtCAM to add details to your shoe design such as embossing and 3D textures  
[www.artcam.com](http://www.artcam.com)



## PowerMILL

Use Delcam PowerMILL, world leading 2, 3, and 5-axis CAM software for machining  
[www.powermill.com](http://www.powermill.com)



## Maintenance and Support

Take advantage of a maintenance contract to stay ahead of your competitors



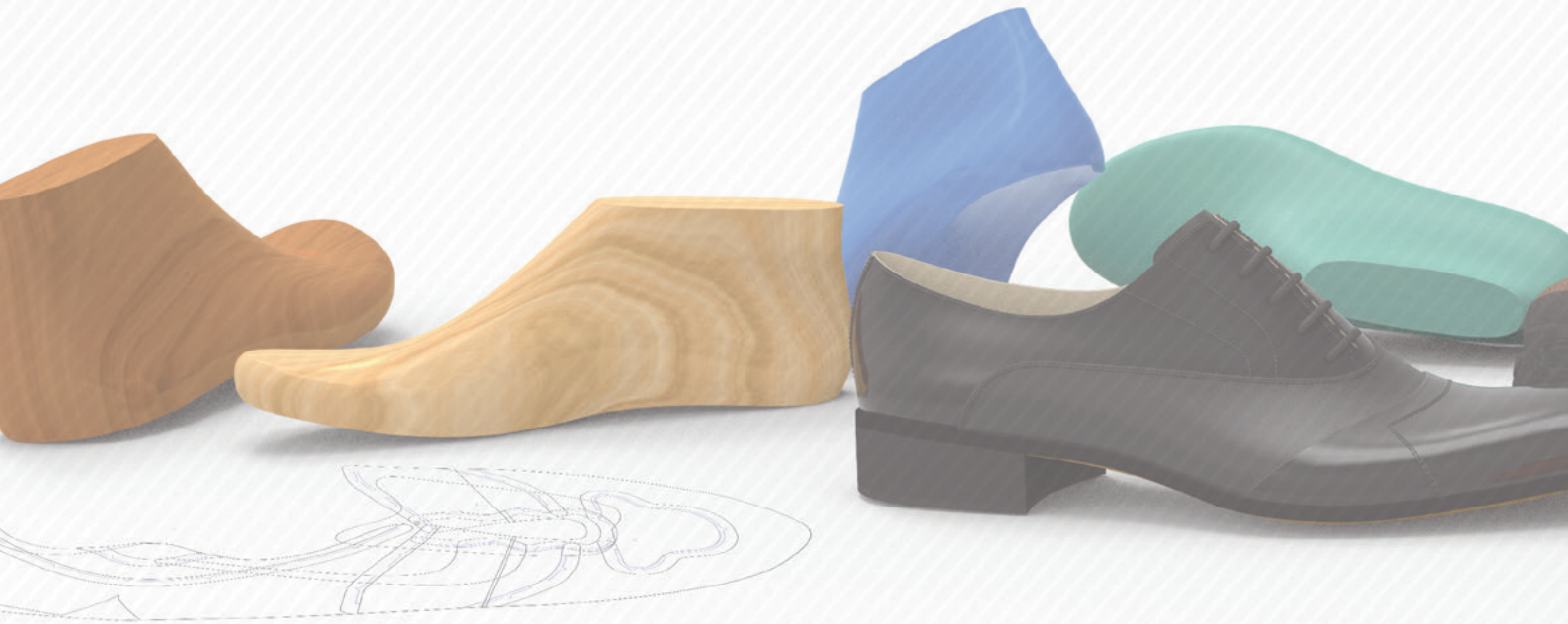
- ▶ **ACCESS TO FOOTWEAR PROFESSIONALS**  
We employ footwear design and engineering professionals specifically to answer your queries

- ▶ **LOCAL HELP AND SUPPORT**  
Your local sales partner can provide all the help and support you need in your language

- ▶ **FREQUENT SOFTWARE UPDATES**  
Receive frequent new releases including all new features so you stay up-to-date

For more information about maintenance visit: [www.delcam-crispin.com/maintenance](http://www.delcam-crispin.com/maintenance)





### Complete Footwear CAD/CAM Solutions

#### Delcam

Small Heath Business Park, Talbot Way, Birmingham B10 0HJ  
Tel: +44 (0) 121 766 5544 | Email: [marketing@delcam.com](mailto:marketing@delcam.com)

[www.delcam-crispin.com](http://www.delcam-crispin.com)

© Copyright Delcam 2014. All trademarks are the property of their respective owners.

